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MAXIMUM RELIABILITY

Quality and engineering support would be meaningless if Mill-Max could not deliver your components on schedule. We work hard to ensure that the integrity of both your products and your schedule will never be compromised.

Mill-Max maintains the largest inventory of stock products in North America to ensure our ability to fill orders rapidly and consistently. The expansive scale of our manufacturing operations ensures that we can meet the requirements of custom component runs quickly, efficiently and on time.

“We found knowledgeable people with a good understanding of quality control – if we have a problem they respond right away.”

–Senior Quality Engineer, Energy & Water Metering Equipment

MAXIMUM SERVICE

Call on Mill-Max and you will find that we will do everything possible to make your job easier. Our newly designed website features the most robust and easy-to-use product search engine in the industry. Responsive customer service and technical support are company hallmarks, and we specialize in quick turnaround quotes, one-hour order confirmation, on-time delivery, free samples and fast prototyping.

Put Mill-Max to the test and see how hard we will work to satisfy your needs. Mill-Max products are sold directly through our sales representative organizations as well as a network of 25 authorized distributors in the U.S. and throughout the world. Maximum satisfaction: it is both our policy and our promise.

“When they make a promise, they keep that promise... when they say they will deliver, I know I can count on it.”

–Senior Purchasing Specialist, CATV/Broadband Equipment Manufacturer



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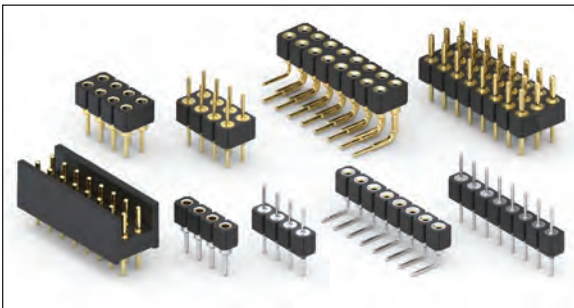
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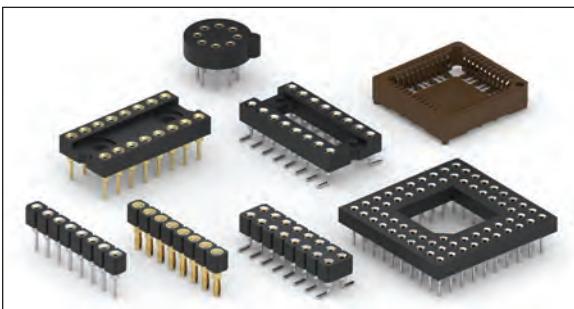
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SPRING-LOADED CONNECTORS





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MILL-MAX SPRING-LOADED CONNECTORS ARE IDEAL FOR A WIDE RANGE OF APPLICATIONS, from portable data acquisition units and mobile communication to medical and military equipment applications. Their unique design can be the perfect solution for many situations where establishing an electrical path between mating points is a challenge, including problematic vibratory environments.

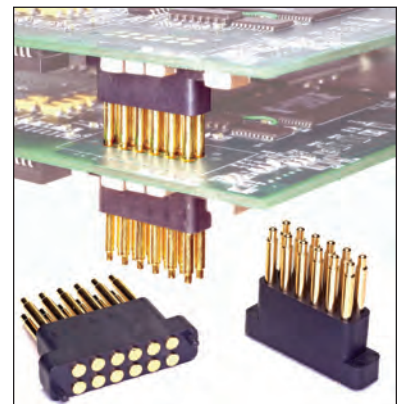
When strategically placed within an assembly and utilized correctly (shielded from over compression and direct side load forces,) spring-loaded connectors provide a reliable connection exceeding a million cycles.

SOME TYPICAL APPLICATIONS INCLUDE:

- The internal battery connection in portable instruments, or as the external battery connection for charging these instruments (docking stations).
- As a method for stacking printed circuit boards in an assembly. Utilizing spring pin connectors is a convenient approach to creating mezzanine-tiered board modules that can be assembled and disassembled quickly.
- Blind-mating applications: The spring pin piston need only make contact with its mating surface. This is typically a land or pad that is larger than the plunger diameter. In situations where the assembly process doesn't allow for visibility, spring pins are the optimum choice.

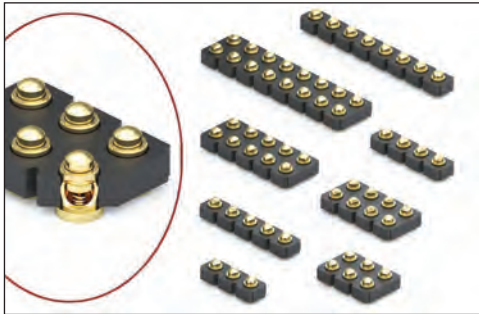
MILL-MAX SPRING-LOADED CONNECTORS CAN MATE TO THE FOLLOWING SURFACES:

- A conductive input/output pad found on the instrument pack itself.
- A gold-plated land on a circuit board. A hard gold over nickel-plated surface is recommended for the mating surface. This is the same as would be used for the printed circuit fingers associated with card edge connectors.
- Individual Mill-Max gold-plated nail head pins which can be soldered to the mating circuit board to serve as targets.
- Mill-Max Target Connectors which provide a large, flat gold-plated circuit path to the board.



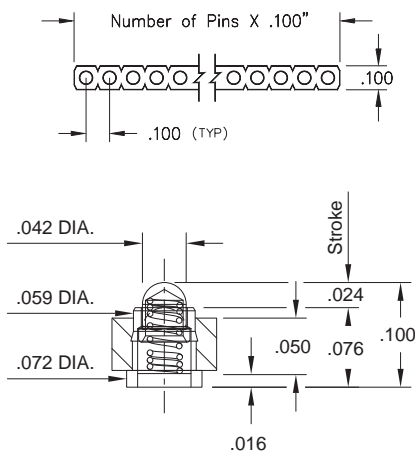
SPRING-LOADED CONNECTORS

SERIES 815 & 817 • .100" GRID SURFACE MOUNT, ULTRA LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

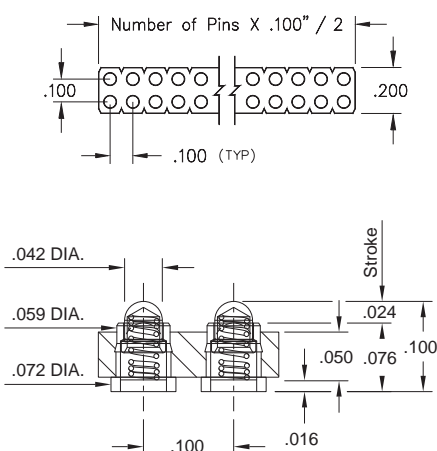


- Modular contacts for use on .100" grid, available in a height of .100", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .012" mid. stroke and a .024" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 815 & 817 series contact strips are designed for manual placement onto a .082" Ø solder pad prior to reflow soldering

SINGLE ROW Series 815



DOUBLE ROW Series 817



ORDERING INFORMATION

Single Row Series 815

815-22-0XX-30-001101

Specify number of contacts 01-32

For 815 and 817 Tape & Reel packaging, see page 12.1

Double Row Series 817

817-22-0XX-30-001101

Specify number of contacts 04-72

For 815 and 817 Tape & Reel packaging, see page 12.1

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20µ" gold over 100µ" nickel
 Spring: Beryllium copper-plated 10µ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.012"): 60 grams
 Durability: Up to 1,000,000 cycles
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins),
 For higher pin counts, contact Technical Support

Electrical:

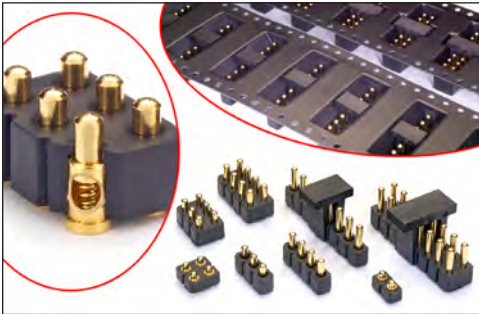
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



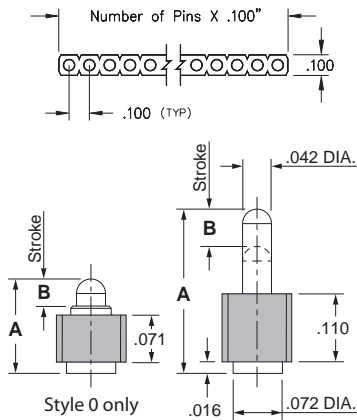
SPRING-LOADED CONNECTORS

SERIES 811 & 813 • .100" GRID SURFACE MOUNT, LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

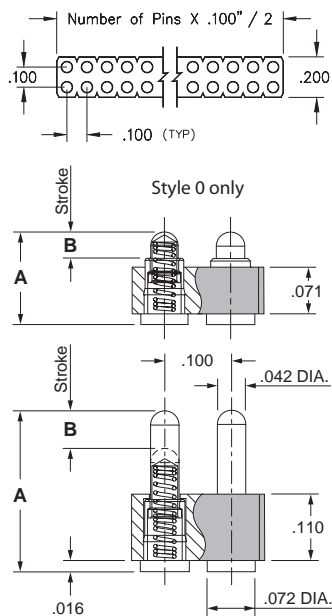


- Modular contacts for use on .100" grid, available in five heights from .137" to .236", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a long stroke relative to the low profile of the assembly
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 811 & 813 series, contact styles 1 through 4, are available on 32mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12 for strip lengths available and ordering information

SINGLE ROW Series 811



DOUBLE ROW Series 813



ORDERING INFORMATION

Single Row Series 811

811-22-0XX-30-00X101

Specify number of contacts 01-64

Specify contact style 0-4

Double Row Series 813

813-22-0XX-30-00X101

Specify number of contacts 04-72

Specify contact style 0-4

For 811 and 813 Tape & Reel packaging, see page 12

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	.137	.039
1	.177	.045
2	.197	.055
3	.217	.055
4	.236	.055

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: Up to 1,000,000 cycles
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins),
 For higher pin counts, contact Technical Support

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



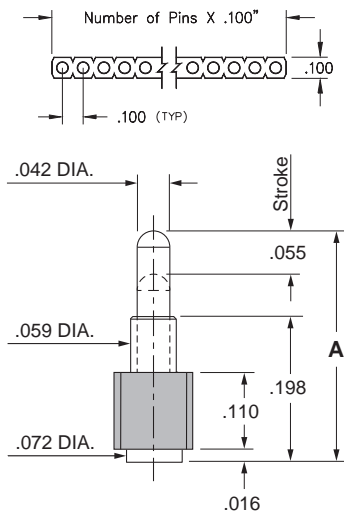
SPRING-LOADED CONNECTORS

SERIES 812 & 814 • .100" GRID SURFACE MOUNT, MID PROFILE • SINGLE AND DOUBLE ROW STRIPS

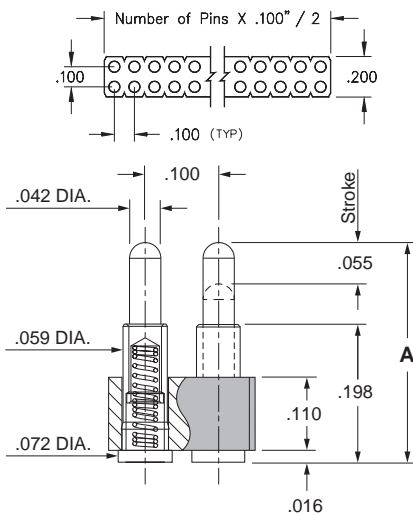


- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Extended body provides greater bearing surface for increased strength & plunger protection
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 812 & 814 series, contact styles 0 through 9, are available on 32mm or 44mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12 for strip lengths available and ordering information

SINGLE ROW Series 812



DOUBLE ROW Series 814



ORDERING INFORMATION

Single Row Series 812

812-22-0XX-30-00X101

Specify number of contacts 02-64 Specify contact style 0-9

Double Row Series 814

814-22-0XX-30-00X101

Specify number of contacts 04-72 Specify contact style 0-9

For 812 and 814 Tape & Reel packaging, see page 12

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 1,000,000 cycles
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins),
 For higher pin counts, contact Technical Support

Electrical:

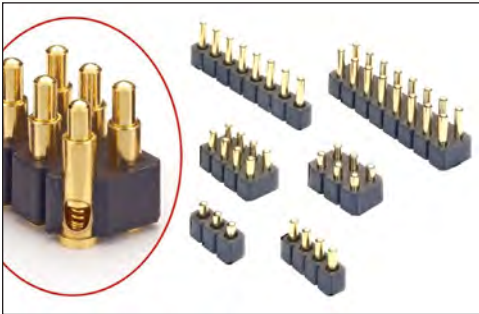
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



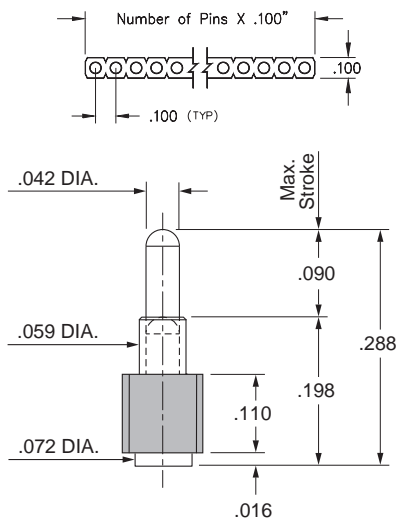
SPRING-LOADED CONNECTORS

SERIES 819 & 820 • .100" GRID SURFACE MOUNT, LONG STROKE • SINGLE AND DOUBLE ROW STRIPS



- Modular contacts for use on .100" grid, available in a height of .288", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .045" mid. stroke and a .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 819 & 820 series contact strips are designed for placement onto a Ø.082" solder pad prior to reflow soldering
- Both 819 & 820 series, are available on carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12.1 for strip lengths available and ordering information

SINGLE ROW Series 819



ORDERING INFORMATION

Single Row Series 819

819-22-0XX-30-001101

Specify number of contacts 01-64

For 819 and 820 Tape & Reel packaging, see page 12.1

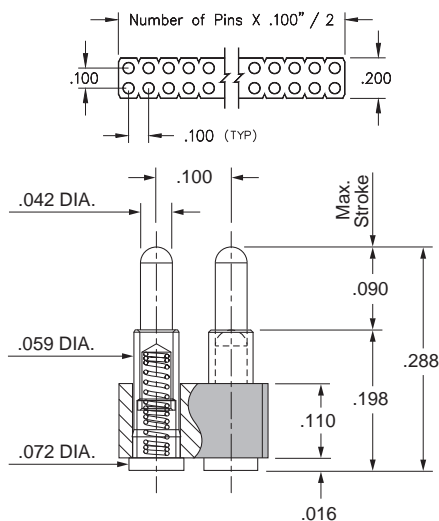
Double Row Series 820

820-22-0XX-30-001101

Specify number of contacts 04-72

For 819 and 820 Tape & Reel packaging, see page 12.1

DOUBLE ROW Series 820



Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.045"): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



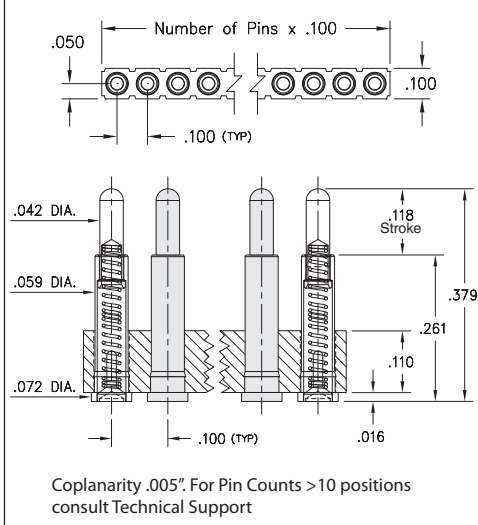
SPRING-LOADED CONNECTORS

SERIES 837 & 839 • .100" GRID SURFACE MOUNT, 3MM MAX. STROKE • SINGLE AND DOUBLE ROW STRIPS

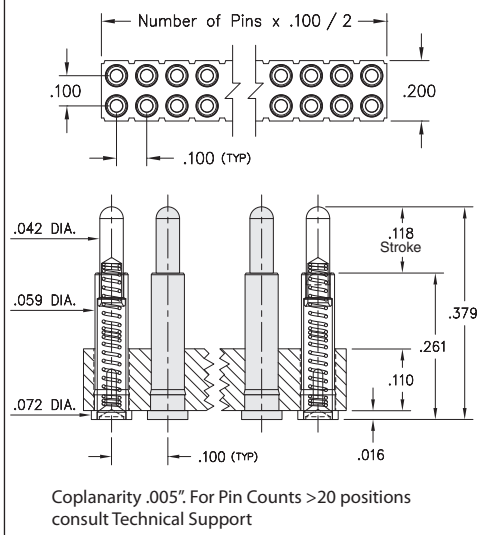


- Modular contacts for use on .100" grid, available in single and double row contact strips with recommended rated travel of .030" - .100" and max. stroke of .118" +0/-0.010"
- Precision-machined piston / base and gold-plated components
- Extended body provides greater bearing surface for increased strength & plunger protection
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for SMT soldering processes
- Both 837 & 839 series, are available on 44mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481
- 837 & 839 series contact strips are designed for manual or automatic placement onto .082" Ø solder pads

SINGLE ROW Series 837



DOUBLE ROW Series 839



ORDERING INFORMATION

Series 837 (Bulk Packaged)

837-22-0XX-30-001101

Specify number of contacts 01-64

Series 837 (Tape & Reel Packaged, 200 parts per reel)

837-22-0XX-30-001191

Specify number of contacts 02-12

Series 839 (Bulk Packaged)

839-22-0XX-30-001101

Specify number of contacts 04-72

Series 839 (Tape & Reel Packaged, 200 parts per reel)

839-22-0XX-30-001191

Specify number of contacts 04-24

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20µ" gold over 100µ" nickel
 Spring: Stainless Steel-plated 10µ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.059"): 85 grams
 Durability: Up to 1,000,000 cycles

Electrical:

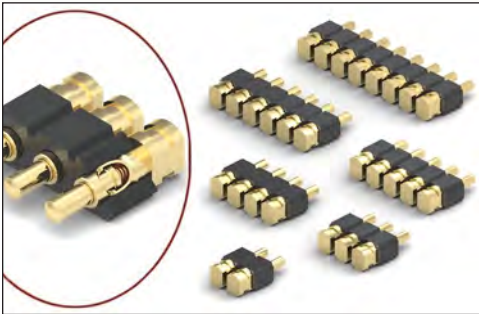
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS - 2
2011/65/EU



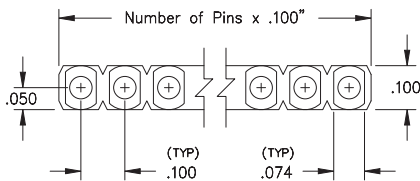
SPRING-LOADED CONNECTORS

SERIES 810 • .100" GRID HORIZONTAL SURFACE MOUNT • SINGLE ROW STRIPS

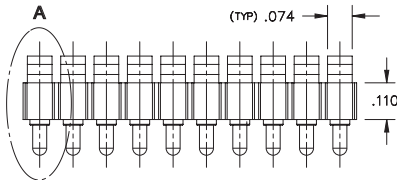


- Modular contacts for use on .100" grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Ideal for daisy chaining of P.C.B.'s when mated with right angle target connectors (series 399...10-008) or for mating boards in a perpendicular orientation
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .045" mid. stroke & .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 810 series contact strips are designed for manual placement onto solder pads

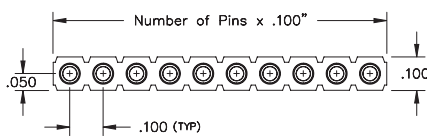
SINGLE ROW Series 810



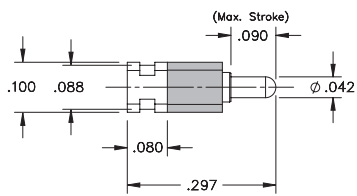
TOP VIEW



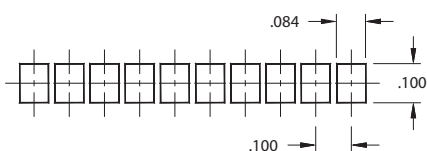
FRONT VIEW



DETAIL 'A'



Suggested P.C.B. FOOTPRINT



Coplanarity .005". For Pin Counts >10 positions consult Technical Support

ORDERING INFORMATION

Single Row Series 810

810-22-0XX-40-001101

Specify number of contacts 01-10

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.045"): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



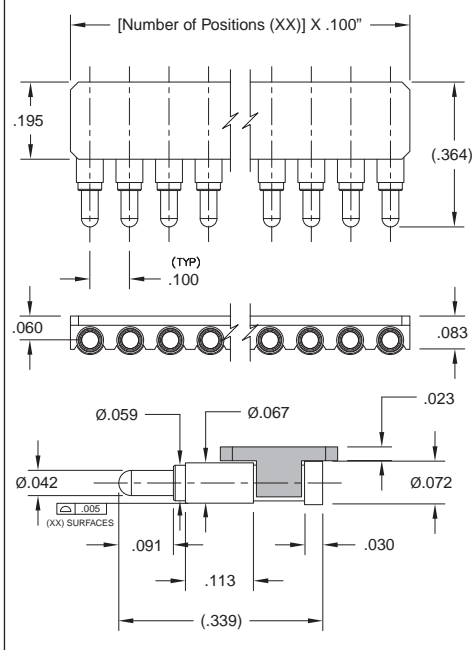
SPRING-LOADED CONNECTORS

SERIES 810 • .100" GRID HORIZONTAL SURFACE MOUNT • SINGLE ROW STRIPS

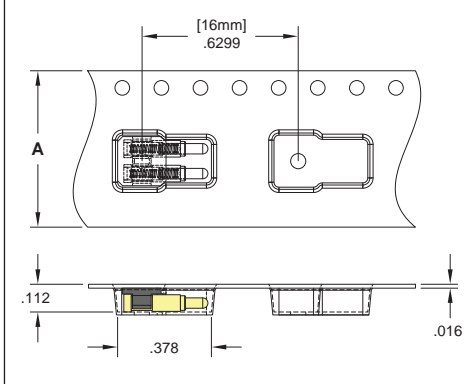


- Modular contacts for use on .100" grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Ideal for daisy chaining of P.C.B.'s when mated with horizontal surface mount target connectors series 319-10-1XX-40-080001 or for mating boards in a perpendicular orientation
- Pistons have a .045" mid. stroke & .090" max. stroke
- High temperature thermoplastic insulators are suitable for surface mount processes
- The 810 series are packaged on tape & reel - 16, 24, 32 or 44 mm wide x 16 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D

Series 810 Single Row



Series 810 (Tape Pocket Details)



ORDERING INFORMATION

Series 810 (Tape & Reel Packaged)

810-22-0XX-40-005191

Specify number of contacts 02-10

Number of Contacts	Tape Width Size (A)	Quantity per Reel
2	16mm	1,450
3	16mm	1,450
4	24mm	1,450
5	24mm	1,450
6	24mm	1,450
7	32mm	1,450
8	32mm	1,450
9	44mm	1,450
10	44mm	1,450

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring (Contact style 2-10): Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (Contact style 2-10): 25 grams
 Spring force @ mid stroke (Contact style 2-10): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

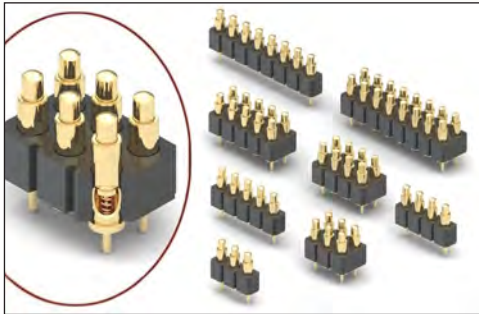
Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.

RoHS - 2
2011/65/EU



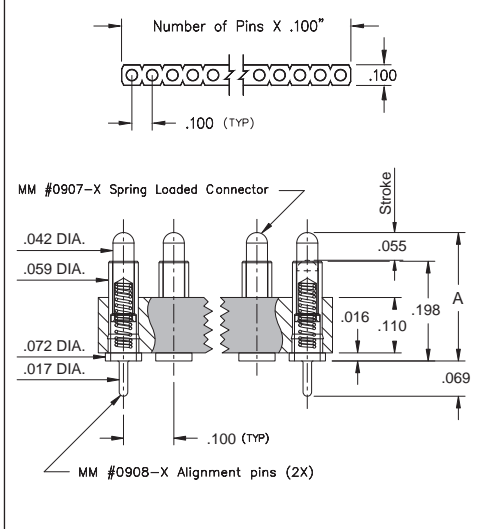
SPRING-LOADED CONNECTORS

SERIES 812 & 814 • .100" GRID SURFACE MOUNT WITH ALIGNMENT PINS • SINGLE AND DOUBLE ROW STRIPS

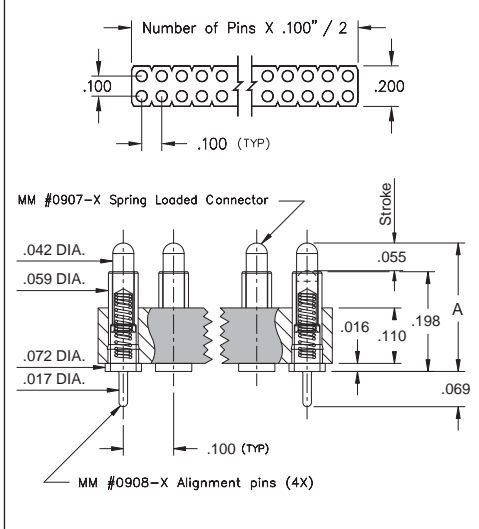


- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .0275" mid stroke & .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 812 & 814 series contact strips are designed for manual placement, .023 ±.003" plated through-holes in the circuit board are required for the alignment pins prior to intrusive reflow soldering

SINGLE ROW Series 812



DOUBLE ROW Series 814



ORDERING INFORMATION

Single Row Series 812...01X101

812-22-0XX-30-01X101
 Specify number of contacts 03-64 Specify contact style 0-9

Double Row Series 814...01X101

814-22-0XX-30-01X101
 Specify number of contacts 06-72 Specify contact style 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



SPRING-LOADED CONNECTORS

SERIES 811, 812, 813, 814 • .100" GRID SURFACE MOUNT • CARRIER TAPE AND PACKAGING

Ordering Information for Series 811/812/813/814 in Carrier Tape

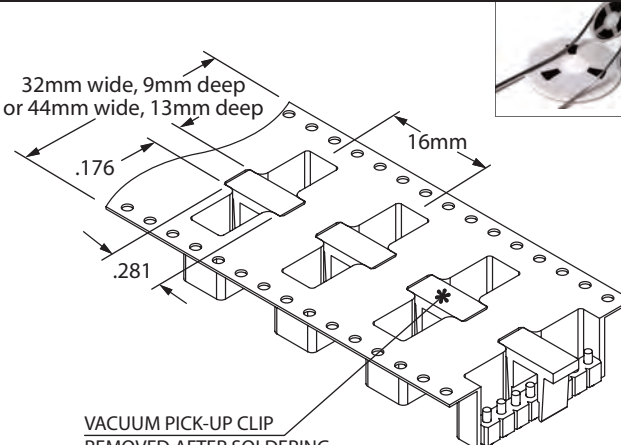
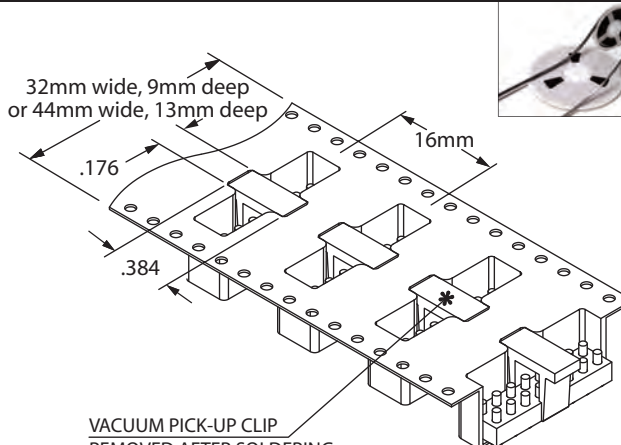
Single Row Series 811	Double Row Series 813
<p>811-22-0XX-30-00X191</p> <p>Specify contact style 0-4 Specify number of contacts 02-08 (32mm wide tape, 400 parts per 13" reel)</p>	<p>813-22-0XX-30-00X191</p> <p>Specify contact style 0-4 Specify number of contacts 04-16 (32mm wide tape, 400 parts per 13" reel)</p>
Single Row Series 811	Double Row Series 813
<p>811-22-0XX-30-00X191</p> <p>Specify contact style 1-4 Specify number of contacts 09-12 (44mm wide tape, 200 parts per 13" reel)</p>	<p>813-22-0XX-30-00X191</p> <p>Specify contact style 1-4 Specify number of contacts 18-24 (44mm wide tape, 200 parts per 13" reel)</p>
Single Row Series 812	Double Row Series 814
<p>812-22-0XX-30-00X191</p> <p>Specify contact style 0-2 Specify number of contacts 02-08 (32mm wide tape, 400 parts per 13" reel)</p>	<p>814-22-0XX-30-00X191</p> <p>Specify contact style 0-2 Specify number of contacts 04-16 (32mm wide tape, 400 parts per 13" reel)</p>
Single Row Series 812	Double Row Series 814
<p>812-22-0XX-30-00X191</p> <p>Specify contact style 0-2 Specify number of contacts 09-12 (44mm wide tape, 200 parts per 13" reel)</p>	<p>814-22-0XX-30-00X191</p> <p>Specify contact style 0-2 Specify number of contacts 18-24 (44mm wide tape, 200 parts per 13" reel)</p>
Single Row Series 812	Double Row Series 814
<p>812-22-0XX-30-00X191</p> <p>Specify contact style 3-9 Specify number of contacts 02-12 (44mm wide tape, 200 parts per 13" reel)</p>	<p>814-22-0XX-30-00X191</p> <p>Specify contact style 3-9 Specify number of contacts 04-24 (44mm wide tape, 200 parts per 13" reel)</p>



SPRING-LOADED CONNECTORS

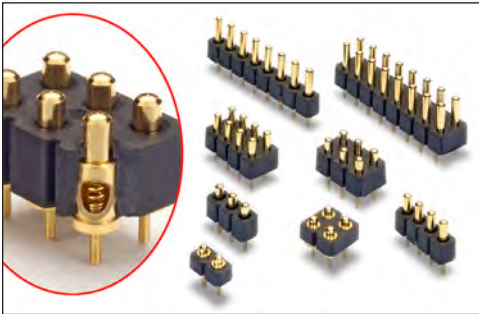
SERIES 815, 817, 819, 820 • .100" GRID SURFACE MOUNT • CARRIER TAPE AND PACKAGING

Ordering Information for Series 815/817/819/820 in Carrier Tape

Single Row Series 815	Double Row Series 817
<p style="text-align: center;">815-22-0XX-30-001191</p> <p>Specify number of pins ↑ 02-10</p> <p style="text-align: center;">(44mm wide tape, 910 parts per 13" reel)</p>	<p style="text-align: center;">817-22-0XX-30-001191</p> <p>Specify number of pins ↑ 04-20</p> <p style="text-align: center;">(44mm wide tape, 680 parts per 13" reel)</p>
Single Row Series 819	Double Row Series 820
<p style="text-align: center;">819-22-0XX-30-001191</p> <p>Specify number of pins ↑ 02-08</p> <p style="text-align: center;">(32mm wide tape, 400 parts per 13" reel)</p>	<p style="text-align: center;">820-22-0XX-30-001191</p> <p>Specify number of pins ↑ 04-16</p> <p style="text-align: center;">(32mm wide tape, 400 parts per 13" reel)</p>
Single Row Series 819	Double Row Series 820
<p style="text-align: center;">819-22-0XX-30-001191</p> <p>Specify number of pins ↑ 09-12</p> <p style="text-align: center;">(44mm wide tape, 200 parts per 13" reel)</p>	<p style="text-align: center;">820-22-0XX-30-001191</p> <p>Specify number of pins ↑ 18-24</p> <p style="text-align: center;">(44mm wide tape, 200 parts per 13" reel)</p>
 <p style="text-align: center;">VACUUM PICK-UP CLIP REMOVED AFTER SOLDERING</p>	 <p style="text-align: center;">VACUUM PICK-UP CLIP REMOVED AFTER SOLDERING</p>

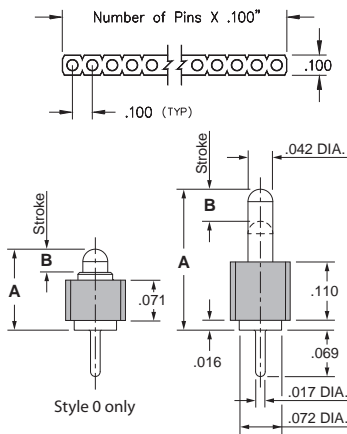
SPRING-LOADED CONNECTORS

SERIES 821 & 823 • .100" GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

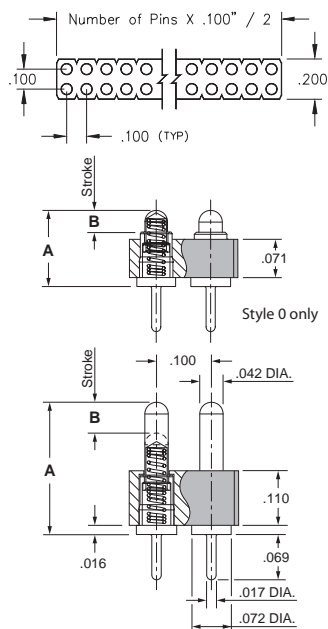


- Modular contacts for use on .100" grid, available in five heights from .137" to .236", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a long stroke relative to the low profile of the assembly
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 821 & 823 series contact strips are designed for manual placement into $\varnothing .022 \pm .003$ " plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 821



DOUBLE ROW Series 823



ORDERING INFORMATION

Single Row Series 821

821-22-0XX-10-00X101
 Specify number of contacts 02-64 Specify contact style 0-4

Double Row Series 823

823-22-0XX-10-00X101
 Specify number of contacts 04-72 Specify contact style 0-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	.137	.039
1	.177	.045
2	.197	.055
3	.217	.055
4	.236	.055

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

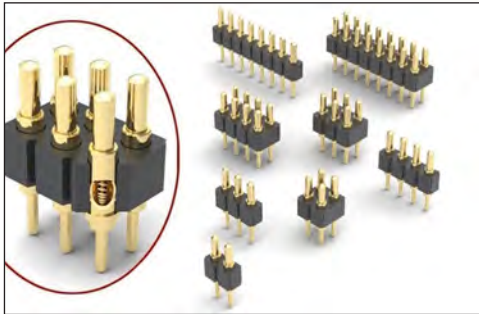
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



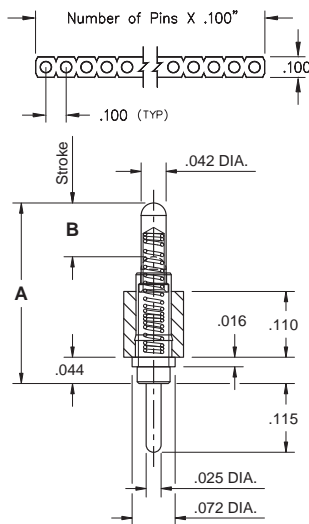
SPRING-LOADED CONNECTORS

SERIES 825 & 827 • .100" GRID THROUGH-HOLE MOUNT, LONG STROKE • SINGLE AND DOUBLE ROW STRIPS

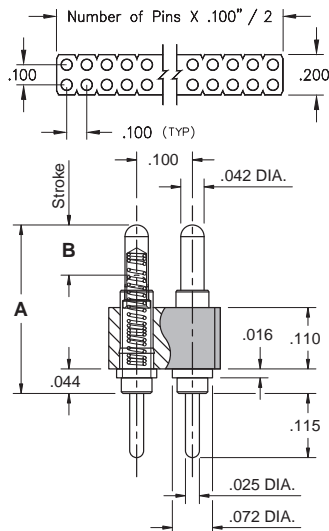


- Modular contacts for use on .100" grid, available in four heights from .302" to .392", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .045" mid. stroke and a .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 825 & 827 series contact strips are designed for manual placement into $\varnothing .030 \pm .003$ " plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 825



DOUBLE ROW Series 827



ORDERING INFORMATION

Single Row Series 825

825-22-0XX-10-00X101
 Specify number of contacts 02-64 Specify contact style 1-4

Double Row Series 827

827-22-0XX-10-00X101
 Specify number of contacts 04-72 Specify contact style 1-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
1	.302	.090
2	.332	.090
3	.362	.090
4	.392	.090

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

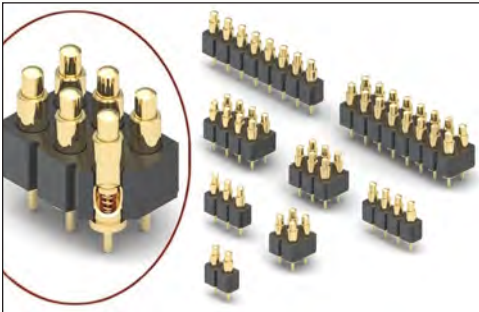
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS - 2
2011/65/EU



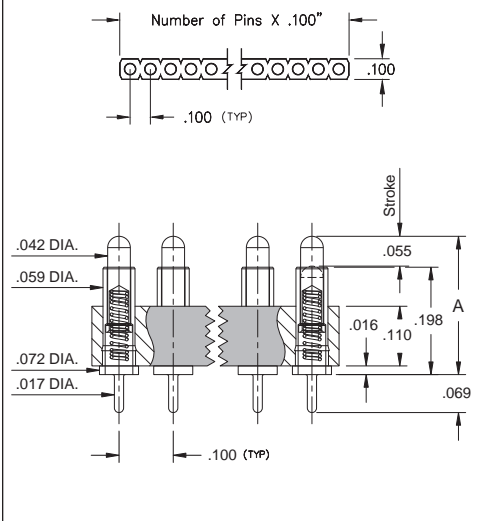
SPRING-LOADED CONNECTORS

SERIES 816 & 818 • .100" GRID THROUGH-HOLE MOUNT, MID PROFILE • SINGLE AND DOUBLE ROW STRIPS



- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .0275" mid stroke & .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 816 & 818 series contact strips are designed for manual placement into $\varnothing .023 \pm .003$ " plated through-holes in the circuit board prior to intrusive reflow soldering

SINGLE ROW Series 816...00X101



ORDERING INFORMATION

Single Row Series 816...00X101

816-22-0XX-10-00X101

Specify number of contacts 02-64 Specify contact style 0-9

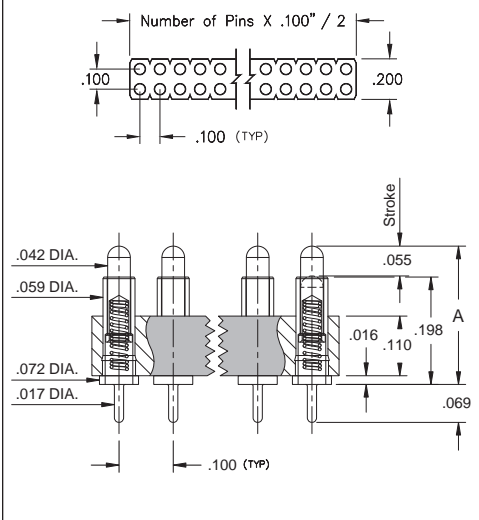
Double Row Series 818...00X101

818-22-0XX-10-00X101

Specify number of contacts 04-72 Specify contact style 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

DOUBLE ROW Series 818...00X101



Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
Spring: Beryllium copper-plated 10 μ " gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (.0275"): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

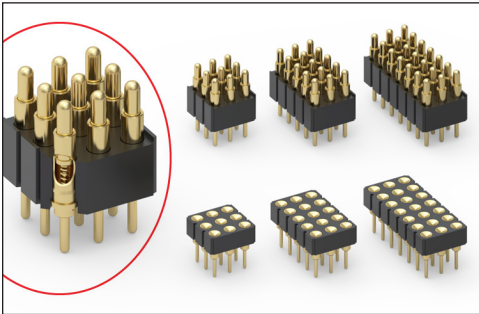
Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20m Ω max.
Insulation resistance: 10,000M Ω min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2
2011/65/EU



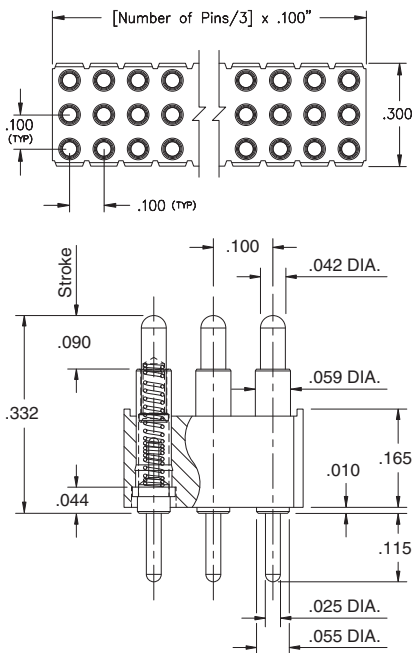
SPRING-LOADED CONNECTORS

SERIES 804 & 805 • .100" GRID THROUGH-HOLE MOUNT • LONG STROKE TRIPLE ROW STRIPS AND MATING TARGET CONNECTORS

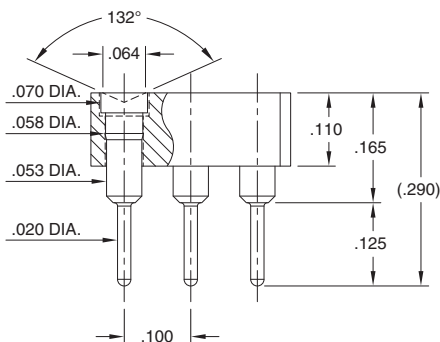


- Modular contacts for use on .100" grid, supplied in triple row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Spring pins have a .045" mid. stroke and a .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- 804 & 805 series High temperature thermoplastic insulators are suitable for wave and reflow processes
- 804 series contact strips are designed for manual placement into $\varnothing .035 \pm .003$ " plated through-holes in the circuit board prior to hand, wave or reflow soldering
- 805 series Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. This series is offered with a concave face for making contact with our standard .042" dia. spring pin plungers

TRIPLE ROW Series 804



TRIPLE ROW Series 805



ORDERING INFORMATION

Triple Row Series 804

804-22-0XX-10-004101

Specify number of contacts 09-96

Triple Row Mating Target Series 805

805-10-0XX-00-006000

Specify number of contacts 09-96

Technical Specifications for 804 Series

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.045"): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

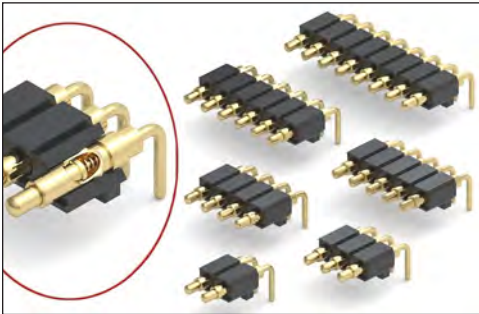
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



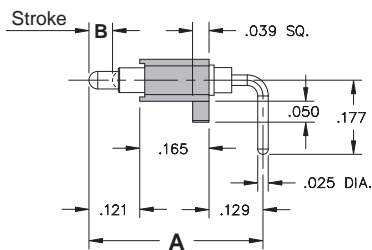
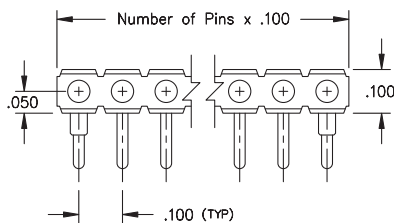
SPRING-LOADED CONNECTORS

SERIES 829 • .100" GRID RIGHT ANGLE MOUNT • SINGLE ROW STRIPS

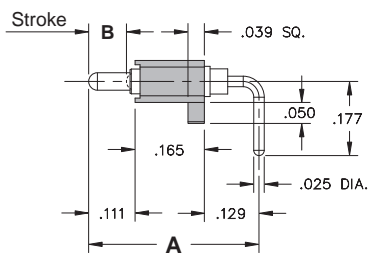


- Modular contacts for use on .100" grid. Supplied in single row strips with mounting pegs for support
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- 829 series contact strips are designed for manual placement into $\varnothing .032 \pm .003$ " plated through-holes in the circuit board prior to wave or reflow soldering

SINGLE ROW Series 829

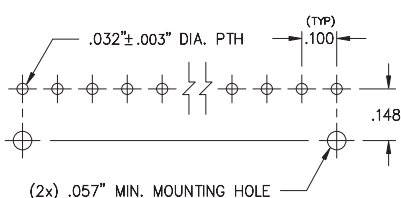


Contact style 1 only



Contact style 2 only

Suggested P.C.B Footprint



ORDERING INFORMATION

Single Row Series 829

829-22-0XX-20-00X101

Specify number of contacts 01-20 Specify contact style 1 or 2

CONTACT STYLE	INITIAL LENGTH A	MAX. STROKE B
1	.415	.055
2	.406	.090

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial length (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

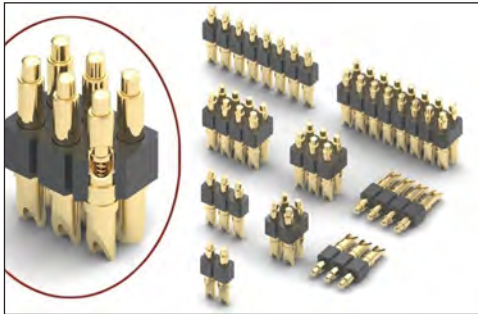
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



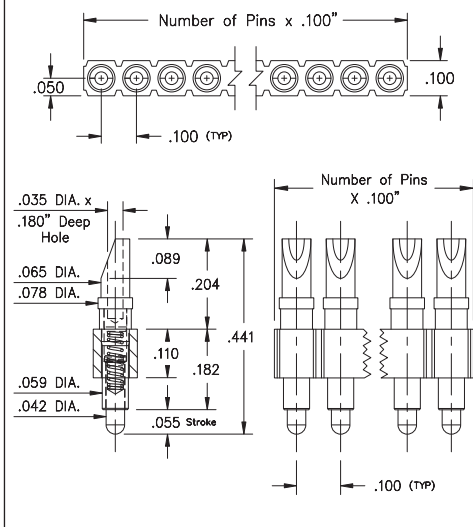
SPRING-LOADED CONNECTORS

SERIES 824 & 826 • .100" GRID SOLDERCUP HEADER • SINGLE AND DOUBLE ROW STRIPS

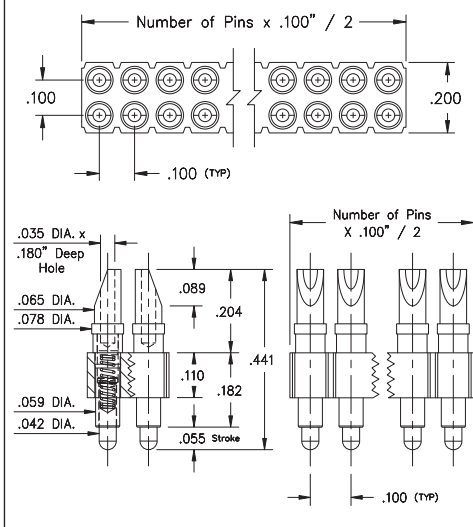


- Modular contacts for use on .100" grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .0275" mid. stroke and a .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- Insulators are high temperature thermoplastic
- Both 824 & 826 series strips have spring pins with wire termination soldercups. The soldercups are aligned to provide easy access for soldering up to size 22 AWG wires

SINGLE ROW Series 824



DOUBLE ROW Series 826



ORDERING INFORMATION

Single Row Series 824

824-22-0XX-00-001000

Specify number of contacts 01-64

Double Row Series 826

826-22-0XX-00-001000

Specify number of contacts 04-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



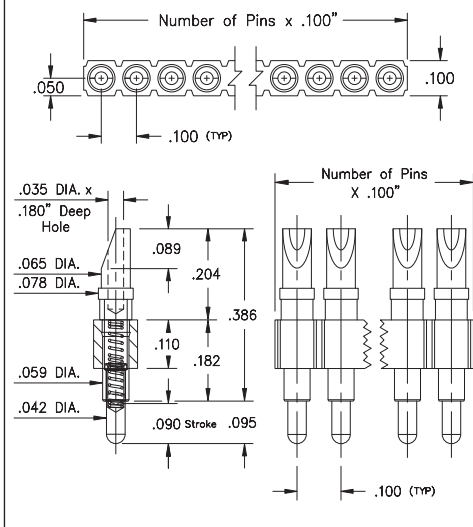
SPRING-LOADED CONNECTORS

SERIES 824 & 826 • .100" GRID SOLDERCUP HEADER • SINGLE AND DOUBLE ROW STRIPS

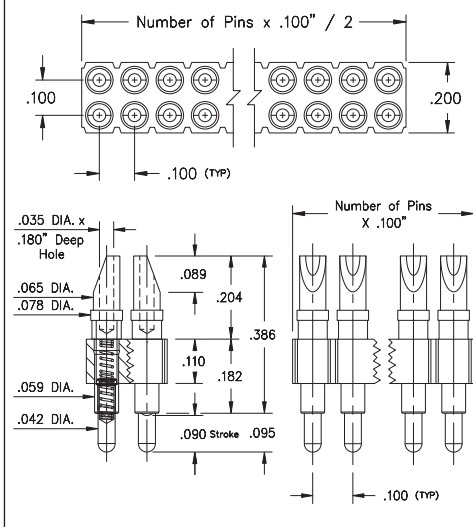


- Modular contacts for use on .100" grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .045" mid. stroke and a .090" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- Insulators are high temperature thermoplastic
- Both 824 & 826 series strips have spring pins with wire termination soldercups. The soldercups are aligned to provide easy access for soldering up to size 24 AWG wires

SINGLE ROW Series 824



DOUBLE ROW Series 826



ORDERING INFORMATION

Single Row Series 824

824-22-0XX-00-005000

Specify number of contacts 01-64

Double Row Series 826

826-22-0XX-00-005000

Specify number of contacts 02-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.045"): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

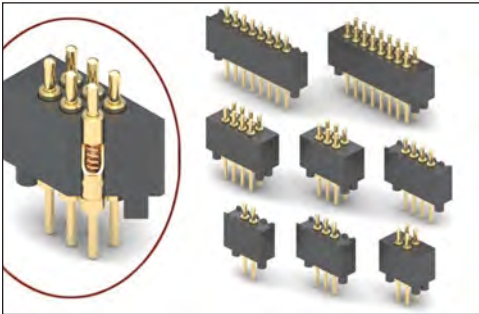
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



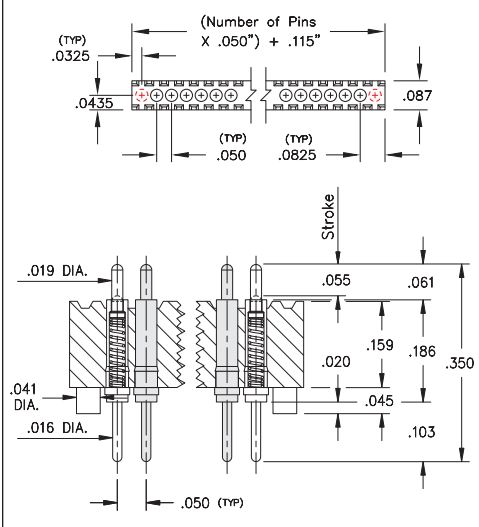
SPRING-LOADED CONNECTORS

SERIES 854 & 855 • .050" GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

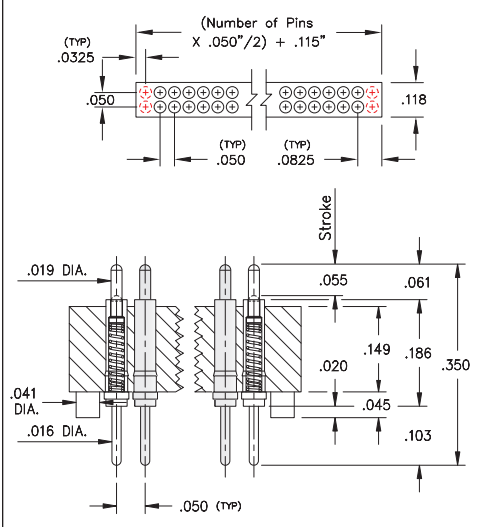


- Modular contacts for use on .050" grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a .0275" mid. stroke and a .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Both 854 & 855 series contact strips are designed for manual placement into $\varnothing .023 \pm .003$ " plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 854



DOUBLE ROW Series 855



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-10-001101

Specify number of contacts 02-20

Double Row Series 855

855-22-0XX-10-001101

Specify number of contacts 04-40

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 100,000 cycles

Electrical:

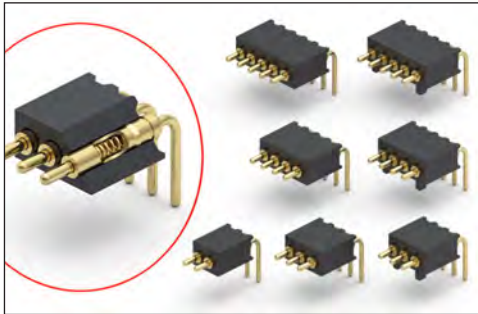
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



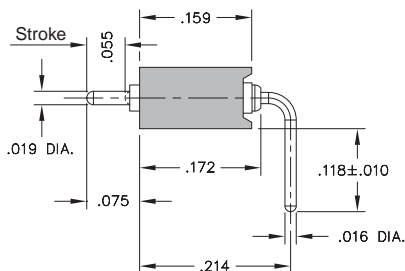
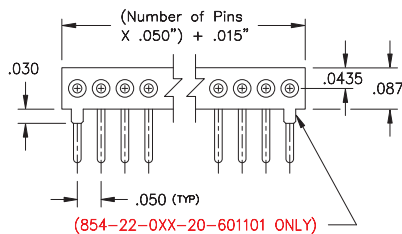
SPRING-LOADED CONNECTORS

SERIES 854 • .050" GRID RIGHT ANGLE MOUNT • SINGLE ROW STRIPS

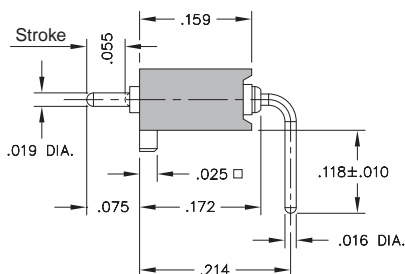


- Modular contacts for use on .050" grid. Supplied in single row strips with or without mounting pegs
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a .0275" mid. stroke & .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow soldering processes
- 854 series contact strips are designed for through-hole mounting in the circuit board

SINGLE ROW Series 854

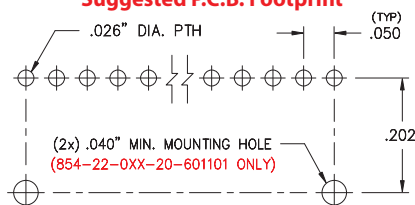


854 Series without Mounting Pegs



854 Series with Mounting Pegs

Suggested P.C.B. Footprint



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-20-001101

Specify number of contacts 01-20

Single Row with Mounting Pegs Series 854

854-22-0XX-20-601101

Specify number of contacts 01-20

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 100,000 cycles

Electrical:

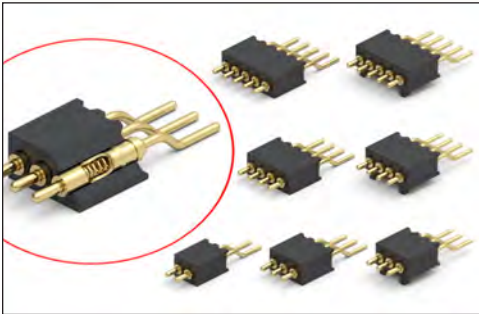
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



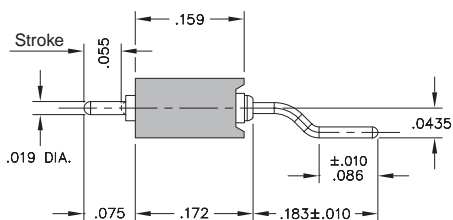
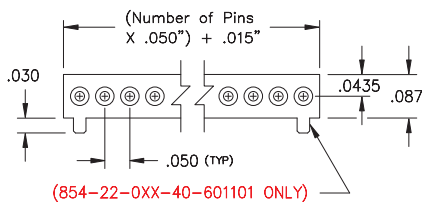
SPRING-LOADED CONNECTORS

SERIES 854 • .050" GRID Z-BEND SURFACE MOUNT • SINGLE ROW STRIPS

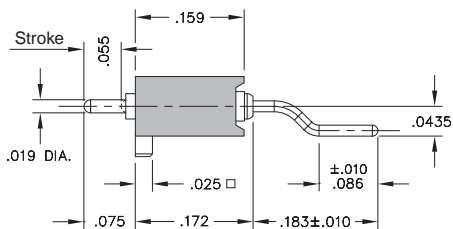


- Modular contacts for use on .050" grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a .0275" mid. stroke & .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount soldering processes
- 854 series contact strips are designed for SMT termination onto printed circuit boards

SINGLE ROW Series 854



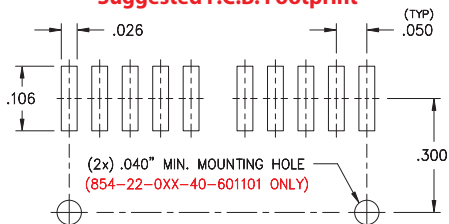
854 Series without Mounting Pegs



854 Series with Mounting Pegs

Coplanarity .005". For pin counts >20 positions, consult Technical Support.

Suggested P.C.B. Footprint



ORDERING INFORMATION

Series 854 without Mounting Pegs (Bulk Packaged)

854-22-0XX-40-001101

Specify number of contacts 01-20

Series 854 with Mounting Pegs (Bulk Packaged)

854-22-0XX-40-601101

Specify number of contacts 01-20

Series 854 with Mounting Pegs (Tape & Reel Packaged, 2,400 parts per reel)

854-22-0XX-40-601191

Specify number of contacts 02

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 100,000 cycles

Electrical:

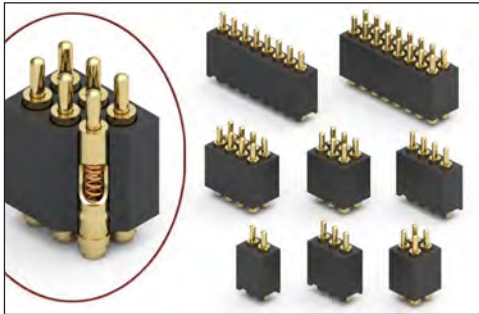
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



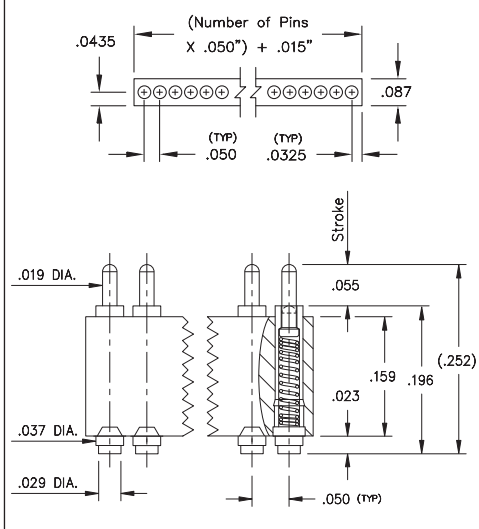
SPRING-LOADED CONNECTORS

SERIES 854 & 855 • .050" GRID SURFACE MOUNT, HIGH DENSITY • SINGLE AND DOUBLE ROW STRIPS

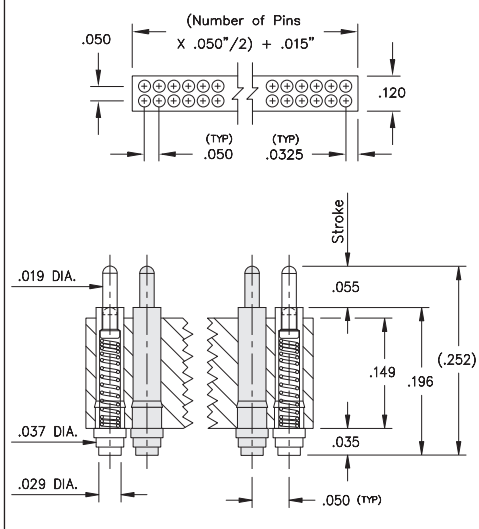


- Modular contacts for use on .050" grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a .0275" mid. stroke and a .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 854 & 855 series contact strips are designed for manual placement onto .040" Ø solder pads
- 855 series is also available on tape & reel packaging, see page 19.1

SINGLE ROW Series 854



DOUBLE ROW Series 855



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-30-001101

Specify number of contacts 02-20

Double Row Series 855

855-22-0XX-30-001101

Specify number of contacts 04-40

For 855 Tape & Reel packaging, see page 19.1

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20µ" gold over 100µ" nickel
 Spring: Beryllium copper-plated 10µ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 100,000 cycles

Electrical:

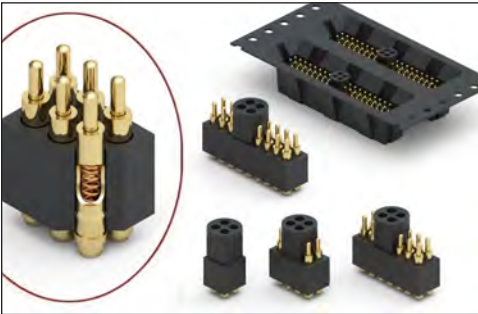
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



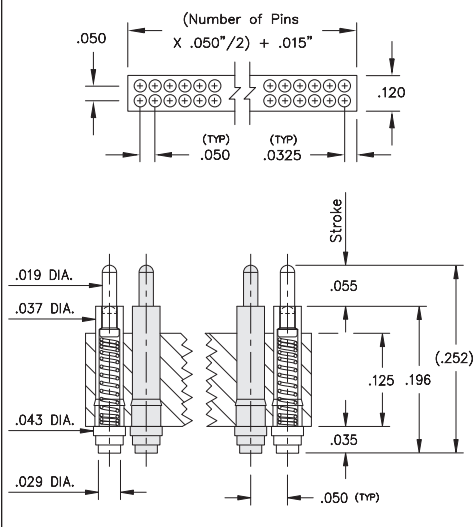
SPRING-LOADED CONNECTORS

SERIES 855 • .050" GRID SURFACE MOUNT, HIGH DENSITY • DOUBLE ROW STRIPS ON TAPE & REEL

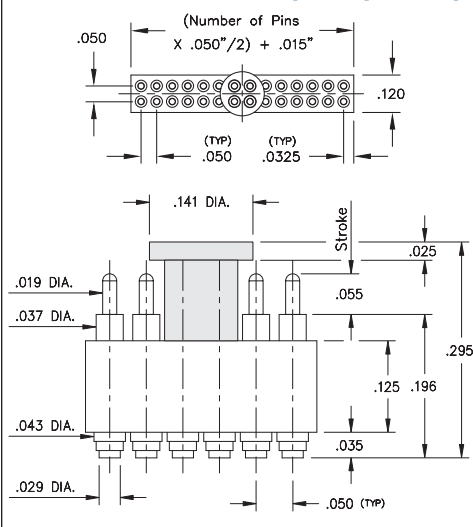


- Modular contacts for use on .050" grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 100,000 cycle life durability
- Pistons have a .0275" mid. stroke and a .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 855 series is available on carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. For details contact Mill-Max Technical support

DOUBLE ROW Series 855



Series 855 w/ removable pick n place cap



ORDERING INFORMATION

Double Row Series 855

855-22-0XX-30-002191

Specify number or pins
04-40

Tape & reel packaged = 191
660 parts per 13" reel

Positions: 6, 10, 14, 18, 22, 26, 30, 34, 38 the Pick n Place Vacuum Cap will be offset from center by .025"

Positions: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 the Pick n Place Vacuum Cap will be centered

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 100,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



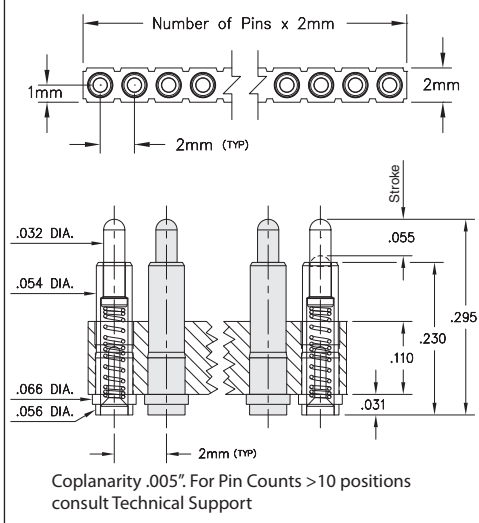
SPRING-LOADED CONNECTORS

SERIES 836 & 838 • 2mm GRID SURFACE MOUNT • SINGLE AND DOUBLE ROW STRIPS

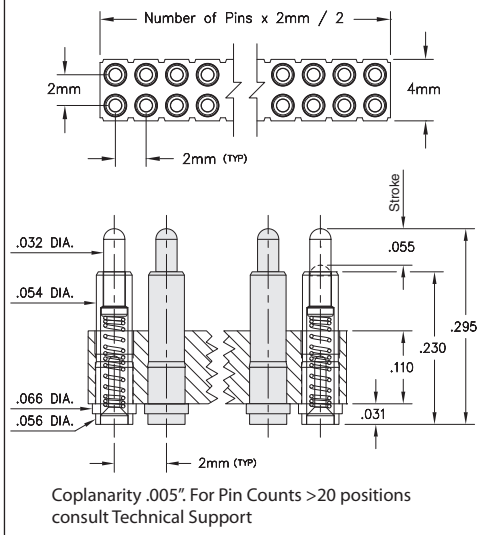


- Modular contacts for use on 2mm grid, available in single and double row contact strips with rated travel of .0275" and max. stroke of .055"
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for SMT soldering processes
- Both 836 & 838 series, are available on 32mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481
- 836 & 838 series contact strips are designed for manual or automatic placement onto .066" Ø solder pads

SINGLE ROW Series 836



DOUBLE ROW Series 838



ORDERING INFORMATION

Series 836 (Bulk Packaged)

836-22-0XX-30-001101

Specify number of contacts 02-10

Series 836 (Tape & Reel Packaged, 400 parts per reel)

836-22-0XX-30-001191

Specify number of contacts 02-10

Series 838 (Bulk Packaged)

838-22-0XX-30-001101

Specify number of contacts 04-20

Series 838 (Tape & Reel Packaged, 400 parts per reel)

838-22-0XX-30-001191

Specify number of contacts 04-20

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20µ" gold over 100µ" nickel

Spring: Stainless Steel-plated 10µ" gold

Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams

Spring force @ mid stroke (.0275"): 60 grams

Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

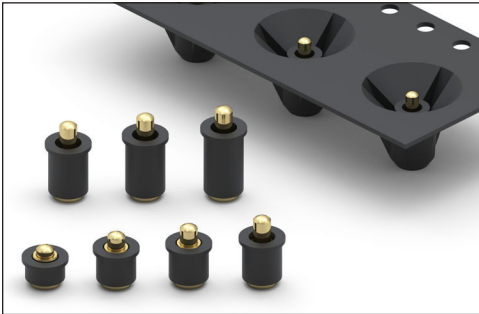
Capacitance: 1pF max.

RoHS - 2
2011/65/EU



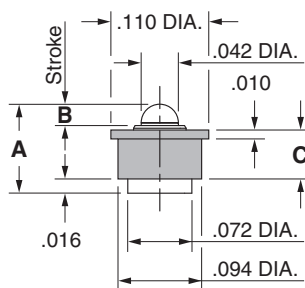
SPRING-LOADED CONNECTORS

SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • SURFACE MOUNT

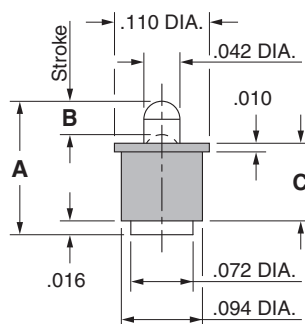


- Discrete insulated spring-loaded pins; available in seven heights from .100" to .236", with rated travel from .012" to .0275"
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for SMT soldering processes
- 807 series, contact styles 0 through 6, are available in bulk or on 16mm wide carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. See below for ordering information

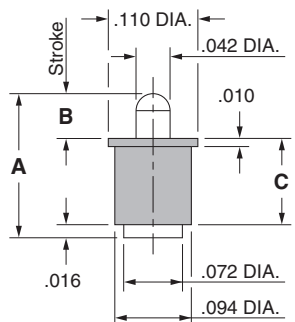
Series 807 (Contact Style 0)



Series 807 (Contact Style 1 & 2)



Series 807 (Contact Style 3-6)



ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-30-00X101

Specify contact style 0-6

Series 807 (Tape & Reel Packaged)

807-22-001-30-00X191

Specify contact style 0-6

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Quantity per Reel
0	.100	.012	.020-.024	.055	2,620
1	.137	.0195	.030-.039	.082	1,750
2	.155	.0195	.035-.039	.090	1,750
3	.177	.0275	.045-.055	.106	1,055
4	.197	.0275	.045-.055	.126	780
5	.217	.0275	.045-.055	.146	780
6	.236	.0275	.045-.055	.165	780

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring (Contact style 0): Stainless Steel-plated 10 μ " gold
 Spring (Contact style 1-6): Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 0-6): 25 grams
 Spring force @ mid stroke (B/2) (Contact style 0): 70 grams
 Spring force @ mid stroke (B/2) (Contact style 1-6): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

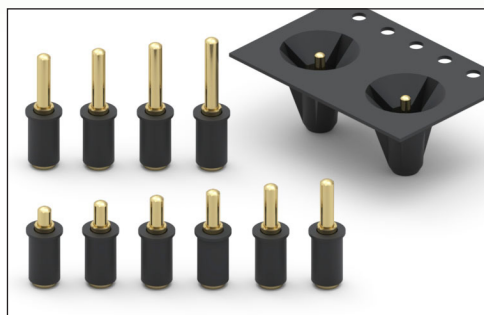
Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.

RoHS-2
2011/65/EU



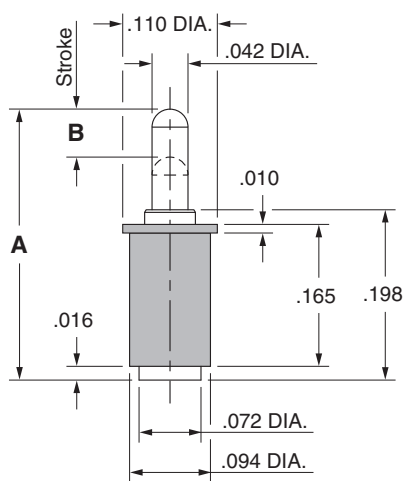
SPRING-LOADED CONNECTORS

SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • SURFACE MOUNT

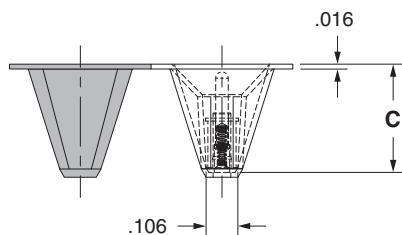


- Discrete insulated spring-loaded pins; available in ten heights from .255" to .430", with rated travel of .0275"
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for most SMT soldering processes
- 807 series, contact styles 0 through 9, are available in bulk or on 16mm wide carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. See below for ordering information

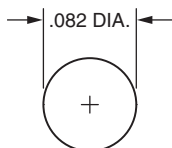
Series 807 (Contact Style 0-9)



Series 807 (Tape Pocket Depth)



Series 807 (Suggested footprint layout)



ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-30-01X101

Specify contact style 0-9

Series 807 (Tape & Reel Packaged)

807-22-001-30-01X191

Specify contact style 0-9

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Tape Depth (C)	Quantity per Reel
0	.255	.0275	.045-.055	.285	750
1	.275	.0275	.045-.055	.285	750
2	.295	.0275	.045-.055	.326	600
3	.315	.0275	.045-.055	.326	600
4	.335	.0275	.045-.055	.361	550
5	.350	.0275	.045-.055	.361	550
6	.370	.0275	.045-.055	.401	475
7	.390	.0275	.045-.055	.401	475
8	.410	.0275	.045-.055	.441	430
9	.430	.0275	.045-.055	.441	430

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring (Contact style 0-9): Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 0-9): 25 grams
 Spring force @ mid stroke (B/2) (Contact style 0-9): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

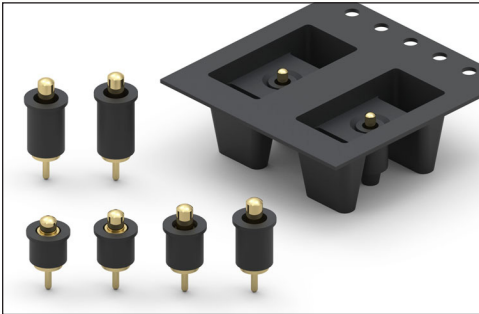
Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.

RoHS - 2
2011/65/EU



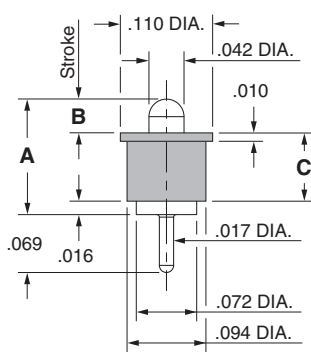
SPRING-LOADED CONNECTORS

SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • THROUGH-HOLE MOUNT

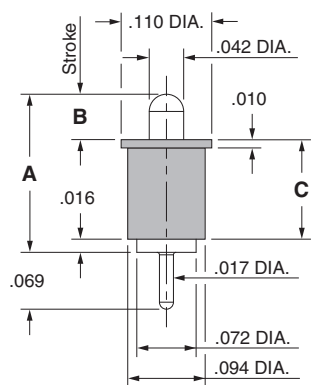


- Discrete insulated spring-loaded pins; available in six heights from .137" to .236", with rated travel of .0195" & .0275"
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for most SMT soldering processes
- 807 series, contact styles 1 through 6, are available in bulk or on 24mm wide carrier tape for automated pick and place assembly. Tape and Reel packaging per EIA-481. See below for ordering information

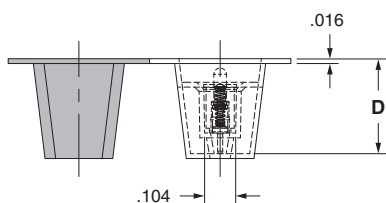
Series 807 (Contact Style 1 & 2)



Series 807 (Contact Style 3, 4, 5 & 6)



Series 807 (Tape Pocket Depth)



ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-10-00X101

Specify contact style 1-6

Series 807 (Tape & Reel Packaged)

807-22-001-10-00X191

Specify contact style 1-6

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	.137	.0195	.030-.039	.082	.236	880
2	.155	.0195	.035-.039	.090	.236	880
3	.177	.0275	.045-.055	.106	.278	745
4	.197	.0275	.045-.055	.126	.278	745
5	.217	.0275	.045-.055	.146	.317	640
6	.236	.0275	.045-.055	.165	.317	640

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring (Contact style 1-6): Beryllium copper-plated 10μ" gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 1-6): 25 grams
 Spring force @ mid stroke (B/2) (Contact style 1-6): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

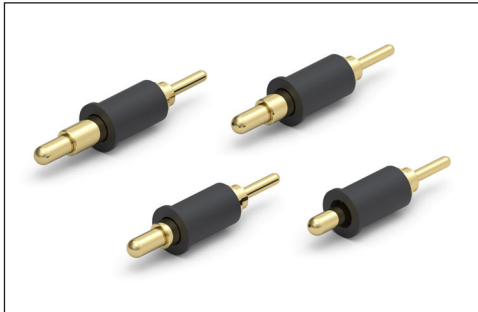
Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.

RoHS-2
2011/65/EU



SPRING-LOADED CONNECTORS

SERIES 807 • DISCRETE INSULATED SPRING-LOADED PINS • THROUGH-HOLE MOUNT



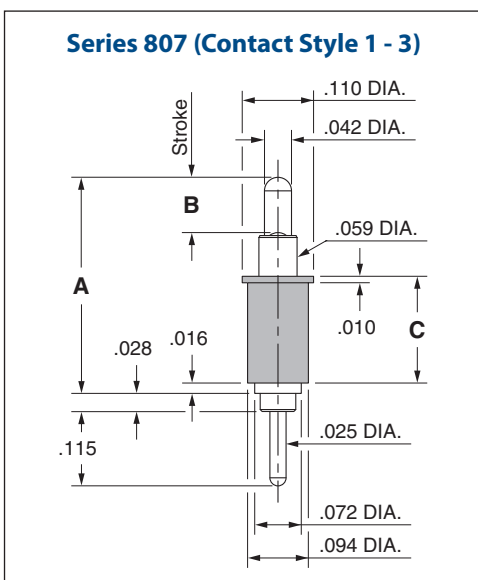
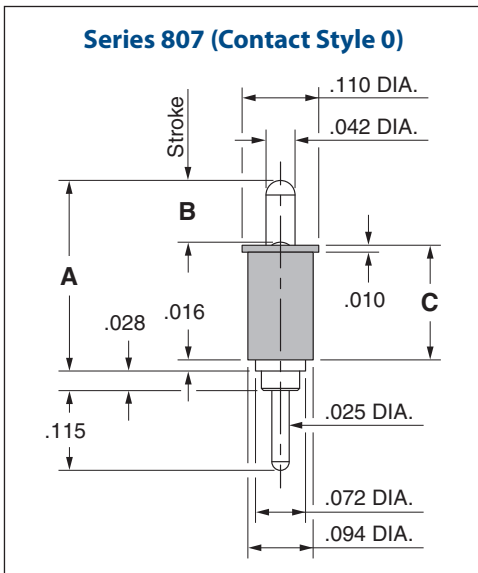
- Discrete insulated spring-loaded pins; available in four heights from .274" to .364", with rated travel of .045"
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Low resistance contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for most soldering processes
- 807 series, contact styles 0 through 3, are packaged in bulk. See below for ordering information

ORDERING INFORMATION

Series 807 (Bulk Packaged)

807-22-001-10-02X101

Specify contact style 0-3



Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)
0	.274	.045	.085-.090	.165
1	.304	.045	.085-.090	.165
2	.334	.045	.085-.090	.165
3	.364	.045	.085-.090	.165

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring (Contact style 0-3): Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 0-3): 25 grams
 Spring force @ mid stroke (B/2) (Contact style 0-3): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

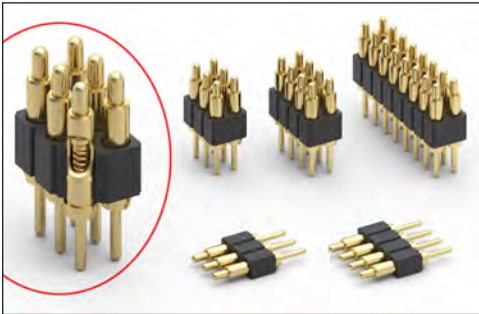
Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.

RoHS - 2
2011/65/EU



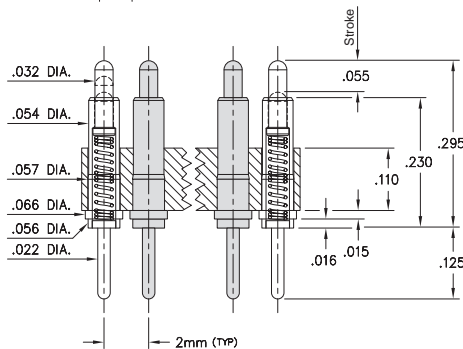
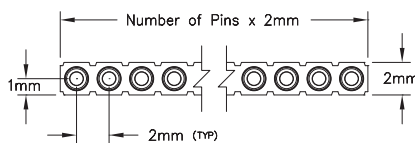
SPRING-LOADED CONNECTORS

SERIES 836 & 838 • 2MM GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

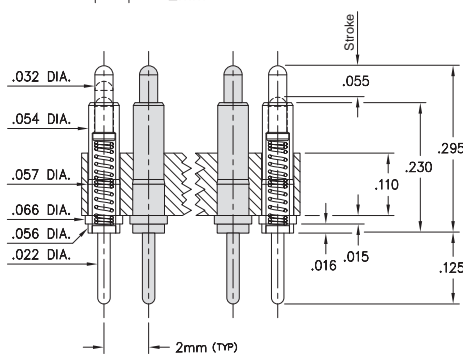
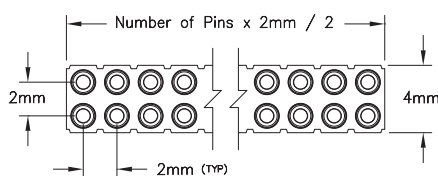


- Modular contacts for use on 2mm grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability
- Pistons have a .0275" mid. stroke and a .055" max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Both 836 & 838 series contact strips are designed for manual placement into $\varnothing .030 \pm .003$ " plated through-holes in the circuit board prior to soldering

SINGLE ROW Series 836



DOUBLE ROW Series 838



ORDERING INFORMATION

Single Row Series 836

836-22-0XX-10-001101

Specify number of contacts 01-50

Double Row Series 838

838-22-XXX-10-001101

Specify number of contacts 04-100

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
 Spring: Beryllium copper-plated 10 μ " gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (.0275"): 60 grams
 Durability: Up to 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU

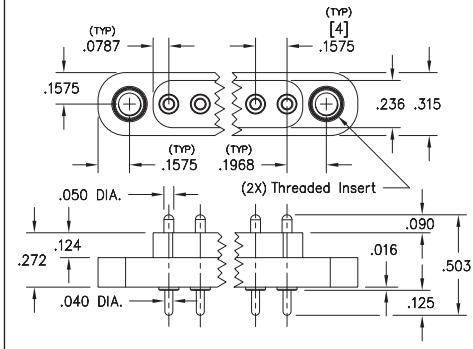


SPRING-LOADED CONNECTORS

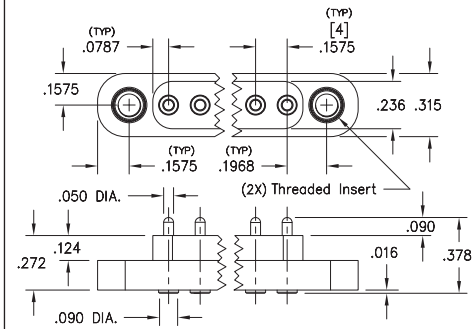
SERIES 858 • 4MM GRID RUGGED CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT



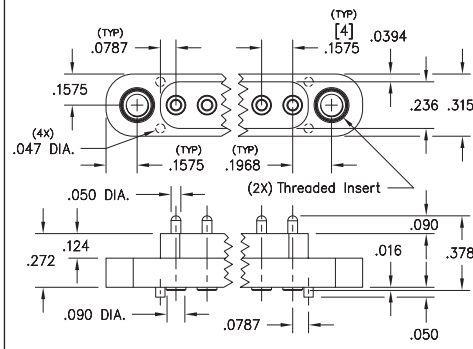
Series 858-22-00X-10-0X1101



Series 858-22-00X-30-0X1101



Series 858-22-00X-30-6X1101



- Rugged Modular contacts for use on 4mm grid, supplied in 2 - 6 position connectors
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability. Pistons have a .045" mid. stroke and a .090" max. stroke
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- Low resistance, high current contacts are rated at 9 amps @ 10°C Temperature rise
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Series 858-22-00X-10-0X1101 connectors are designed for manual placement into .048±.003" Ø plated through-holes in the circuit board prior to soldering
- Series 858-22-00X-30-0X1101 and 858-22-00X-30-6X1101 connectors are designed for manual placement onto .100" Ø solder pads

ORDERING INFORMATION

Series 858 (Through-Hole Mount)

858-22-00X-10-0X1101
 Specify number of pins 2-6 No Threaded inserts = 0
 (#4-40) Threaded inserts = 1

Series 858 (Surface Mount)

858-22-00X-30-0X1101
 Specify number of pins 2-6 No Threaded inserts = 0
 (#4-40) Threaded inserts = 1

Series 858 (Surface Mount with Alignment Pins)

858-22-00X-30-6X1101
 Specify number of pins 2-6 No Threaded inserts = 0
 (#4-40) Threaded inserts = 1

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20µ" gold over 100µ" nickel
 Spring: Stainless Steel 302
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 35 grams
 Spring force @ mid stroke: 120 grams
 Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 9A @ 10° C Temp. rise above ambient (20°C)
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.

RoHS - 2
2011/65/EU



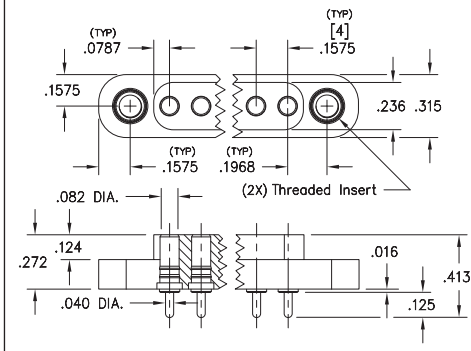
SPRING-LOADED CONNECTORS

SERIES 858 • 4MM GRID RUGGED FLAT FACE TARGET CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT

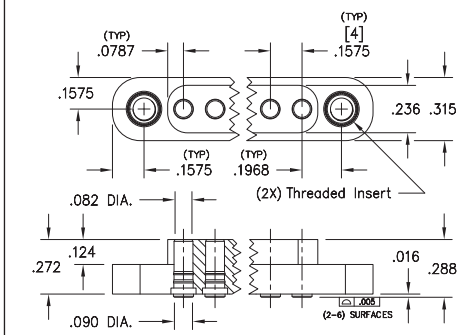


- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring-loaded connectors. These series are offered with a flat face for making contact with our 858-22-00X-X0-XX1101 series spring-loaded connectors
- Target connectors use MM #1959-0 and #1969-0 pins. See page 223.5 for details
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- High temp. thermoplastic insulators are suitable for wave and reflow soldering processes
- Series 858-10-00X-10-0X1000 connectors are designed for manual placement into $.048 \pm .003$ " \varnothing plated through-holes in the circuit board prior to soldering
- Series 858-10-00X-30-0X1000 and 858-10-00X-30-6X1000 connectors are designed for manual placement onto $.100$ " \varnothing minimum solder pads

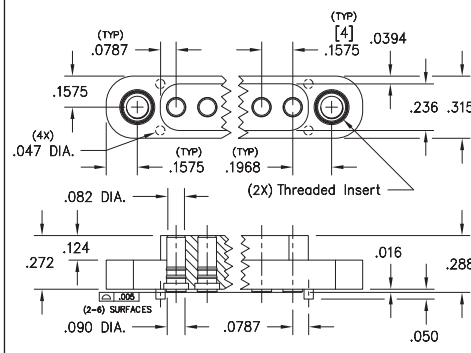
Series 858-10-00X-10-0X1000



Series 858-10-00X-30-0X1000



Series 858-10-00X-30-6X1000



ORDERING INFORMATION

Series 858 (Through-Hole Mount)

858-10-00X-10-0X1000

Specify number of pins 2-6 → ↑ No Threaded inserts = 0 (#4-40) Threaded inserts = 1

Series 858 (Surface Mount)

858-10-00X-30-0X1000

Specify number of pins 2-6 → ↑ No Threaded inserts = 0 (#4-40) Threaded inserts = 1

Series 858 (Surface Mount with Alignment Pins)

858-10-00X-30-6X1000

Specify number of pins 2-6 → ↑ No Threaded inserts = 0 (#4-40) Threaded inserts = 1



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◆		
Pin Plating 	10 μ " Au		



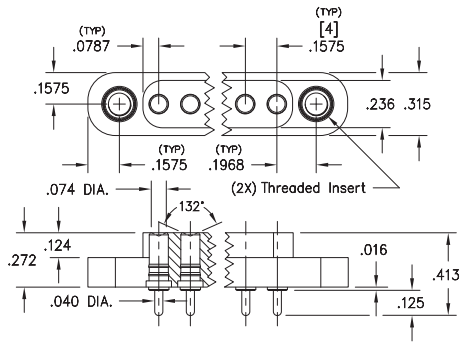
SPRING-LOADED CONNECTORS

SERIES 858 • 4MM GRID RUGGED CONCAVE FACE TARGET CONNECTOR • SURFACE MOUNT AND THROUGH HOLE MOUNT

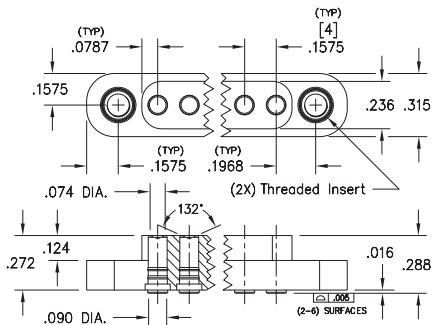


- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring-loaded connectors. These series are offered with a concave face providing additional surface area for mating with our 858-22-00X-X0-XX1101 series spring-loaded connectors
- Target connectors use MM #1959-1 and #1969-1 pins. See page 223.5 for details
- Mounting tabs provide a means for secure attachment to the PCB and may be specified with or without threaded inserts
- High temp. thermoplastic insulators are suitable for wave and reflow soldering processes
- Series 858-10-00X-10-0X2000 connectors are designed for manual placement into .048±.003" Ø plated through-holes in the circuit board prior to soldering
- Series 858-10-00X-30-0X2000 and 858-10-00X-30-6X2000 connectors are designed for manual placement onto .100" Ø minimum solder pads

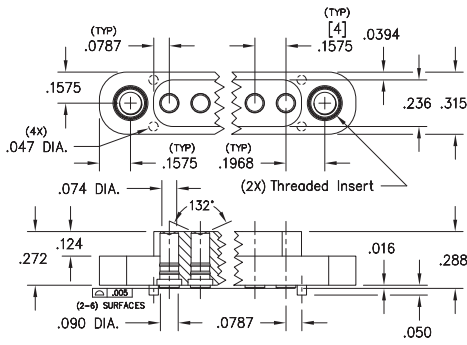
Series 858-10-00X-10-0X2000



Series 858-10-00X-30-0X2000



Series 858-10-00X-30-6X2000



ORDERING INFORMATION

Series 858 (Through-Hole Mount)

858-10-00X-10-0X2000

Specify number of pins 2-6 → ↑ No Threaded inserts = 0 (#4-40) Threaded inserts = 1

Series 858 (Surface Mount)

858-10-00X-30-0X2000

Specify number of pins 2-6 → ↑ No Threaded inserts = 0 (#4-40) Threaded inserts = 1

Series 858 (Surface Mount with Alignment Pins)

858-10-00X-30-6X2000

Specify number of pins 2-6 → ↑ No Threaded inserts = 0 (#4-40) Threaded inserts = 1



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◆		
Pin Plating 	10 μ" Au		



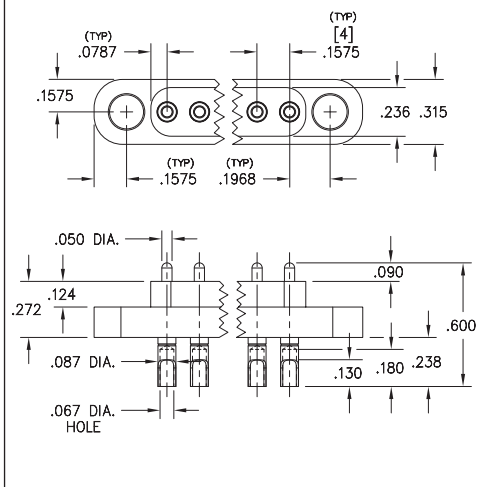
SPRING-LOADED CONNECTORS

SERIES 868 • 4MM GRID RUGGED CONNECTORS • SOLDERCUP TERMINATION

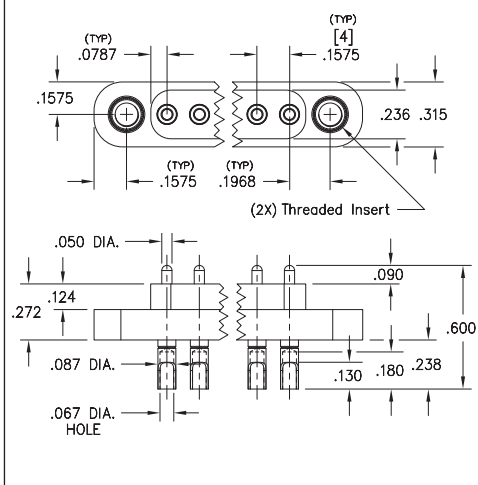


- Rugged Modular contacts for use on 4mm grid, supplied in 2 - 6 position connectors
- Precision-machined piston / base and gold-plated components assure up to 1,000,000 cycle life durability. Pistons have a .045" mid. stroke and a .090" max. stroke
- Mounting tabs provide a means for secure attachment to PCB's, cable assemblies or other housings and may be specified with or without threaded inserts.
- High temperature thermoplastic insulators are suitable for most automated and manual soldering processes
- Series 868-22-00X-00-0X101 connectors are ideal for use with Mill-Max 858 and 868 series SMT, through hole or wire termination target connectors
- Solder cup termination accommodates up to 16 AWG wire
- Series 868-22-00X-00-0X101 use 0868-0 spring-loaded pins. See page 23.1 for details

Series 868-22-00X-00-001101



Series 868-22-00X-00-011101



ORDERING INFORMATION

Series 868 (Soldercup Termination)

868-22-00X-00-001101
Specify number of pins 2-6 No Threaded inserts

Series 868 (Soldercup Termination)

868-22-00X-00-011101
Specify number of pins 2-6 (#4-40) Threaded inserts

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20μ" gold over 100μ" nickel
Spring: Stainless Steel 302 plated 10μ" gold over nickel
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 35 grams
Spring force @ mid stroke: 120 grams
Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 9A @ 10° C Temp. rise above ambient (20°C)
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.

RoHS-2
2011/65/EU



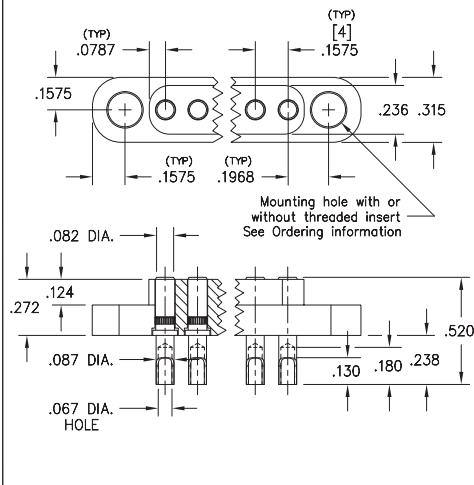
SPRING-LOADED CONNECTORS

SERIES 868 • 4MM GRID RUGGED TARGET CONNECTORS FLAT & CONCAVE FACE • SOLDERCUP TERMINATION

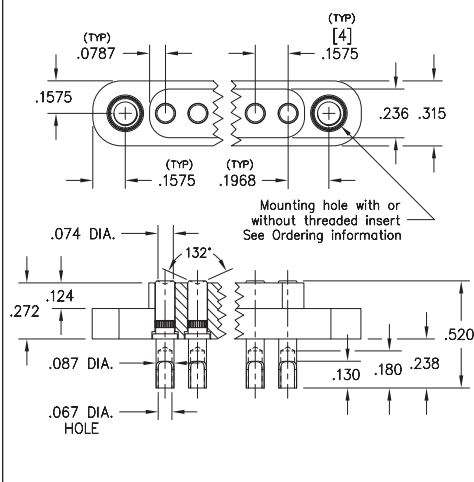


- Rugged Target Connectors for use on 4mm grid, supplied in 2 - 6 position connectors
- Target Connectors provide an excellent gold-plated conductive mating surface for spring-loaded connectors. These series are offered with flat or concave face, providing additional surface area, for mating with Mill-Max 858 and 868 series SMT, through hole or wire termination spring loaded connectors
- Mounting tabs provide a means for secure attachment to PCB's, cable assemblies or other housings and may be specified with or without threaded inserts.
- High temperature thermoplastic insulators are suitable for most automated and manual soldering processes
- Solder cup termination accommodates up to 16 AWG wire
- Series 868-10-00X-00-0X100 use MM #1968-0 target pins & Series 868-10-00X-00-0X200 use #1968-1 target pins. See page 223.5 for details

Series 868-10-00X-00-0X1000



Series 868-10-00X-00-0X2000



ORDERING INFORMATION

Series 868 (Flat Face Soldercup Termination)

868-10-00X-00-0X1000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1

Series 868 (Concave Face Soldercup Termination)

868-10-00X-00-0X2000

Specify number of pins 2-6

No Threaded inserts = 0
(#4-40) Threaded inserts = 1



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10		
Pin Plating	10 μ" Au		



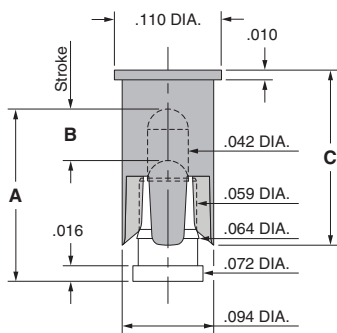
SPRING-LOADED CONNECTORS

SERIES 806 • REMOVABLE PICK & PLACE CAP, SPRING-LOADED PINS • SURFACE MOUNT

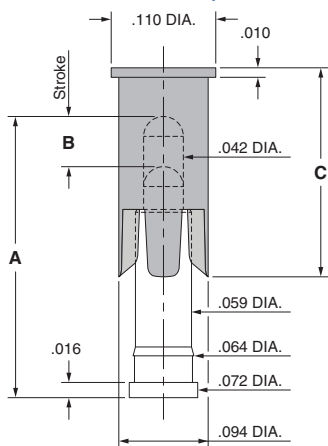


- Surface mount spring-loaded pins with removable pick & place cap are available in nine heights from .137" to .295" with a rated travel of either .0195" or .0275"
- Spring pins used in this series are Mill-Max 0900-X and 0907-X (see page 23 for more details)
- The pick & place cap allows individual spring-loaded contacts to be packaged on tape and reel for automated assembly. The caps are easily removed after soldering leaving only the spring pin on the board.
- Pick & place cap material is high temperature thermoplastic suitable for most SMT soldering processes
- Supplied on 16 mm wide carrier tape, 13" reels; packaging per EIA-481. See below for ordering information

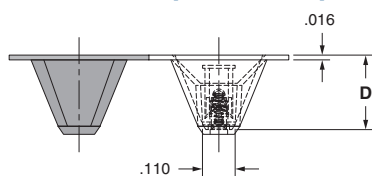
Series 806 (Contact Style 1,2,3,4,10,11)



Series 806 (Contact Style 12,13 & 14)



Series 806 (Tape Pocket Depth)



ORDERING INFORMATION

Series 806 (Tape & Reel Packaged)

806-22-001-30-0XX191

Specify contact style 1-4
Specify contact style 10-14

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	.137	.0195	.030-.039	.180	.252	780
2	.155	.0195	.030-.039	.180	.252	780
3	.177	.0275	.050-.055	.180	.252	780
4	.197	.0275	.050-.055	.180	.252	780
10	.217	.0275	.050-.055	.220	.285	750
11	.236	.0275	.050-.055	.220	.285	750
12	.255	.0275	.050-.055	.220	.361	550
13	.275	.0275	.050-.055	.220	.361	550
14	.295	.0275	.050-.055	.220	.361	550

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel
Spring (Contact style 1-14): Beryllium copper-plated 10 μ " gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 1-14): 25 grams
Spring force @ mid stroke (B/2) (Contact style 1-14): 60 grams
Durability: Up to 1,000,000 cycles

Electrical:

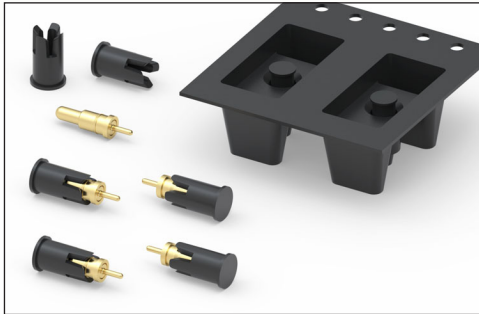
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20m Ω max.
Insulation resistance: 10,000M Ω min.

RoHS-2
2011/65/EU



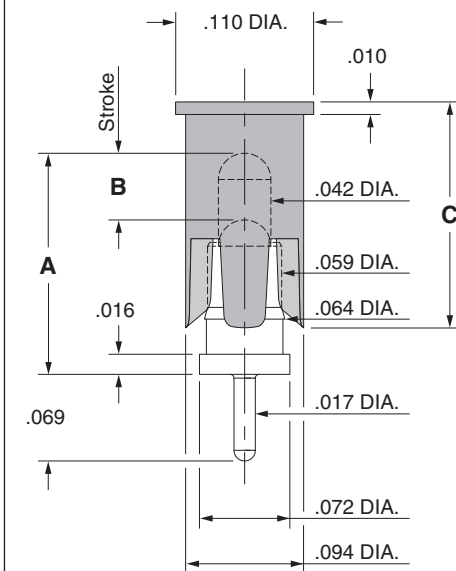
SPRING-LOADED CONNECTORS

SERIES 806 • REMOVABLE PICK & PLACE CAP, SPRING-LOADED PINS • THROUGH-HOLE MOUNT

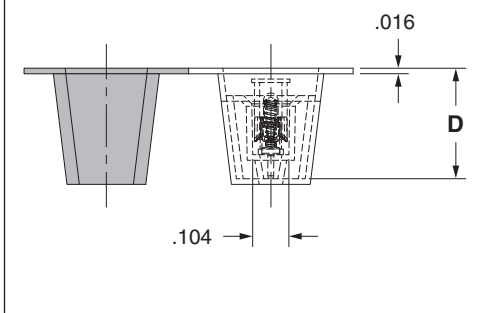


- Through hole mount spring-loaded pins with removable pick & place cap are available in four heights from .137" to .197" with a rated travel of either .0195" or .0275"
- Spring pins used in this series are Mill-Max 0906-X (see page 25 for more details)
- The pick & place cap allows individual spring-loaded contacts to be packaged on tape and reel for automated assembly. The caps are easily removed after soldering leaving only the spring pin on the board
- Pick & place cap material is high temperature thermoplastic suitable for most SMT soldering processes
- Supplied on 24 mm wide carrier tape, 13" reels; packaging per EIA-481. See below for ordering information

Series 806 (Contact Style 1-4)



Series 806 (Tape Pocket Depth)



ORDERING INFORMATION

Series 806 (Tape & Reel Packaged)

806-22-001-10-00X191

Specify contact style 1-4

Contact Style	Initial Height (A)	Rated Travel	Full Stroke Range (B)	Sleeve Height (C)	Tape Depth (D)	Quantity per Reel
1	.137	.0195	.030-.039	.180	.317	640
2	.155	.0195	.030-.039	.180	.317	640
3	.177	.0275	.050-.055	.180	.317	640
4	.197	.0275	.050-.055	.180	.317	640

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel

Spring (Contact style 1-4): Beryllium copper-plated 10 μ " gold

Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A) (Contact style 1-4): 25 grams

Spring force @ mid stroke (B/2) (Contact style 1-4): 60 grams

Durability: Up to 1,000,000 cycles

Electrical:

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20m Ω max.

Insulation resistance: 10,000M Ω min.

RoHS-2
2011/65/EU



SPRING-LOADED CONNECTORS

SERIES 319, 330 • .100" GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

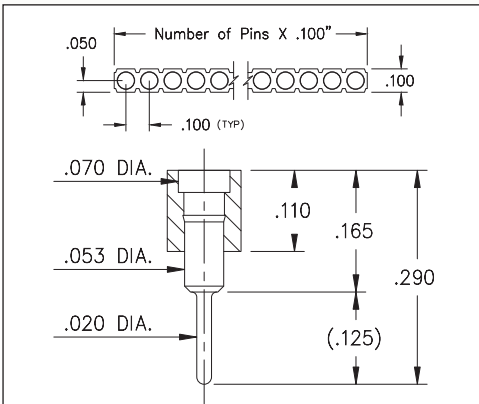


FIG. 1

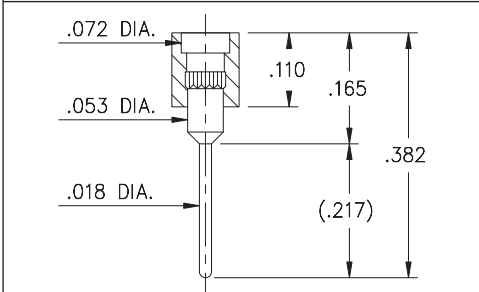


FIG. 2

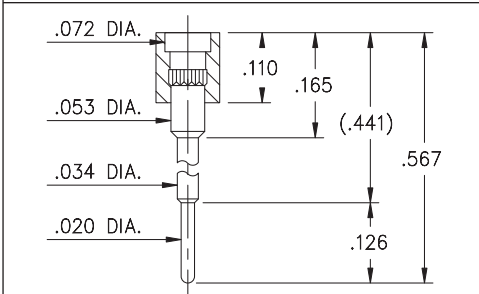


FIG. 3

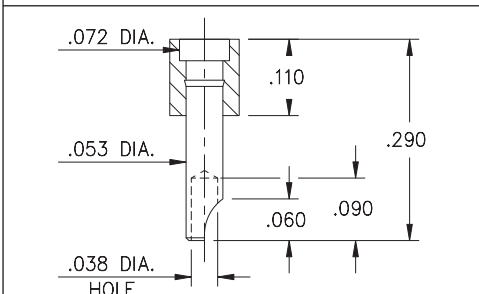


FIG. 4

- Series 319 and 330 Spring Target Connectors, supplied in single row strips. Available in through-hole and wire termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard .042" dia. spring pin plungers
- Target connectors use MM #1938, #1940, #1942 and #3024 pins. See page 218 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

	Series 319...001	Standard Solder Tails
FIG. 1	319-10-1	-00-001000 Specify number of pins 01-64
FIG. 2	Series 319...002	Long Solder Tails 319-10-1 -00-002000 Specify number of pins 01-64
FIG. 3	Series 319...005	Elevated with Solder Tails 319-10-1 -00-005000 Specify number of pins 01-64
FIG. 4	Series 330...240	Solder Cups 330-10-1 -00-240000 Specify number of pins 01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10			
Pin Plating	10 μ" Au			



SPRING-LOADED CONNECTORS

SERIES 319, 399 • .100" GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

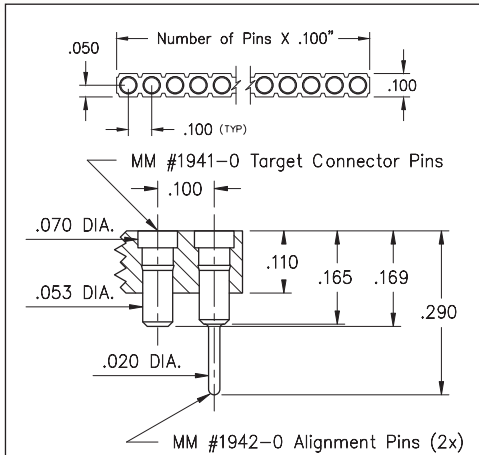
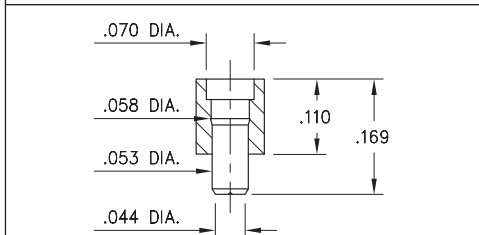
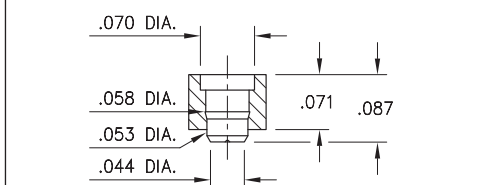


FIG. 1



Coplanarity .005". For Pin counts >10 positions, consult Technical Support.

FIG. 2



Coplanarity .005". For Pin counts >10 positions, consult Technical Support.

FIG. 3

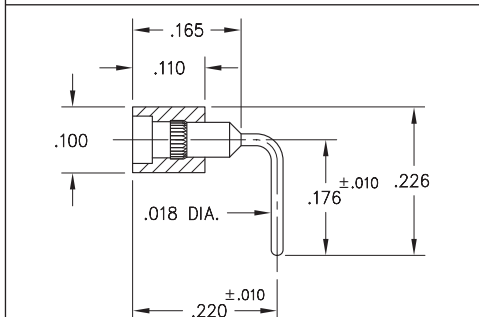
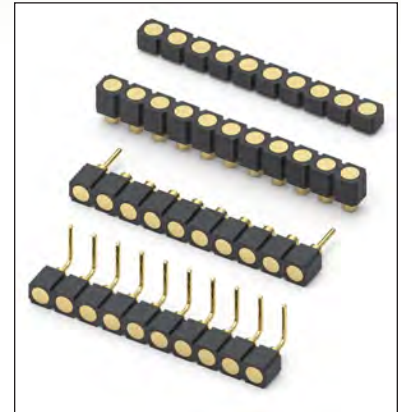


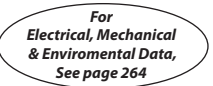




FIG. 4

- Series 319 and 399 Spring Target Connectors, supplied in single row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard .042" dia. spring pin plungers
- Target connectors use MM #1940, #1941/1942, #1953 and #1954 pins. See pages 218 & 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 319...041 Surface Mount w/ Alignments Pins
	319-10-1__-30-041000 Specify number of pins 03-64
FIG. 2	Series 319...008 Surface Mount
	319-10-1__-30-008000 Specify number of pins 01-64
FIG. 3	Series 319...054 Low Profile Surface Mount
	319-10-1__-30-054000 Specify number of pins 01-64
FIG. 4	Series 399...008 Right Angle Solder Tails
	399-10-1__-10-008000 Specify number of pins 01-64
  	
SPECIFY PLATING CODE XX=	10 
Pin Plating 	10 μ" Au

SPRING-LOADED CONNECTORS

SERIES 319, 399 • .100" GRID CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

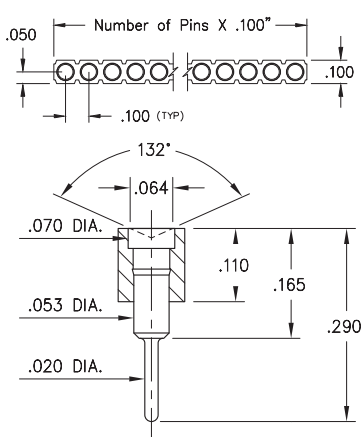
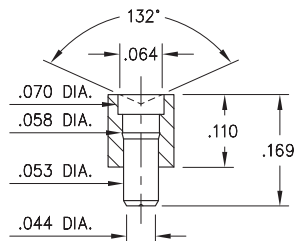
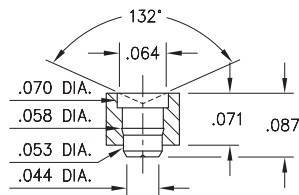


FIG. 1



Coplanarity .005". For Pin counts >10 positions, consult Technical Support.

FIG. 2



Coplanarity .005". For Pin counts >10 positions, consult Technical Support.

FIG. 3

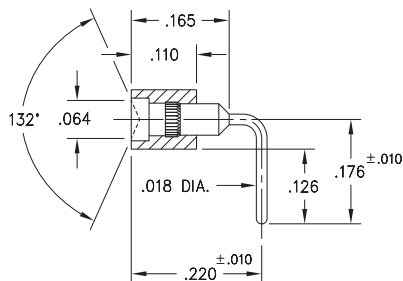
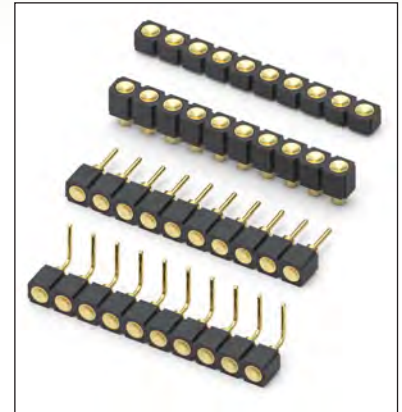


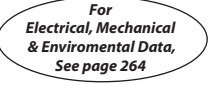



FIG. 4

- Series 319 and 399 Spring Target Connectors, supplied in single row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a concave face for making contact with our standard .042" dia. spring pin plungers
- Target connectors use MM #1948, #1955, #1957 and #1960 pins. See pages 223.1, 223.2 and 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

	Series 319...006	Standard Solder Tails
FIG. 1	319-10-1	-00-006000
	Specify number of pins	01-64
FIG. 2	Series 319...007	Surface Mount
	319-10-1	-30-007000
	Specify number of pins	01-64
FIG. 3	Series 319...055	Low Profile Surface Mount
	319-10-1	-30-055000
	Specify number of pins	01-64
FIG. 4	Series 399...007	Right Angle Solder Tails
	399-10-1	-10-007000
	Specify number of pins	01-64
  		
SPECIFY PLATING CODE XX=	10	
Pin Plating 	10 μ" Au	



SPRING-LOADED CONNECTORS

SERIES 419, 430 • .100" GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

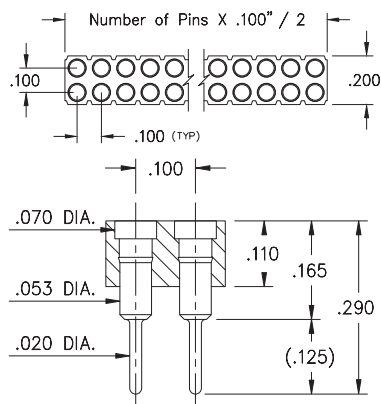


FIG. 1

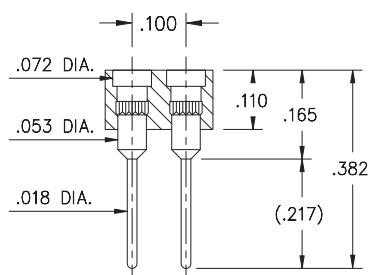


FIG. 2

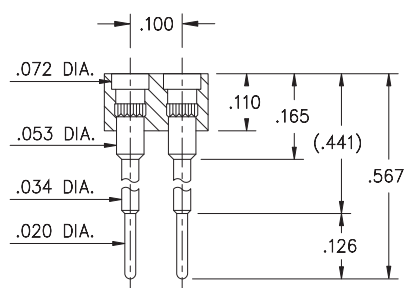


FIG. 3

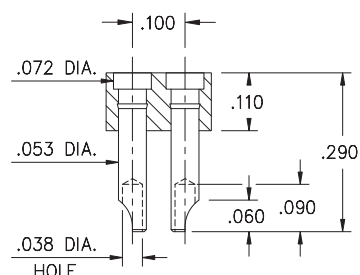
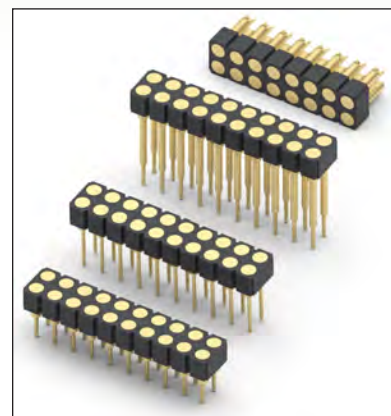






FIG. 4

- Series 419 and 430 Spring Target Connectors, supplied in double row strips. Available in through-hole and wire termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard .042" dia. spring pin plungers
- Target connectors use MM #1938, #1940, #1942 and #3024 pins. See page 218 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

	Series 419...001	Standard Solder Tails
FIG. 1	419-10-2	-00-001000
	Specify number of pins	04-64
	Series 419...002	Long Solder Tails
FIG. 2	419-10-2	-00-002000
	Specify number of pins	04-64
	Series 419...005	Elevated with Solder Tails
FIG. 3	419-10-2	-00-005000
	Specify number of pins	04-64
	Series 430...240	Solder Cups
FIG. 4	430-10-2	-00-240000
	Specify number of pins	04-64
  		
SPECIFY PLATING CODE XX=		
Pin Plating	10 	10 μ" Au

SPRING-LOADED CONNECTORS

SERIES 419, 499 • .100" GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

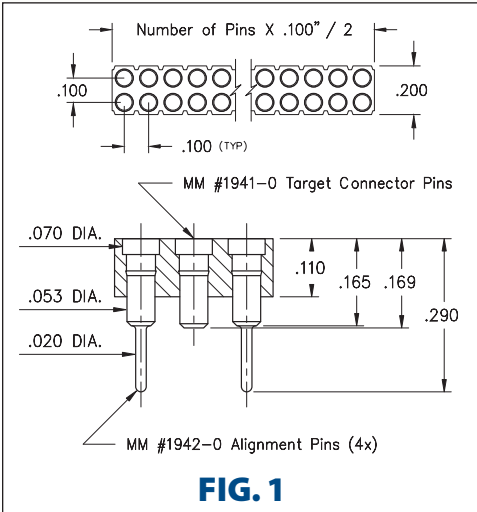


FIG. 1

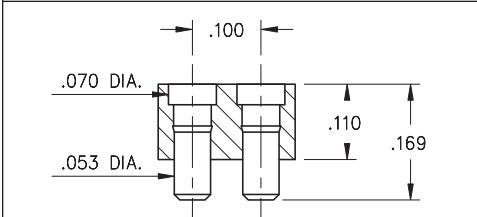


FIG. 2

Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

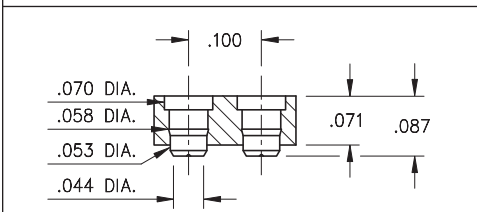


FIG. 3

Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

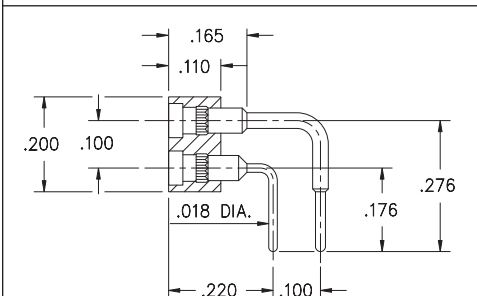
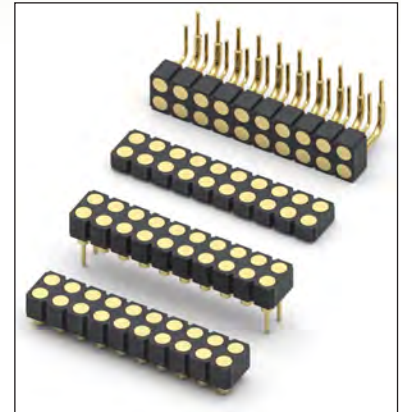







FIG. 4

- Series 419 and 499 Spring Target Connectors, supplied in double row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard .042" dia. spring pin plungers
- Target connectors use MM #1940, #1941/1942, #1953 and #1954 pins. See pages 218 & 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 419...042 Surface Mount w/ Alignments Pins
	419-10-2__-30-042000 Specify number of pins 06-72
FIG. 2	Series 419...041 Surface Mount
	419-10-2__-30-041000 Specify number of pins 04-72
FIG. 3	Series 419...054 Low Profile Surface Mount
	419-10-2__-30-054000 Specify number of pins 04-72
FIG. 4	Series 499...008 Right Angle Solder Tails
	499-10-2__-10-008000 Specify number of pins 02-64
  	
SPECIFY PLATING CODE XX=	10 
Pin Plating 	10 μ" Au



SPRING-LOADED CONNECTORS

SERIES 419, 499 • .100" GRID CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

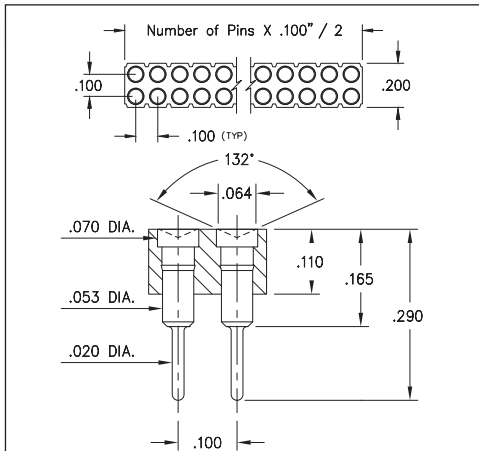


FIG. 1

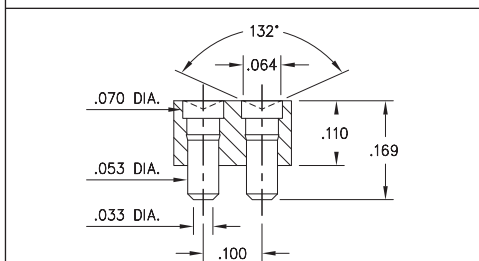


FIG. 2

Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

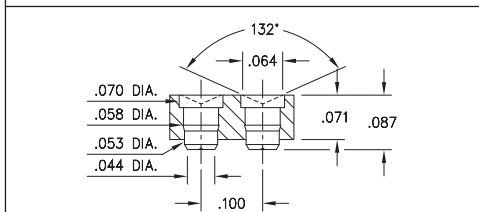


FIG. 3

Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

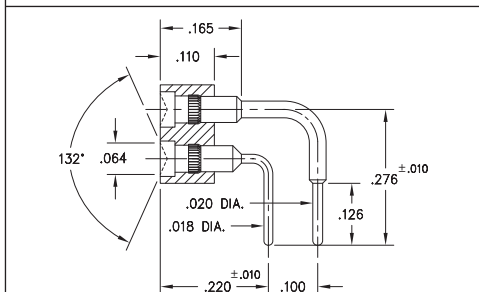
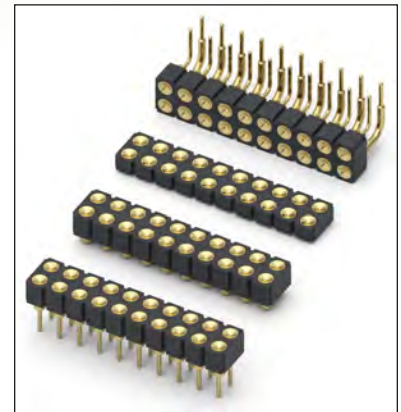


FIG. 4

- Series 419 and 499 Spring Target Connectors, supplied in double row strips. Available in SMT and right angle through-hole termination configurations
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a concave face for making contact with our standard .042" dia. spring pin plungers
- Target connectors use MM #1947, #1948, #1955 and #1958/1960 pins. See pages 223.1, 223.2 and 223.3 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

	Series 419...006	Standard Solder Tails
FIG. 1	419-10-2	-00-006000
	Specify number of pins	04-64
	Series 419...007	Surface Mount
FIG. 2	419-10-2	-30-007000
	Specify number of pins	04-72
	Series 419...055	Low Profile Surface Mount
FIG. 3	419-10-2	-30-055000
	Specify number of pins	04-72
	Series 499...007	Right Angle Solder Tails
FIG. 4	499-10-2	-10-007000
	Specify number of pins	02-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10			
Pin Plating 	10 μ" Au			



SPRING-LOADED CONNECTORS

SERIES 856 • .050" GRID FLAT & CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

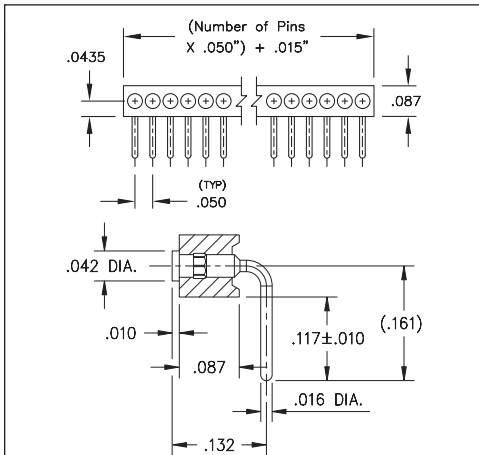


FIG. 1

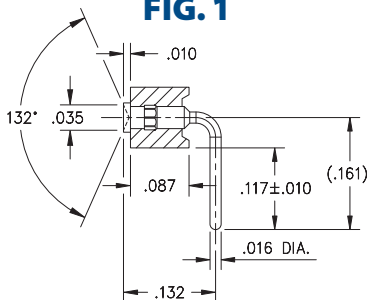


FIG. 2

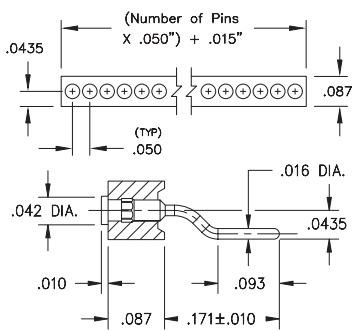


FIG. 3

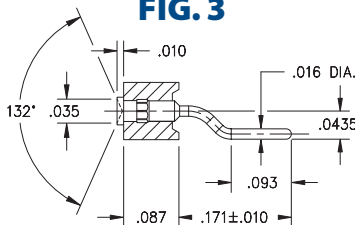
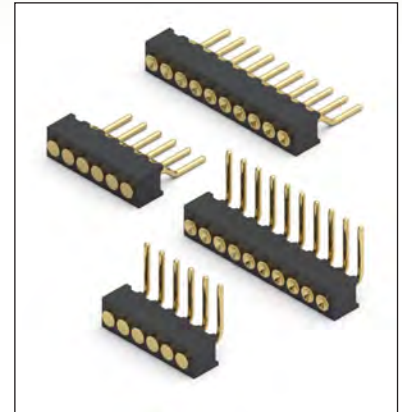


FIG. 4

Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

- Series 856 Spring Target Connectors, supplied in single row strips
- Spring Target Connectors are offered with a flat or concave surface for making contact with our standard .019" dia. spring pin plungers. The target connectors provide an excellent gold-plated conductive path back to the board-mounted spring pin connector
- Target connectors use MM #1831-1 and #1931-1 pins. See page 223.2 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

	Series 856...20-001	Flat face / Right Angle
FIG. 1	856-10-0	-20-001000
	Specify number of pins	01-20
FIG. 2	Series 856...20-002	Concave face / Right Angle
	856-10-0	-20-002000
	Specify number of pins	01-20
FIG. 3	Series 856...40-001	Flat face / Surface Mount
	856-10-0	-40-001000
	Specify number of pins	01-20
FIG. 4	Series 856...40-002	Concave face / Surface Mount
	856-10-0	-40-002000
	Specify number of pins	01-20
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>		
SPECIFY PLATING CODE XX=		
Pin Plating	10 10 μ" Au	



SPRING-LOADED CONNECTORS

SERIES 856, 857 • .050" GRID CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE AND DOUBLE ROW STRIPS

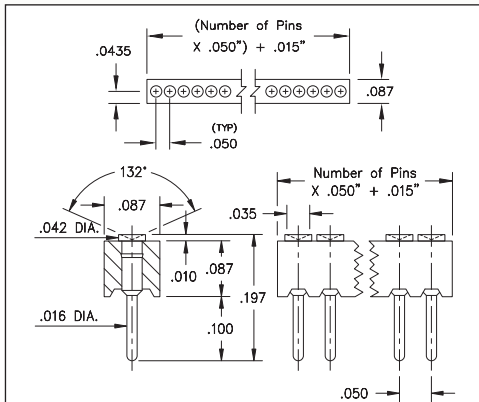
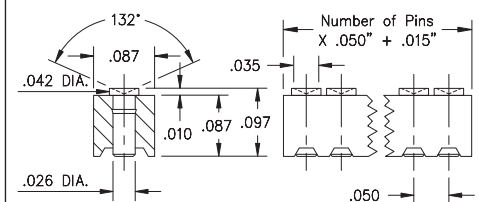


FIG. 1



Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

FIG. 2

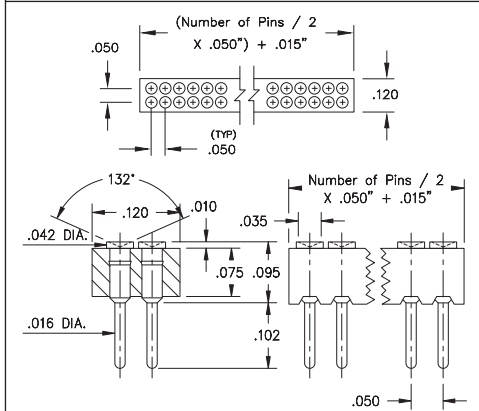
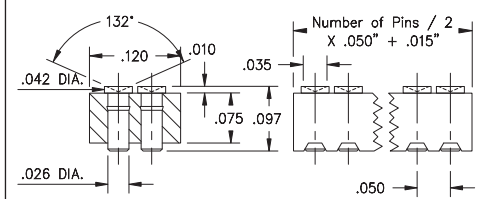


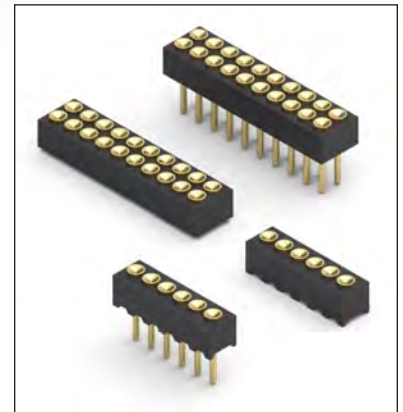
FIG. 3



Coplanarity .005". For Pin counts >40 positions, consult Technical Support.

FIG. 4

- Series 856 and 857 Target Connectors, SMT & through-hole, supplied in single and double row strips
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a concave face for making contact with our standard .019" dia. spring pin plungers
- Target connectors use MM #1934 (through-hole) and #1936 (surface mount) pins. See page 223.2 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

	Series 856...10-002	Concave face / Solder Tails
FIG. 1	856-10-0	-10-002000
	Specify number of pins	01-20
FIG. 2	Series 856...30-002	Concave face / Surface Mount
	856-10-0	-30-002000
	Specify number of pins	02-20
FIG. 3	Series 857...10-002	Concave face / Solder Tails
	857-10-0	-10-002000
	Specify number of pins	04-40
FIG. 4	Series 857...30-002	Concave face / Surface Mount
	857-10-0	-30-002000
	Specify number of pins	04-40
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>		
SPECIFY PLATING CODE XX=		
Pin Plating	10	10 μ" Au



SPRING-LOADED CONNECTORS

SERIES 856, 857 • .050" GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE AND DOUBLE ROW STRIPS

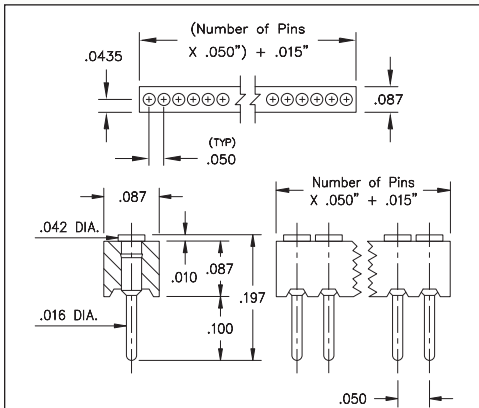


FIG. 1

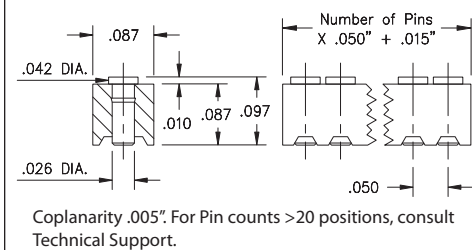


FIG. 2

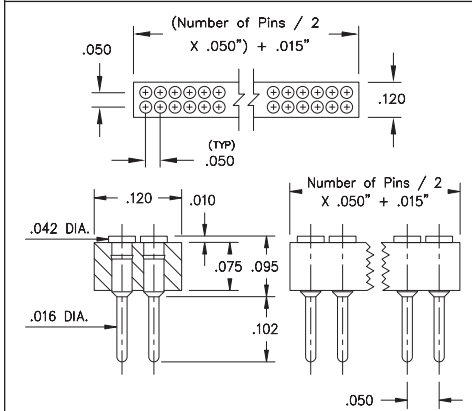


FIG. 3

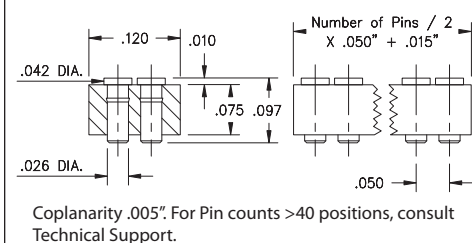
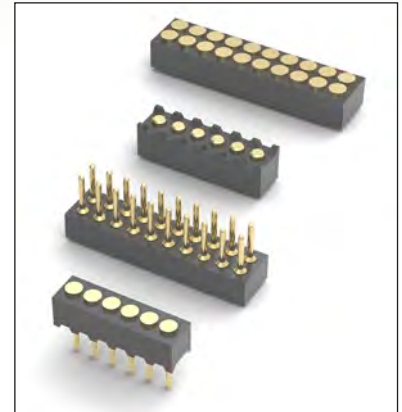


FIG. 4

- Series 856 and 857 Target Connectors, SMT & through-hole, supplied in single and double row strips
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. These series are offered with a flat face for making contact with our standard .019" dia. spring pin plungers
- Target connectors use MM #1933 (through-hole) and #1935 (surface mount) pins. See page 223.2 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

	Series 856...051	Flat face / Solder Tails
FIG. 1	856-10-0	-10-051000 Specify number of pins 01-20
FIG. 2	Series 856...051	Flat face / Surface Mount
FIG. 2	856-10-0	-30-051000 Specify number of pins 02-20
FIG. 3	Series 857...051	Flat face / Solder Tails
FIG. 3	857-10-0	-10-051000 Specify number of pins 04-40
FIG. 4	Series 857...051	Flat face / Surface Mount
FIG. 4	857-10-0	-30-051000 Specify number of pins 04-40
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>		
SPECIFY PLATING CODE XX=		
Pin Plating	10 10 μ" Au	



SPRING-LOADED CONNECTORS

SERIES 830 • 2mm GRID FLAT & CONCAVE FACE TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

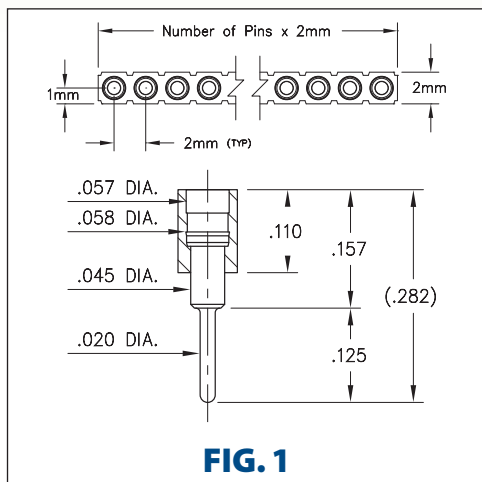


FIG. 1

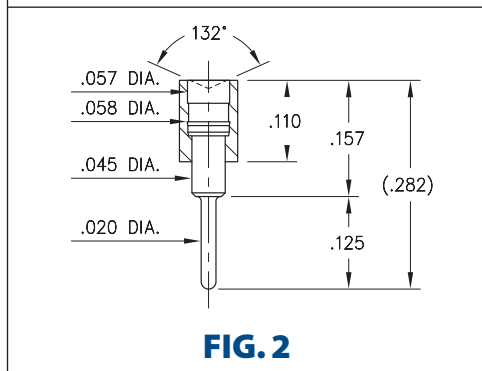


FIG. 2

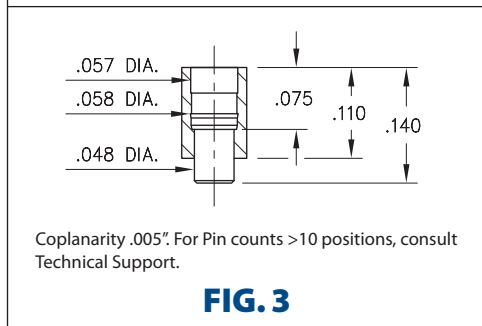


FIG. 3

Coplanarity .005". For Pin counts >10 positions, consult Technical Support.

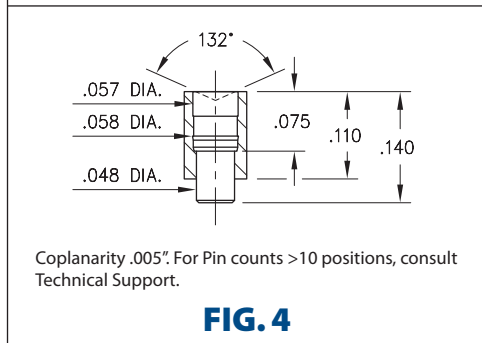
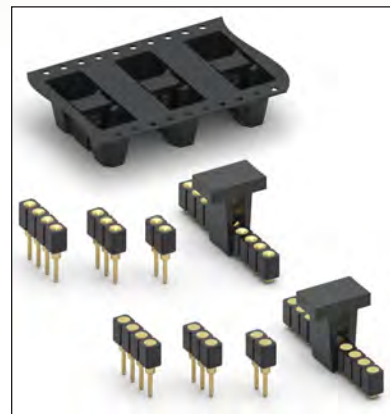




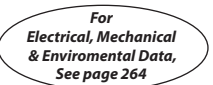


FIG. 4

Coplanarity .005". For Pin counts >10 positions, consult Technical Support.

- Series 830 2mm Spring Target Connectors, supplied in single row strips
- Target connectors provide an excellent gold-plated conductive path back to the board-mounted spring pin connector. Available in both through-hole and SMT terminations with the choice of either flat or concave face contact surfaces. Concave face targets provide additional surface area for mating with our standard .032" diameter plungers
- Target connectors use MM #1949, #1950, #1951, and #1952 pins. See page 223.1 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 830...003 Flat face / Solder Tails
	830-10-0__-10-003000 Specify number of pins 01-20
FIG. 2	Series 830...004 Concave face / Solder Tails
	830-10-0__-10-004000 Specify number of pins 01-20
FIG. 3	Series 830...30-003 Flat face / Surface Mount
	830-10-0__-30-003XXX Specify number or pins 02-10 Tube packaged = 000 Tape & reel packaged = 191 400 parts per 13" reel
FIG. 4	Series 830...30-004 Concave face / Surface Mount
	830-10-0__-30-004XXX Specify number or pins 02-10 Tube packaged = 000 Tape & reel packaged = 191 400 parts per 13" reel
  	
SPECIFY PLATING CODE XX=	10 
Pin Plating 	10 μ" Au

SPRING-LOADED CONNECTORS

SERIES 856, 857 • .050" GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE AND DOUBLE ROW STRIPS

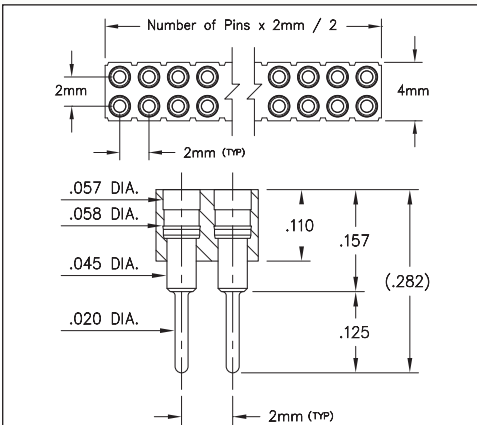


FIG. 1

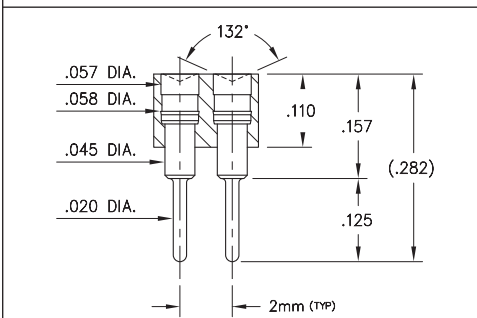


FIG. 2

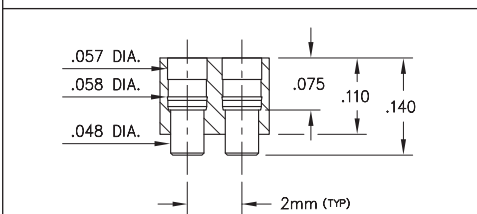


FIG. 3

Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

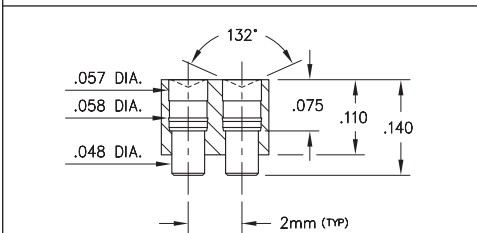
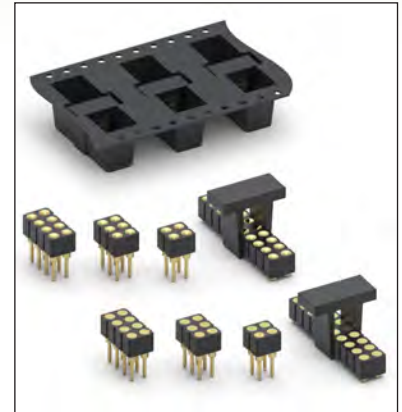


FIG. 4

Coplanarity .005". For Pin counts >20 positions, consult Technical Support.

- Series 832 2mm Spring Target Connectors, supplied in double row strips
- Target connectors provide an excellent gold-plated conductive path back to the board-mounted spring pin connector. Available in both through-hole and SMT terminations with the choice of either flat or concave face contact surfaces. Concave face targets provide additional surface area for mating with our standard .032" diameter plungers
- Target connectors use MM #1949, #1950, #1951, and #1952 pins. See page 223.1 for details
- Insulators are high temperature thermoplastic



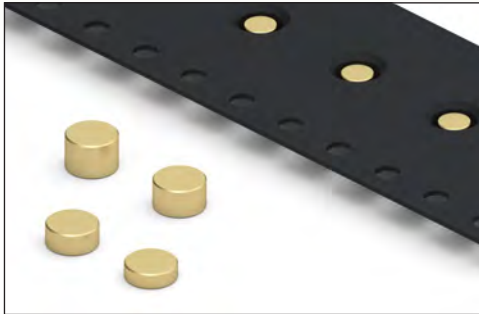
ORDERING INFORMATION

FIG. 1	Series 832...003 Flat face / Solder Tails
	832-10-0__-10-003000 Specify number of pins \uparrow 04-20
FIG. 2	Series 832...004 Concave face / Solder Tails
	832-10-0__-10-004000 Specify number of pins \uparrow 04-20
FIG. 3	Series 832...30-003 Flat face / Surface Mount
	832-10-0__-30-003XXX Specify number or pins \uparrow 04-20 Tube packaged = 000 Tape & reel packaged = 191 400 parts per 13" reel
FIG. 4	Series 832...30-004 Concave face / Surface Mount
	832-10-0__-30-004XXX Specify number or pins \uparrow 04-20 Tube packaged = 000 Tape & reel packaged = 191 400 parts per 13" reel
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Enviromental Data, See page 264</div> </div>	
SPECIFY PLATING CODE XX=	10 \blacklozenge
Pin Plating	10 μ " Au

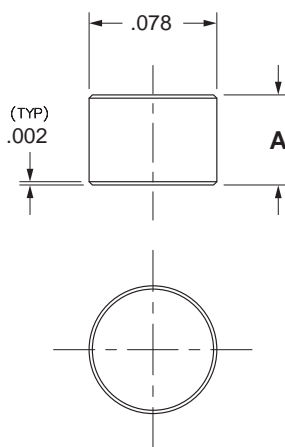


SPRING-LOADED CONNECTORS

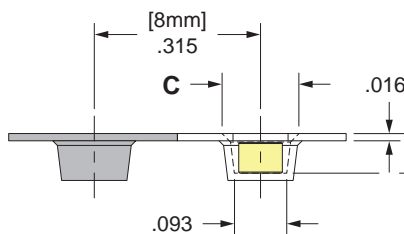
SERIES 1578 • LOW PROFILE TARGET DISCS • SURFACE MOUNT



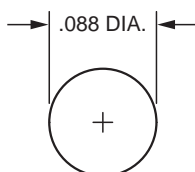
Series 1578 (Target Disc)



Series 1578 (Tape Pocket Details)



Series 1578 (Suggested footprint layout)



- The 1578-X-57-15-00-00-03-0 Surface mount disc is .078" in diameter and available in four heights from .025" to .055" +/- .002" tall. Employing our precision machining expertise we are able to achieve flat surfaces on both sides of the disc with virtually no burrs. The flat surfaces are ideal for surface mount soldering and as the conductive mating surface for spring loaded pins and connectors as well as test probes. The discs are typically placed on solder pasted PCB pads and then subjected to reflow soldering. Once soldered the terminals are ready to be used as reliable, durable contact points.
- The 1578-X's are packaged on tape & reel - 16 mm wide x 8 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D
- Custom sizes are quickly and easily achievable via Mill-Max's high speed precision machining processes. You can contact our technical support team to discuss your particular application and requirements.

ORDERING INFORMATION

Series 1578 (Tape & Reel Packaged)

1578-X-57-15-00-00-03-0

Specify contact style (0-3)

Contact Style	Target Disc Height (A)	Tape Pocket Depth (B)	Tape Pocket Opening (C)	Quantity per Reel
0	.025	.035	.120	7,200
1	.035	.045	.130	6,000
2	.045	.055	.131	5,125
3	.055	.065	.133	4,000

XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=

15

Pin Plating

10 μ" Au

SPECIFICATIONS:

Pin Material: Brass Alloy 385 or 360, 1/2 Hard

Dimensions: Inches

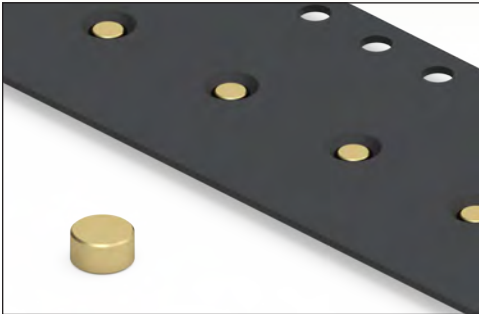
Tolerances On: Lengths: ± .002
Diameters: ± .001
Angles: ± 2°

RoHS-2
2011/65/EU



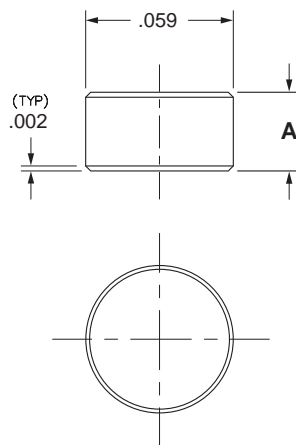
SPRING-LOADED CONNECTORS

SERIES 1559 • LOW PROFILE TARGET DISCS • SURFACE MOUNT

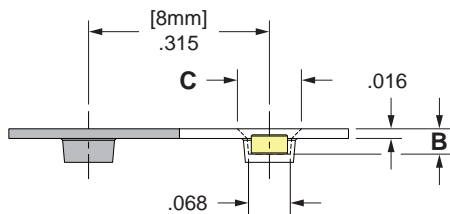


- The 1559-1-57-15-00-00-03-0 Surface mount disc is .059" in diameter. Employing our precision machining expertise we are able to achieve flat surfaces on both sides of the disc with virtually no burrs. The flat surfaces are ideal for surface mount soldering and as the conductive mating surface for spring loaded pins and connectors as well as test probes. The discs are typically placed on solder pasted PCB pads and then subjected to reflow soldering. Once soldered the terminals are ready to be used as reliable, durable contact points.
- The 1559-1 are packaged on tape & reel - 16 mm wide x 8 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D
- Custom sizes are quickly and easily achievable via Mill-Max's high speed precision machining processes. You can contact our technical support team to discuss your particular application and requirements.

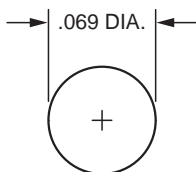
Series 1559 (Target Disc)



Series 1559 (Tape Pocket Details)



Series 1559 (Suggested footprint layout)



ORDERING INFORMATION

Series 1559 (Tape & Reel Packaged)

1559-X-57-15-00-00-03-0

Specify contact style (1)

Contact Style	Target Disc Height (A)	Tape Pocket Depth (B)	Tape Pocket Opening (C)	Quantity per Reel
1	.0315	.041	.104	6,000

XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	15			
Pin Plating	10 μ" Au			

SPECIFICATIONS:

Pin Material: Brass Alloy 385 or 360, 1/2 Hard

Dimensions: Inches

Tolerances On: Lengths: ± .002
Diameters: ± .001
Angles: ± 2°

RoHS-2
2011/65/EU



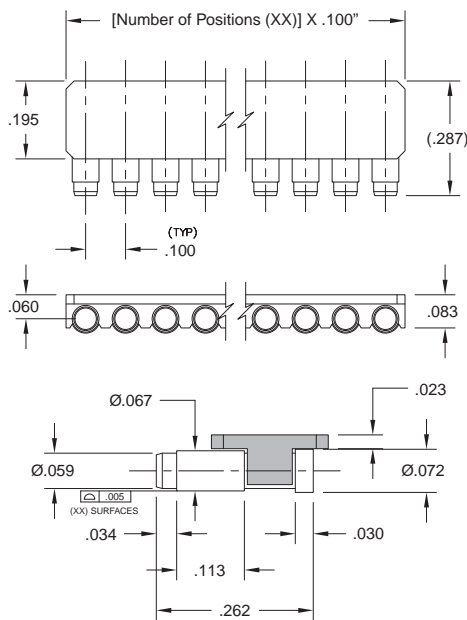
SPRING-LOADED CONNECTORS

SERIES 319 • .100" GRID HSMT TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

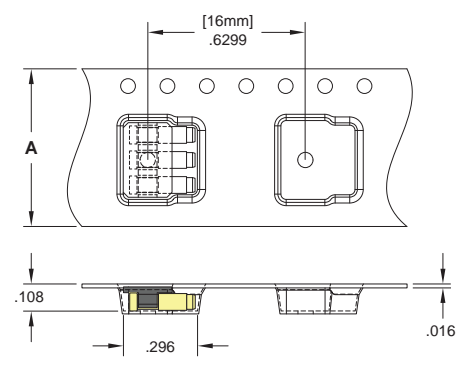


- Series 319 HSMT Spring Target Connectors, supplied in single row strips
- Target Connectors provide an excellent gold-plated conductive mating surface for spring loaded connectors. This series is offered with a flat face for making contact with our standard .042" dia. spring pin plungers
- These target connectors provide a low profile, horizontal surface mount connection to the PCB and are designed to mate with standard .100" pitch spring loaded connectors. They are ideal for daisy chaining P.C.B.'s when mated with SLC 810-22-1XX-40-005191 or for mating boards in a perpendicular orientation
- The 319 series is packaged on tape & reel - 16, 24, 32 or 44 mm wide x 16 mm pitch, making them simple to integrate into existing pick & place equipment and assembly processes. The tape packaging is per EIA-481-D

Series 319 (HSMT Target)



Series 319 (Tape Pocket Details)



ORDERING INFORMATION

Series 319 (Tape & Reel Packaged)

319-10-1__-40-080001
Specify number of pins 02-10

Number of Pins	Tape Width Size (A)	Quantity per Reel
2	16mm	1,450
3	16mm	1,450
4	24mm	1,450
5	24mm	1,450
6	24mm	1,450
7	32mm	1,450
8	32mm	1,450
9	44mm	1,450
10	44mm	1,450

XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating	 10 μ" Au			

Technical Specifications

Materials:

Pin Material: Brass Alloy 385 or 360, 1/2 Hard
Pin Finish: 10 μ" Gold over Nickel
Insulator: High temperature Nylon 46, rated UL94 V-0

Electrical:

Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.

RoHS-2
2011/65/EU



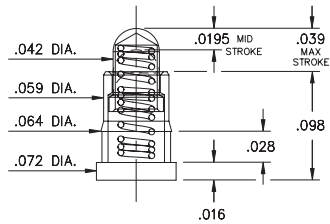
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

0900-0

0900-0-15-20-76-14-11-0

"Legacy P/N 0900-0-00-00-00-00-11-0"
Short stroke, Surface mount. Also available
on 16mm wide carrier tape: 2,000 parts per 13"
reel. See page 28.2 for Tape & Reel details

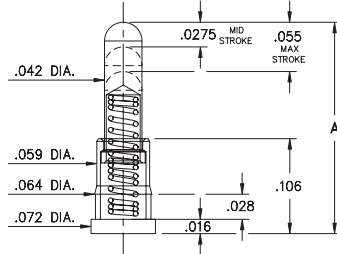


0900-1 → 4,8

72 or 75

0900-X-15-20-7X-14-11-0

Standard stroke, Surface mount. Also available on 16mm
wide carrier tape: 1,700 parts per 13" reel (0900-1) or
24mm wide carrier tape: 1,100 parts per 13" reel (0900-2)
and (0900-3). See page 28.2 for Tape & Reel details



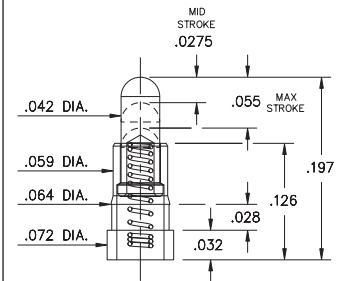
Basic Part Number	Length A
0900-1	.177
0900-2	.197
0900-3	.217
0900-4	.236
*0900-8	.155

*0900-8 has a .0195 Mid Stroke & .039 Max. Stroke
Order as:
0900-8-15-20-76-14-11-0
"Legacy Part Number"
0900-X-00-00-00-00-11-0

0934

0934-0-15-20-74-14-26-0

Standard stroke, Surface mount

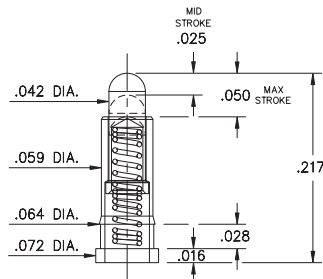


0936

72 or 75

0936-0-15-20-7X-14-11-0

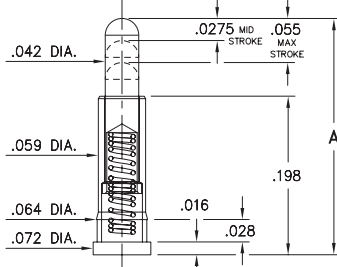
Standard stroke, Surface mount



0907-0 → 9

0907-X-15-20-75-14-11-0

Standard stroke, Surface mount, Mid profile
Also available with insulated sleeve, see page 19.4

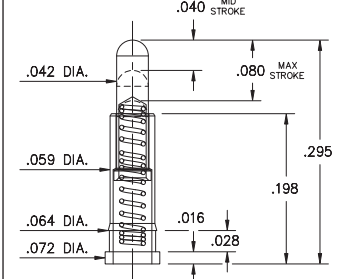


Basic Part Number	Length A
0907-0	.255
0907-1	.275
0907-2	.295
0907-3	.315
0907-4	.335
0907-5	.350
0907-6	.370
0907-7	.390
0907-8	.410
0907-9	.430

0928

0928-0-15-20-77-14-11-0

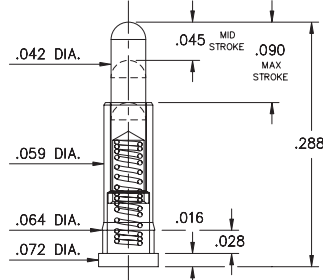
Long stroke, Surface mount



0913

0913-0-15-20-77-14-11-0

Long stroke, Surface mount, Mid profile

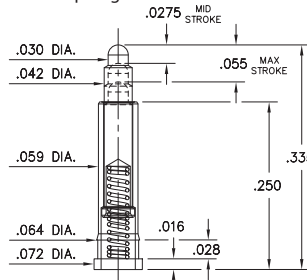


0925

72 or 75

0925-0-15-20-7X-14-11-0

Standard stroke, Surface mount
Reduced plunger

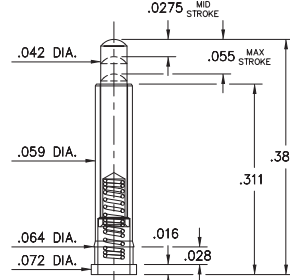


0927

72 or 75

0927-0-15-20-7X-14-11-0

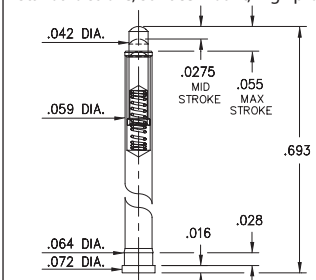
Standard stroke, Surface mount, Mid profile



0905

0905-0-15-20-7X-14-11-0

"Legacy P/N 0905-0-00-00-00-00-11-0"
Standard stroke, Surface mount, High profile



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
Diameters: ± .002
Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

74, 75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - 7X - 14 - XX - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
74	.0275	.055	50 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g
77	.045	.090	60 g	25 g



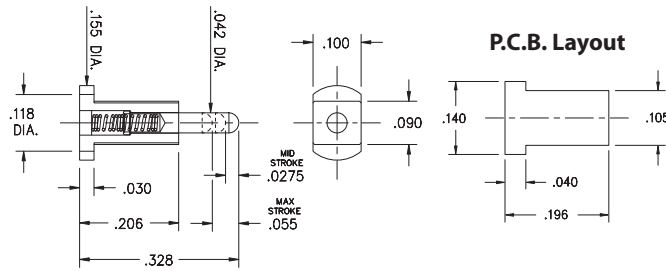
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

0967

0967-0-15-20-7X-14-11-0

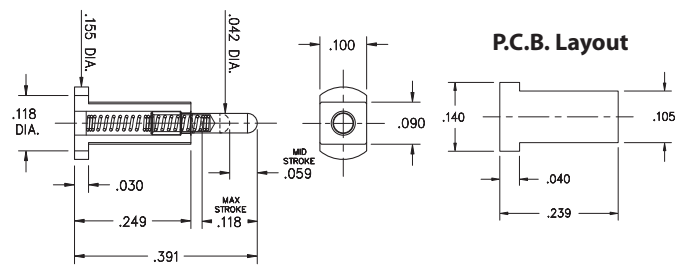
Standard stroke, Horizontal surface mount
Also available on 16mm wide carrier tape: 2,800 parts per 13" reel
See page 28.2 for Tape & Reel details



0987

0987-0-15-20-89-14-11-0

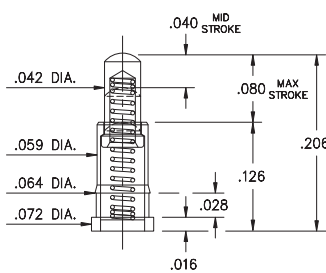
Long stroke, Horizontal surface mount
Also available on 24mm wide carrier tape: 2,800 parts per 13" reel
See page 28.6 for Tape & Reel details



0964

0964-0-15-20-85-14-11-0

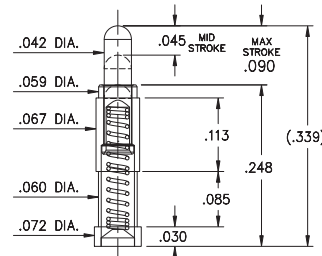
Long stroke, Surface mount, Mid profile
* Stainless steel spring



7966-0

7966-0-15-20-77-14-11-0

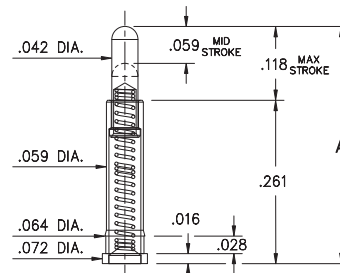
Long stroke, Surface mount. Also available in HSMT connector series: 1,450 parts per 13" reel. Order as: 810-22-0XX-40-005191



0919-X

0919-X-15-20-89-14-11-0

3mm (.118") Long stroke, Surface mount
* Stainless steel spring

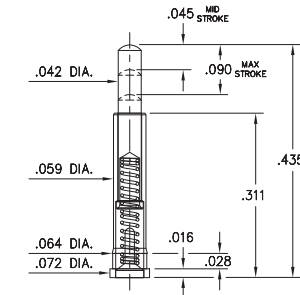


Basic Part Number	Length A
0919-0	.379
0919-2	.419

0937

0937-0-15-20-77-14-11-0

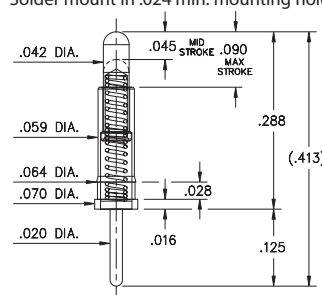
Long stroke, Surface mount



7913

7913-0-15-20-77-14-11-0

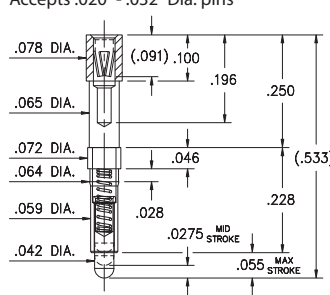
Long stroke
Solder mount in .024 min. mounting hole



0959

0959-0-54-20-7X-14-11-0

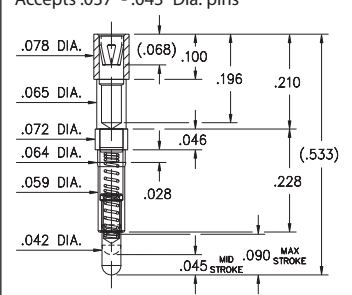
Receptacle spring pin, Standard stroke
Accepts .020" - .032" Dia. pins



7928

7928-0-54-20-77-14-11-0

Receptacle spring pin, Long stroke
Accepts .037" - .043" Dia. pins



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
 Diameters: ± .002
 Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range: -55/+125°C

75, 77, 85, 89 Springs are not interchangeable

Order Code: X9XX - X - 15 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
77	.045	.090	60 g	25 g
* 85	.040	.080	60 g	25 g
* 89	.059	.118	100 g	25 g



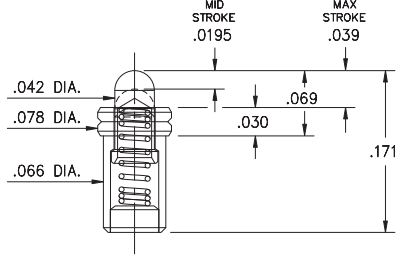
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

0921-0

0921-0-15-20-76-14-11-0

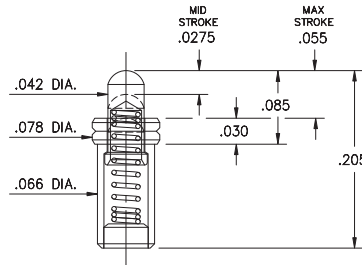
Ultra low profile, Short stroke. Solder mount in .070 min. mounting hole
Also available on 24mm wide carrier tape: 1,700 parts per 13" reel
See page 28.3 for Tape & Reel details



0921-1

0921-1-15-20-7X-14-11-0

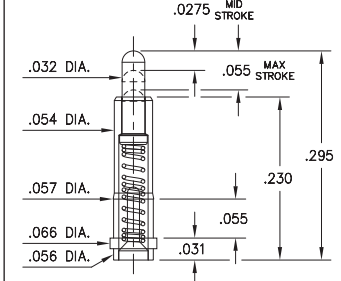
Low profile, Standard stroke. Solder mount in .070 min. mounting hole
Also available on 24mm wide carrier tape: 1,500 parts per 13" reel
See page 28.3 for Tape & Reel details



0911

0911-0-15-20-86-14-11-0

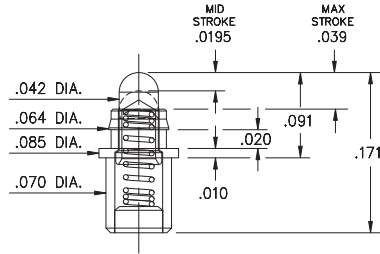
Standard stroke, Surface mount
*Stainless steel spring



0926-0

0926-0-15-20-76-14-11-0

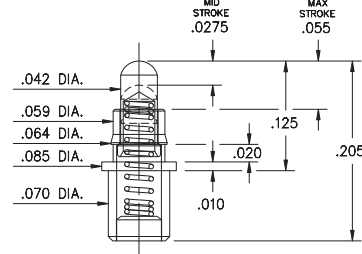
Low profile, Short stroke. Solder mount in .074 min. mounting hole
Also available on 16mm wide carrier tape: 1,700 parts per 13" reel
See page 28.4 for Tape & Reel details



0926-1

0926-1-15-20-7X-14-11-0

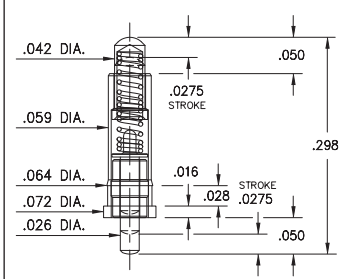
Low profile, Standard stroke. Solder mount in .074 min. mounting hole
Also available on 24mm wide carrier tape: 1,450 parts per 13" reel
See page 28.4 for Tape & Reel details



0980

0980-0-15-20-7X-14-11-0

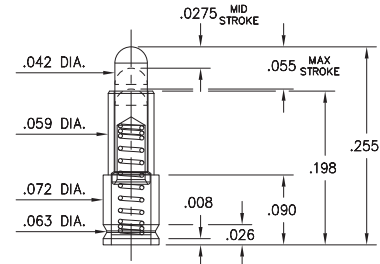
Double action, .055 Combined stroke
Mount between parallel circuit boards



0977

0977-0-15-20-7X-14-11-0

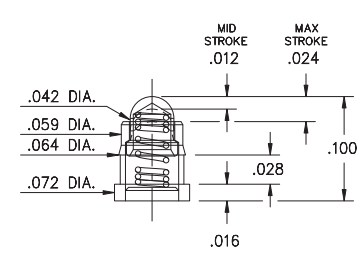
Standard stroke, Surface mount
Also available on 24mm wide carrier tape: 1,100 parts per 13" reel
See page 28.4 for Tape & Reel details



0965

0965-0-15-20-80-14-11-0

Ultra low profile, Surface mount, *Stainless steel spring
Also available on 16mm wide carrier tape: 3,000 parts per 13" reel
See page 28.4 for Tape & Reel details



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
Diameters: ± .002
Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
-55/+125° C (discontinuous)

75, 76, 80, 86 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g
* 80	.012	.024	115 g	25 g
* 86	.0275	.055	100 g	25 g



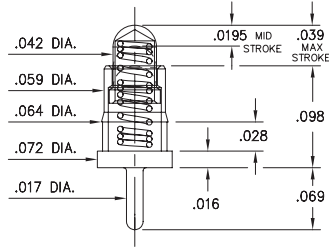
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • THROUGH-HOLE MOUNT

0906-0

0906-0-15-20-76-14-11-0

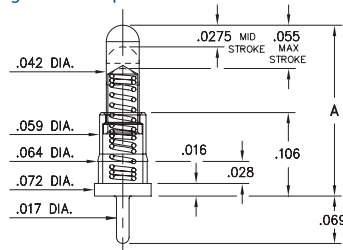
Short stroke, Solder mount in .020 min. mounting hole. Also available with insulated sleeve, see page 19.5



0906-1 → 4,8

0906-X-15-20-7X-14-11-0

Standard stroke, Solder mount in .020 min. mounting hole. Also available on 24mm wide carrier tape: 0906-1 & 0906-2 1,200 parts per reel. 0906-3 & 0906-4 600 parts per reel. See page 28.3 for Tape & Reel details



Basic Part Number	Length A
0906-1	.177
0906-2	.197
0906-3	.217
0906-4	.236
*0906-8	.155

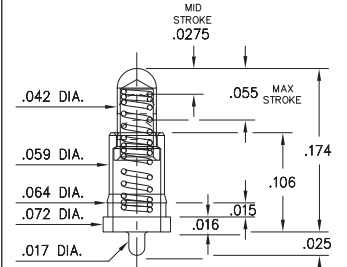
*0906-8 has a .0195 Mid. Stroke & .039 Max. Stroke

Also available with insulated sleeve, See page 19.5

0930

0930-0-15-20-7X-14-11-0

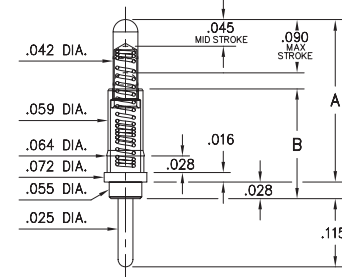
Solder mount in .020 min. mounting hole. Also available on carrier tape: 1,500 parts per 13" reel. See page 28.5 for Tape & Reel details



0914

0914-X-15-20-77-14-11-0

Long stroke Solder mount in .029 min. mounting hole

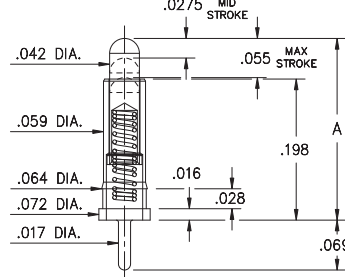


Basic Part Number	Length A	Length B
0914-0	.274	.185
0914-1	.304	.242
0914-2	.334	.272
0914-3	.364	.302

0908-0 → 9

0908-X-15-20-7X-14-11-0

Standard stroke Solder mount in .020 min. mounting hole

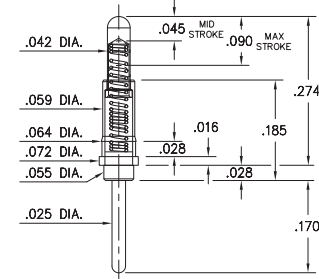


Basic Part Number	Length A
0908-0	.255
0908-1	.275
0908-2	.295
0908-3	.315
0908-4	.335
0908-5	.350
0908-6	.370
0908-7	.390
0908-8	.410
0908-9	.430

0932

0932-0-15-20-77-14-11-0

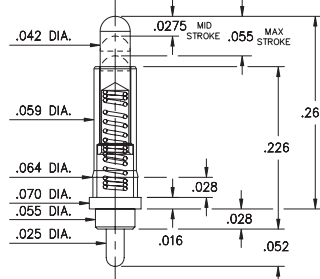
Long stroke Solder mount in .029 min. mounting hole



0901

0901-0-15-20-7X-14-11-0

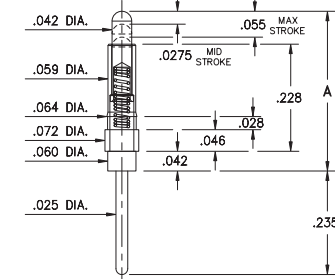
"Legacy P/N 0901-0-00-00-00-00-11-0" Solder mount in .029 min. mounting hole



0929

0929-X-15-20-7X-14-11-0

Standard stroke Solder mount in .029 min. mounting hole



Basic Part Number	Length A
0929-0	.340
0929-7	.480

Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
 Diameters: ± .002
 Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range: -55/+125° C (discontinuous)

75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g
77	.045	.090	60 g	25 g



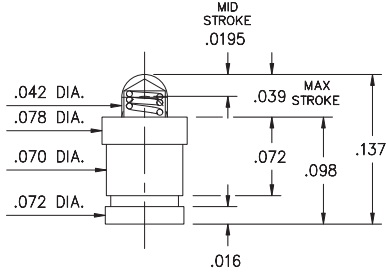
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

0910-0

0910-0-57-20-76-14-11-0

Short stroke, Surface mount
Packaged on 16mm wide carrier tape: 2,000 parts per 13" reel
See page 28.5 for Tape & Reel details

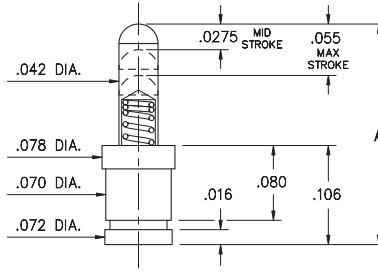


0910-1↔4

72 or 75

0910-X-57-20-7X-14-11-0

Standard stroke, Surface mount
Packaged on carrier tape. See chart for tape width & qty. per reel
See page 28.5 for Tape & Reel details



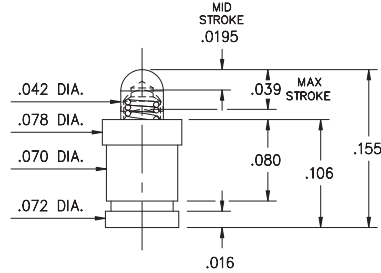
Basic Part Number	Length A
0910-1	.177
0910-2	.197
0910-3	.217
0910-4	.236

Basic Part Number	Tape Width	Quantity per Reel
0910-1	16mm	1,500
0910-2	24mm	1,100
0910-3	24mm	1,100
0910-4	24mm	1,100

0910-8

0910-8-57-20-76-14-11-0

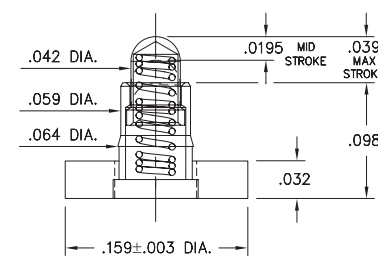
Short stroke, Surface mount
Packaged on 16mm wide carrier tape: 1,800 parts per 13" reel
See page 28.5 for Tape & Reel details



0990-0

0990-0-50-20-76-14-11-0

Short stroke, Surface mount, Large base
Also available on 16mm wide carrier tape: 2,150 parts per 13" reel
See page 28.4 for Tape & Reel details

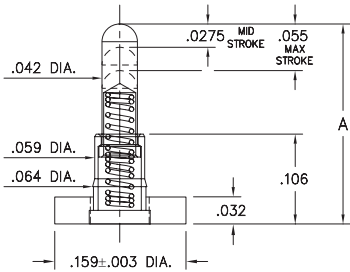


0990-1↔4

72 or 75

0990-X-50-20-7X-14-11-0

Standard stroke, Surface mount, Large base
Also available on 16mm wide carrier tape: 850 parts per 13" reel
ONLY 0990-4 currently available. See page 28.4 for Tape & Reel details



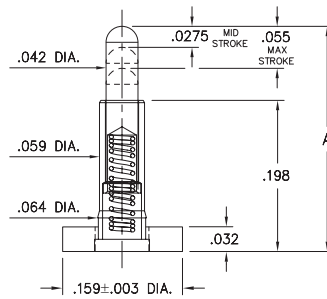
Basic Part Number	Length A
0990-1	.177
0990-2	.197
0990-3	.217
0990-4	.236

0997-0↔9

72 or 75

0997-X-50-20-7X-14-11-0

Standard stroke, Surface mount, Large base, Mid profile



Basic Part Number	Length A
0997-0	.255
0997-1	.275
0997-2	.295
0997-3	.315
0997-4	.335
0997-5	.350
0997-6	.370
0997-7	.390
0997-8	.410
0997-9	.430

Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
Diameters: ± .002
Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range:
-55/+125° C (discontinuous)

75, 76 Springs are not interchangeable

Order Code: 09XX - X - XX - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g



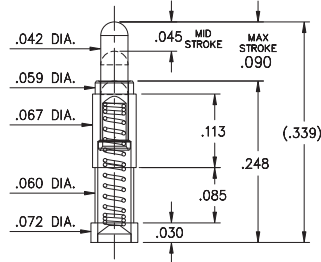
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

7966-0

7966-0-15-20-77-14-11-0

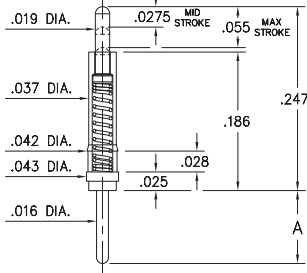
Long stroke, Surface mount. Also available in HSMT connector series: 1,450 parts per 13" reel. Order as: 810-22-0XX-40-005191



0985

0985-X-15-20-71-14-11-0

Standard stroke
Solder mount in .019 min. mounting hole



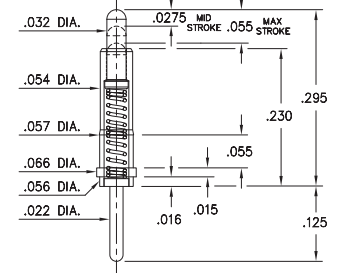
Basic Part Number	Length A
0985-0	.103
0985-1	.150
0985-2	.190

** Durability: Up to 100,000 cycles

7911

7911-0-15-20-86-14-11-0

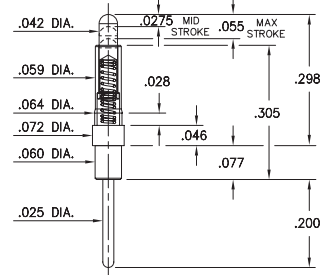
Standard stroke, suitable for 2mm spacing
* Stainless steel spring



0922

0922-0-15-20-7X-14-11-0

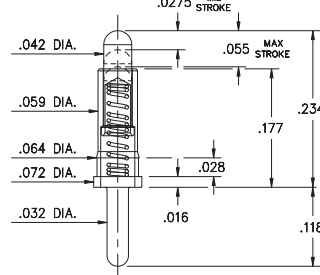
Standard stroke
Solder mount in .029 min. mounting hole



0956

0956-0-15-20-7X-14-11-0

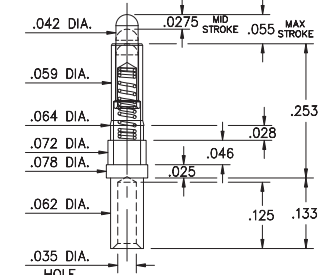
Standard stroke
Solder mount in .035 min. mounting hole



0962

0962-0-15-20-7X-14-11-0

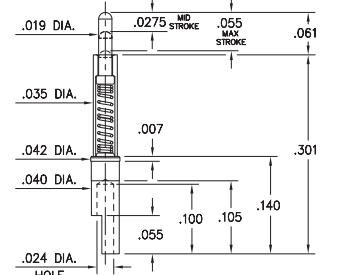
Standard stroke, Wire crimp termination
for wire sizes 24 AWG Max. / 28 AWG Min.



0955

0955-0-15-20-71-14-11-0

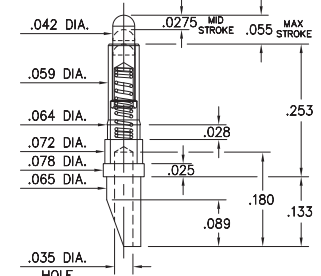
Standard stroke, Soldercup
Accepts wire sizes up to 26 AWG



0933

0933-0-15-20-7X-14-11-0

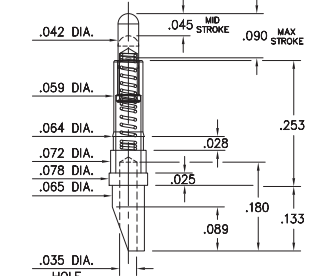
Standard stroke, Soldercup
Accepts wire sizes up to 24 AWG



0947

0947-0-15-20-77-14-11-0

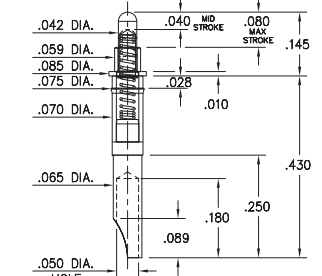
Long stroke, Soldercup
Accepts wire sizes up to 24 AWG



0973

0973-0-15-20-77-14-11-0

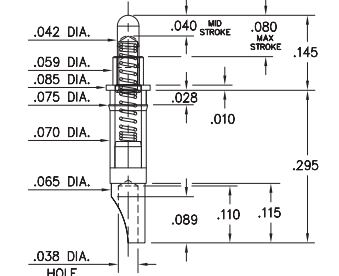
Long stroke, Soldercup
Accepts wire sizes up to 20 AWG



7973

7973-0-15-20-77-14-11-0

Long stroke, Soldercup
Accepts wire sizes up to 22 AWG



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
 Diameters: ± .002
 Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles **
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range:
 -55/+125° C (discontinuous)
71, 75, 77, 86 Springs are not interchangeable

Order Code: X9XX - X - 15 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
71	.0275	.055	60 g	15 g
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
77	.045	.090	60 g	25 g
* 86	.0275	.055	100 g	25 g



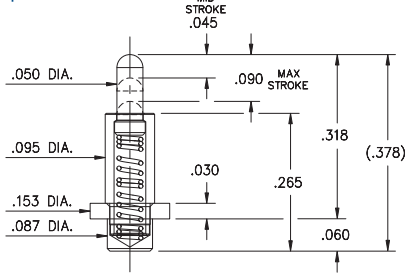
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • POWER SPRING PINS

0851

0851-0-15-20-82-14-11-0

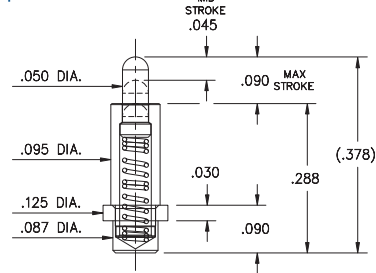
Solder Mount in .090 min. mounting hole or Surface Mount, .087" Ø minimum pad
Also available on 24mm wide carrier tape: 540 parts per 13" reel
See page 28.6 for Tape & Reel details



0853

0853-0-15-20-82-14-11-0

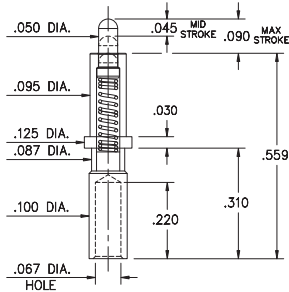
Solder Mount in .090 min. mounting hole or Surface Mount, .087" Ø minimum pad
Also available on 24mm wide carrier tape: 500 parts per 13" reel
See page 28.6 for Tape & Reel details



0855

0855-0-15-20-82-14-11-0

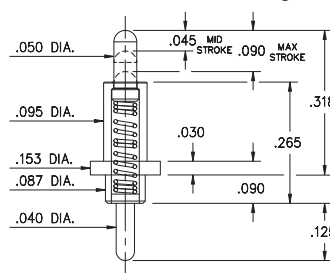
Power spring pin, Wire crimp termination for wire sizes 16 AWG Max. / 20 AWG Min.



0856

0856-0-15-20-82-14-11-0

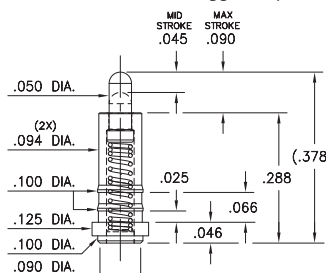
Power spring pin
Solder Mount in .045 min. mounting hole



0859

0859-0-15-20-82-14-11-0

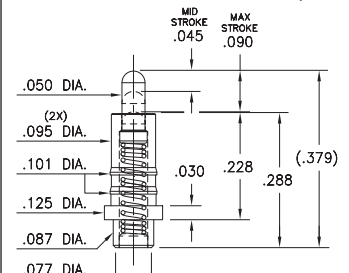
Power spring pin
Surface Mount, .100" Ø suggested pad size



0873

0873-0-15-20-82-14-11-0

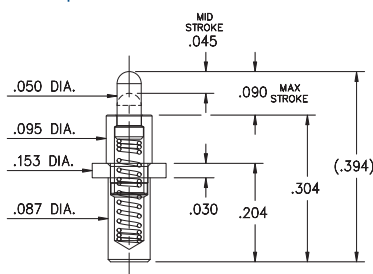
Solder Mount in .090 min. mounting hole or Surface Mount, .087" Ø minimum pad



0850

0850-0-15-20-83-14-11-0

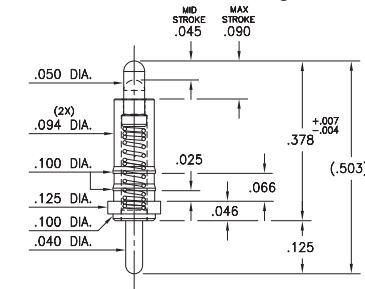
Power spring pin, Solder Mount in .090 min. mounting hole
Also available on 32mm wide carrier tape: 500 parts per 13" reel
See page 28.6 for Tape & Reel details



0858

0858-0-15-20-82-14-11-0

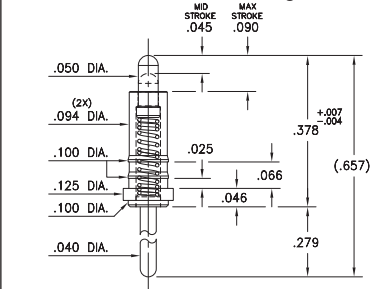
Power spring pin
Solder Mount in .045 min. mounting hole



0878

0878-0-15-20-82-14-11-0

Power spring pin
Solder Mount in .045 min. mounting hole



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Stainless Steel 302
Sleeve & Plunger Finish: 20 µ" Gold over Nickel
Spring Finish: 10 µ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
Diameters: ± .002
Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Rated Current (Free air):
Continuous 9 amps @ 10° C temperature rise
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range:
-55/+125° C (discontinuous)

82, 83, Springs are not interchangeable

Order Code: 08XX - X - XX - 20 - 8X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
82	.045	.090	120 g	25 g
83	.045	.090	120 g	25 g



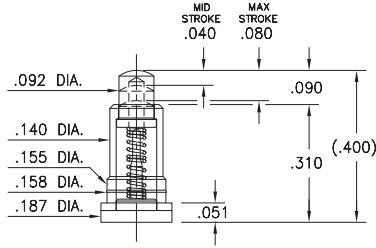
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • POWER SPRING PINS

0871

0871-0-15-20-82-14-11-0

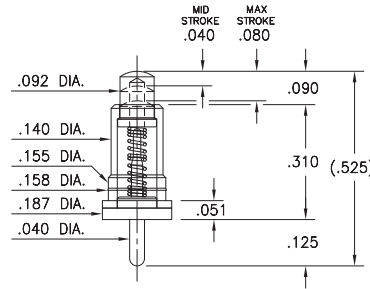
Long stroke, Surface mount *Force @ Mid. Stroke 100g
Also available on 24mm wide carrier tape: 330 parts per 13" reel
See page 28.6 for Tape & Reel details



0861

0861-0-15-20-82-14-11-0

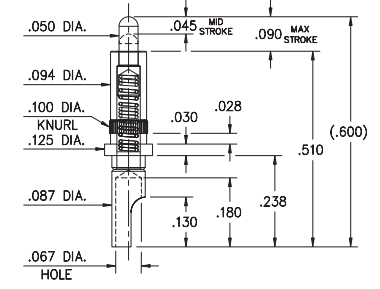
Solder Mount in .043 min. mounting hole
*Force @ Mid. Stroke 100g



0868

0868-0-15-20-82-14-11-0

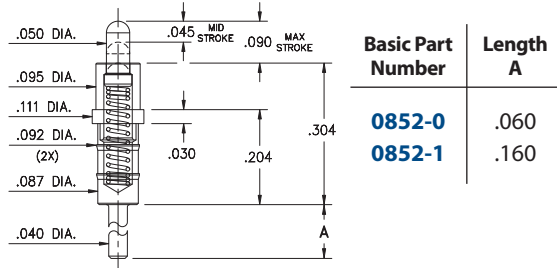
Long stroke, Soldercup
Accepts wire sizes up to 16 AWG



0852

0852-X-15-20-83-14-11-0

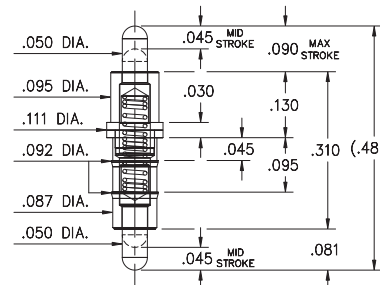
Power spring pin, Solder mount in .045 min. mounting hole
Also available on 44mm wide carrier tape: 425 parts per 13" reel
See page 28.6 for Tape & Reel details



0880

0880-1-15-20-82-14-11-0

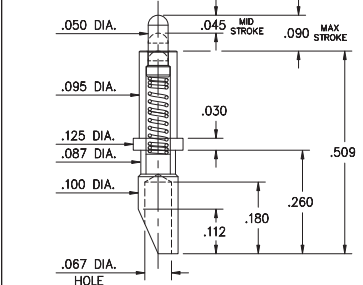
Double action, .090 Max. combined stroke
Mount between parallel circuit boards



0854

0854-0-15-20-82-14-11-0

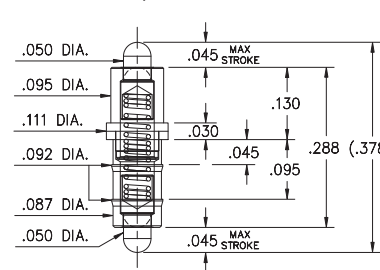
Power spring pin, Soldercup
Accepts wire sizes up to .057" Dia.



0881

0881-1-15-20-82-14-11-0

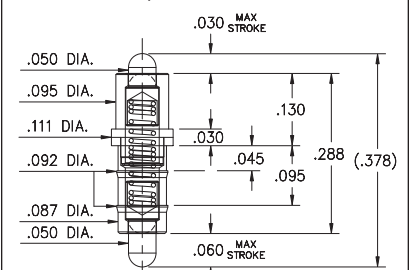
Double action, .090 Max. combined stroke
Mount between parallel circuit boards



0881

0881-2-15-20-82-14-11-0

Double action, .090 Max. combined stroke
Mount between parallel circuit boards



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Stainless Steel 302
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ±.006
Diameters: ±.002
Angles: ±2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Rated Current (Free air):
Continuous 9 amps @ 10° C temperature rise
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range:
-55/+125° C (discontinuous)

Springs are not interchangeable

Order Code: 08XX - X - XX - 20 - 8X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
82	.045	.090	120 g	25 g
83	.045	.090	120 g	25 g



SPRING-LOADED PINS

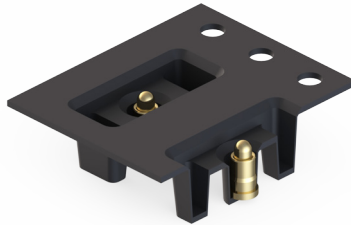
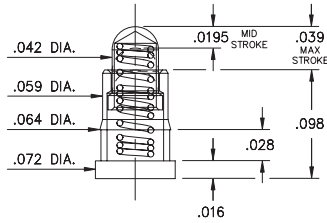
SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0900-0

0900-0-57-20-76-14-11-0

Short stroke, Surface mount

16mm wide carrier tape: 2,000 parts per 13" reel.

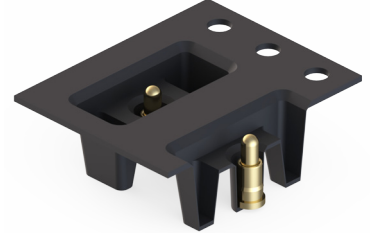
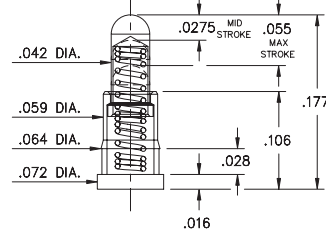


0900-1

0900-1-57-20-7X-14-11-0

Standard stroke, Surface mount

16mm wide carrier tape: 1,500 parts per 13" reel.

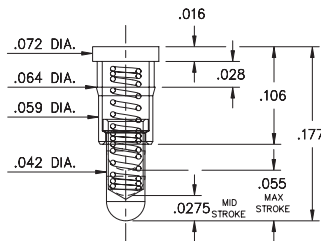


0900-1

0900-1-59-20-7X-14-11-0

Standard stroke, Surface mount

16mm wide carrier tape: 1,700 parts per 13" reel.

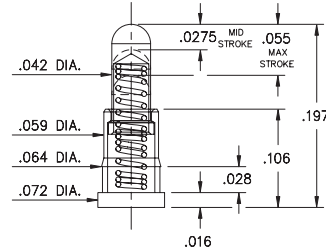


0900-2

0900-2-57-20-7X-14-11-0

Standard stroke, Surface mount

24mm wide carrier tape: 1,100 parts per 13" reel.

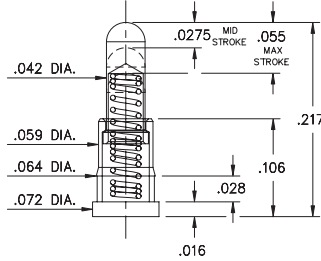


0900-3

0900-3-57-20-7X-14-11-0

Standard stroke, Surface mount

24mm wide carrier tape: 1,100 parts per 13" reel.

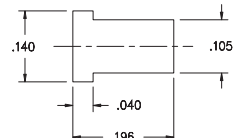
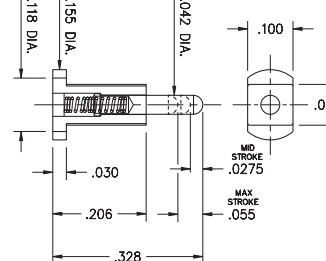


0967

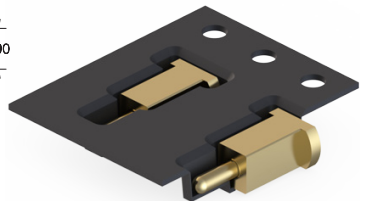
0967-0-58-20-7X-14-11-0

Standard stroke, Horizontal surface mount

16mm wide carrier tape: 2,800 parts per 13" reel.



P.C.B. Layout



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: Beryllium Copper

Sleeve & Plunger Finish: 20 μ" Gold over Nickel

Spring Finish: 10 μ" Gold over Nickel

Dimensions: Inches

Tolerances On: Lengths: ±.006

Diameters: ±.002

Angles: ±2°



Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125°C

75, 76 Springs are NOT interchangeable

72, 75 Springs are interchangeable

Order Code: 09XX - X - 5X - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g



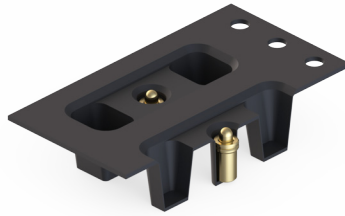
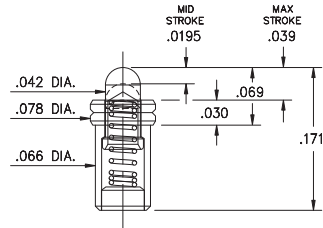
SPRING-LOADED PINS

SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0921-0

0921-0-57-20-76-14-11-0

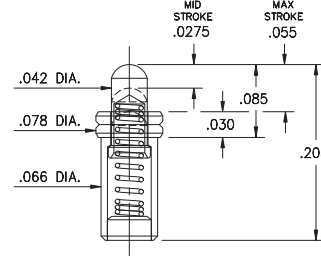
Ultra low profile, Short stroke. Solder mount in .070 min. mounting hole
24mm wide carrier tape; 1,700 parts per 13" reel



0921-1

0921-1-57-20-7X-14-11-0

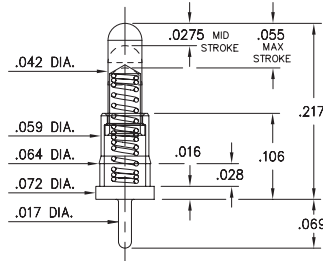
Low profile, Standard stroke. Solder mount in .070 min. mounting hole
24mm wide carrier tape; 1,500 parts per 13" reel



0906-3

0906-3-57-20-7X-14-11-0

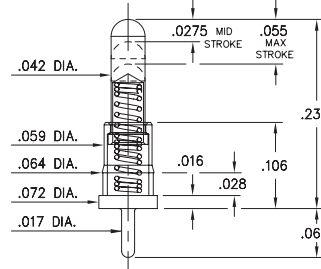
Standard stroke, Solder mount in .020 min mounting hole
24mm wide carrier tape; 600 parts per 13" reel.



0906-4

0906-4-57-20-7X-14-11-0

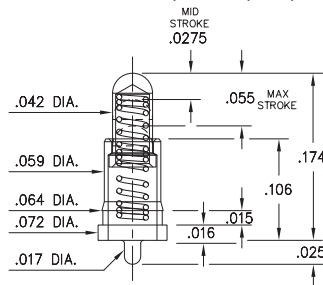
Standard stroke, Solder mount in .020 min mounting hole
24mm wide carrier tape; 600 parts per 13" reel.



0930

0930-0-57-20-7X-14-11-0

Standard stroke, Solder mount in .020" min. mounting hole
24mm wide carrier tape; 1,500 parts per 13" reel



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
 Diameters: ± .002
 Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range:
 -55/+125° C (discontinuous)

75, 76 Springs are NOT interchangeable
72, 75 Springs are interchangeable

Order Code: 09XX - X - 57 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g



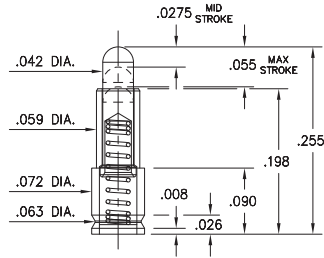
SPRING-LOADED PINS

SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0977

0977-0-57-20-7X-14-11-0

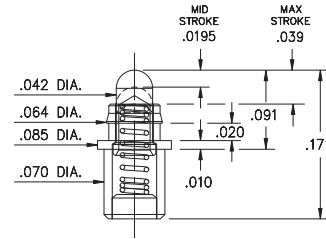
Standard stroke, Surface mount
24mm wide carrier tape: 1,100 parts per 13" reel



0926-0

0926-0-57-20-76-14-11-0

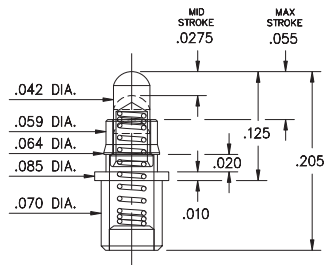
Low Profile, Short Stroke. Solder mount in .074 min. mounting hole:
16mm wide carrier tape: 1,700 parts per 13" reel.



0926-1

0926-1-57-20-7X-14-11-0

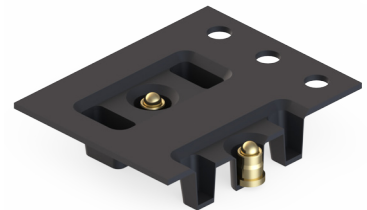
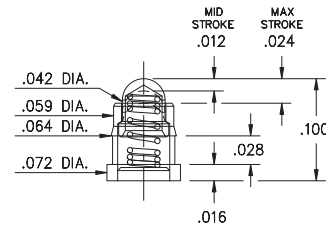
Low profile, Standard stroke. Solder mount in .074 min. mounting hole
24mm wide carrier tape: 1,450 parts per 13" reel



0965

0965-0-57-20-80-14-11-0

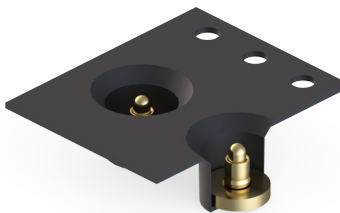
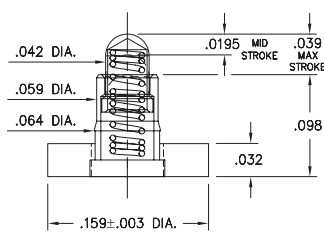
Ultra low profile, Surface mount, * Stainless steel spring
16mm wide carrier tape: 3,000 parts per 13" reel



0990-0

0990-0-57-20-76-14-11-0

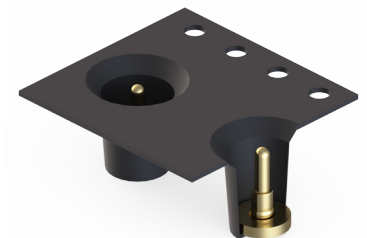
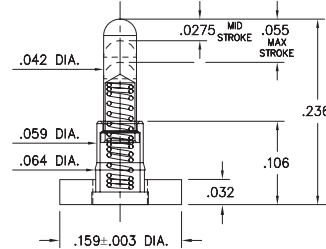
Short stroke, Surface mount, Large base
16mm wide carrier tape: 2,150 parts per 13" reel.



0990-4

0990-4-57-20-7X-14-11-0

Standard stroke, Surface mount, Large base
16mm wide carrier tape: 850 parts per 13" reel.



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ±.006
Diameters: ±.002
Angles: ±2°



Mechanical & Electrical Specifications:

Durability: Up to 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range:
-55/+125° C (discontinuous)

75, 76, 80 Springs are NOT interchangeable
72, 75 Springs are interchangeable

Order Code: 09XX - X - 57 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g
*80	.012	.024	115 g	25 g



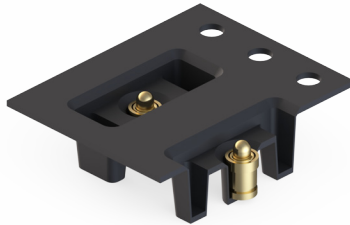
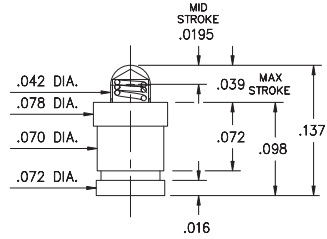
SPRING-LOADED PINS

SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0910-0

0910-0-57-20-76-14-11-0

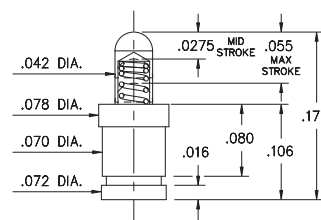
Short stroke, Surface mount
16mm wide carrier tape: 2,000 parts per 13" reel



0910-1

0910-1-57-20-7X-14-11-0

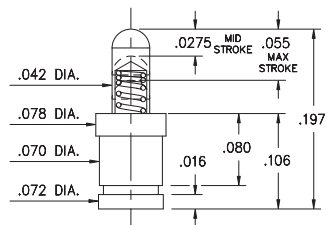
Standard stroke, Surface mount
16mm wide carrier tape: 1,500 parts per 13" reel



0910-2

0910-2-57-20-7X-14-11-0

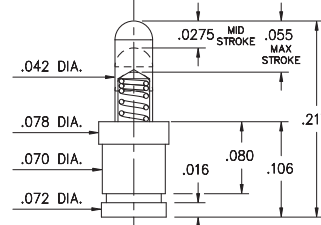
Standard stroke, Surface mount
24mm wide carrier tape: 1,100 parts per 13" reel



0910-3

0910-3-57-20-7X-14-11-0

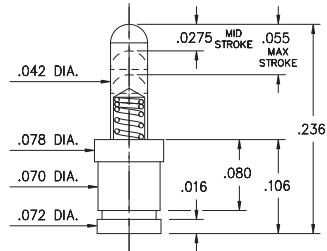
Standard stroke, Surface mount
24mm wide carrier tape: 1,100 parts per 13" reel



0910-4

0910-4-57-20-7X-14-11-0

Standard stroke, Surface mount
24mm wide carrier tape: 1,100 parts per 13" reel



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ± .006
Diameters: ± .002
Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range: -55/+125° C
75, 76 Springs are NOT interchangeable
72, 75 Springs are interchangeable

Order Code: 09XX - X - 57 - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
72	.0275	.055	35 g	15 g
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g



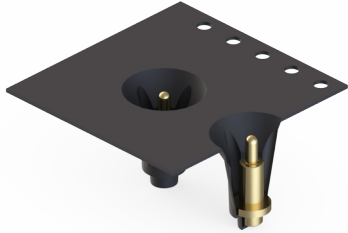
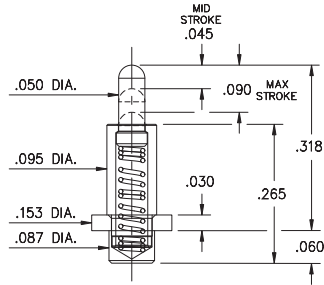
SPRING-LOADED PINS

SPRING-LOADED PINS ON TAPE & REEL PACKAGING

0851

0851-0-57-20-82-14-11-0

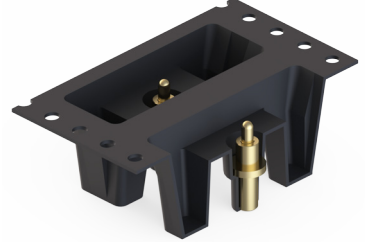
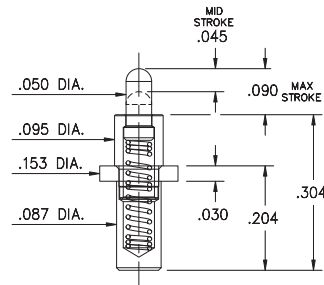
Solder Mount in .090 min. mounting hole or Surface Mount, .087" Ø minimum pad
24mm wide carrier tape: 540 parts per 13" reel



0850

0850-0-57-20-83-14-11-0

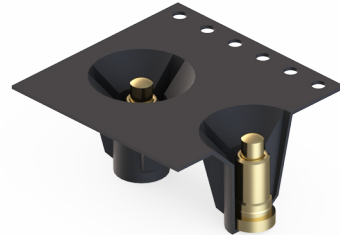
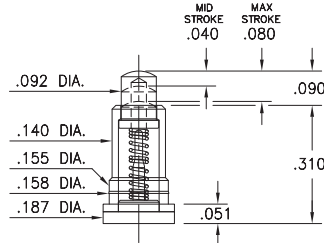
Power spring pin, Solder Mount in .090 min. mounting hole
32mm wide carrier tape: 500 parts per 13" reel



0871

0871-0-57-20-82-14-11-0

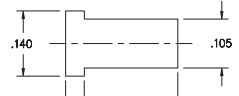
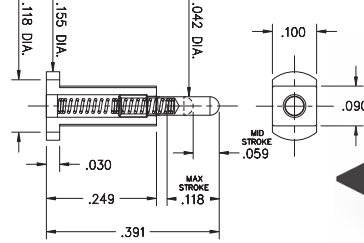
Long stroke, Surface mount *Force @ Mid. Stroke 100g
24mm wide carrier tape: 330 parts per 13" reel



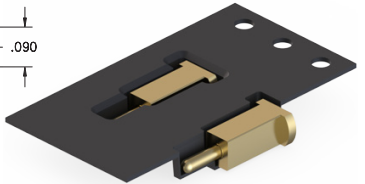
0987

0987-0-58-20-89-14-11-0

Long stroke, Horizontal surface mount
24mm wide carrier tape: 2,800 parts per 13" reel.



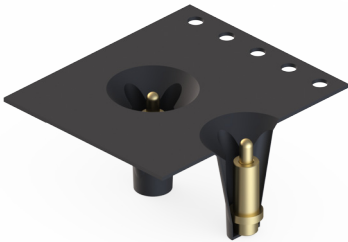
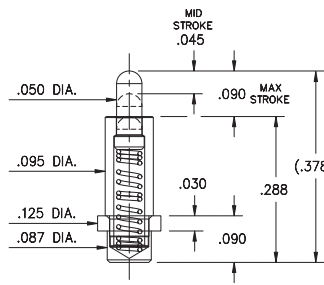
P.C.B. Layout



0853

0853-0-57-20-82-14-11-0

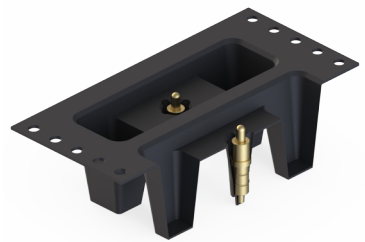
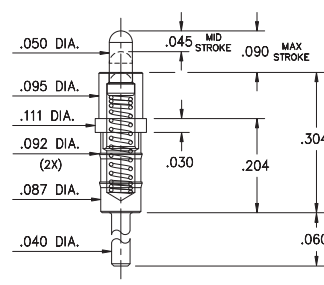
Solder Mount in .090 min. mounting hole or Surface Mount, .087" Ø minimum pad
24mm wide carrier tape: 500 parts per 13" reel



0852

0852-0-57-20-83-14-11-0

Power spring pin, Solder Mount in .045 min. mounting hole
44mm wide carrier tape: 425 parts per 13" reel



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Stainless Steel 302
Sleeve & Plunger Finish: 20 μ" Gold over Nickel
Spring Finish: 10 μ" Gold over Nickel
Dimensions: Inches
Tolerances On: Lengths: ±.006
 Diameters: ±.002
 Angles: ±2°



Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range: -55/+125° C

82, 83, 89 Springs are not interchangeable

Order Code: 08XX - 0 - 5X - 20 - 8X - 14 - 11 - 0

Spring Number

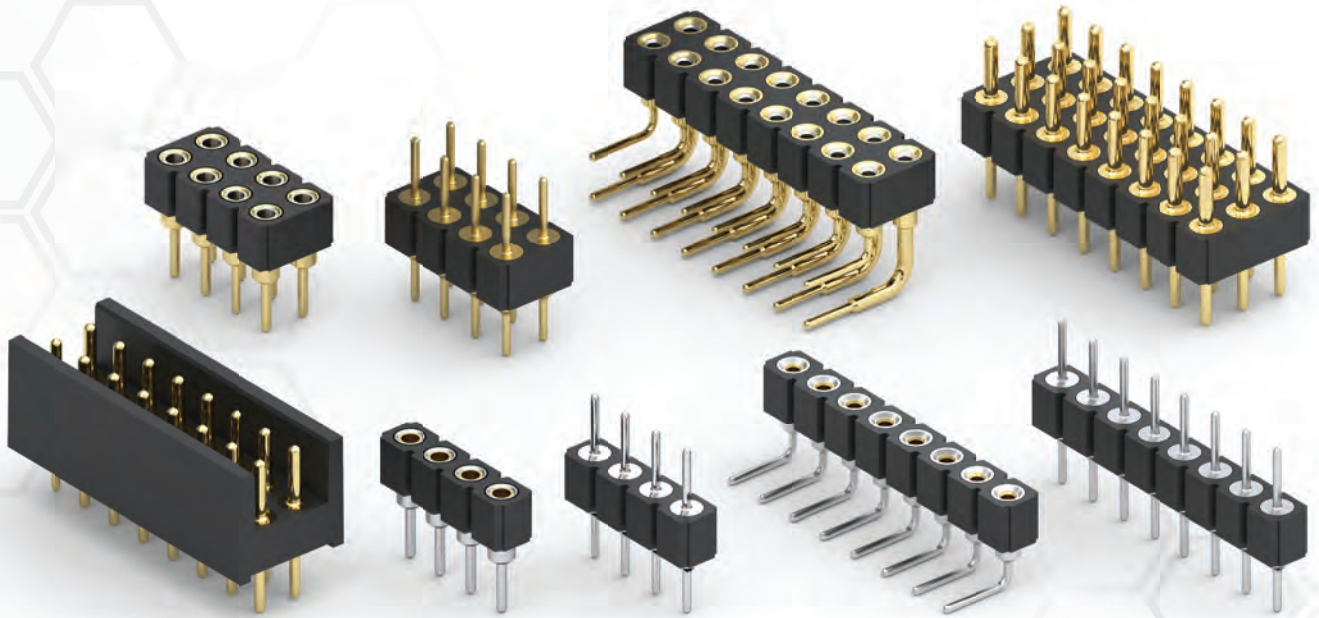
Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
82	.045	.090	120 g	25 g
83	.045	.090	120 g	25 g
89	.059	.118	85 g	25 g





WWW.MILL-MAX.COM

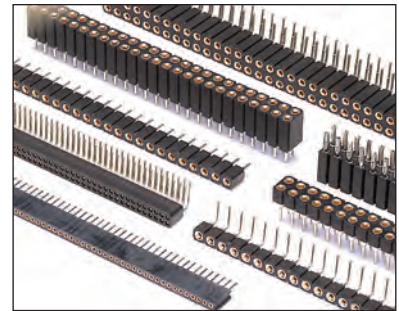
BOARD-TO-BOARD INTERCONNECTS





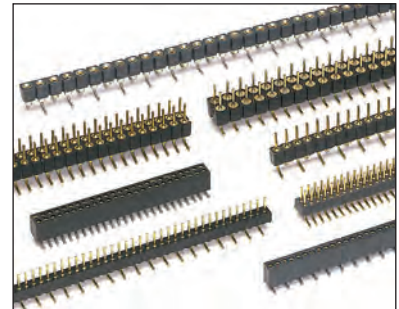
WWW.MILL-MAX.COM

MILL-MAX HEADER AND SOCKET INTERCONNECTS OFFER AN IDEAL SOLUTION TO THE BOARD-TO-BOARD INTERCONNECT CHALLENGES THAT DESIGN ENGINEERS FACE EVERY DAY. We offer a variety of options to accommodate everything from space-saving, fine-pitch requirements, to larger, more robust applications in which products are subjected to harsh environments including significant shock and vibration. By mating different combinations of headers and sockets, a wide range of board-to-board spacing can be achieved.



MILL-MAX CONNECTORS ARE AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

- Pluggable using a mating socket and header
- Permanent by soldering a through-hole header to both boards
- Fine pitch from 2mm down to 1mm pin-to-pin spacing
- Surface mount headers and sockets
- Right angle
- Multiple board stacking using Organic Fiber Plug® pass-through sockets
- Horizontal "Z-Bend" SMT
- Wire Termination: Soldercup, Turret, Slotted
- Solderless Press-fit



CUSTOM INSULATORS

NEED A SOCKET OR HEADER IN A UNIQUE CONFIGURATION?

Mill-Max can manufacture custom insulators to your exacting specifications, saving you money for high volume runs.

When your product's in high demand, the most cost-effective way to produce a custom connector insulator is to mold it. Mill-Max can mold* insulators out of PCT, Nylon, PPS or LCP, depending on the environmental, mechanical, electrical and thermal requirements of your application.

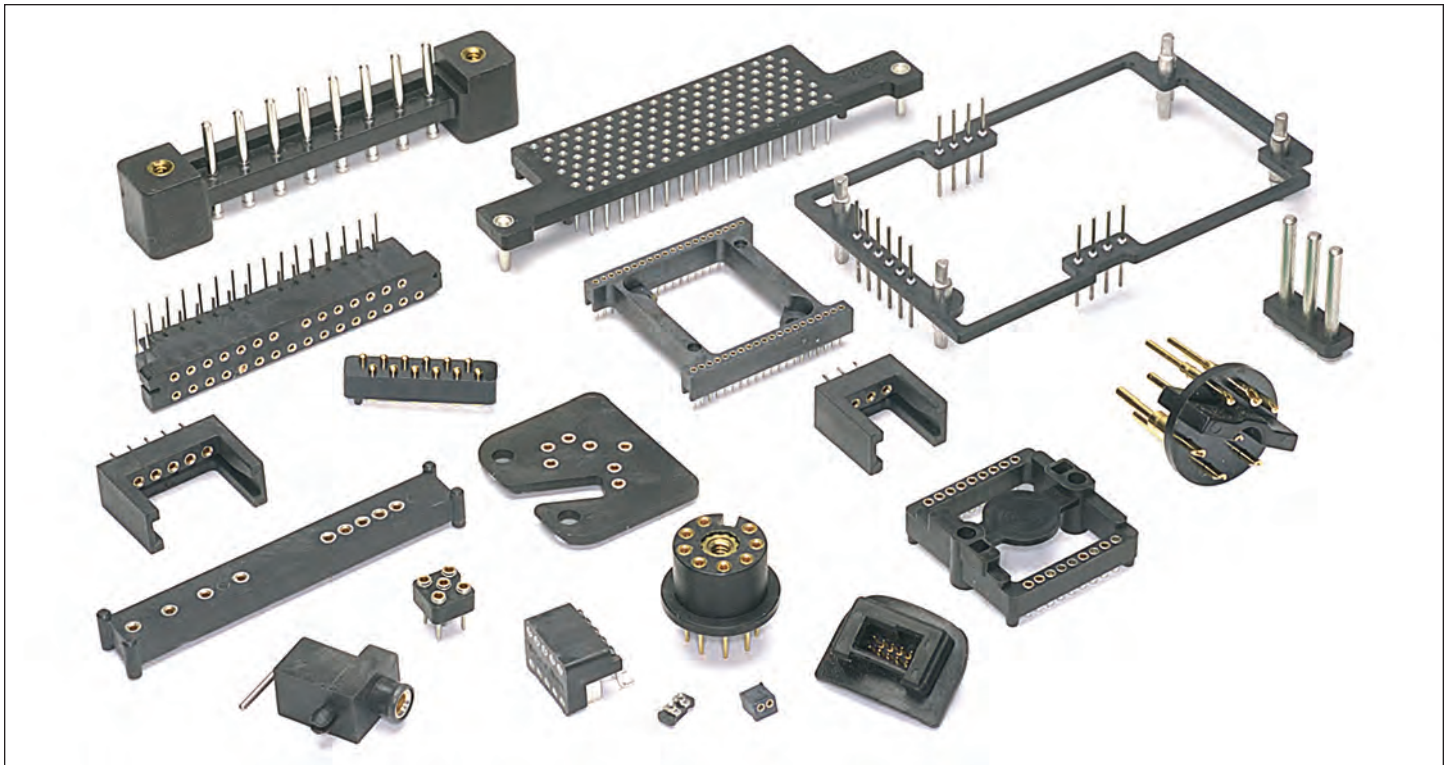
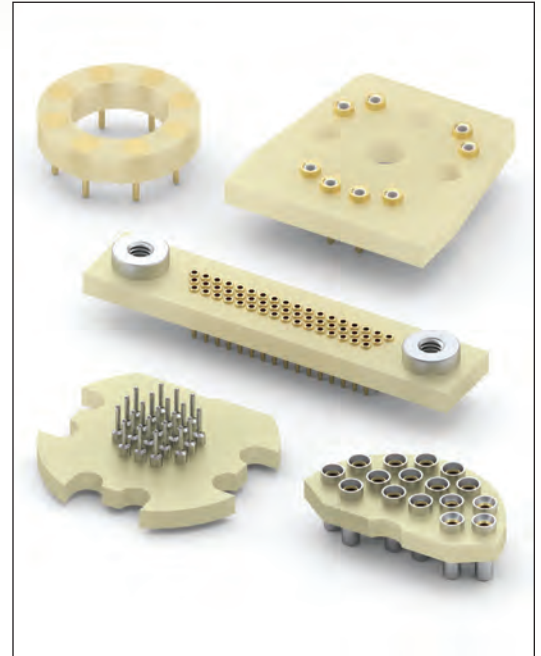
If you have a high-volume connector application, Mill-Max can provide a superior molded insulator solution that will keep your costs in check.

In addition, Mill-Max's utilization of FR-4 epoxy material, in combination with standard pins/receptacles, makes this kind of customization a quick and efficient process for both prototype and volume production.

FR-4 insulators offered in standard thicknesses of .020", .031", .047", .062", .093" and .125" are best suited for single plane designs. Mill-Max can turn around a socket, header or spring pin connector typically in 2-4 weeks or less! (Provided that a standard receptacle or pin with a press-fit feature is used.)

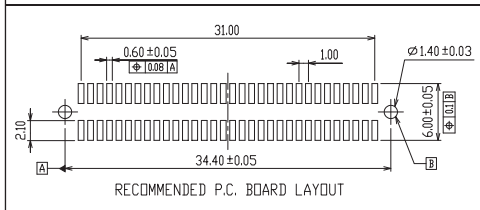
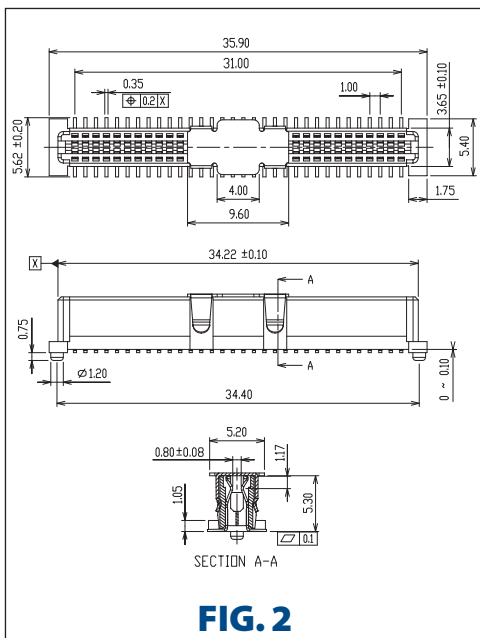
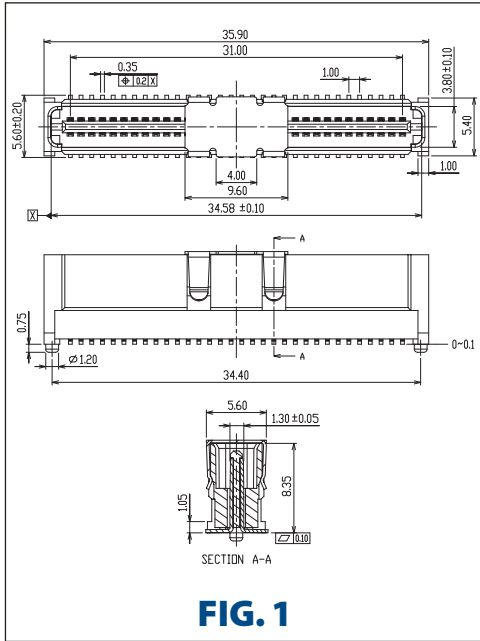
Please contact us with your custom application by completing our Custom Product Worksheet on page 247.

* A one-time partial tooling charge is assessed in order to cover the costs associated with building a custom mold tool.

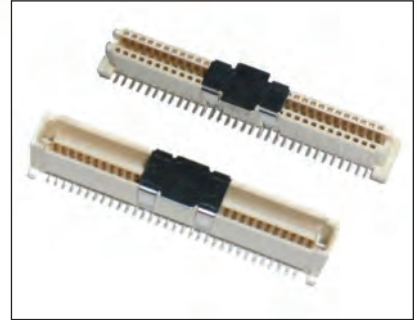


INTERCONNECTS

SERIES 891 & 893 • 1mm GRID SURFACE MOUNT • MALE AND FEMALE CONNECTORS



- 64 Position Mezzanine Connectors for board stacking
- 1 mm Centerline high density packaging
- Mated connector board stacking height of 10 mm
- Conforms to EIA-700 AAAB for IEEE 1386 applications
- Tape & Reel packaged per EIA-783 (56 mm wide; 16 mm pitch)
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 891...120 1mm Surface Mount Male Connector
	891-10-064-30-120000 Tape and Reel Packaging: 400 Parts per 13" reel
FIG. 2	Series 893...420 1mm Surface Mount Female Connector
	893-43-064-30-420000 Tape and Reel Packaging: 600 Parts per 13" reel

Technical Specifications

Materials:

Terminals and Contacts: Phosphor Bronze
 Plating: Contact area - 30 μ" Gold over Nickel
 Solder Terminals - 75 μ" Tin over Nickel
 Vacuum Cap: Stainless Steel
 Insulator Material: High temperature glass filled LCP, rated UL 94V-0



Ratings:

Current: (30° C Temperature Rise): 0.5 A max., all circuits wired in series (1.0A max., five adjacent circuits wired in series)
 Voltage: 250V AC (RMS) (contact to contact)
 Operating Temperature Range: -55° C - +85° C

Electrical:

Contact resistance: 30mΩ max.
 Insulation resistance: 1,000 MΩ min.
 Dielectric Withstanding Voltage: 250V AC for one minute @ sea level

Mechanical:

Vibration: No discontinuity > 1 ms per MIL-STD 202, Method 201
 Physical Shock: No discontinuity > 1 μs per EIA 364-27 Test Condition H
 Durability: 100 cycles min. per EIA 364-09
 Mating Force: 60 g/terminal max. per EIA 364-13
 Separation Force: 23 g/terminal min. per EIA 364-13
 Contact Retention Force: .4Kg min. per EIA 364-35

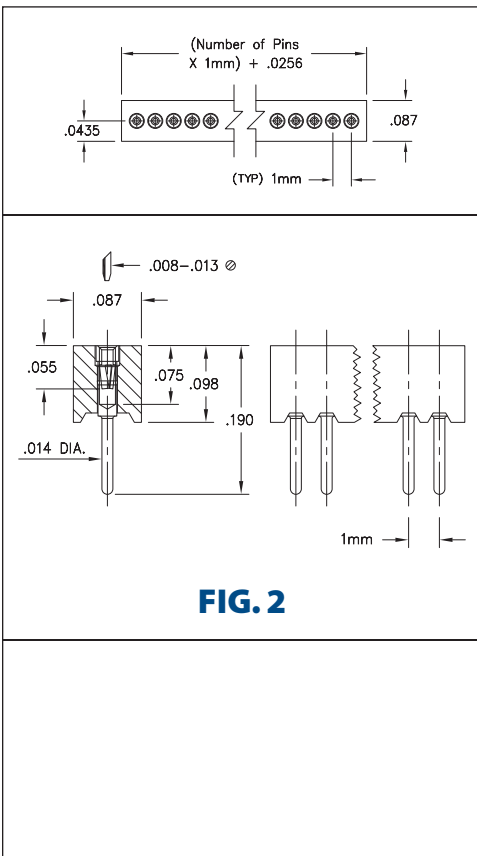
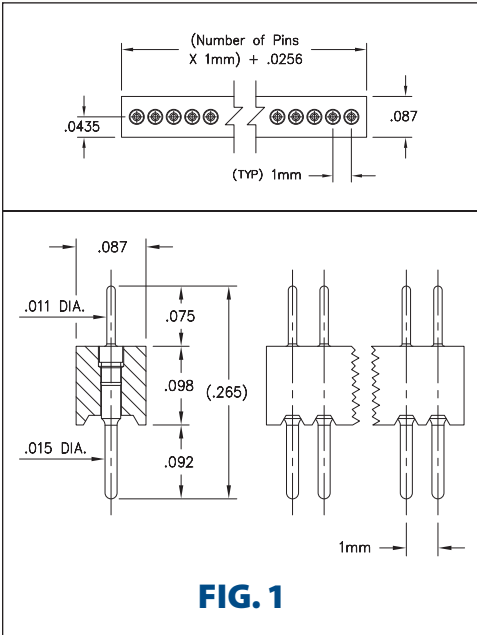
Environmental:

Thermal Shock: Per EIA 364-32, Test Condition I
 Humidity: Test conditions - Ambient temp. 40±2°C; Relative humidity: 90 - 95%; Duration: 96 Hrs.
 Post Humidity Inspection - 1. No damage
 2. Contact resistance change < 15 mΩ
 3. Insulation Resistance: 100 MΩ min.
 Solderability: Per EIA 364-52 Category 2

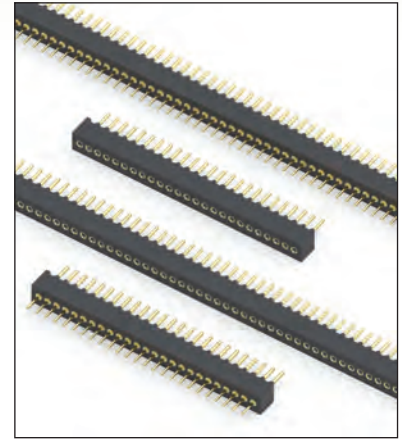


INTERCONNECTS

SERIES 860 & 861 • 1mm GRID HEADERS AND SOCKETS • SINGLE ROW STRIPS



- Series 860 headers and Series 861 sockets are single row, 1mm pitch interconnects rated at 2 amps
- Series 860 headers have .011" diameter solder tails and .011" diameter pluggable pins (MM #3039) See page 208 for details
- Series 861 sockets have .014" diameter solder tails (MM #0439). See page 156 for details
- Both 860 headers and 861 sockets are available in 2-50 position strips
- The header and socket provide a mated height of .196" for board stacking applications
- Insulators are high temperature thermoplastic, suitable for most soldering processes, and feature standoffs to promote solder flow



ORDERING INFORMATION

FIG. 1	Series 860...002		Single Row 1mm Header			
		860-10-0		-10-002000		
	Specify number of pins		02-50			
	SPECIFY PLATING CODE XX=	10				
	Pin Plating	10 μ" Au				
FIG. 2	Series 861...002		Single Row 1mm Socket			
		861-13-0		-10-002000		
	Specify number of pins		02-50			
	SPECIFY PLATING CODE XX=	13				
	Sleeve (Pin)	10 μ" Au				
	Contact (Clip)	30 μ" Au				

INTERCONNECTS

SERIES 850, 851, 852, 853 • .050" GRID HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

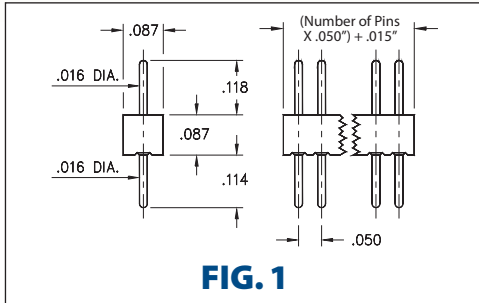


FIG. 1

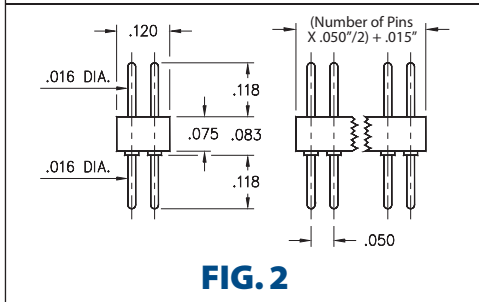


FIG. 2

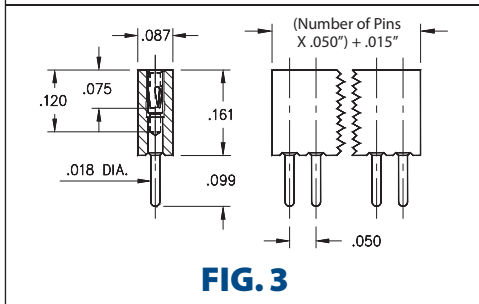


FIG. 3

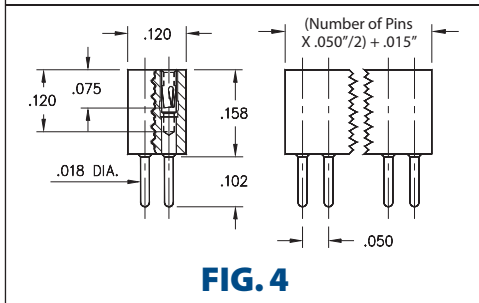


FIG. 4

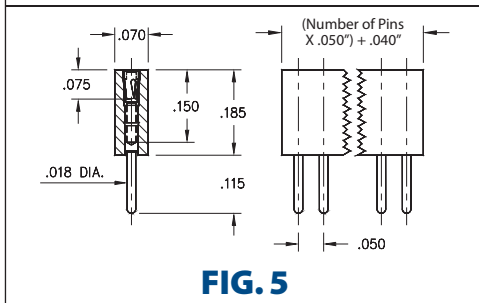
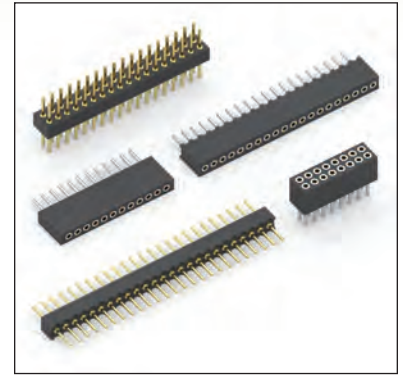
















FIG. 5

- Series 850, 851, 852, 853 single and double row interconnects have .050" pin spacing and permit board stacking as low as .248"
- Pin headers have .016" dia. pins (MM #4006-0) See page 208 for details
- MM #0467 and MM #4890 receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. (#11 contact accepts pin diameters from .015"-.020"). See pages 158 and 160 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



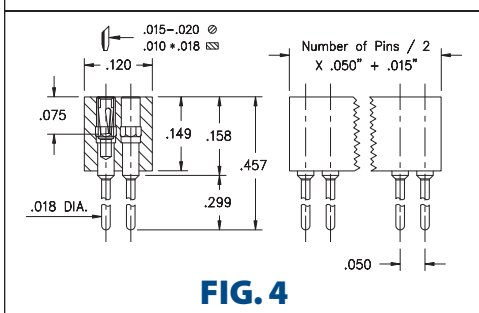
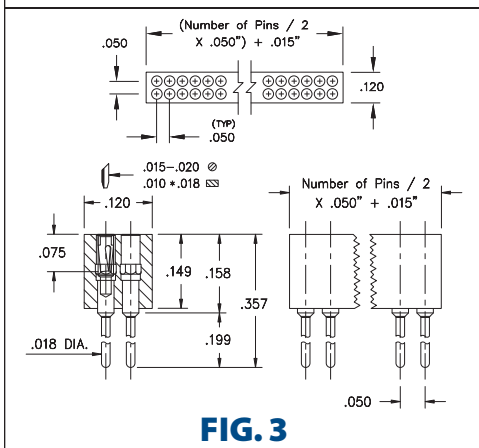
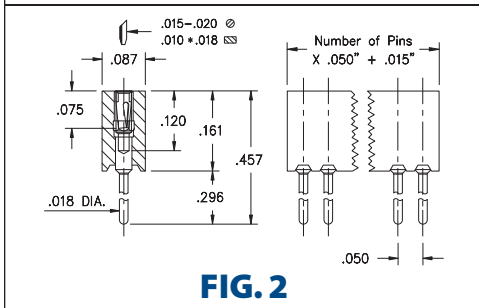
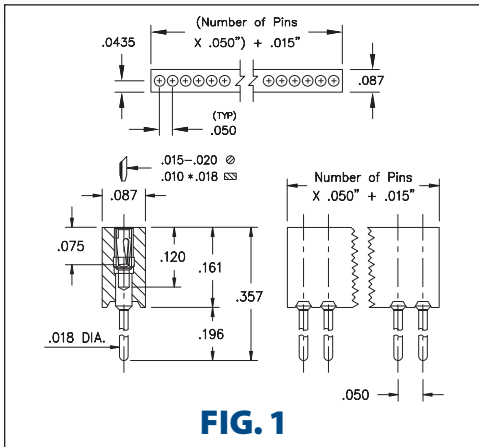
ORDERING INFORMATION

FIG. 1	Series 850...001	Single Row .087" Profile Pin Header					
	850-XX-0__-10-001000	Specify number of pins \uparrow 01-50					
FIG. 2	Series 852...001	Double Row .083" Profile Pin Header					
	852-XX-__-10-001000	Specify number of pins \uparrow 004-100					
							
SPECIFY PLATING CODE XX=		10 	90	40 			
Pin Plating 		10 μ " Au	200 μ " Sn/Pb	200 μ " Sn			
FIG. 3	Series 851...001	Single Row .161" Profile Socket					
	851-XX-0__-10-001000	Specify number of pins \uparrow 01-50					
FIG. 4	Series 853...001	Double Row .161" Profile Socket					
	853-XX-__-10-001000	Specify number of pins \uparrow 004-100					
FIG. 5	Series 851...002	Single Row .185" Profile Socket					
	851-XX-0__-10-002000	Specify number of pins \uparrow 01-77					
							
SPECIFY PLATING CODE XX=		91	93	99	41 	43 	47 
Sleeve (Pin) 		200 μ " Sn/Pb	200 μ " Sn/Pb	200 μ " Sn/Pb	200 μ " Sn	200 μ " Sn	200 μ " Sn
Contact (Clip) 		10 μ " Au	30 μ " Au	100 μ " Sn/Pb	10 μ " Au	30 μ " Au	Au Flash

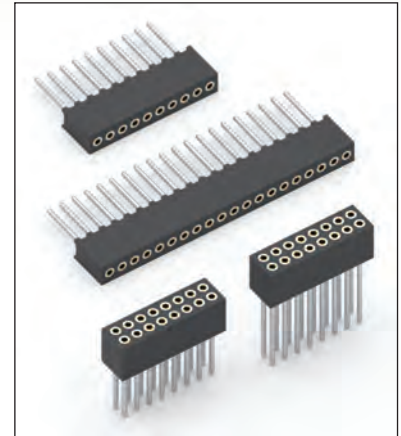


INTERCONNECTS

SERIES 851 & 853 • .050" GRID LONG TAIL SOCKETS • SINGLE AND DOUBLE ROW STRIPS



- Series 851...011 and 853...011 use MM #4890-1 pins. See page 160 for details
- Series 851...021 and 853...021 use MM #4890-2 pins. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. (#11 contact accepts pin diameters from .015"-.020"). See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 851...011	Single Row Socket
FIG. 1	851-XX-0	-10-011000 Specify number of pins 01-50
FIG. 2	Series 851...021	Single Row Socket
FIG. 3	851-XX-0	-10-021000 Specify number of pins 01-50
FIG. 4	Series 853...011	Double Row Socket
	853-XX-	-10-011000 Specify number of pins 004-100
	Series 853...021	Double Row Socket
	853-XX-	-10-021000 Specify number of pins 004-100
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid green; padding: 5px; color: green; font-weight: bold;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; font-size: small;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)		41 43
Contact (Clip)		200 μ" Sn 200 μ" Sn 10 μ" Au 30 μ" Au

INTERCONNECTS

SERIES 850 & 851 • .050" GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE ROW STRIPS

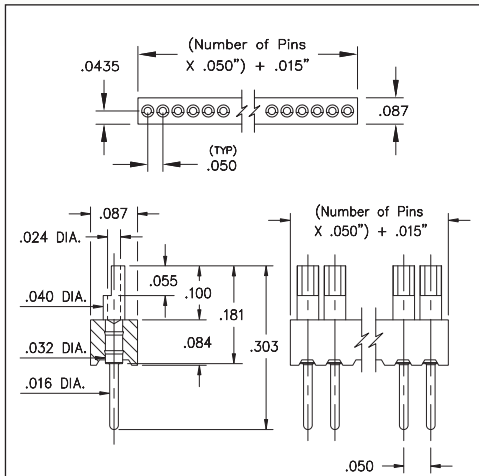


FIG. 1

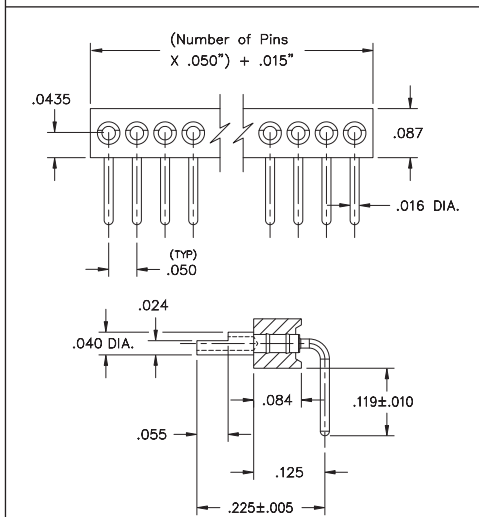


FIG. 2

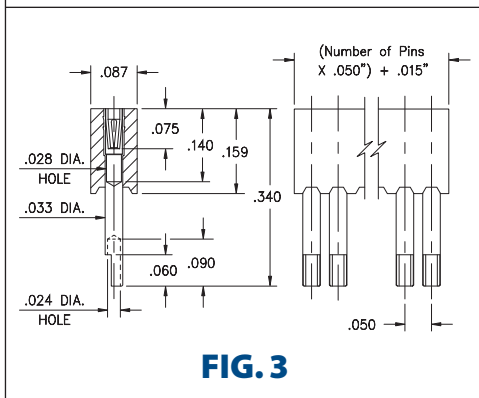
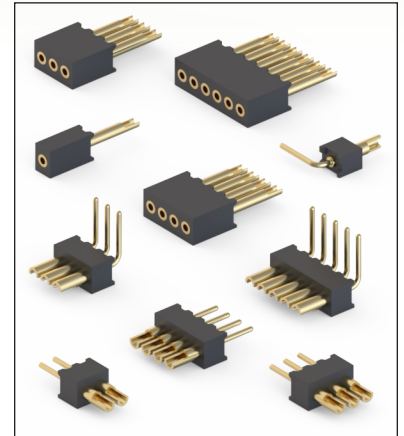


FIG. 3

- Solder cups are pre-aligned and accept up to 26 AWG wire
- Series 850 headers use MM #3050-0 pins. See page 244 for details
- Series 851 sockets use MM #1157-0 receptacles that accept pin diameters from .015"-.020". See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION






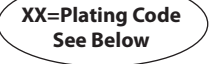
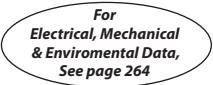


FIG. 1	Series 850...003	Single Row Solder Cup / Solder Tail				
	850-XX-0_-10-003000		Specify number of pins	10	11	12
FIG. 2	Series 850...003	Single Row Right Angle Solder Cup				
	850-XX-0_-20-003000		Specify number of pins	10	11	12
  						
SPECIFY PLATING CODE XX=			10	11	12	
Pin Plating 			10 μ" Au			

FIG. 3	Series 851...003	Single Row Solder Cup Socket				
	851-XX-_-10-003000		Specify number of pins	10	11	12
  						
SPECIFY PLATING CODE XX=			13			
Sleeve (Pin) 			10 μ" Au			
Contact (Clip) 			30 μ" Au			



INTERCONNECTS

SERIES 852 & 853 • .050" GRID SOLDER CUP HEADERS AND SOCKETS, DOUBLE ROW STRIPS

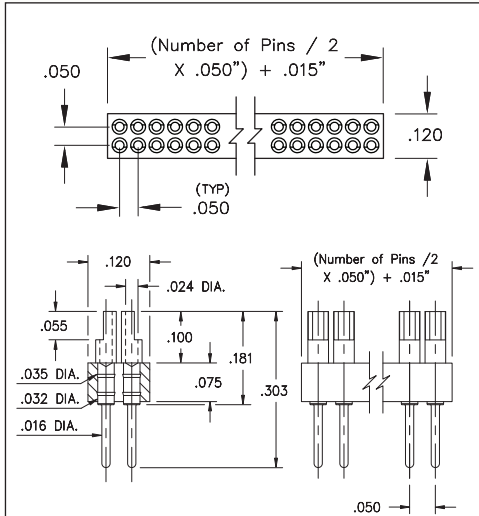


FIG. 1

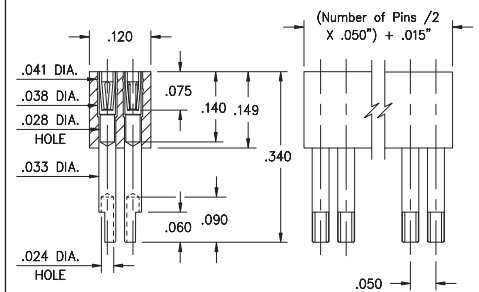
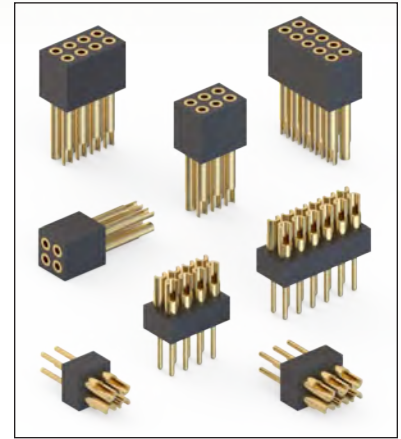


FIG. 2

- Solder cups are pre-aligned and accept up to 26 AWG wire
- Series 852 headers use MM #3050-0 pins. See page 244 for details
- Series 853 sockets use MM #1157-0 receptacles that accept pin diameters from .015"-.020". See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 852...003	Double Row Solder Cup / Solder Tail			
		852-XX-__-10-003000			
	Specify number of pins	↑	002-100		
		XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264		
	SPECIFY PLATING CODE XX=	10			
	Pin Plating	10 μ" Au			

FIG. 2	Series 853...003	Double Row Solder Cup Sockets			
		853-XX-__-10-003000			
	Specify number of pins	↑	002-100		
		XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264		
	SPECIFY PLATING CODE XX=	13			
	Sleeve (Pin)	10 μ" Au			
	Contact (Clip)	30 μ" Au			



INTERCONNECTS

SERIES 850, 851, 852, 853 • 050" GRID RIGHT ANGLE HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

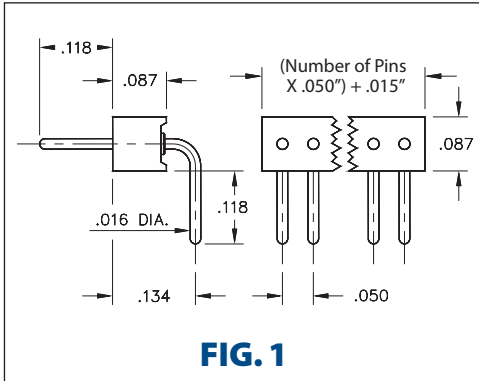


FIG. 1

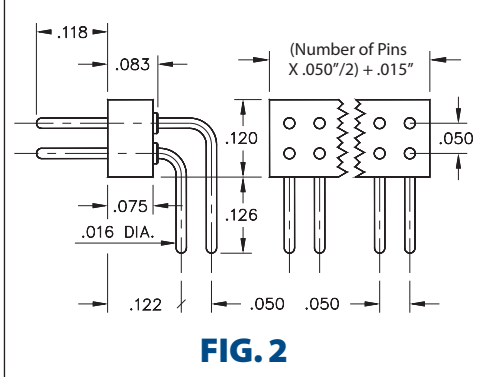


FIG. 2

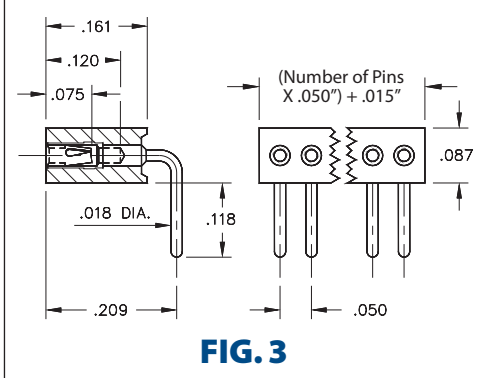


FIG. 3

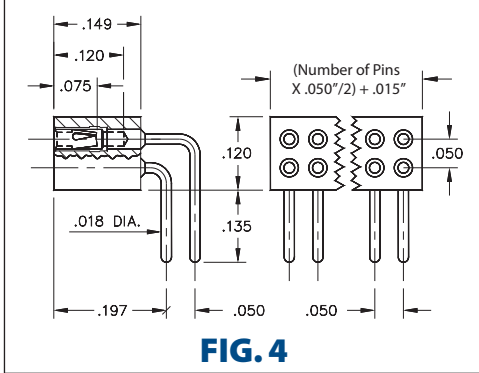
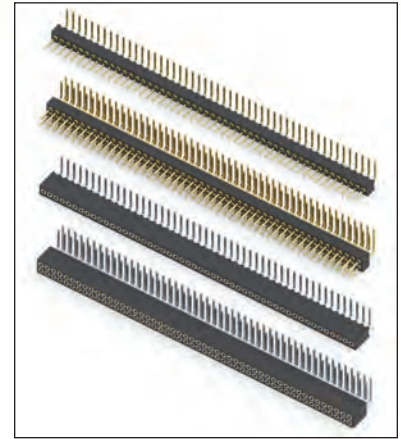


FIG. 4

- Series 850 and 851 interconnects are available in single and double row form
- Series 850 & 852 headers use MM #4006-1 and #4006-2 pins. See page 208 for details
- Series 851 & 853 sockets use MM #4890-1 and #4890-2 receptacles that accept pin diameters from .015"-.021". See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

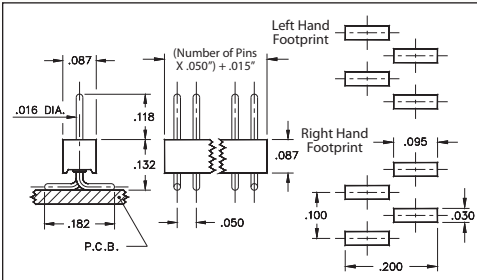
FIG. 1	Series 850...001	Single Row Right Angle Pin Header		
	850-XX-0	-20-001000	Specify number of pins 01-50	
FIG. 2	Series 852...001	Double Row Right Angle Pin Header		
	852-XX-	-20-001000	Specify number of pins 002-100	
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn

FIG. 3	Series 851...001	Single Row Right Angle Socket				
	851-XX-0	-20-001000	Specify number of pins 01-50			
FIG. 4	Series 853...001	Double Row Right Angle Socket				
	853-XX-	-20-001000	Specify number of pins 002-100			
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264						
SPECIFY PLATING CODE XX=			93	99	43	47
Sleeve (Pin)			200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn
Contact (Clip)			30 μ" Au	100 μ" Sn/Pb	30 μ" Au	Au Flash



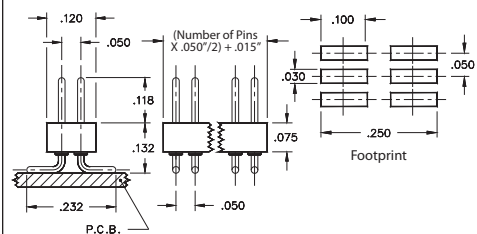
INTERCONNECTS

SERIES 850, 851, 852, 853 • .050" GRID SURFACE MOUNT HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS



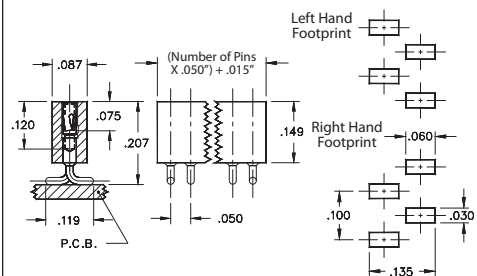
Coplanarity .005". For pin counts >20 positions, consult Technical Support.

FIG. 1



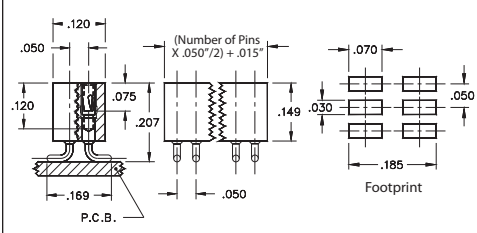
Coplanarity .005". For pin counts >40 positions, consult Technical Support.

FIG. 2



Coplanarity .005". For pin counts >20 positions, consult Technical Support.

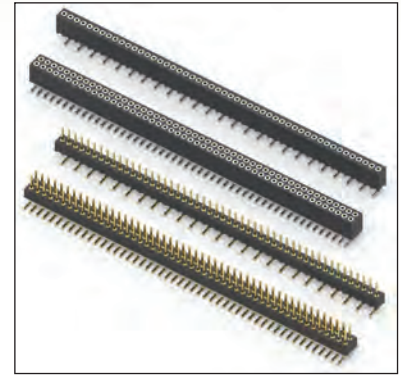
FIG. 3



Coplanarity .005". For pin counts >40 positions, consult Technical Support.

FIG. 4

- Single row interconnects having an even number of pins are now available with a left or right hand footprints
- Headers (850 and 852) use MM #4006 pins. See page 208 for details
- Sockets (851 and 853) use MM #4890-0 receptacles and accept pin diameters from .015"-.021". See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

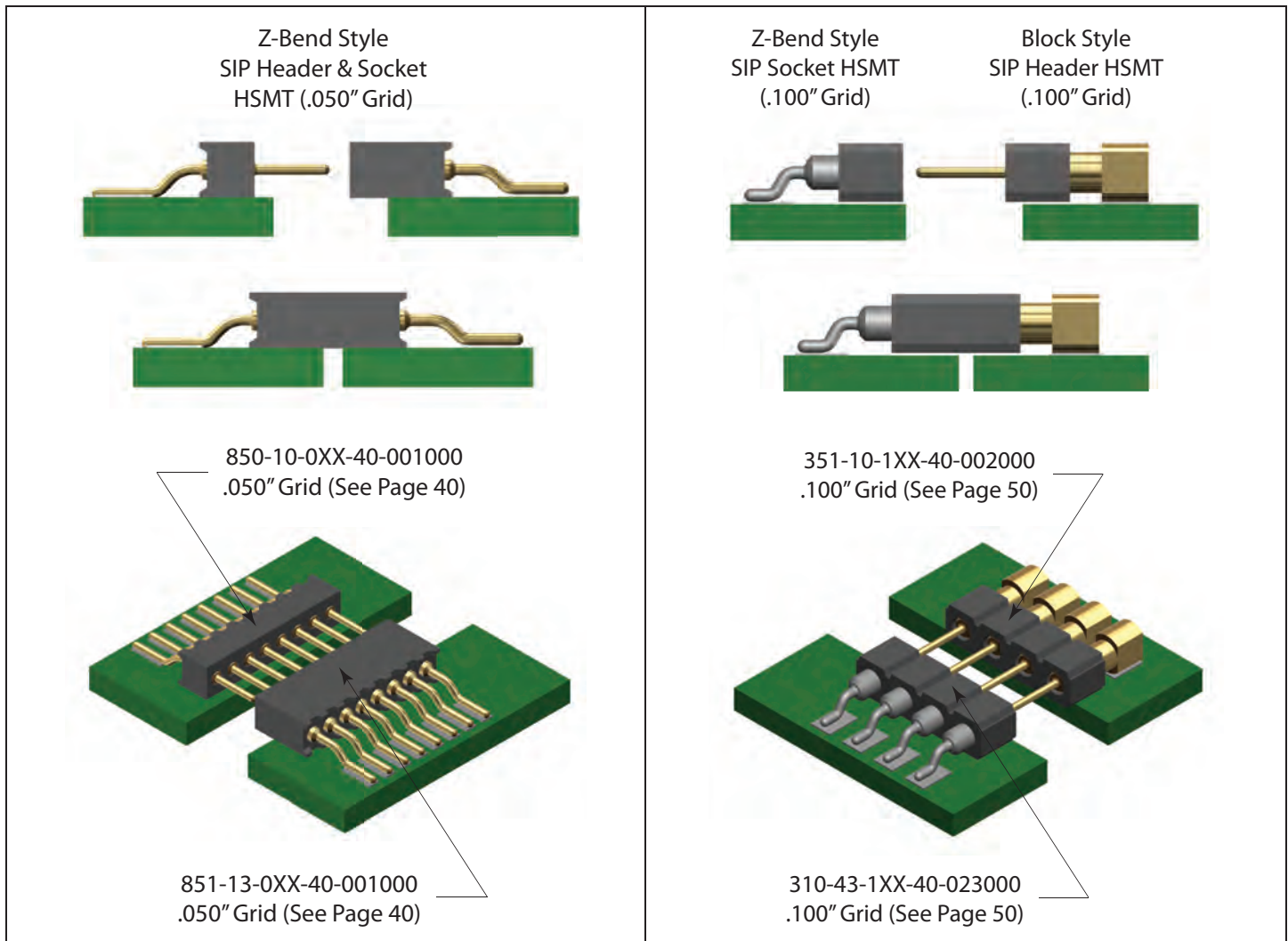
FIG. 1L	Single Row Header, Left Hand Footprint, Odd or Even # of Pins						
	850-XX-0__-30-001000 Specify number of pins ↑ 02-50						
FIG. 1R	Single Row Header, Right Hand Footprint, Even # of Pins						
	850-XX-0__-30-002000 Specify number of pins ↑ 02-50						
FIG. 2	Double Row Header, Even # of Pins						
	852-XX-__-30-001000 Specify number of pins ↑ 004-100						
SPECIFY PLATING CODE XX=		10 ◆	90	40 ◆			
Pin Plating		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn			
FIG. 3L	Single Row Socket, Left Hand Footprint, Odd or Even # of Pins						
	851-XX-0__-30-001000 Specify number of pins ★ ↑ 02-50						
FIG. 3R	Single Row Socket, Right Hand Footprint, Even # of Pins						
	851-XX-0__-30-002000 Specify number of pins ↑ 02-50						
FIG. 4	Double Row Socket, Even # of Pins						
	853-XX-__-30-001000 Specify number of pins ★ ↑ 004-100						
SPECIFY PLATING CODE XX=		91	93	99	41 ◆	43 ◆	44 ◆
Sleeve (Pin)		200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)		10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn

★ 44 Plating Non-Standard



HORIZONTAL SMT PINS & CONNECTORS

VERSATILE CONNECTORS FOR HORIZONTAL & EDGE BOARD MATING APPLICATIONS



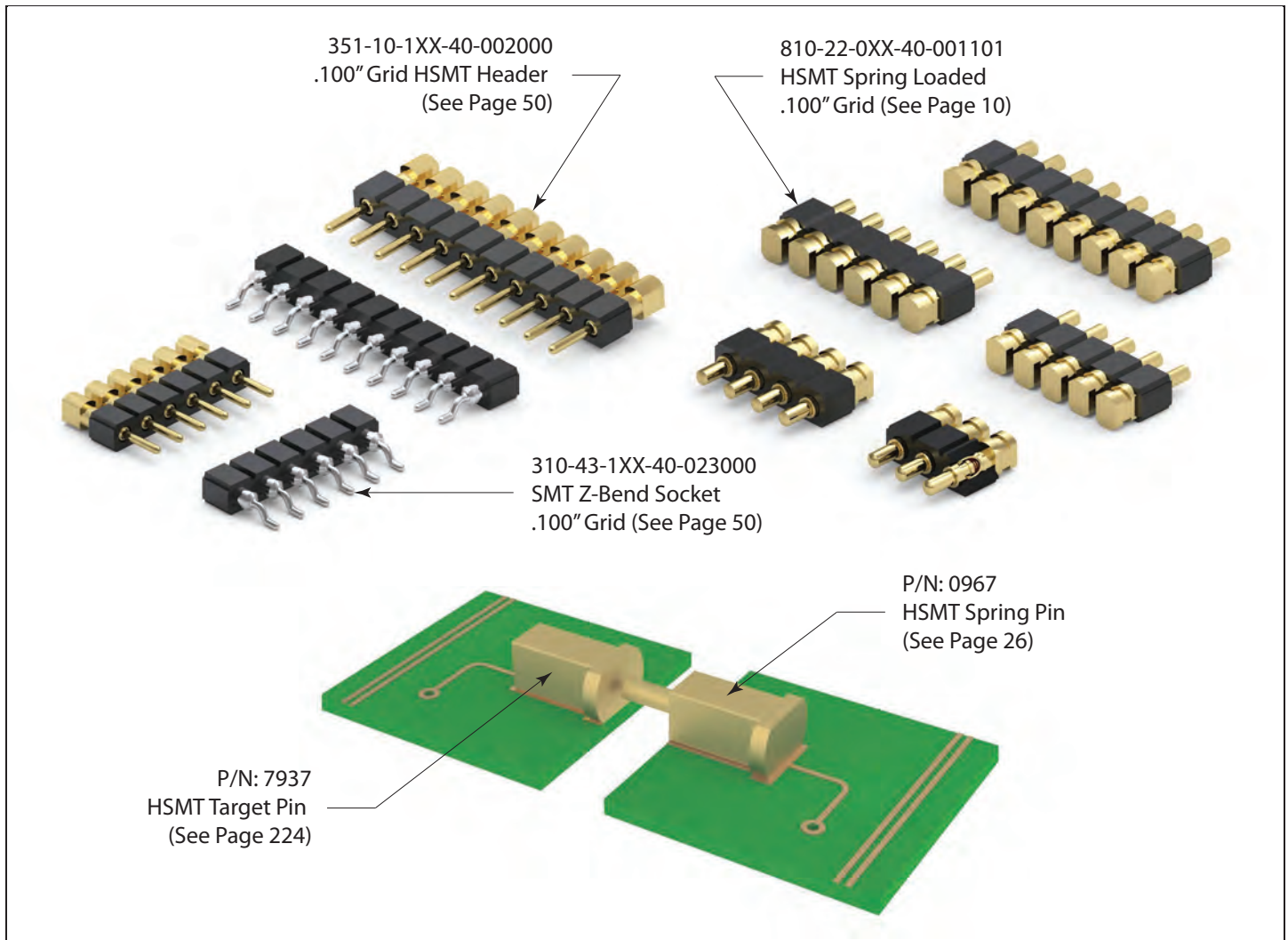
Mill-Max Mfg. offers a complete line of Horizontal Surface Mount products including headers and sockets on .050" (1,27mm) and .100" (2,54mm) grid, discrete spring-loaded and mating target pins and spring-loaded connector strips.

For low profile IO applications surface mount SIP sockets and headers strips are assembled parallel to the board surface. They are ideal for placement near the board edge for easy access test connections & creating pluggable adapter modules which can sit perpendicular to the motherboard (mated to a vertical connector), effectively conserving precious board real estate.



HORIZONTAL SMT PINS & CONNECTORS

VERSATILE CONNECTORS FOR HORIZONTAL & EDGE BOARD MATING APPLICATIONS



Mill-Max Mfg's #0967 (featured above) is a low profile, horizontal, surface mount spring pin designed for edge board interface applications: board-to-board or device-to-board. The #0967 mounts parallel to the P.C. board so that the plunger travel is horizontal to the board surface. The above board height of .100" (2,54mm) provides a low profile for tight packaging requirements. Typically mounted on the edge of the P.C. board, it can be mated with a board running perpendicular to it, or parallel P.C. boards can be daisy-chained together by using the Mill-Max Mfg. #7937 horizontal SMT target pin and #0967 on opposing boards.



INTERCONNECTS

SERIES 850 & 851 • .050" GRID HORIZONTAL SURFACE MOUNT Z-BEND HEADERS & SOCKETS • SINGLE ROW STRIPS

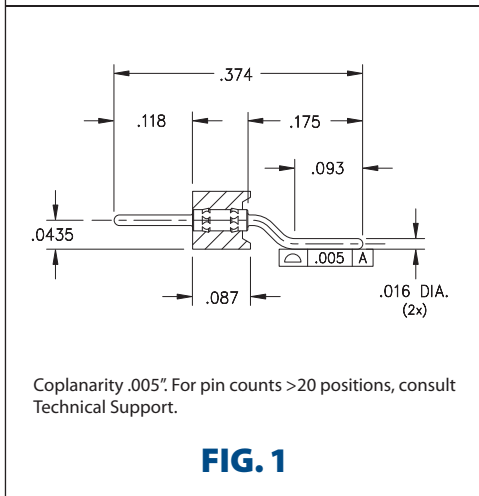
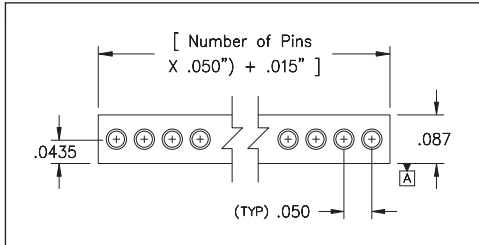


FIG. 1

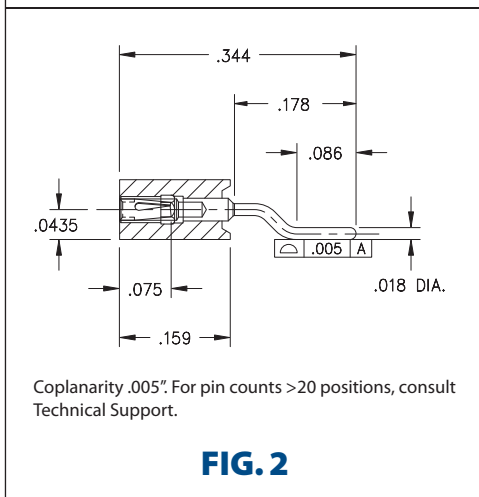
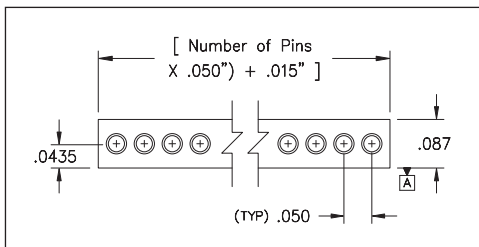
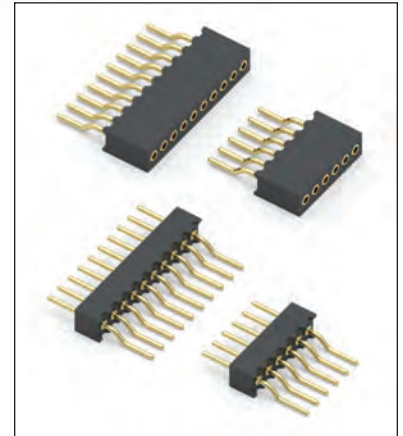


FIG. 2

- Series 850 horizontal surface mount headers have .016" dia. pluggable pins and Z-bend tails for SMT soldering to the P.C.B. (MM #4006-1). See page 208 for details
- Series 851 horizontal Surface Mount Z-Bend sockets uses MM #4890-1 receptacles that accept pin diameters from .015"-.020". See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION



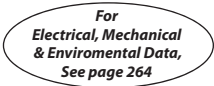



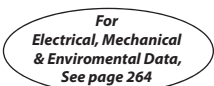


FIG. 1	Series 850...001 Single Row Surface Mount Z-Bend Header					
	850-10-0-40-001000					
	Specify number of pins		02-20			
  						
SPECIFY PLATING CODE XX=		10	◆			
Pin Plating			10 μ" Au			

FIG. 2	Series 851...001 Single Row Surface Mount Z-Bend Socket					
	851-XX-0-40-001000					
	Specify number of pins		02-20			
  						
SPECIFY PLATING CODE XX=		11	◆	13	◆	
Sleeve (Pin)			10 μ" Au	10 μ" Au		
Contact (Clip)			10 μ" Au	30 μ" Au		



INTERCONNECTS

SERIES 340 & 399 • .050" AND .100" GRID SURFACE MOUNT HEADERS & SOCKETS • SINGLE ROW STRIPS

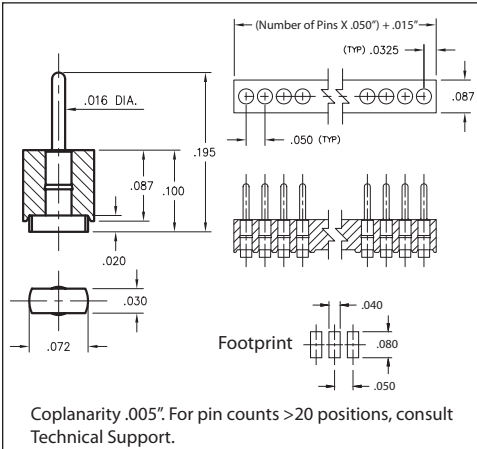


FIG. 1

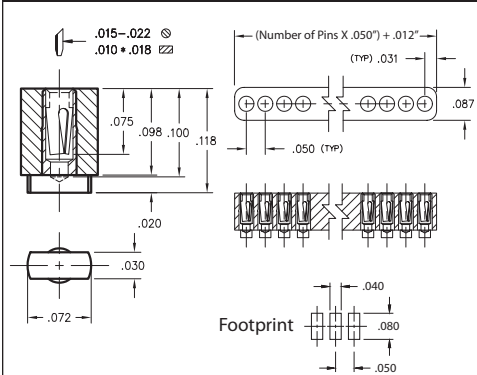


FIG. 2

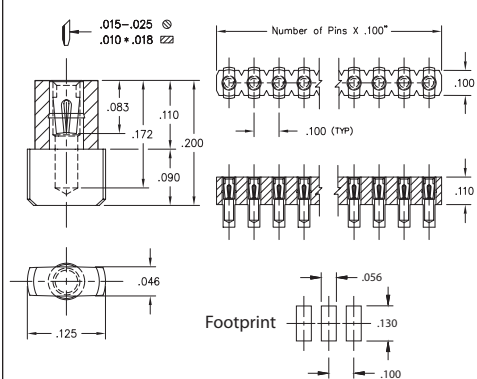


FIG. 3

- Series 340 and 399 interconnects are single row headers & sockets having unique surface mount "block" terminals
- "Block" termination makes the interconnects "self standing". This also minimizes profile and reduces the footprint compared with traditional "gullwing" designs
- Series 399 is a matched pair of .050" pitch sockets and headers with a mated height of only .218"
- Series 340 is a .100" pitch SIP socket using a Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering processes

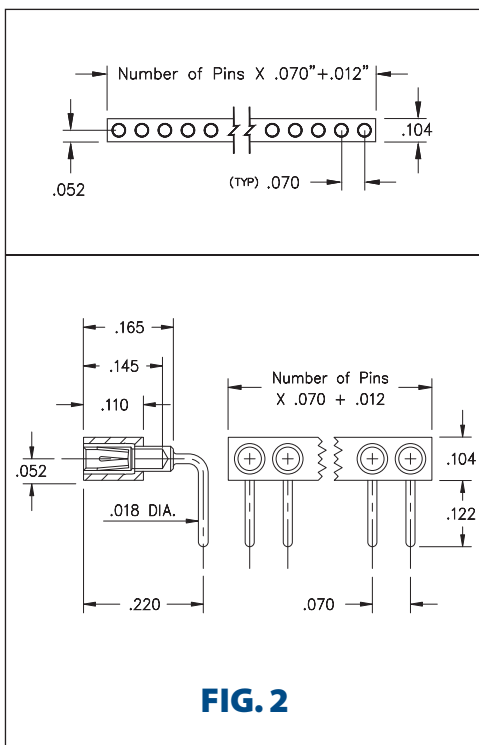
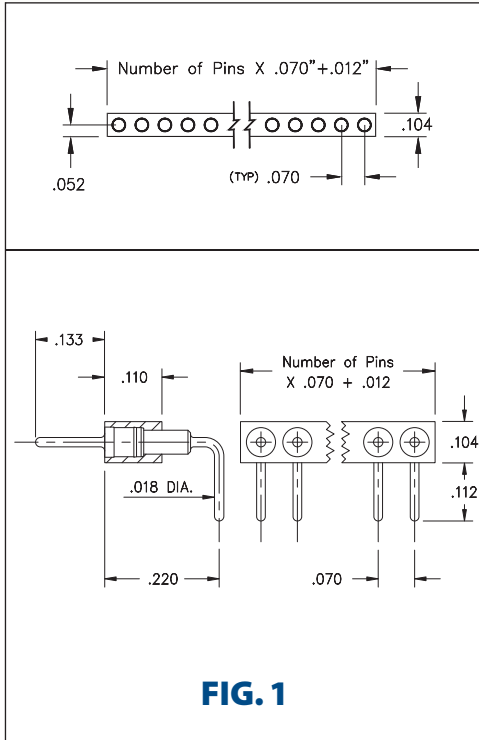


ORDERING INFORMATION

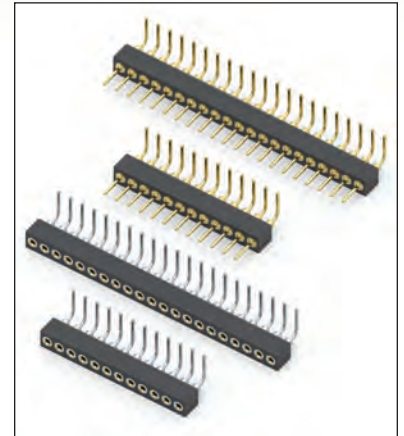
FIG. 1	Series 399...310	Single Row .050" Grid Header			
		399-10-0	-00-310000		
	Specify number of pins		02-50		
		XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264		
	SPECIFY PLATING CODE XX=	10			
	Pin Plating	10 μ" Au			
FIG. 2	Series 399...300	Single Row .050" Grid Socket			
		399-XX-0	-21-300000		
	Specify number of pins		02-50		
		XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264		
	SPECIFY PLATING CODE XX=		91	41	
	Sleeve (Pin)		200 μ" Sn/Pb	200 μ" Sn	
	Contact (Clip)		10 μ" Au	10 μ" Au	
FIG. 3	Series 340...780	Single Row .100" Grid Socket			
		340-XX-1	-30-780100		
	Specify number of pins		02-64		
		XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264		
	SPECIFY PLATING CODE XX=			99	44
	Sleeve (Pin)			200 μ" Sn/Pb	200 μ" Sn
	Contact (Clip)			100 μ" Sn/Pb	100 μ" Sn

INTERCONNECTS

SERIES 870 & 871 • .070" GRID (.018" DIA.) PINS, RIGHT ANGLE HEADERS & SOCKETS • SINGLE ROW STRIPS



- Series 870 and 871 Interconnects feature space saving .070" pitch
- Series 870 uses MM #3790-0 pins. See page 209 for details
- Series 871 uses MM #1805 receptacles and accept pin diameters from .015" - .025". See page 169 for details
- Receptacles use Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations

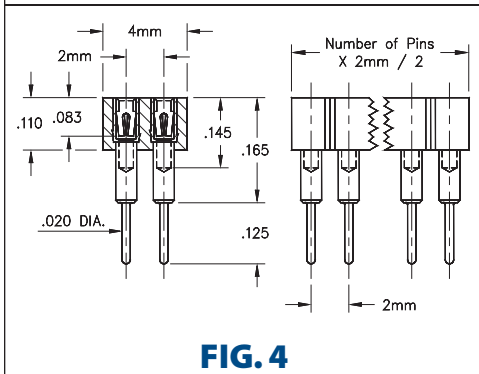
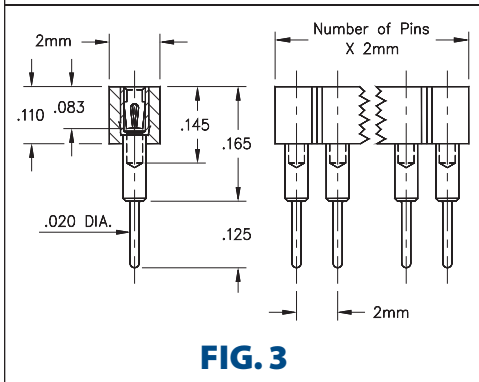
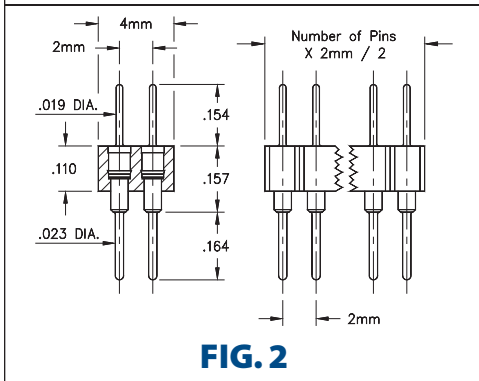
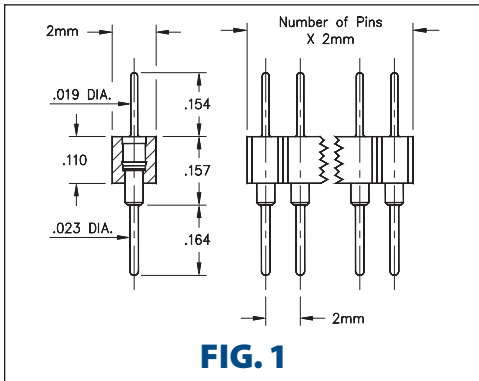


ORDERING INFORMATION

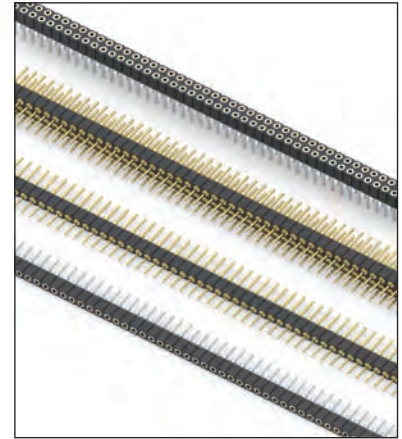
FIG. 1	Series 870...20-001	Right Angle Pin Header		
		870-10-0	-20-001000	
	Specify number of pins	10	02-21	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>				
SPECIFY PLATING CODE XX=		10		
Pin Plating		10 μ" Au		
FIG. 2	Series 871...20-001	Right Angle Socket		
		871-XX-0	-20-001000	
	Specify number of pins		02-21	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>				
SPECIFY PLATING CODE XX=			41	43
Sleeve (Pin)			200 μ" Sn	200 μ" Sn
Contact (Clip)			10 μ" Au	30 μ" Au

INTERCONNECTS















SERIES 830, 831, 832, 833 • 2mm GRID HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS



- Series 830 single & double row interconnects have 2mm pin spacing and permit board stacking as low as .322"
- Pin headers (830 & 832 series) use MM #5012 pins. See page 208 for details
- Sockets (831 & 833 series) use MM #1802 receptacles and accept pin diameters from .015"-.025". See page 169 for details
- Contact is rated at 3 amps
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 830...001	Single Row Pin Header			
	830-XX-0	-10-001000	Specify number of pins 01-50		
FIG. 2	Series 832...001	Double Row Pin Header			
	832-XX-	-10-001000	Specify number of pins 004-100		
  					
SPECIFY PLATING CODE XX=		10 	90	40 	
Pin Plating 		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	
FIG. 3	Series 831...001	Single Row Socket			
	831-XX-0	-10-001000	Specify number of pins 01-50		
FIG. 4	Series 833...001	Double Row Socket			
	833-XX-	-10-001000	Specify number of pins 004-100		
  					
SPECIFY PLATING CODE XX=			91	93	41  43  47 
Sleeve (Pin) 			200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn 200 μ" Sn 200 μ" Sn
Contact (Clip) 			10 μ" Au	30 μ" Au	10 μ" Au 30 μ" Au Au Flash

INTERCONNECTS

SERIES 830 AND 832 • 2mm GRID SOLDER CUP HEADERS, SINGLE ROW RIGHT ANGLE, SINGLE AND DOUBLE ROW STRAIGHT

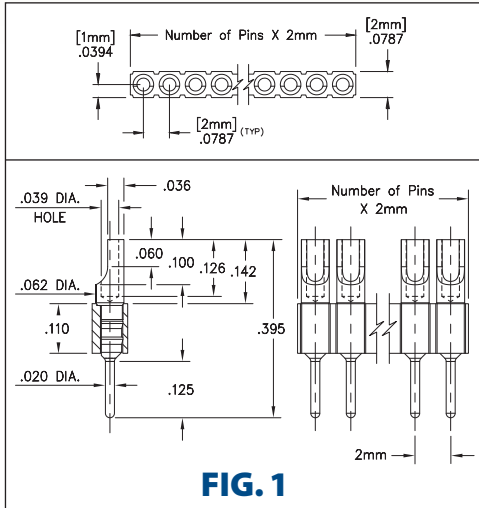


FIG. 1

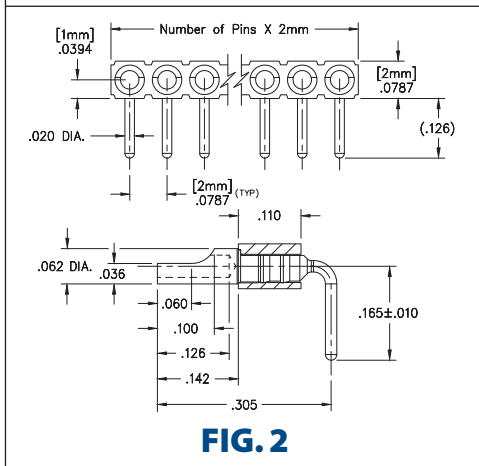


FIG. 2

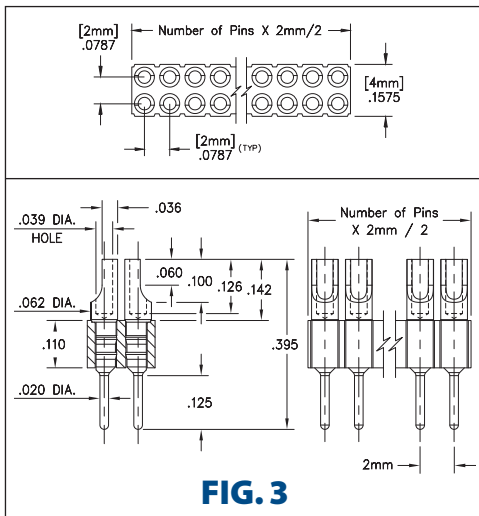
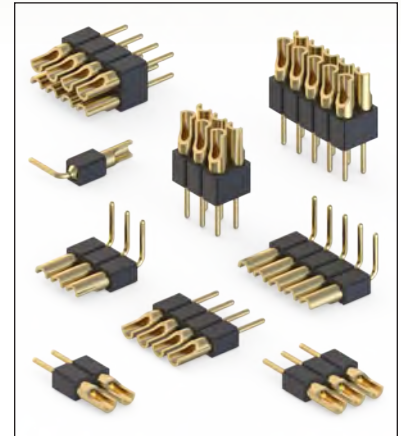


FIG. 3

- Series 830 & 832 solder cup headers for 2mm pitch wire termination applications
- .020" diameter pins are suitable for mating with standard sockets or for through-hole soldering to the P.C.B.
- Connectors feature uniformly aligned solder cups & anti-rotation construction to facilitate efficient soldering
- Accepts up to 22 AWG Stranded wire
- Series 830 right angle headers are low profile and minimize wire manipulation for parallel mating conditions
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 830...005	Single Row Solder Cup Header
	830-10-0-__-10-005000	Specify number of pins → 01-50
FIG. 2	Series 830...005	Solder Cup Header Right Angle
	830-10-0-__-20-005000	Specify number of pins → 01-50
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating	10 μ" Au	

FIG. 3	Series 832...005	Double Row Solder Cup Header
	832-10-__-__-10-005000	Specify number of pins → 004-100
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating	10 μ" Au	



INTERCONNECTS

SERIES 830, 831, 832, 833 • 2mm GRID RIGHT ANGLE HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

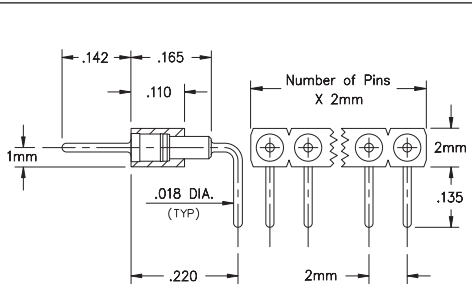


FIG. 1

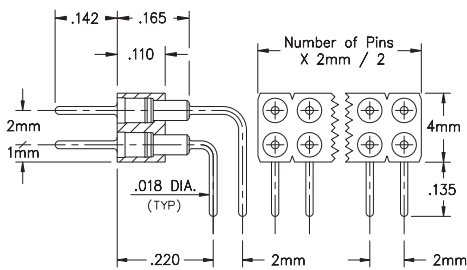


FIG. 2

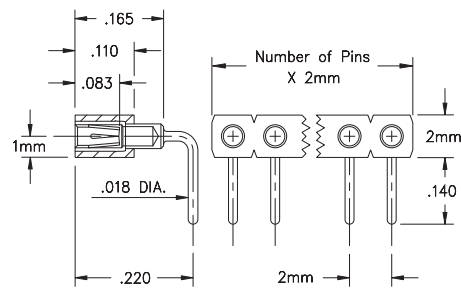


FIG. 3

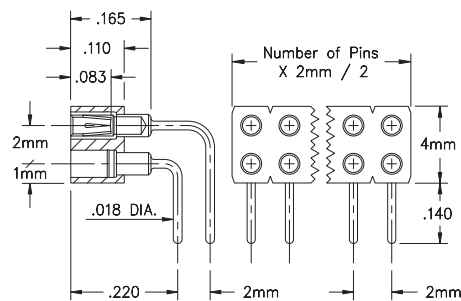
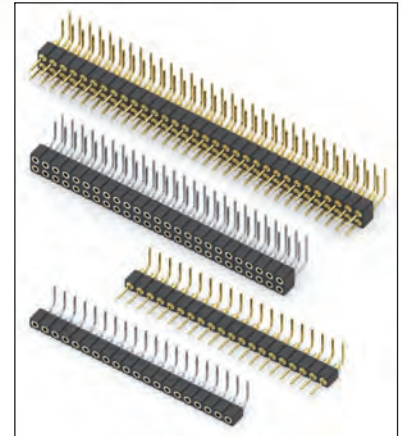

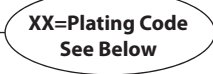

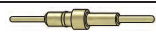


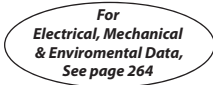




FIG. 4

- Series 830 & 832 use MM #3790 & MM #3796 pins. See page 209 for details
- Series 831 & 833 use MM #1805 and MM #3805 receptacles and accept pin diameters from .015"-.025". See page 169 for details
- Receptacles use Hi-Rel, Low force, 6-finger BeCu #32 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 830...001	Single Row Right Angle Header			
	830-10-0	-20-001000	Specify number of pins 01-50		
FIG. 2	Series 832...001	Double Row Right Angle Header			
	832-10-	-20-001000	Specify number of pins 002-100		
  					
SPECIFY PLATING CODE XX=		10	◆		
Pin Plating 		10 μ" Au			
FIG. 3	Series 831...001	Single Row Right Angle Socket			
	831-XX-0	-20-001000	Specify number of pins 01-50		
FIG. 4	Series 833...001	Double Row Right Angle Socket			
	833-43-	-20-001000	Specify number of pins 002-100		
  					
SPECIFY PLATING CODE XX=			41	◆	43
Sleeve (Pin) 			200 μ" Sn		200 μ" Sn
Contact (Clip) 			10 μ" Au		30 μ" Au

INTERCONNECTS

SERIES 832 & 833 • 2mm GRID (.020" DIA. PINS), SHROUDED STRAIGHT, SURFACE MOUNT & RIGHT ANGLE • DOUBLE ROW STRIPS

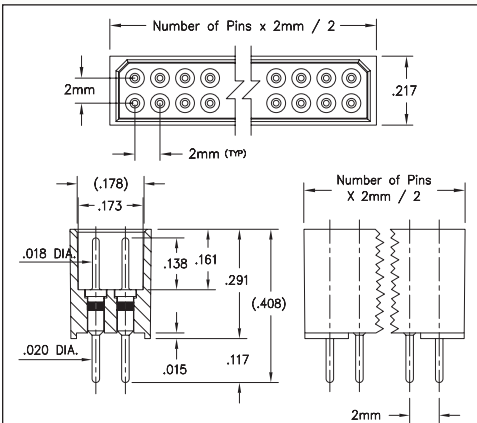


FIG. 1

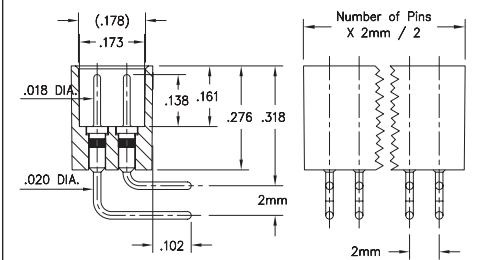


FIG. 2

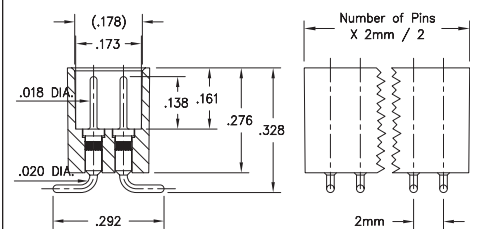


FIG. 3

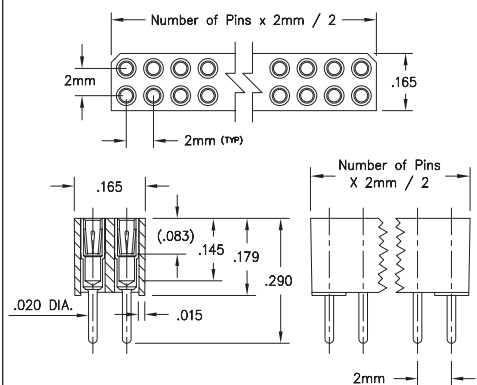
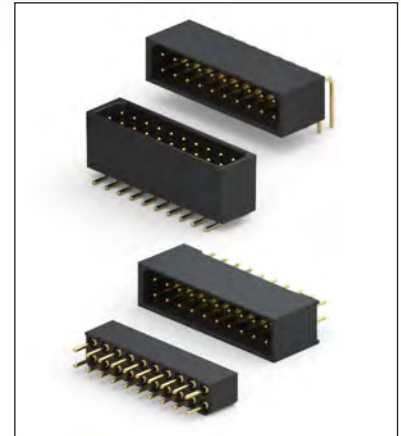


FIG. 4

- Shrouded pin interconnects available with straight Series 832...10-052 or surface mount 832...30-052 and use MM #3143 pins. Series 832...20-052 right angle interconnects use MM #3160 and #3161 pins. See page 214 for details
- Series 833...10-002 with keying features use MM #1802 and accept pin diameters from .015"-.025". See page 169 for details
- Receptacles use Hi-Rel, Low force, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

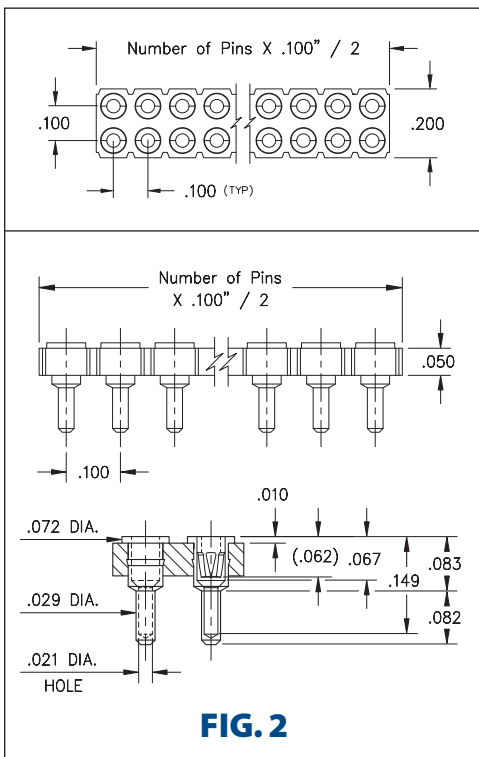
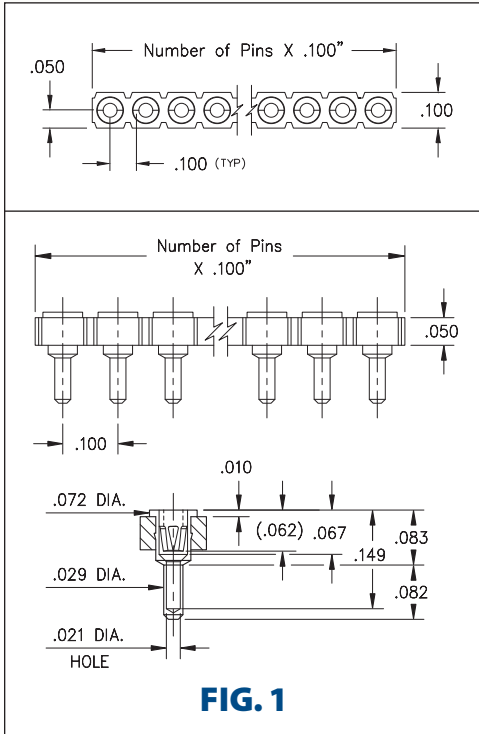
FIG. 1	Series 832...10-052	Straight Pin Header			
		832-10-	-10-052000		
	Specify number of pins		004-100		
FIG. 2	Series 832...20-052	Right Angle Pin Header			
		832-10-	-20-052000		
	Specify number of pins		004-100		
FIG. 3	Series 832...30-052	Surface Mount Pin Header			
		832-10-	-30-052000		
	Specify number of pins		004-100		
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264					
SPECIFY PLATING CODE XX=		10			
Pin Plating			10 μ" Au		

FIG. 4	Series 833...10-002	Double Row Keying Socket			
		833-13-	-10-002000		
	Specify number of pins		004-100		
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264					
SPECIFY PLATING CODE XX=		13			
Sleeve (Pin)			10 μ" Au		
Contact (Clip)			30 μ" Au		

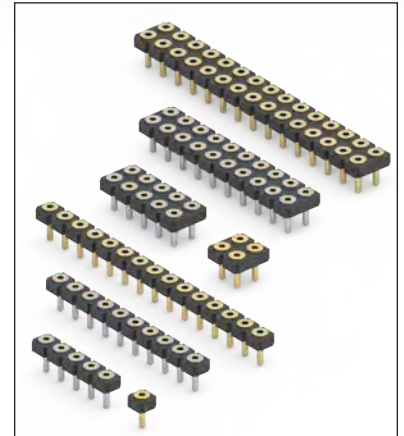


INTERCONNECTS

SERIES 315 & 415 • .100" GRID, SUPER LOW PROFILE SOCKETS • SINGLE AND DOUBLE ROW STRIPS



- Series 315 and 415 solder mount sockets use MM #0512 receptacles that accept pin diameters from .015"-.022". See pages 161 for details
- Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 252 for details
- .083" Super low profile above the board utilizes .050" thick insulators
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 315...004	Single Row Socket
	315-XX-1	-41-004000
	Specify number of pins	01-32
FIG. 2	Series 415...004	Double Row Socket
	415-XX-2	-41-004000
	Specify number of pins	04-72



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	13	93	43	44	47
Sleeve (Pin)	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)	30 μ" Au	30 μ" Au	30 μ" Au	100 μ" Sn	Au Flash



INTERCONNECTS

SERIES 301, 310, 350, 399 • .100" GRID (.018" DIA.) PINS, STRAIGHT AND RIGHT ANGLE • SINGLE ROW STRIPS

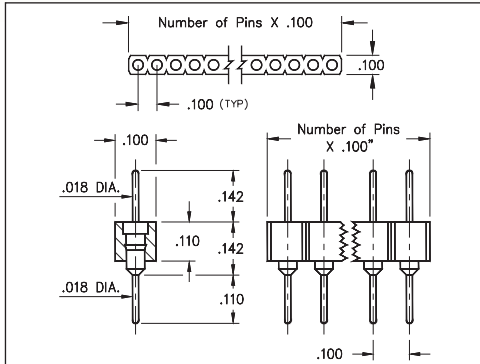


FIG. 1

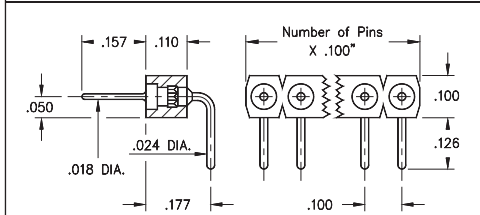


FIG. 2

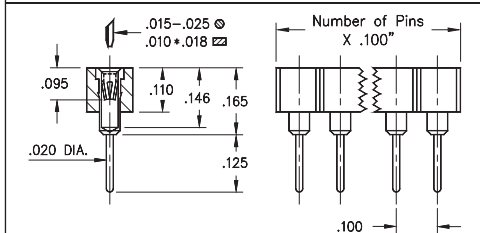


FIG. 3

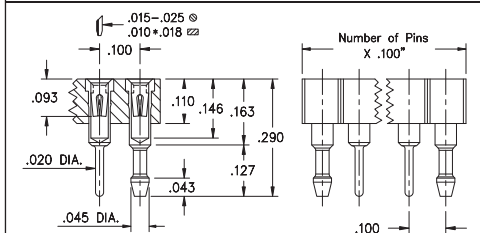


FIG. 4

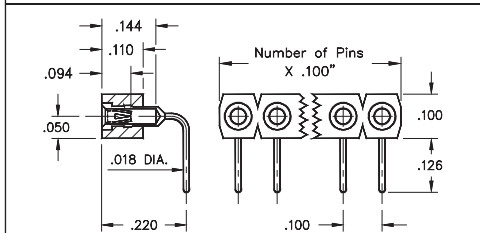
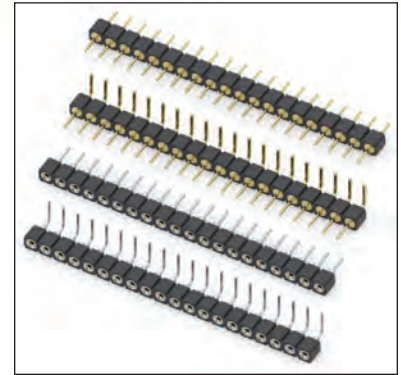


FIG. 5

- Series 3XX are available with straight and right angle solder tails
- Series 350 & 399...009 use MM #3404 and #5011 pins. See pages 212 & 214 for details
- Series 301, 310 & 399...003 use MM #0156, #1001 & #1103 receptacles. See pages 165 and 166 for details
- Receptacles use Hi-Rel, 4-finger #30 BeCu contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 350...006	Straight Pin Header								
	350-XX-1	-00-006000								
	Specify number of pins	01-64								
FIG. 2	Series 399...009	Right Angle Pin Header								
	399-XX-1	-10-009000								
	Specify number of pins	02-64								
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SPECIFY PLATING CODE XX=		10	90	40						
Pin Plating		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn						
FIG. 3	Series 310...001	Solder Tail Socket								
	310-XX-1	-41-001000								
	Specify number of pins	01-64								
FIG. 4	Series 301...056	Socket with Retention Pins								
	301-43-1	-41-560000								
	Specify number of pins	03-64								
FIG. 5	Series 399...003	Right Angle Socket								
	399-XX-1	-10-003000								
	Specify number of pins	02-64								
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #d4edda;">RoHS - 2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>										
SPECIFY PLATING CODE XX=		11	13	91	93	99	41	43	44	47
Sleeve (Pin)		10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)		10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn	Au Flash

★ 41, 91 & 99 Platings Non-Standard



INTERCONNECTS

SERIES 410, 450, 499 • .100" GRID (.018" DIA.) PINS, STRAIGHT AND RIGHT ANGLE • DOUBLE ROW STRIPS

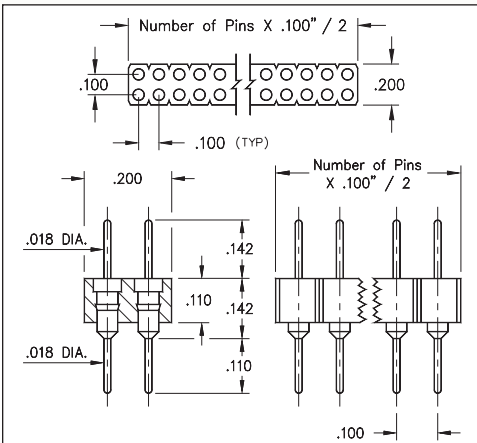


FIG. 1

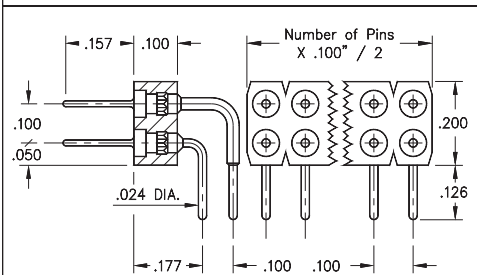


FIG. 2

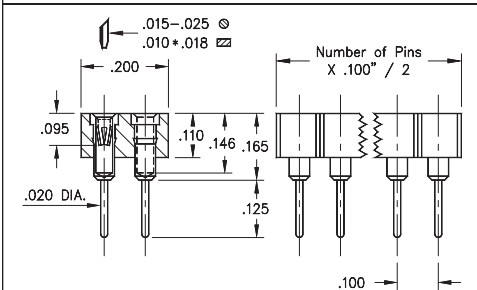


FIG. 3

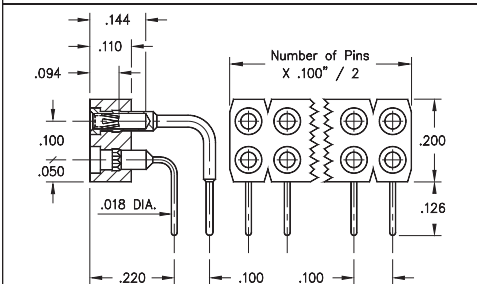
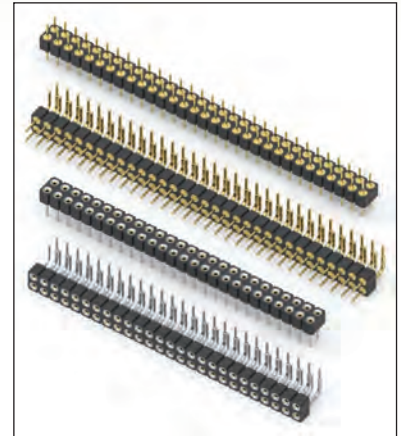


FIG. 4

- Series 4XX are available with straight and right angle solder tails
- Series 450 & 499...009 use MM #3404 and #5011/5113 pins. See pages 212 and 214 for details
- Series 410 & 499...003 use MM #1001 and #1103/1602 receptacles. See pages 165, 166 and 167 for details
- Receptacles use Hi-Rel, 4-finger #30 BeCu contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION









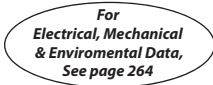






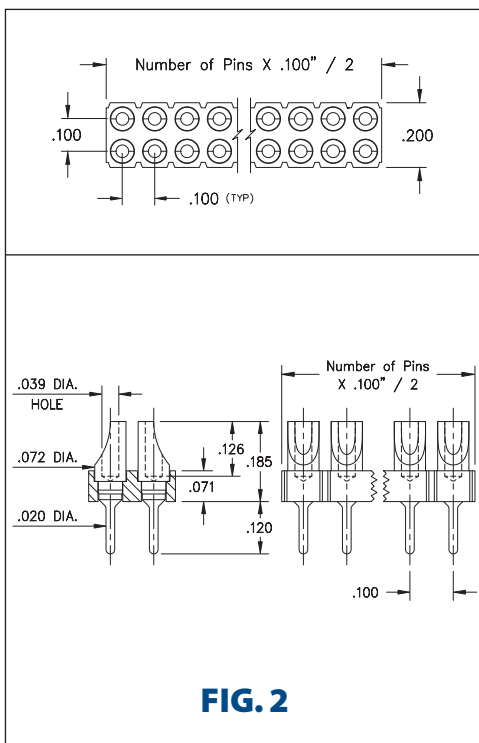
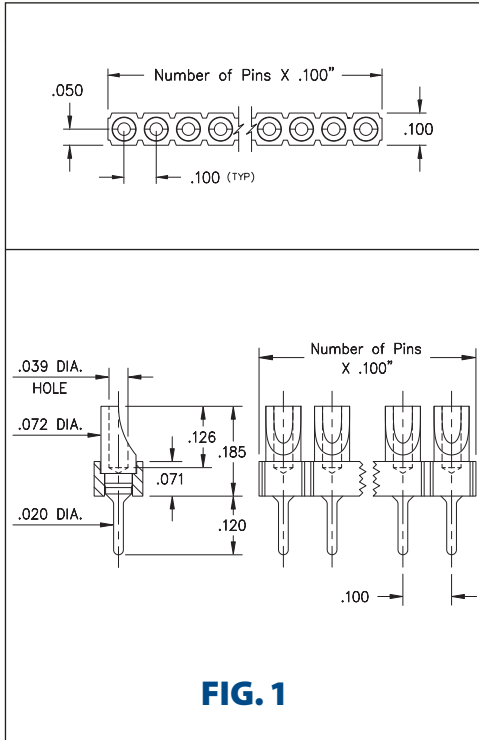
FIG. 1	Series 450...006	Straight Pin Header			
	450-XX-2	-00-006000	Specify number of pins 04-64		
FIG. 2	Series 499...009	Right Angle Pin Header			
	499-10-2	-10-009000	Specify number of pins 02-64		
  					
SPECIFY PLATING CODE XX=		10 	90	40 	
Pin Plating 		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	

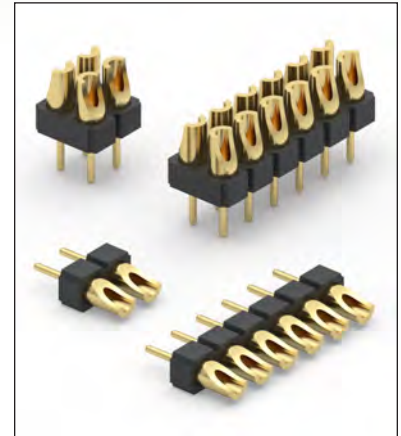
FIG. 3	Series 410...001	Solder Tail Socket					
	410-XX-2	-41-001000	Specify number of pins 04-64				
FIG. 4	Series 499...003	Right Angle Socket					
	499-XX-2	-10-003000	Specify number of pins 02-64				
  							
SPECIFY PLATING CODE XX=		11 	13 	91	93	41 	43 
Sleeve (Pin) 		10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn
Contact (Clip) 		10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au

INTERCONNECTS







SERIES 380 & 480 • .100" GRID LOW PROFILE SOLDER CUP HEADERS SINGLE AND DOUBLE ROW STRIPS



- Series 380 & 480 solder cup headers for low profile wire termination applications
- .020" diameter pins are suitable for mating with standard sockets or for through-hole soldering to the P.C.B.
- Solder cups are uniformly aligned to facilitate efficient soldering
- Accepts up to 22 AWG Stranded wire
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 380...002	Single Row Solder Cup Header		
		380-10-0	-00-002000	
	Specify number of pins		01-64	
		XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264	
	SPECIFY PLATING CODE XX=	10 		
	Pin Plating 	10 μ" Au		
FIG. 2	Series 480...002	Double Row Solder Cup Header		
		480-XX-0	-00-002000	
	Specify number of pins		02-72	
		XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264	
	SPECIFY PLATING CODE XX=	10 		
	Pin Plating 	10 μ" Au		



INTERCONNECTS

SERIES 329, 380, 429, 480 • .100" GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

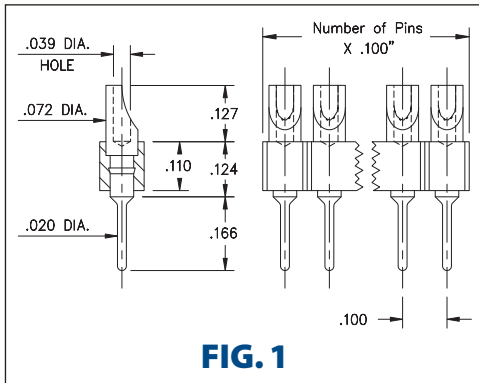


FIG. 1

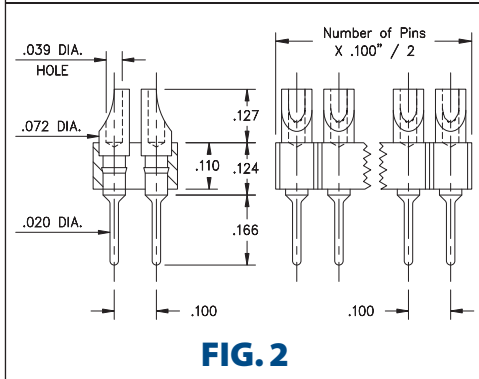


FIG. 2

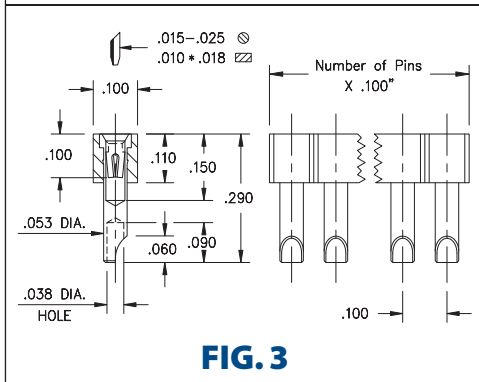


FIG. 3

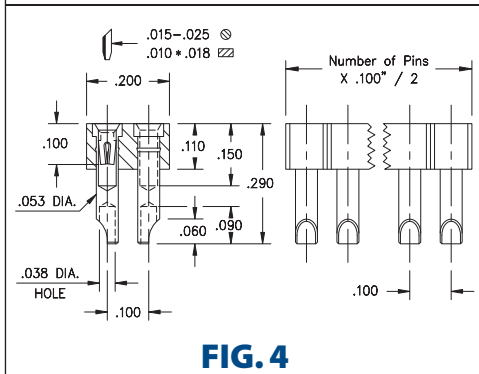
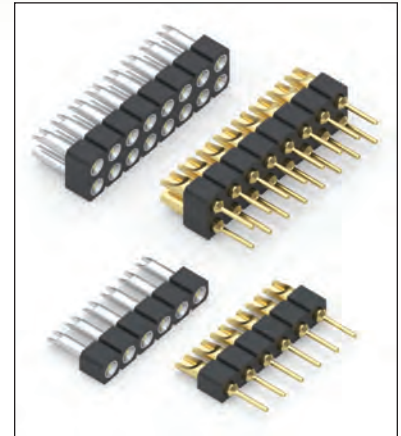


FIG. 4

- Series 380 & 480 use MM #8000 pins. See page 216 for details
- Series 329 & 429 use MM #2954 receptacles and accept pin diameters from .015"-.025". See page 171 for details
- Series 329 & 429 receptacles use Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Soldercups are pre-aligned
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 380...001	Single Row Solder Cup / Solder Tail		
		380-XX-1	-00-001000	01-64
FIG. 2	Series 480...001	Double Row Solder Cup / Solder Tail		
		480-10-2	-00-001000	02-64
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn

FIG. 3	Series 329...540	Single Row Solder Cup Sockets			
		329-XX-1	-41-540000	01-64	
FIG. 4	Series 429...540	Double Row Solder Cup Sockets			
		429-XX-2	-41-540000	02-64	
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264					
SPECIFY PLATING CODE XX=		11	13	41	43
Sleeve (Pin)		10 μ" Au	10 μ" Au	200 μ" Sn	200 μ" Sn
Contact (Clip)		10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au



INTERCONNECTS

SERIES 329, 340, 406, 414, 429 • .100" GRID SURFACE MOUNT HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

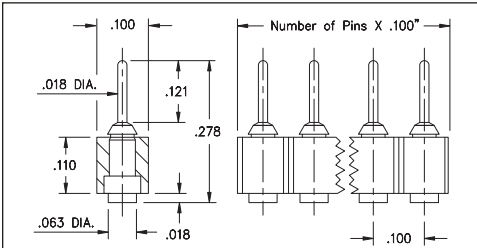


FIG. 1

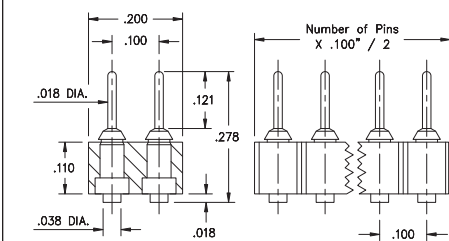


FIG. 2

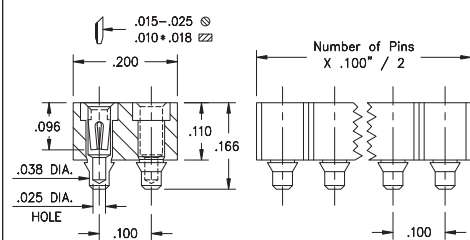


FIG. 3

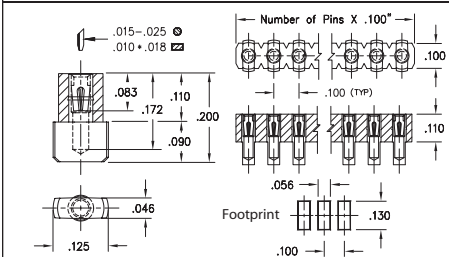


FIG. 4

Coplanarity .005". For pin counts >24 positions, consult Technical Support.

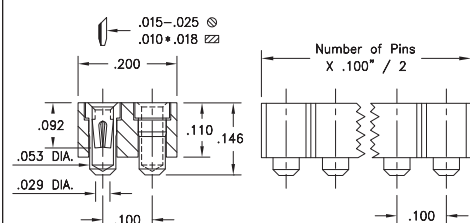
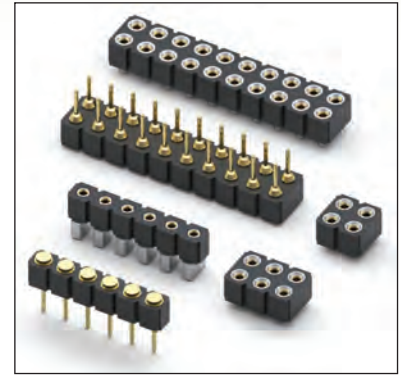






FIG. 5

- Series 329 and 429 pin interconnects feature space saving, pad style SMT termination using MM #2956-X pins. See page 218 for details
- Series 429 and 414 combine for a mated height of .323"
- Series 340, 406 and 414 surface mount sockets use MM #4078, #0668 and #1434 receptacles. See pages 162, 164 and 167 for details
- Series 340, 406 and 414 receptacles use Hi-Rel, 4-finger BeCu #30 contacts rated at 3 amps. Receptacles accept .015"-.025" diameter pins. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



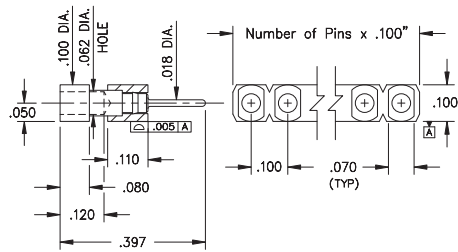
ORDERING INFORMATION

FIG. 1	Series 329...560 Single Row Surface Mount Pin Header	329-10-1__-00-560000					
	Specify number of pins	↑	02-64				
FIG. 2	Series 429...560 Double Row Surface Mount Pin Header	429-10-2__-00-560000					
	Specify number of pins	↑	04-72				
SPECIFY PLATING CODE XX=		10	◆				
Pin Plating 		10 μ" Au					
FIG. 3	Series 414...117 Double Row Surface Mount Socket	414-XX-2__-41-117000					
	Specify number of pins	↑	04-72				
FIG. 4	Series 340...780 Single Row Surface Mount Socket	340-XX-1__-30-780100					
	Specify number of pins	↑	02-64				
FIG. 5	Series 406...068 Double Row Surface Mount Socket	406-43-2__-30-068000					
	Specify number of pins	↑	04-20				
	Tape and Reel Packaging		Ordering Information: 406-43-2XX-30-068001				
Available on 44mm wide tape, 355 parts per 13" reel		←					
		XX=Plating Code See Below		<i>For Electrical, Mechanical & Environmental Data, See page 264</i>			
SPECIFY PLATING CODE XX=				99	41 ◆	43 ◆	44 ◆
Sleeve (Pin) 				200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip) 				100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn

INTERCONNECTS

SERIES 310, 330, 351 • .100" GRID (.018" DIA. PINS), SURFACE MOUNT HEADERS AND SOCKETS • SINGLE ROW STRIPS

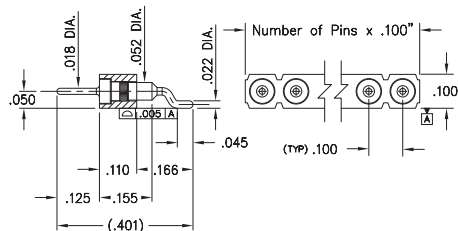
Mates with Series 310...023 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity .005". For pin counts >10 positions, consult Technical Support.

FIG. 1

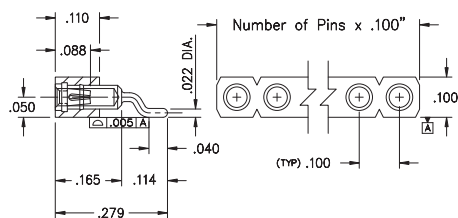
Mates with Series 310...023 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity .005". For pin counts >10 positions, consult Technical Support.

FIG. 2

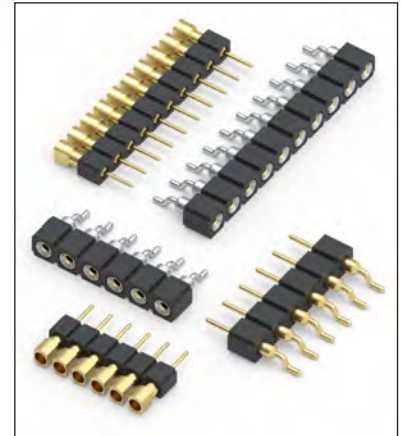
Mates with Series 351...002 and 330...027 Surface Mount Header (See Fig. 1 & 2)



Coplanarity .005". For pin counts >10 positions, consult Technical Support.

FIG. 3

- Series 351 horizontal surface mount headers are available with .018" dia. pluggable pins (MM #5102). Series 330 horizontal surface mount z-bend headers use MM #3027 pins. See page 224 for details
- Series 310 horizontal surface mount Z-Bend sockets uses MM #1023 receptacles that accept pin diameters from .015"-.025". See pages 171 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- Ideal for daisy chaining parallel boards



ORDERING INFORMATION









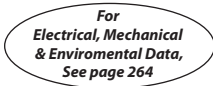





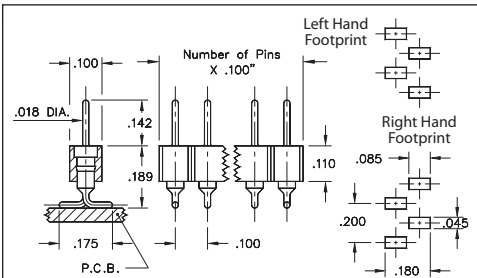
FIG. 1	Series 351...002 .018" Dia. Surface Mount Header	351-10-1-40-002000
	Specify number of pins	10 22-10
FIG. 2	Series 330...027 .018" Dia. Surface Mount Z-Bend Header	330-XX-1-40-027000
	Specify number of pins	10 22-10
  		
SPECIFY PLATING CODE XX=		10  40 
Pin Plating		10 μ" Au 200 μ" Sn

FIG. 3	Series 310...023 .018" Dia. Surface Mount Z-Bend Socket	310-XX-1-40-023000
	Specify number of pins	10 22-10
  		
SPECIFY PLATING CODE XX=		91 93 99 41  43  44 
Sleeve (Pin)		200 μ" Sn/Pb 200 μ" Sn/Pb 200 μ" Sn/Pb 200 μ" Sn 200 μ" Sn 200 μ" Sn
Contact (Clip)		10 μ" Au 30 μ" Au 100 μ" Sn/Pb 10 μ" Au 30 μ" Au 100 μ" Sn



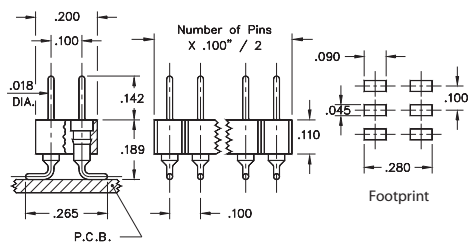
INTERCONNECTS

SERIES 310, 350, 410, 450 • .100" GRID (.018" DIA. PINS), SMT GULL WING HEADERS & SOCKETS • SINGLE AND DOUBLE ROW STRIPS



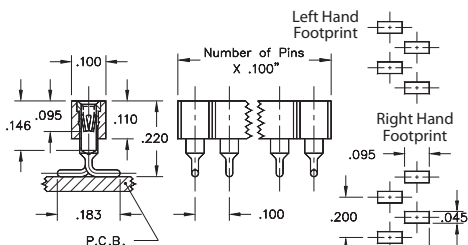
Coplanarity .005". For pin counts >10 positions, consult Technical Support.

FIG. 1



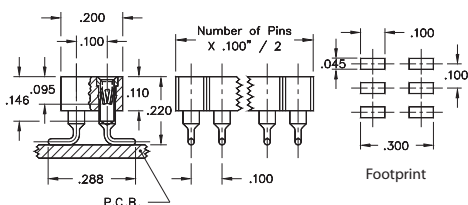
Coplanarity .005". For pin counts >20 positions, consult Technical Support.

FIG. 2



Coplanarity .005". For pin counts >10 positions, consult Technical Support.

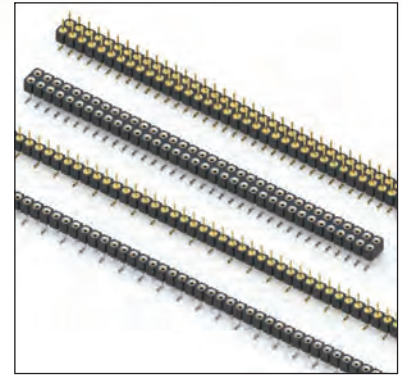
FIG. 3



Coplanarity .005". For pin counts >20 positions, consult Technical Support.

FIG. 4

- Headers (350 & 450) use MM #3404 pins. See page 212 for details
- Sockets (310 & 410) use MM #1005 receptacles and accept pin diameters from .015"-.025". See page 166 for details
- Contact is rated at 3 amps
- Coplanarity .005" (single row max. 10 pins; double row max. 20 pins). For higher pin counts, contact Technical Support
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1L	Single Row Header, Left Hand Footprint, Odd or Even # of pins			
	350-XX-1__-00-106000 Specify number of pins 02-64			
FIG. 1R	Single Row Header, Right Hand Footprint, Even # of pins			
	350-XX-1__-00-107000 Specify number of pins 02-64			
FIG. 2	Double Row Header, Even # of pins			
	450-XX-2__-00-106000 Specify number of pins 04-72			
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn
FIG. 3L	Single Row Socket, Left Hand Footprint, Odd or Even # of pins			
	310-XX-1__-41-105000 Specify number of pins 02-64			
FIG. 3R	Single Row Socket, Right Hand Footprint, Even # of pins			
	310-XX-1__-41-107000 Specify number of pins 02-64			
FIG. 4	Double Row Socket, Even # of pins			
	410-XX-2__-41-105000 Specify number of pins 04-72			
RoHS-2 2011/65/EU		XX=Plating Code See Below		<i>For Electrical, Mechanical & Environmental Data, See page 264</i>
SPECIFY PLATING CODE XX=		91	93	41 43
Sleeve (Pin)		200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn 200 μ" Sn
Contact (Clip)		10 μ" Au	30 μ" Au	10 μ" Au 30 μ" Au



INTERCONNECTS

SERIES 350, 450, 801, 803 • .100" GRID (.025" DIA. PINS), LOW PROFILE HEADERS & VERSATILE SOCKETS • SINGLE & DOUBLE ROW STRIPS

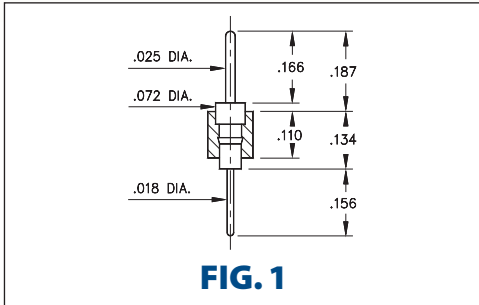


FIG. 1

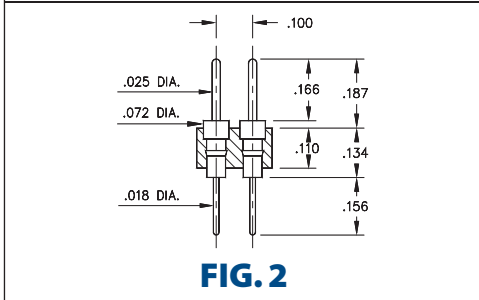


FIG. 2

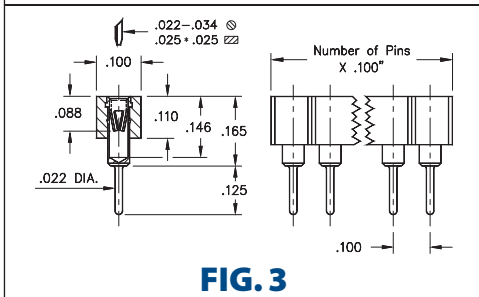


FIG. 3

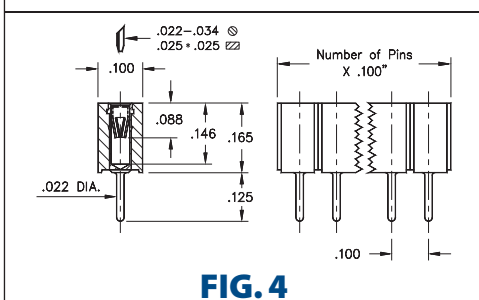


FIG. 4

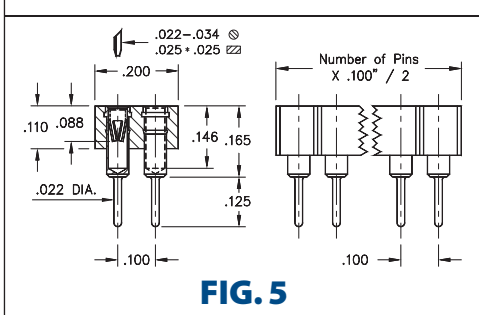
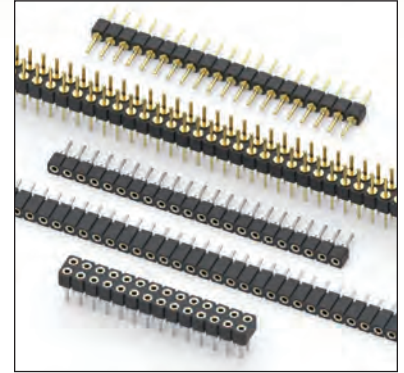















FIG. 5

- Series 350 and 450 single and double row pin headers use MM #0290 pins. See page 215 for details
- Series 801 and 803 single and double row low profile sockets use MM #1303 receptacles. See page 180 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #16 contact rated at 4.5 amps. Receptacles accept .025" diameter and .025" square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 350...001 Single Row .025" Pin / .018" Solder Tail
	350-XX-1__-00-001000 Specify number of pins 01-64
FIG. 2	Series 450...001 Double Row .025" Pin / .018" Solder Tail
	450-XX-2__-00-001000 Specify number of pins 04-64
  	
SPECIFY PLATING CODE XX= 10  90 40 	
Pin Plating  10 μ" Au 200 μ" Sn/Pb 200 μ" Sn	
FIG. 3	Series 801...003 Low Profile Socket (short insulator)
	801-XX-0__-10-003000 Specify number of pins 01-64
FIG. 4	Series 801...013 Low Profile Socket (long insulator)
	801-XX-0__-10-013000 Specify number of pins 01-36
FIG. 5	Series 803...003 Double Row Low Profile Socket
	803-XX-0__-10-003000 Specify number of pins 04-72
  	
SPECIFY PLATING CODE XX= 41  43 	
Sleeve (Pin)  200 μ" Sn 200 μ" Sn	
Contact (Clip)  10 μ" Au 30 μ" Au	



INTERCONNECTS

SERIES 800, 801, 802, 803 • .100" GRID (.030" DIA. PINS), LOW PROFILE HEADERS & VERSATILE SOCKETS • SINGLE & DOUBLE ROW STRIPS

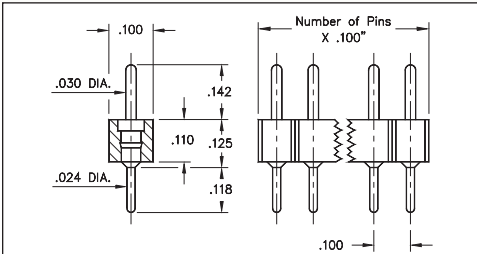


FIG. 1

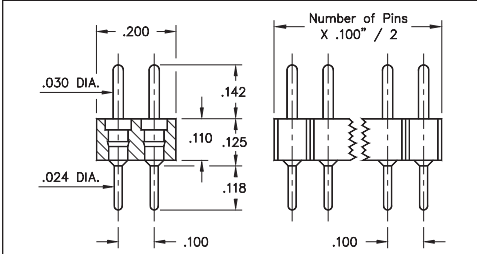


FIG. 2

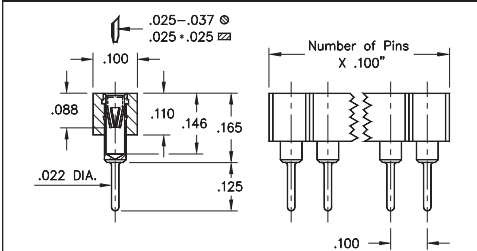


FIG. 3

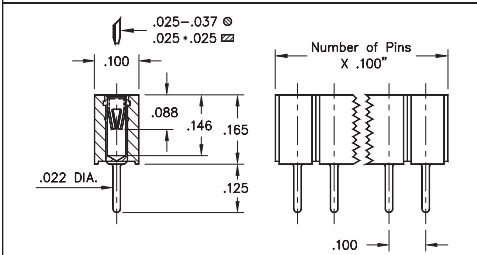


FIG. 4

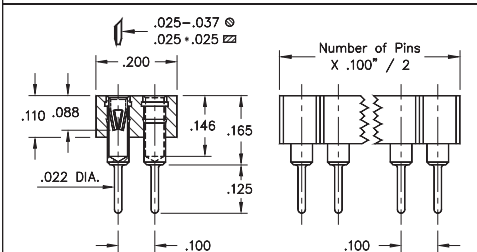
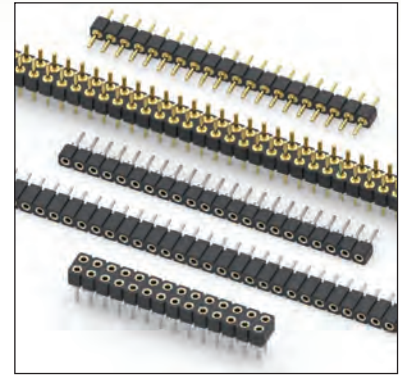














FIG. 5

- Series 800 and 802 single and double row pin headers use MM #5016 pins. See page 215 for details
- Series 801 and 803 single and double row sockets use MM #1303 receptacles. See page 180 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept .030" diameter and .025" square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...002 Single Row Low Profile Pin Header	800-XX-0__-10-002000			
	Specify number of pins	↑ 01-64			
FIG. 2	Series 802...002 Double Row Low Profile Pin Header	802-XX-0__-10-002000			
	Specify number of pins	↑ 04-64			
					
SPECIFY PLATING CODE XX=		10 	90	40 	
Pin Plating 		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	
FIG. 3	Series 801...002 Low Profile Socket (short insulator)	801-XX-0__-10-002000			
	Specify number of pins	↑ 01-64			
FIG. 4	Series 801...012 Low Profile Socket (long insulator)	801-XX-0__-10-012000			
	Specify number of pins	↑ 01-36			
FIG. 5	Series 803...002 Double Row Low Profile Socket	803-XX-0__-10-002000			
	Specify number of pins	↑ 04-72			
					
SPECIFY PLATING CODE XX=		91	93	99	41 
Sleeve (Pin) 		200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn
Contact (Clip) 		10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au

INTERCONNECTS

SERIES 800 & 801 • .100" GRID (.030" DIA. PINS), STRAIGHT & RIGHT ANGLE HEADERS AND SOCKETS • SINGLE ROW STRIPS

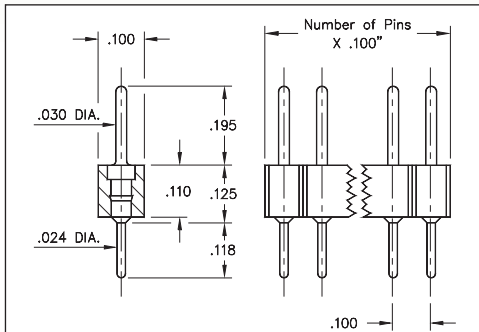


FIG. 1

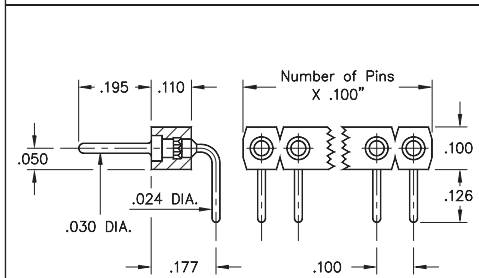


FIG. 2

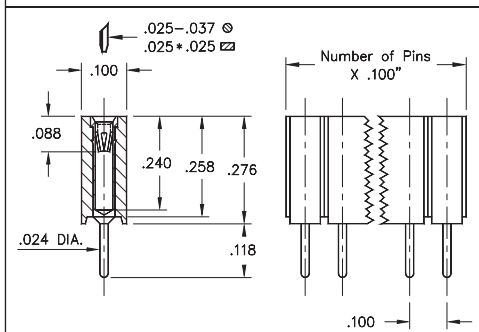


FIG. 3

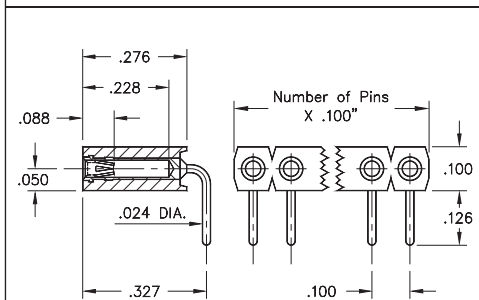
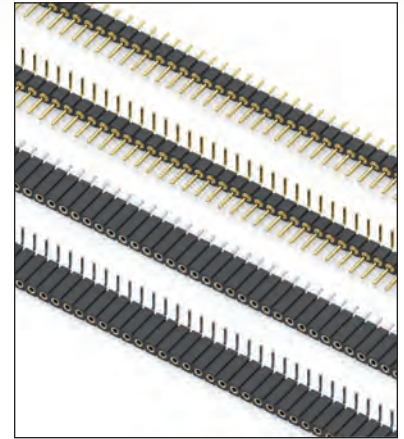


FIG. 4

- Pin interconnects available with straight MM #7007 or right angle MM #5005 solder tails. See page 215 for details
- Sockets are available with straight MM #1304 or right angle MM #1305 soldertails. See pages 177 and 179 for details
- MM #1304 and MM #1305 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept .030" diameter and .025" square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION











FIG. 1	Series 800...10-001		Straight Pin Header	
		800-XX-0	-10-001000	01-64
Specify number of pins				
FIG. 2	Series 800...20-001		Right Angle Pin Header	
		800-XX-0	-20-001000	02-64
Specify number of pins				
 XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=				
Pin Plating 				
	10 	90	40 	
	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	

FIG. 3	Series 801...10-001		Straight Socket			
		801-XX-0	-10-001000	01-50		
Specify number of pins						
FIG. 4	Series 801...20-001		Right Angle Socket			
		801-XX-0	-20-001000	01-50		
Specify number of pins						
 XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264						
SPECIFY PLATING CODE XX=						
Sleeve (Pin) 						
Contact (Clip) 						
	91	93	99	41 	43 	44 
	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn
						Au Flash

★ 44 Plating Non-Standard



INTERCONNECTS

SERIES 802 & 803 • .100" GRID (.030" DIA. PINS), STRAIGHT & RIGHT ANGLE HEADERS AND SOCKETS • DOUBLE ROW STRIPS

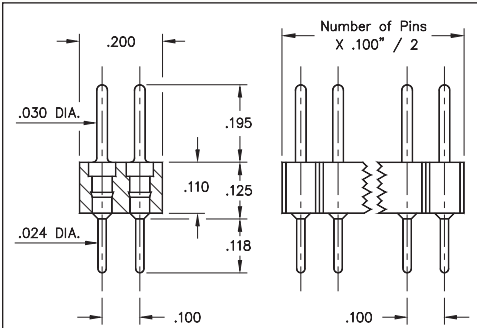


FIG. 1

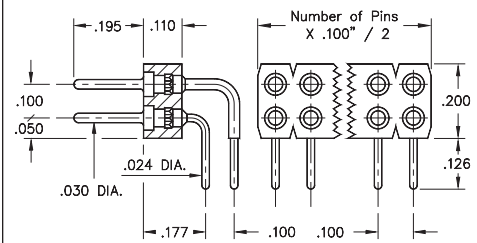


FIG. 2

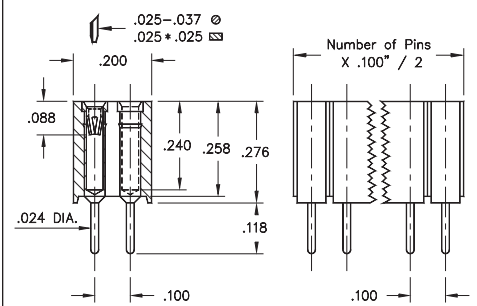


FIG. 3

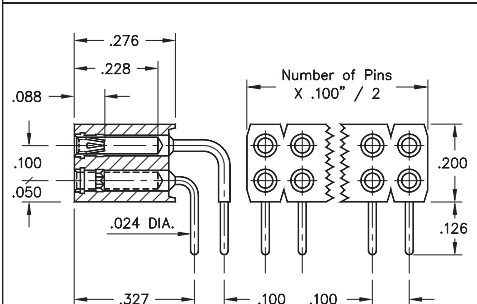
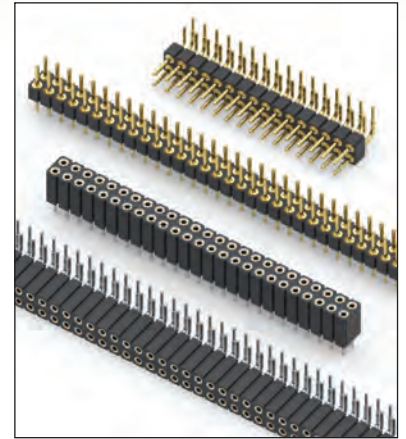


FIG. 4

- Pin interconnects available with straight MM #7007 or right angle MM #5005/5107 solder tails. See page 215 for details
- Sockets are available with straight MM #1304 or right angle MM #1305/1306 soldertails. See pages 177 and 179 for details
- MM #1304, #1305 and #1306 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept .030" diameter and .025" square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION









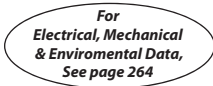





FIG. 1	Series 802...10-001	Straight Pin Header		
	802-XX-0	-10-001000	Specify number of pins 04-64	
FIG. 2	Series 802...20-001	Right Angle Pin Header		
	802-XX-0	-20-001000	Specify number of pins 02-64	
  				
SPECIFY PLATING CODE XX=		10 	90	40 
Pin Plating 		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn

FIG. 3	Series 803...10-001	Straight Socket					
	803-XX-	-10-001000	Specify number of pins 004-100				
FIG. 4	Series 803...20-001	Right Angle Socket					
	803-XX-	-20-001000	Specify number of pins 002-100				
  							
SPECIFY PLATING CODE XX=		91	93	99	41 	43 	47 
Sleeve (Pin) 		200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip) 		10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	Au Flash



INTERCONNECTS

SERIES 800 & 801 • .100" GRID (.030" DIA. PINS), SOLDERLESS PRESS-FIT • SINGLE ROW STRIPS

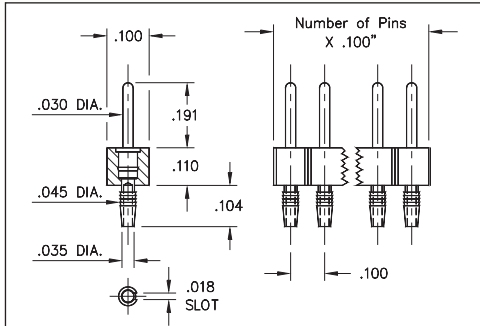


FIG. 1

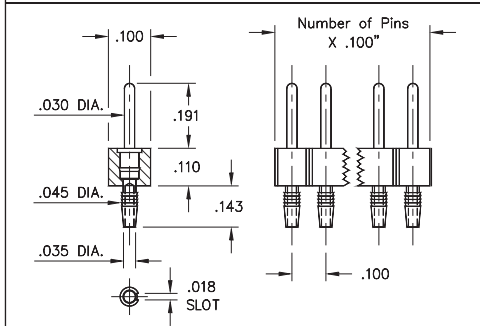


FIG. 2

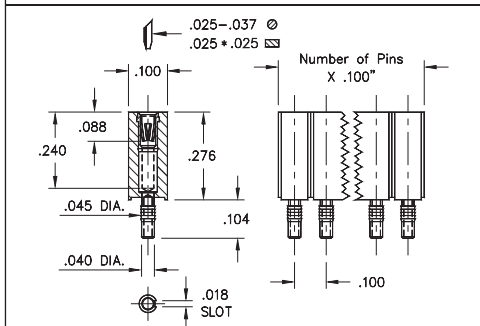


FIG. 3

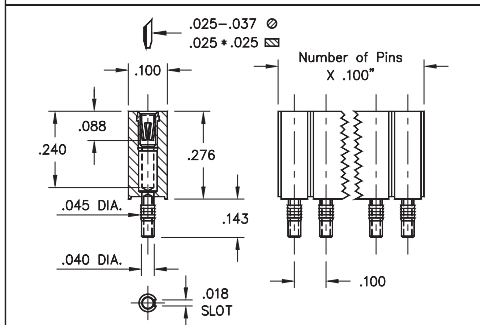
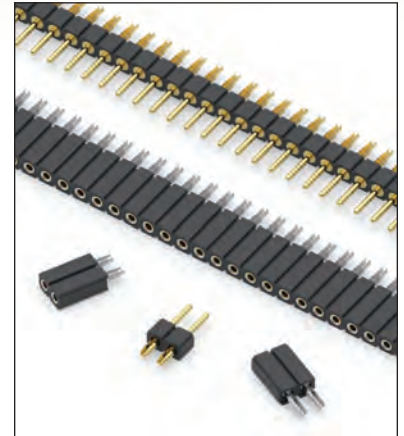


FIG. 4

- The unique compliant tail pins conform to $.040 \pm .003$ finished hole without stressing inner layers. Patent No. 4,799,904
- Headers and sockets are available for board thicknesses of $.060$ - $.100$ and $.090$ - $.130$ ". See ordering information for details
- Series 800 pin headers use MM #5601 and #5602 compliant tail pins featuring a $.030$ " dia. mating lead. See page 220 for details
- Series 801 sockets MM #4614 or #4615 use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept $.030$ " diameter pins & $.025$ " square pins. See pg. 256 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Compliant Tail Pin Header for .060" - .100" Thick Boards			
	800-XX-0__-61-001000 Specify number of pins 01-64			
FIG. 2	Compliant Tail Pin Header for .090" - .130" Thick Boards			
	800-XX-0__-62-001000 Specify number of pins 01-64			
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=				
Pin Plating				
	10	90	40	
	$10 \mu\text{Au}$	$200 \mu\text{Sn/Pb}$	$200 \mu\text{Sn}$	

FIG. 3	Compliant Tail Socket for .060" - .100" Thick Boards					
	801-XX-0__-61-001000 Specify number of pins 01-50					
FIG. 4	Compliant Tail Socket for .090" - .130" Thick Boards					
	801-XX-0__-62-001000 Specify number of pins 01-50					
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264						
SPECIFY PLATING CODE XX=						
Sleeve (Pin)						
Contact (Clip)						
	91	93	99	41	43	
	$200 \mu\text{Sn/Pb}$	$200 \mu\text{Sn/Pb}$	$200 \mu\text{Sn/Pb}$	$200 \mu\text{Sn}$	$200 \mu\text{Sn}$	
	$10 \mu\text{Au}$	$30 \mu\text{Au}$	$100 \mu\text{Sn/Pb}$	$10 \mu\text{Au}$	$30 \mu\text{Au}$	



INTERCONNECTS

SERIES 802 & 803 • .100" GRID (.030" DIA. PINS), SOLDERLESS PRESS-FIT • DOUBLE ROW STRIPS

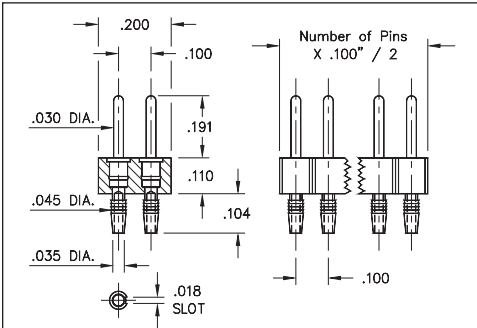


FIG. 1

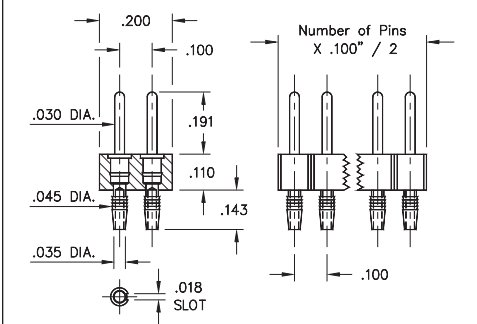


FIG. 2

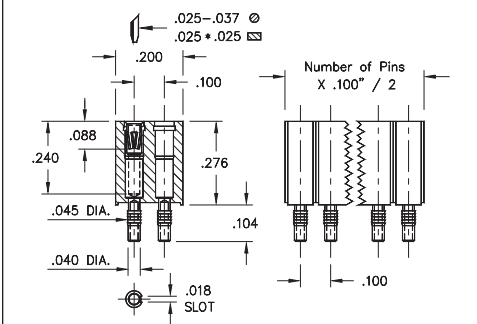


FIG. 3

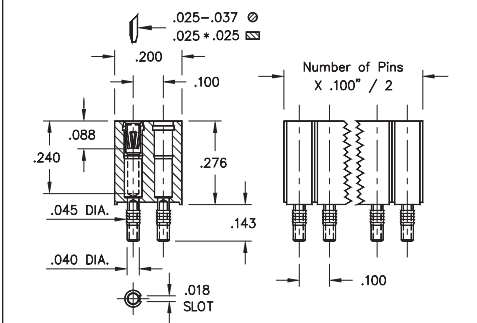
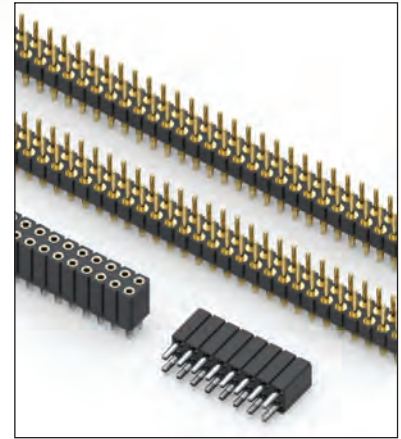


FIG. 4

- The unique compliant tail pins conform to .040"±.003" finished hole without stressing inner layers. Patent No. 4,799,904
- Headers and sockets are available for board thicknesses of .060" - .100" and .090" - .130". See ordering information for details
- Series 802 pin headers use MM #5601 and #5602 compliant tail pins featuring a .030" dia. mating lead. See page 220 for details
- Series 803 sockets with MM #4614 or #4615 pins use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept .030" diameter pins & .025" square pins. See pg. 256 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Compliant Tail Pin Header for .060" - .100" Thick Boards							
	802-XX-0__-61-001000 Specify number of pins ↑ 04-64							
FIG. 2	Compliant Tail Pin Header for .090" - .130" Thick Boards							
	802-XX-0__-62-001000 Specify number of pins ↑ 04-64							
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>								
SPECIFY PLATING CODE XX=								
Pin Plating	10	90	40					
	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn					
FIG. 3	Compliant Tail Socket for .060" - .100" Thick Boards							
	803-XX-__-61-001000 Specify number of pins ↑ 004-100							
FIG. 4	Compliant Tail Socket for .090" - .130" Thick Boards							
	803-XX-__-62-001000 Specify number of pins ↑ 004-100							
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>								
SPECIFY PLATING CODE XX=								
Sleeve (Pin)	11	13	91	93	99	41	43	44
	10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn



INTERCONNECTS

SERIES 800 & 802 • .100" GRID (.030" DIA. PINS), SHROUDED STRAIGHT, SURFACE MOUNT & SOLDERLESS PRESS-FIT • SINGLE AND DOUBLE ROW STRIPS

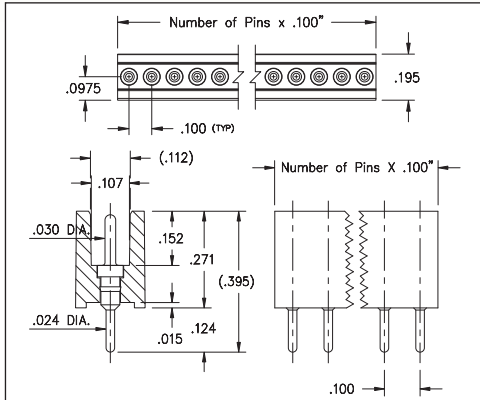


FIG. 1

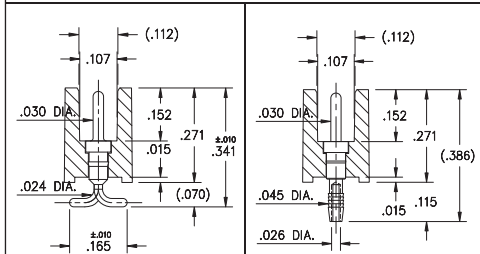


FIG. 2

FIG. 3

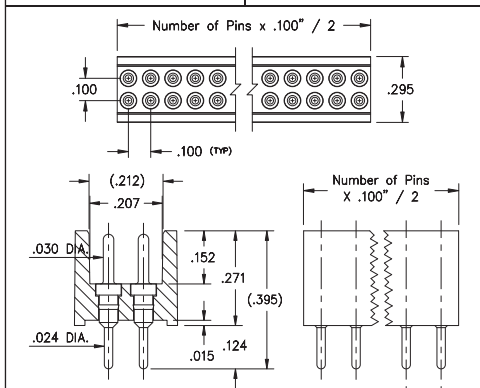


FIG. 4

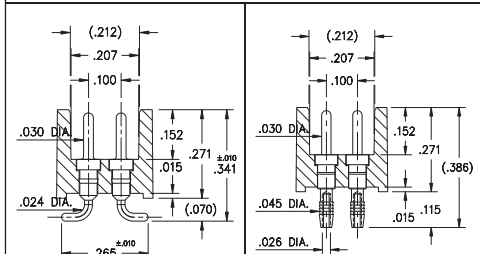


FIG. 5

FIG. 6

- Shrouded pin interconnects available with straight Series 800...10-052 and 802...10-052 or surface mount 800...30-052 and 802...30-052 use MM #5016 pins. See page 215 for details
- Shrouded pin interconnects with solderless press-fit Series 800...61-051 and 802...61-051 use MM #5607 pins. See page 213 for details. The unique compliant tail pins conform to .040" ± .003" finished hole without stressing inner layers. Patent No. 4,799,904
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 800...10-052	Straight Pin Header
FIG. 1	800-10-0_ -10-052000	Specify number of pins → 01-32
FIG. 2	Series 800...30-052	Surface Mount Pin Header
	800-10-0_ -30-052000	Specify number of pins → 03-32
FIG. 3	Series 800...61-051	Compliant Tail Pin Header
	800-10-0_ -61-051000	Specify number of pins → 01-32
FIG. 4	Series 802...10-052	Straight Pin Header
	802-10-0_ -10-052000	Specify number of pins → 04-64
FIG. 5	Series 802...30-052	Surface Mount Pin Header
	802-10-0_ -30-052000	Specify number of pins → 04-64
FIG. 6	Series 802...61-051	Compliant Tail Pin Header
	802-10-0_ -61-051000	Specify number of pins → 04-64



XX=Plating Code
See Below

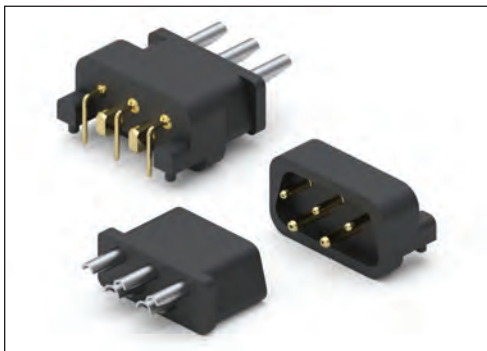
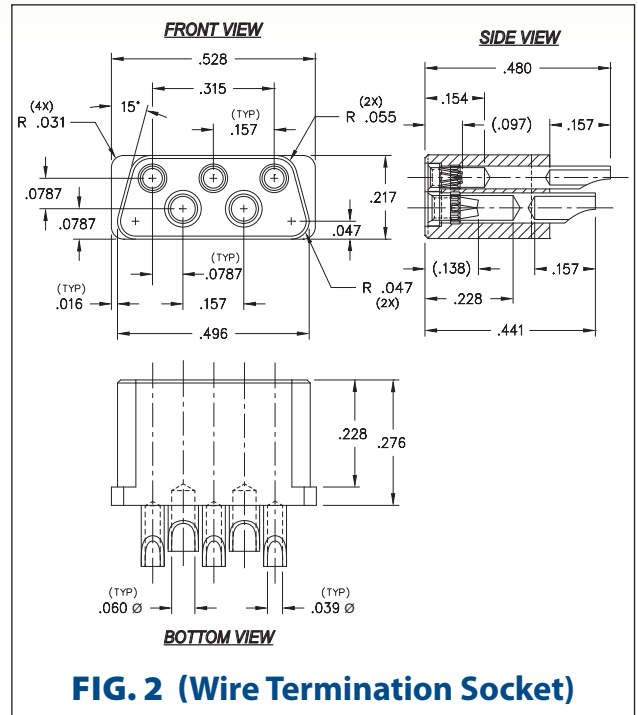
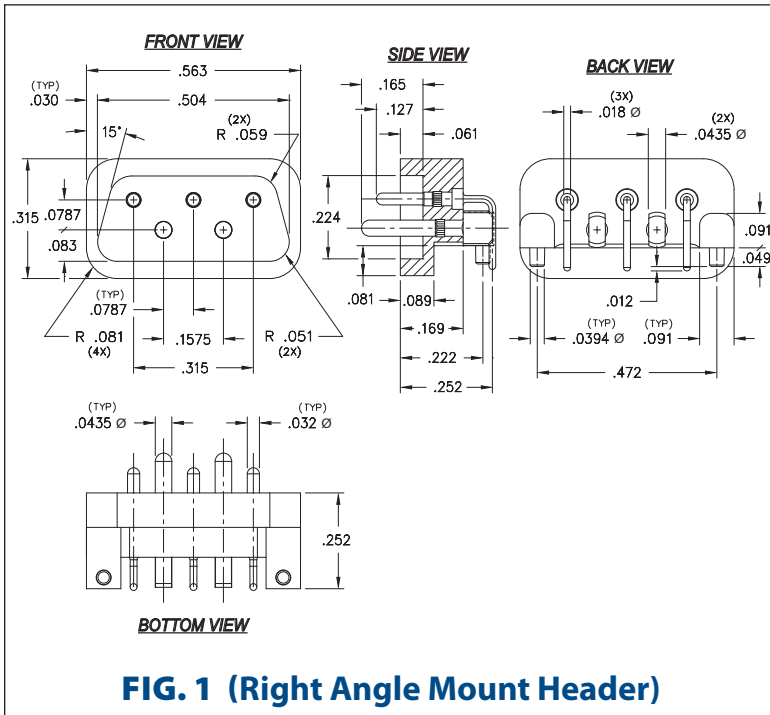
For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◇		
Pin Plating 	10 μ" Au		



INTERCONNECTS

SERIES 888 • 2MM GRID (.032" AND .044" DIA. PINS), SIGNAL POWER SHROUDED HEADER & SOCKET CONNECTOR



- Series 888_002 right angle & surface mount P.C.B. headers have .032" & .044" dia. pins (MM #5065, #5066). See pages 213 and 224 for details
- Series 888_001 mating soldercup sockets use (MM #5070-0 and #5084-0) receptacles for terminating 22 AWG & 18AWG stranded wires. See pages 176 and 185 for details
- Receptacles use Hi-Rel, 6-finger BeCu #16 contacts rated at 4.5 amps and Hi-Rel, 4-finger BeCu #34 contacts rated at 8 amps. See pages 256 and 258 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations and shrouded for accurate alignment

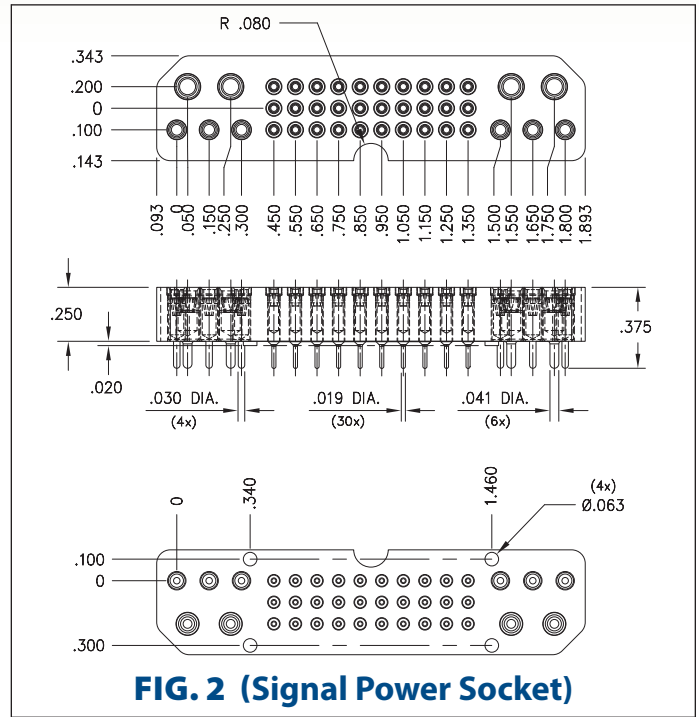
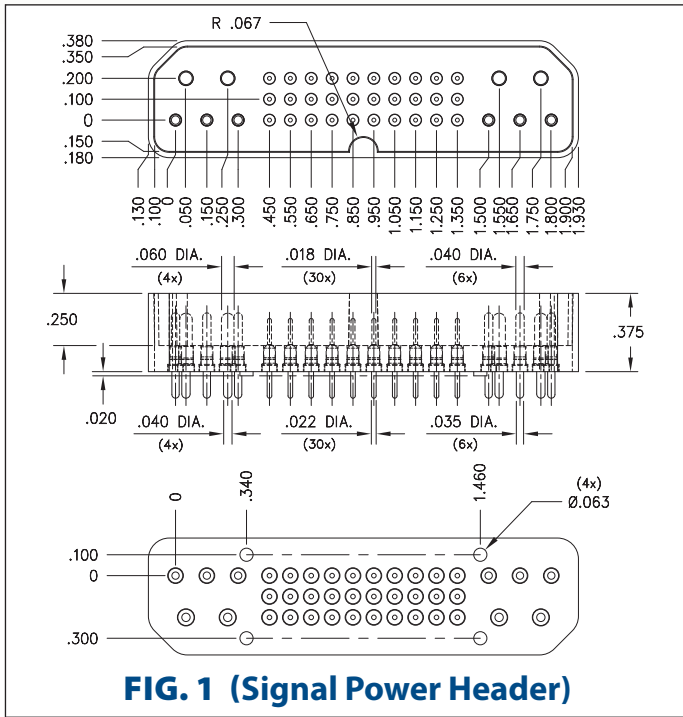
ORDERING INFORMATION

FIG. 1	Series 888...002	5 Pin Right Angle Board Mount Header				
			888-30-005-20-002000			
SPECIFY PLATING CODE XX=			30			
Pin Plating			30 μ" Au			
FIG. 2	Series 888...001	5 Pin Wire Termination Socket				
			888-93-005-00-001000			
SPECIFY PLATING CODE XX=			93			
Sleeve (Pin)			200 μ" Sn/Pb			
Contact (Clip)			30 μ" Au			



INTERCONNECTS

SERIES 808 & 809 • .100" GRID (.018" DIA. PINS), STRAIGHT, SIGNAL POWER SHROUDED HEADER & SOCKET CONNECTOR



- Series 808 and 809 signal power header & socket have a mated height of .415"
- Series 808 headers have .018" diameter (MM #3503), .040" diameter (MM #3502) and .060" diameter (MM #3501) solder tails. See pages 213 and 214 for details
- Series 809 sockets use MM #0405-0, #8852-0 and #9324-0 receptacles. See pages 170, 182 and 189 for details
- Receptacles use Hi-Rel, 4-finger BeCu #32 and #34 contacts & Hi-Rel, 6-finger BeCu #23 contacts. See pages 253, 258 and 260 for details
- Insulators are high temperature thermoplastic, suitable for most soldering processes, and feature standoffs to promote solder flow

ORDERING INFORMATION

FIG. 1	Series 808...151	Shrouded Signal Power Header			
	808-10-040-10-151000				
SPECIFY PLATING CODE XX=		10			
Pin Plating		10 μ" Au			

FIG. 2	Series 809...001	Signal Power Socket			
	809-43-040-10-001000				
SPECIFY PLATING CODE XX=					43
Sleeve (Pin)					200 μ" Sn
Contact (Clip)					30 μ" Au



INTERCONNECTS

SERIES 349, 449, 800, 801, 802, 803 • .100" GRID (.030" DIA. PINS), SURFACE MOUNT HEADERS & SOCKETS • SINGLE AND DOUBLE ROW STRIPS

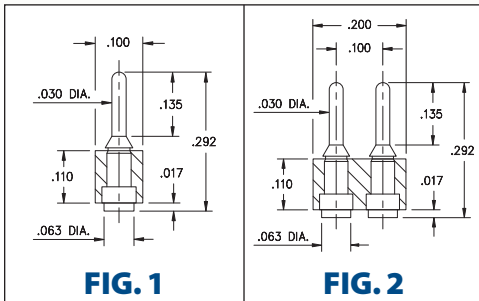


FIG. 1

FIG. 2

- Series 349 & 449 use MM #4956-1 pins. See page 218 for details
- Series 800 & 802 use MM #7007 pins. See page 215 for details
- Series 801 & 803 use MM #1304 receptacles and accept pin diameters from .025"-.037" and .025" square pins. See page 177 for details
- Receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations

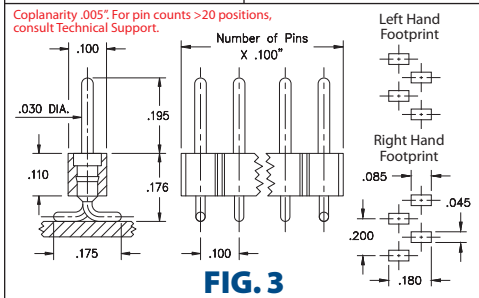


FIG. 3

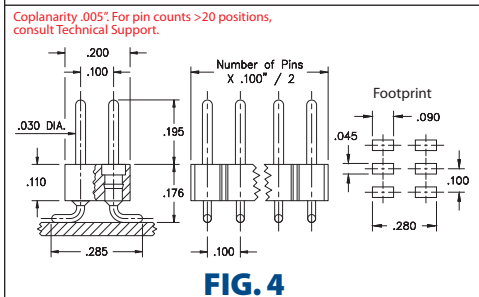


FIG. 4

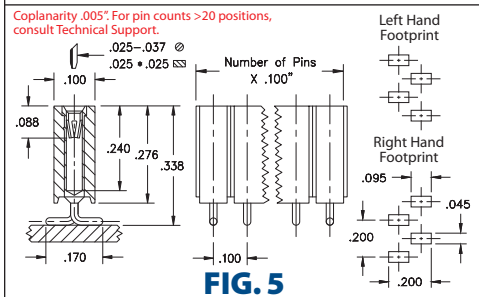


FIG. 5

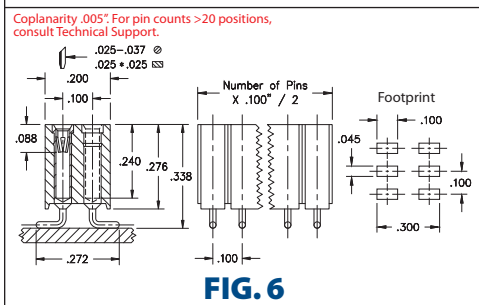


FIG. 6

ORDERING INFORMATION

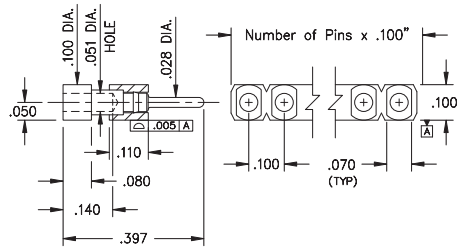
FIG. 1	Series 349...560	Single Row Surface Mount Header		
	349-10-1	-00-560000	Specify number of pins	02-64
FIG. 2	Series 449...560	Double Row Surface Mount Header		
	449-10-2	-00-560000	Specify number of pins	04-64
FIG. 3	Series 800...001	Single Row Surface Mount Header		
	800-10-0	-30-001000	Specify number of pins	03-64
FIG. 4	Series 802...001	Double Row Surface Mount Header		
	802-10-0	-30-001000	Specify number of pins	04-72
SPECIFY PLATING CODE XX=		10	◆	
Pin Plating		10 μ" Au		
FIG. 5	Series 801...001	Single Row Surface Mount Socket		
	801-43-0	-30-001000	Specify number of pins	03-50
FIG. 6	Series 803...001	Double Row Surface Mount Socket		
	803-XX-	-30-001000	Specify number of pins	004-100
		XX=Plating Code See Below		For Electrical, Mechanical & Environmental Data, See page 264
SPECIFY PLATING CODE XX=		93	◆	43
Sleeve (Pin)		200 μ" Sn/Pb		200 μ" Sn
Contact (Clip)		30 μ" Au		30 μ" Au



INTERCONNECTS

SERIES 800, 801, 830 • .100" GRID (.030" DIA. PINS), SURFACE MOUNT HEADERS AND SOCKETS • SINGLE ROW STRIPS

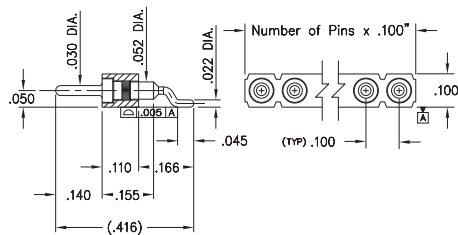
Mates with Series 801...002 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity .005". For pin counts >10 positions, consult Technical Support.

FIG. 1

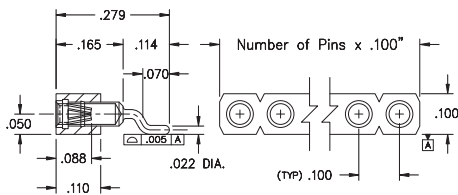
Mates with Series 801...002 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity .005". For pin counts >10 positions, consult Technical Support.

FIG. 2

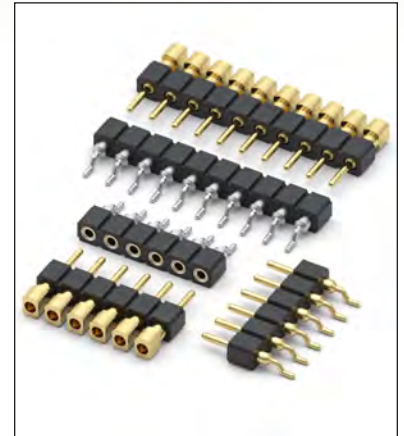
Mates with Series 800...002 and 830...028 Surface Mount Header (See Fig. 1 & 2)



Coplanarity .005". For pin counts >10 positions, consult Technical Support.

FIG. 3

- Series 800 horizontal surface mount headers are available with .028" dia. pluggable pins (MM #1502). Series 830 horizontal surface mount z-bend headers use MM #3028 pins. See page 224 for details
- Series 801 horizontal surface mount Z-Bend sockets uses MM #1303 receptacles that accept pin diameters from .025"-.037" and .025" square leads. See pages 180 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- Ideal for daisy chaining parallel boards



ORDERING INFORMATION

FIG. 1	Series 800...002 .028" Dia. Surface Mount Header	800-10-0__-40-002000
	Specify number of pins	02-10
FIG. 2	Series 830...028 .030" Dia. Surface Mount Z-Bend Header	830-XX-0__-40-028000
	Specify number of pins	02-10
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		10 40
Pin Plating		10 μ" Au 200 μ" Sn

FIG. 3	Series 801...002 .028" Dia. Surface Mount Z-Bend Socket	801-XX-0__-40-002000
	Specify number of pins	02-10
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		91 93 99 41 43 44
Sleeve (Pin)		200 μ"Sn/Pb 200 μ"Sn/Pb 200 μ"Sn/Pb 200 μ"Sn 200 μ"Sn 200 μ"Sn
Contact (Clip)		10 μ" Au 30 μ" Au 100 μ"Sn/Pb 10 μ" Au 30 μ" Au 100 μ"Sn



INTERCONNECTS

SERIES 804 & 805 • .100" GRID (.030" DIA. PINS), HEADERS AND SOCKETS • TRIPLE ROW

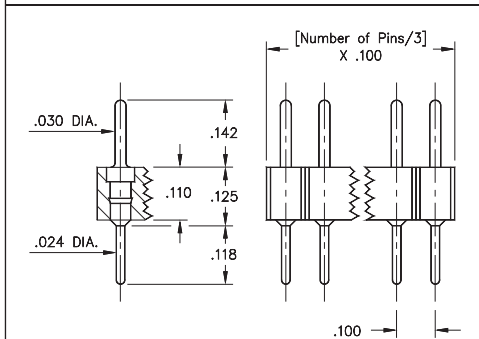
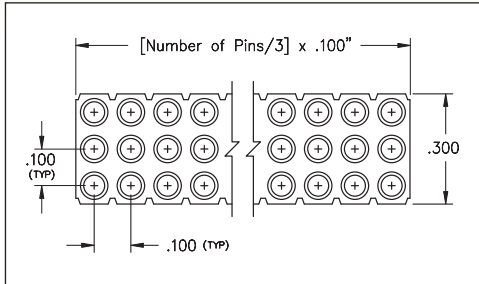


FIG. 1

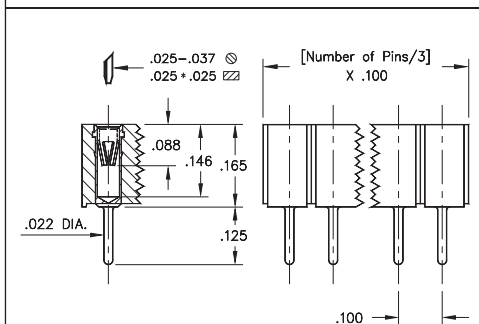
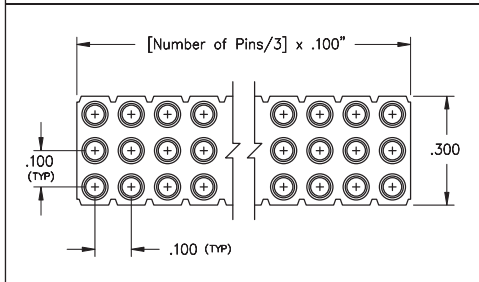
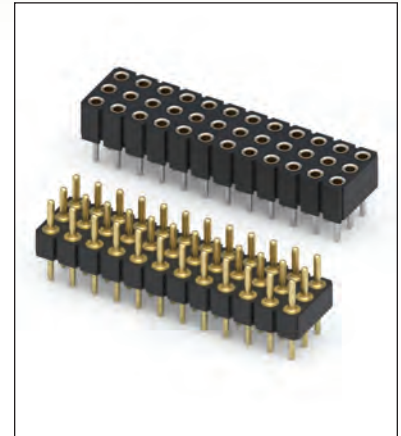


FIG. 2

- Series 804 triple row .100" grid headers uses MM #5016 pins. See page 215 for details
- Series 805 triple row .100" grid sockets uses MM #1303 pins. See page 180 for details
- Series 805 triple row .100" grid sockets uses Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

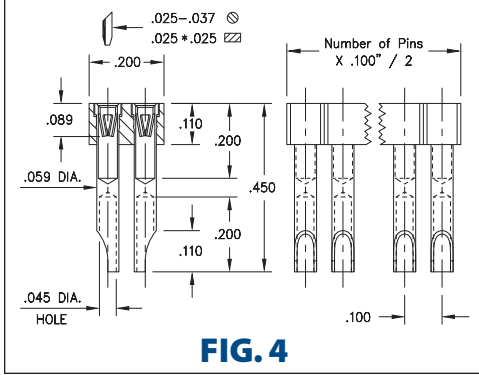
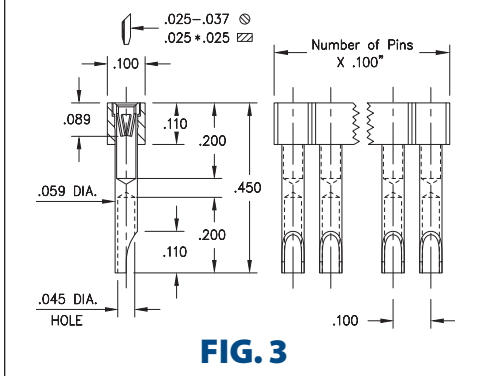
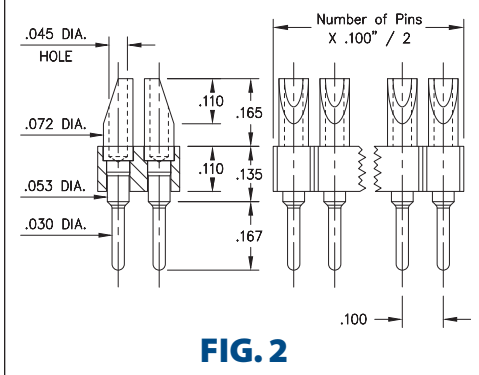
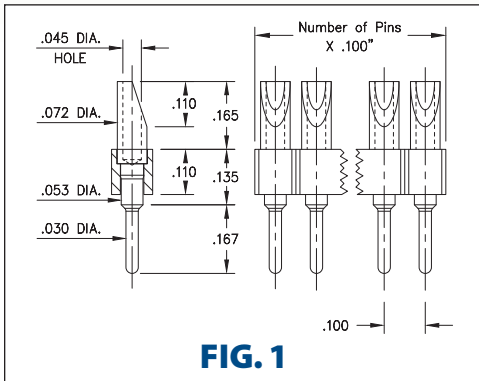
FIG. 1	Series 804...002	Straight Pin Header			
	804-10-0	-10-002000			
	Specify number of pins	09-96			
	RoHS - 2 2011/65/EU	XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264		
	SPECIFY PLATING CODE XX=	10			
	Pin Plating	10 μ" Au			

FIG. 2	Series 805...012	Straight Pin Socket			
	805-43-0	-10-012000			
	Specify number of pins	09-96			
	RoHS - 2 2011/65/EU	XX=Plating Code See Below	For Electrical, Mechanical & Environmental Data, See page 264		
	SPECIFY PLATING CODE XX=				43
	Sleeve (Pin)				200 μ" Sn
	Contact (Clip)				30 μ" Au



INTERCONNECTS

SERIES 800, 801, 802, 803 • .100" GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS



- Series 800 and 802 use MM #1107 pins. See page 218 for details
- Series 801 and 803 use MM #1134 pin receptacles and accept pin diameters from .025"-0.37" and .025" square pins. See page 177 for details
- Series 801 and 803 receptacles use Hi-Rel, 4-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Solder cups are pre-aligned and accept up to 20 AWG wire
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...007 Single Row Solder Cup / Solder Tail
	800-XX-0__-10-007000 Specify number of pins ↑ 02-64
FIG. 2	Series 802...007 Double Row Solder Cup / Solder Tail
	802-XX-0__-10-007000 Specify number of pins ↑ 02-64
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264	
SPECIFY PLATING CODE XX=	
Pin Plating	10 40
	10 μ" Au 200 μ" Sn

FIG. 3	Series 801...007 Single Row Solder Cup Sockets
	801-13-0__-10-007000 Specify number of pins ↑ 02-64
FIG. 4	Series 803...007 Double Row Solder Cup Sockets
	803-13-0__-10-007000 Specify number of pins ↑ 02-64
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264	
SPECIFY PLATING CODE XX=	
Sleeve (Pin)	13
Contact (Clip)	30 μ" Au



INTERCONNECTS

SERIES 800, 801, 802, 803 • .100" GRID (.040" DIA. PINS), HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

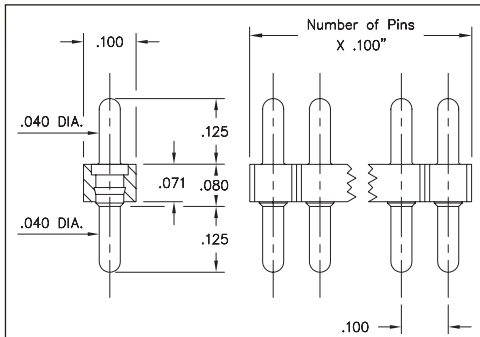


FIG. 1

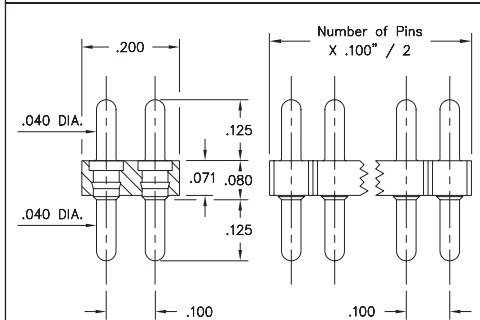


FIG. 2

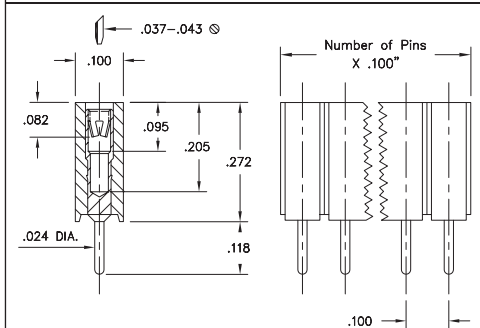


FIG. 3

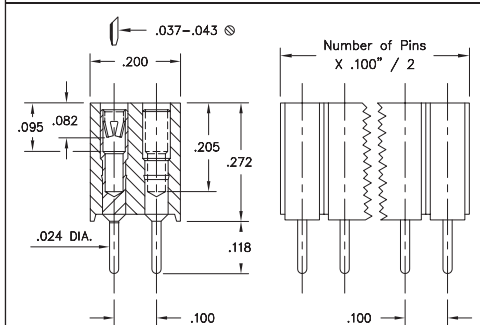
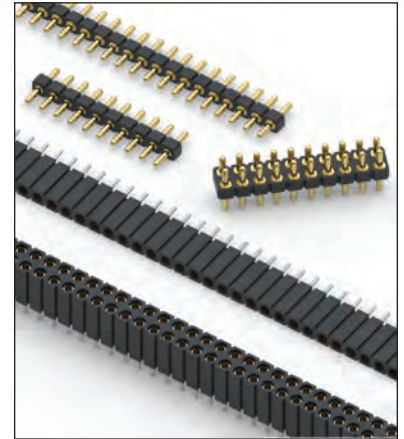


FIG. 4

- Series 800 and 802 single and double row interconnects feature sturdy .040" dia. leads (MM #3077) and low profile (.071" thick) insulator. See page 215 for details
- Series 801 and 803 single and double row sockets use MM #1313 receptacles. See page 181 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #18 contact rated at 8 amps. Receptacles accept .037"-.043" diameter pins. See page 257 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...10-004	Single Row Pin Header		
	800-XX-0-10-004000	Specify number of pins: 01-50		
FIG. 2	Series 802...10-004	Double Row Pin Header		
	802-XX-10-004000	Specify number of pins: 004-100		
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn

FIG. 3	Series 801...10-004	Single Row Socket						
	801-XX-0-10-004000	Specify number of pins: 01-50						
FIG. 4	Series 803...10-004	Double Row Socket						
	803-XX-10-004000	Specify number of pins: 004-100						
XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264								
SPECIFY PLATING CODE XX=		13	91	93	99	41	43	44
Sleeve (Pin)		10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)		30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn

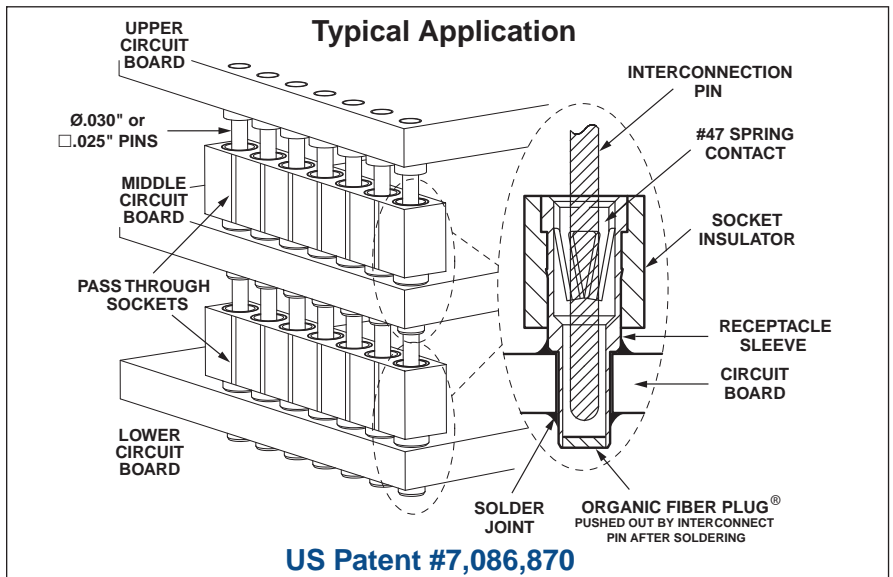
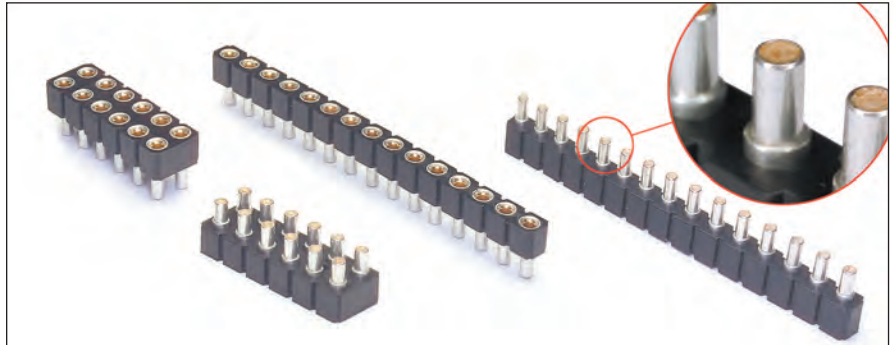


INTERCONNECTS

SERIES 834 & 835 • .100" GRID OFP® PASS-THROUGH SOCKETS Ø.030" & □.025" PINS • SINGLE AND DOUBLE ROW STRIPS

- 834/835 Series Pass-Through Sockets have a low .130" profile and will accept Ø.030" round pin, as well as industry standard .025" square pin headers.
- They are typically used to interconnect two or more parallel circuit boards.
- Sockets are designed for hand, wave or reflow* soldering. The high temperature insulator is compatible with all solder processes.
- Unique ORGANIC FIBRE PLUG® barriers prevent solder, paste or flux from contaminating the internal spring contacts. After soldering, the OFP® barriers are pushed out of the socket when the mating header is inserted.
- Mill-Max sockets use a receptacle consisting of a precision-machined brass sleeve with a press-fit beryllium copper "multi-finger" spring contact.
- Recommended mounting holes are Ø.046 ±.003" PTH (1,2 mm drilled prior to plating).

*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The pass-through socket is placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The OFP® barrier prevents solder paste from being picked up inside the contact during assembly.



ORDERING INFORMATION

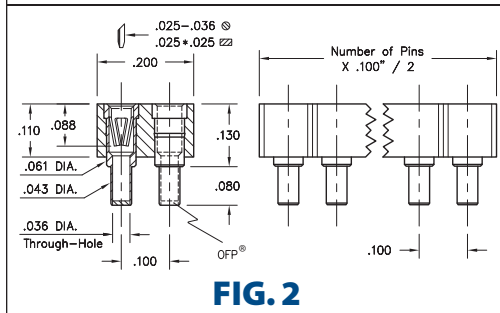
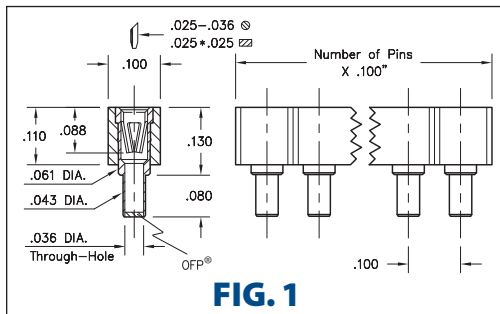


FIG. 1	Series 834...001 Single Row OFP® Pass-Through Socket	834-XX-0 -10-001000
	Specify number of pins	01-64
FIG. 2	Series 835...001 Double Row OFP® Pass-Through Socket	835-XX-0 -10-001000
	Specify number of pins	04-72
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid green; padding: 5px; color: green; font-weight: bold;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>		
SPECIFY PLATING CODE XX=		93
Sleeve (Pin)		200 µ" Sn/Pb
Contact (Clip)		30 µ" Au
		43 ◆ 47 ◆
		200 µ" Sn 200 µ" Sn
		30 µ" Au Au Flash



INTERCONNECTS

SERIES 800 & 801 • .200" GRID (.030" DIA. PINS), STRAIGHT AND RIGHT ANGLE • SINGLE ROW STRIPS

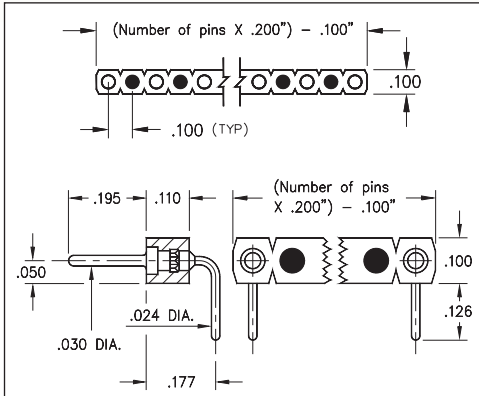


FIG. 1

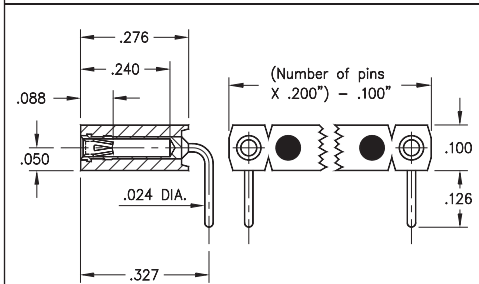


FIG. 2

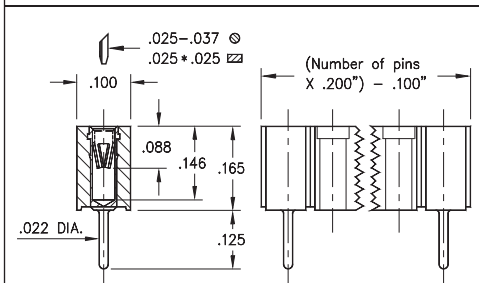


FIG. 3

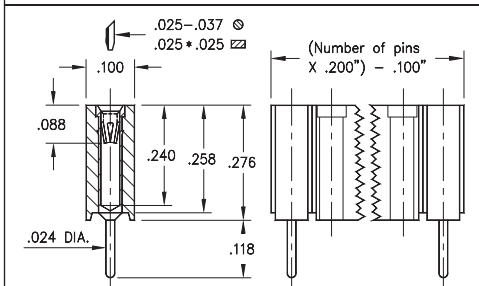
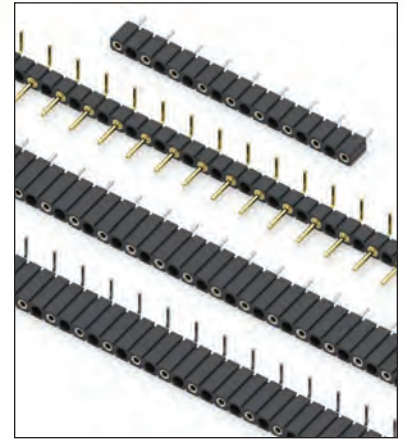


FIG. 4

- Series 800 selectively loaded headers uses MM #5005 pins. See page 215 for details
- Series 801 selectively loaded sockets use MM #1303, #1304 and #1305 pins. See pages 177, 179 & 180 for details
- Series 801 selectively loaded sockets use Hi-Rel, 6-finger BeCu #47 contact rated at 3 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...20-201	Right Angle Header
	800-10-0_-20-201000 Specify number of pins → 02-32	
SPECIFY PLATING CODE XX=		
Pin Plating		
	10	10 μ" Au

FIG. 2	Series 801...20-201	Right Angle Socket
	801-XX-0_-20-201000 Specify number of pins → 02-25	
FIG. 3	Series 801...10-212	Straight Socket
	801-43-0_-10-212000 Specify number of pins → 02-18	
FIG. 4	Series 801...10-201	Straight Socket
	801-43-0_-10-201000 Specify number of pins → 02-25	
SPECIFY PLATING CODE XX=		
Sleeve (Pin)		
Contact (Clip)		
	41	43
	200 μ" Sn	200 μ" Sn
	10 μ" Au	30 μ" Au

INTERCONNECTS

SERIES 310, 311, 315 • .100" GRID SOLDER TAIL • SINGLE ROW STRIPS

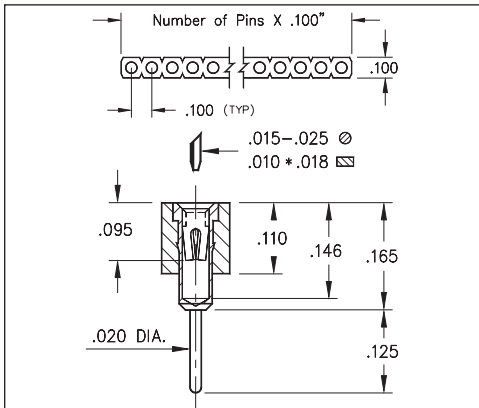


FIG. 1

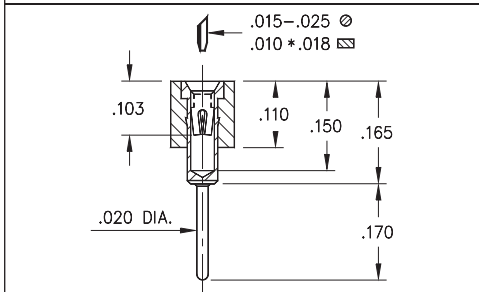


FIG. 2

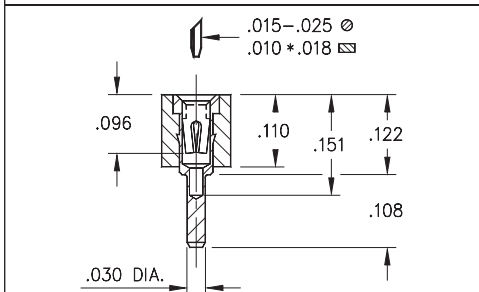


FIG. 3

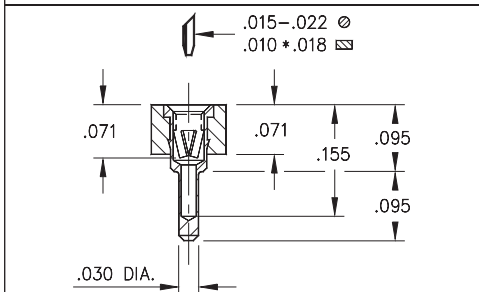
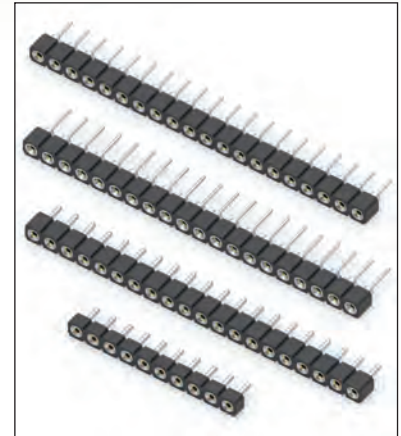


FIG. 4

- SIP sockets accept .015 - .025" diameter pins and standard IC leads
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, #0134, #0501 or #1534 pins. See pages 161, 162 and 165 for details
- Hi-Rel, 4-finger BeCu #12 and #30 contact are rated at 3 amps. See pages 252 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 310...001	Standard Solder Tail
FIG. 1	310-XX-1	-41-001000 Specify number of pins → 01-64
FIG. 2	Series 311...001	Long Solder Tail
	311-XX-1	-41-001000 Specify number of pins → 01-64
FIG. 3	Series 315...001	Very Low Profile
	315-XX-1	-41-001000 Specify number of pins → 01-64
FIG. 4	Series 315...003	Ultra Low Profile
	315-XX-1	-41-003000 Specify number of pins → 01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	11	13	91	93	99	41	43	44	47
Sleeve (Pin)	10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn	Au Flash

★ 41 & 91 Platings Non-Standard



INTERCONNECTS

SERIES 410, 411, 415 • .100" GRID SOLDER TAIL • DOUBLE ROW STRIPS

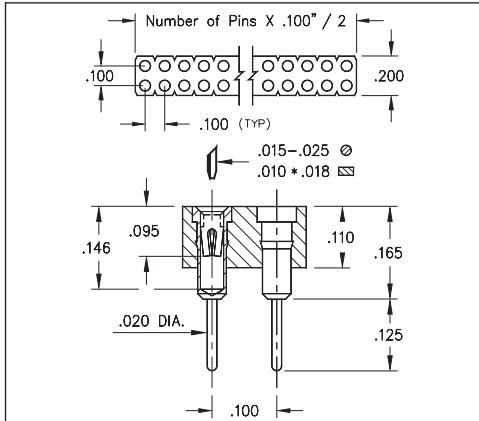


FIG. 1

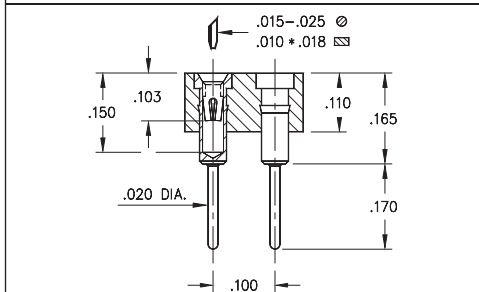


FIG. 2

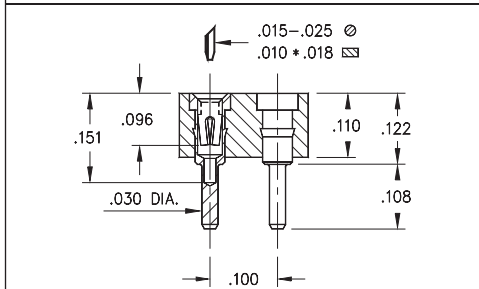


FIG. 3

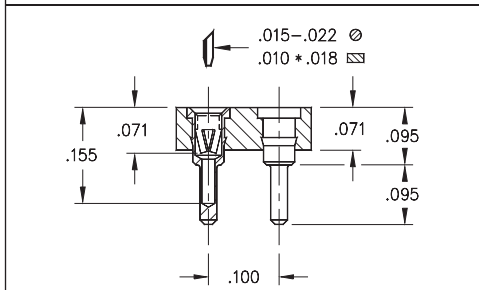
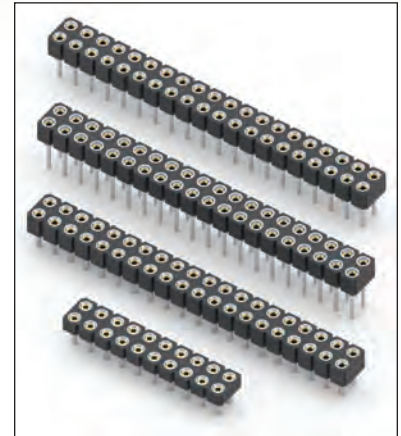


FIG. 4

- Series 41X double row strip sockets are on .100" grid
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, #0134, #0501 or #1534 pins. See pages 161, 162 and 165 for details
- Hi-Rel, 4-finger BeCu #12 and #30 contact are rated at 3 amps. See pages 252 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 410...001	Standard Solder Tail
FIG. 1	410-XX-2	-41-001000 Specify number of pins → 04-64
FIG. 2	Series 411...001	Long Solder Tail
	411-XX-2	-41-001000 Specify number of pins → 04-64
FIG. 3	Series 415...001	Very Low Profile
	415-XX-2	-41-001000 Specify number of pins → 04-64
FIG. 4	Series 415...003	Ultra Low Profile
	415-XX-2	-41-003000 Specify number of pins → 04-64
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)	10 μ" Au	13 μ" Au
Contact (Clip)	10 μ" Au	30 μ" Au
	200 μ" Sn/Pb	10 μ" Au
	200 μ" Sn/Pb	30 μ" Au
	200 μ" Sn	10 μ" Au
	200 μ" Sn	30 μ" Au



INTERCONNECTS

SERIES 316 • .100" GRID ELEVATED • SINGLE ROW STRIPS

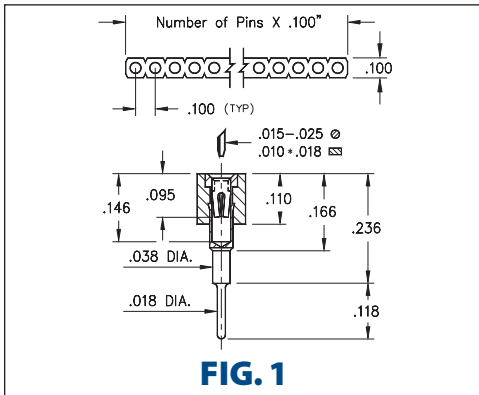


FIG. 1

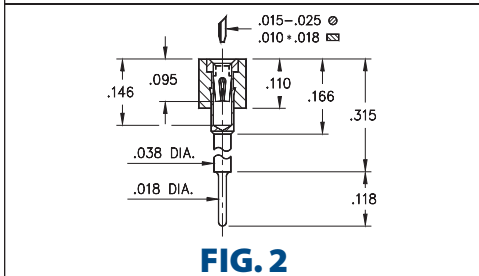


FIG. 2

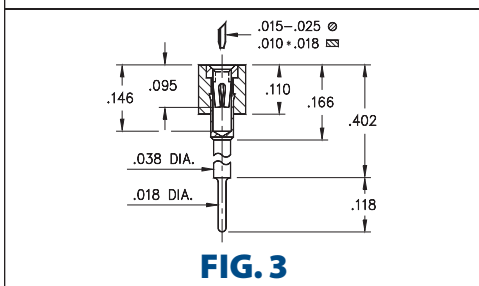


FIG. 3

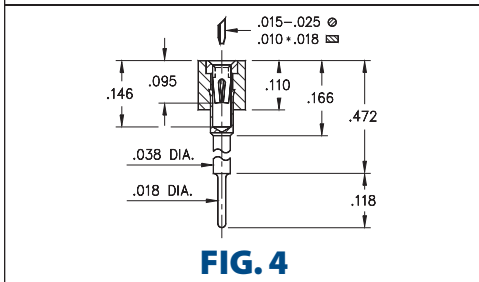


FIG. 4

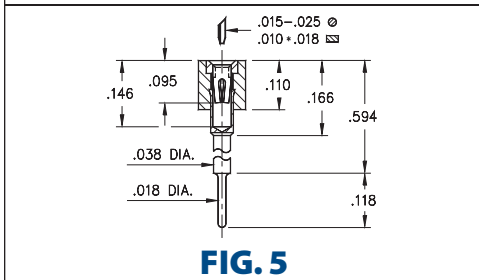


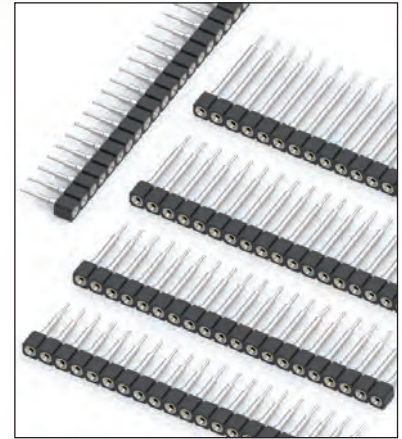
FIG. 5

- Elevated socket strips are available in 5 different heights:

316...006 uses pin # 0153-1
 316...003 uses pin # 0153-2
 316...007 uses pin # 0153-3
 316...008 uses pin # 0153-4
 316...001 uses pin # 0153-5
 See page 167 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations





ORDERING INFORMATION

FIG. 1	Series 316...006 Standoff Height = .236
	316-XX-1 -41-006000 Specify number of pins 01-64
FIG. 2	Series 316...003 Standoff Height = .315
	316-XX-1 -41-003000 Specify number of pins 01-64
FIG. 3	Series 316...007 Standoff Height = .402
	316-XX-1 -41-007000 Specify number of pins 01-64
FIG. 4	Series 316...008 Standoff Height = .472
	316-XX-1 -41-008000 Specify number of pins 01-64
FIG. 5	Series 316...001 Standoff Height = .594
	316-XX-1 -41-001000 Specify number of pins 01-64



XX=Plating Code
See Below

For Electrical, Mechanical & Environmental Data, See page 264

SPECIFY PLATING CODE XX=	91	93	41	43	47
Sleeve (Pin) 	200 μ"Sn/Pb	200 μ"Sn/Pb	200 μ"Sn	200 μ"Sn	200 μ"Sn
Contact (Clip) 	10 μ"Au	30 μ"Au	10 μ"Au	30 μ"Au	Au Flash



INTERCONNECTS

SERIES 416 • .100" GRID ELEVATED • DOUBLE ROW STRIPS

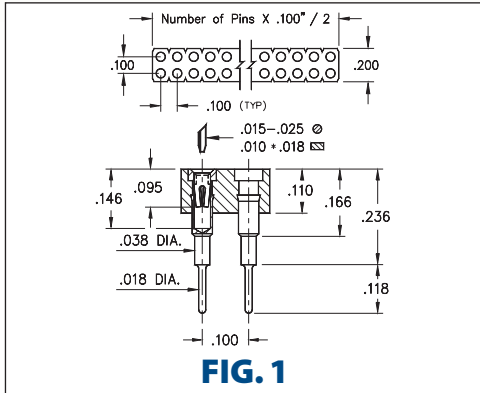


FIG. 1

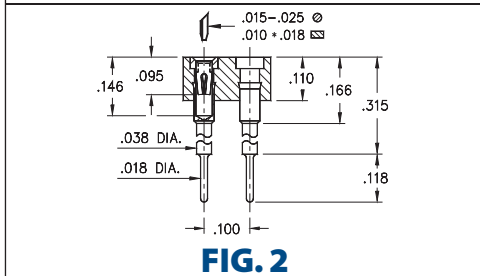


FIG. 2

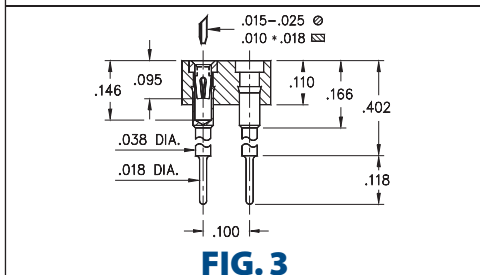


FIG. 3

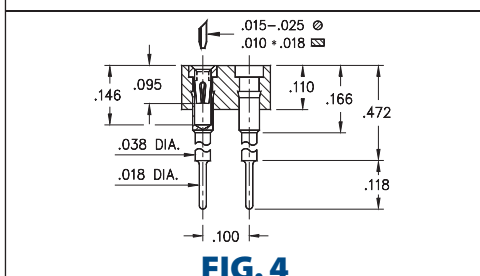


FIG. 4

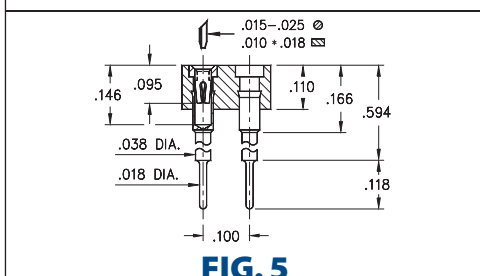


FIG. 5

- Elevated socket strips are available in 5 different heights:

416...006 uses pin # 0153-1
 416...003 uses pin # 0153-2
 416...007 uses pin # 0153-3
 416...008 uses pin # 0153-4
 416...001 uses pin # 0153-5
 See page 167 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 416...006	Standoff Height = .236
FIG. 1	416-XX-2	-41-006000
	Specify number of pins	04-64
	Series 416...003	Standoff Height = .315
FIG. 2	416-XX-2	-41-003000
	Specify number of pins	04-64
	Series 416...007	Standoff Height = .402
FIG. 3	416-XX-2	-41-007000
	Specify number of pins	04-64
	Series 416...008	Standoff Height = .472
FIG. 4	416-XX-2	-41-008000
	Specify number of pins	04-64
	Series 416...001	Standoff Height = .594
FIG. 5	416-XX-2	-41-001000
	Specify number of pins	04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	91	93	41	43
Sleeve (Pin)	200 μ"Sn/Pb	200 μ"Sn/Pb	200 μ"Sn	200 μ"Sn
Contact (Clip)	10 μ"Au	30 μ"Au	10 μ"Au	30 μ"Au



INTERCONNECTS

SERIES 321, 322, 323, 324 • .100" GRID WRAPOST • SINGLE ROW STRIPS

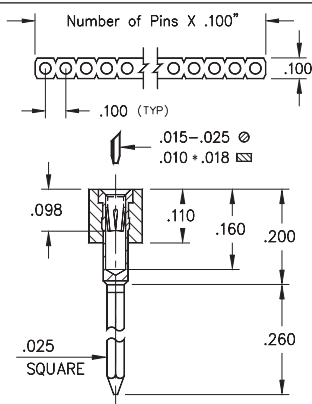


FIG. 1

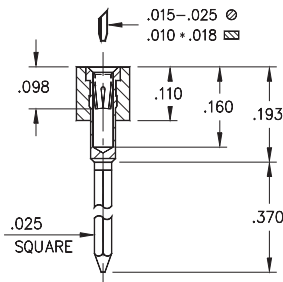


FIG. 2

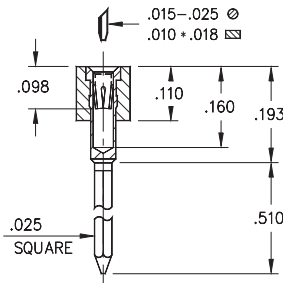


FIG. 3

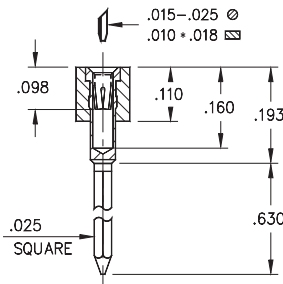


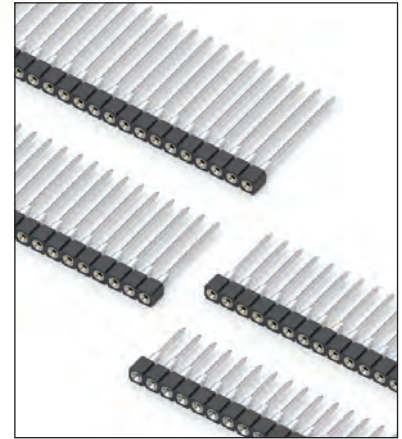
FIG. 4

• Wraposts available in 1 - 4 levels using MM pin numbers:

- 1-Level uses pin # 0040-1
 - 2-Level uses pin # 0089-2
 - 3-Level uses pin # 0088-3
 - 4-Level uses pin # 0086-4
- See page 198 for details

• Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

• Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 321...001	1 Level Wrapost
FIG. 1	321-13-1	-41-001000 ↑ Specify number of pins 01-64
	Series 322...001	2 Level Wrapost
FIG. 2	322-XX-1	-41-001000 ↑ Specify number of pins 01-64
	Series 323...001	3 Level Wrapost
FIG. 3	323-XX-1	-41-001000 ↑ Specify number of pins 01-64
	Series 324...002	4 Level Wrapost
FIG. 4	324-XX-1	-41-002000 ↑ Specify number of pins 01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	11	13	91	93	41	43
Sleeve (Pin)	10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn
Contact (Clip)	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au



INTERCONNECTS

SERIES 421, 422, 423, 424 • .100" GRID WRAPPOST • DOUBLE ROW STRIPS

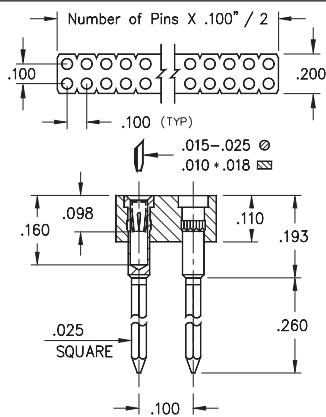


FIG. 1

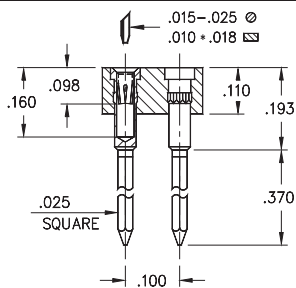


FIG. 2

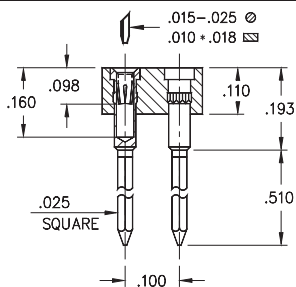


FIG. 3

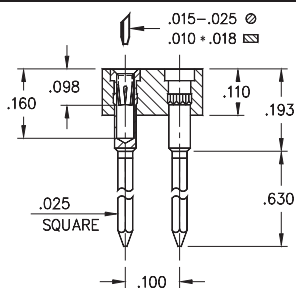


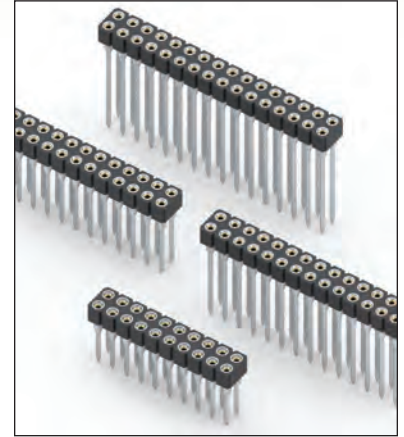
FIG. 4

- Wrappost double row strip sockets are available with 1 - 4 level wrapposts:

- 1-Level uses pin # 0040-1
 - 2-Level uses pin # 0089-2
 - 3-Level uses pin # 0088-3
 - 4-Level uses pin # 0086-4
- See page 198 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 421...001	1 Level Wrappost
FIG. 1	421-XX-2	-41-001000
	Specify number of pins	04-64
	Series 422...001	2 Level Wrappost
FIG. 2	422-XX-2	-41-001000
	Specify number of pins	04-64
	Series 423...001	3 Level Wrappost
FIG. 3	423-XX-2	-41-001000
	Specify number of pins	04-64
	Series 424...002	4 Level Wrappost
FIG. 4	424-XX-2	-41-002000
	Specify number of pins	04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn
Contact (Clip)	30 μ" Au	30 μ" Au	30 μ" Au



INTERCONNECTS

SERIES 326 • .100" GRID WRAPOST WITH SOLDER TAIL • SINGLE ROW STRIPS

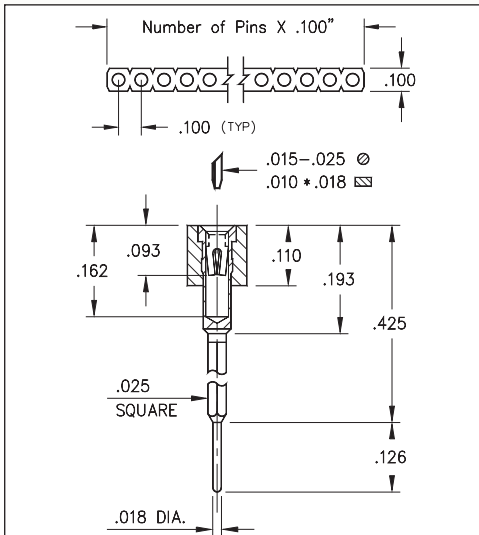


FIG. 1

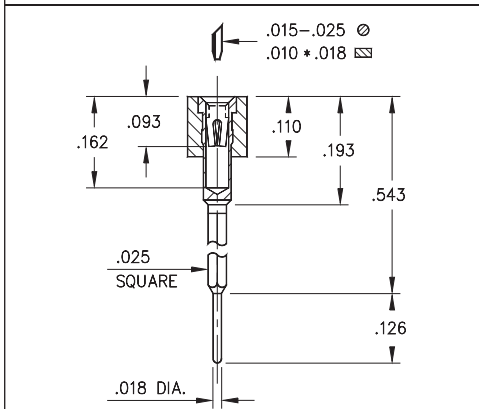


FIG. 2

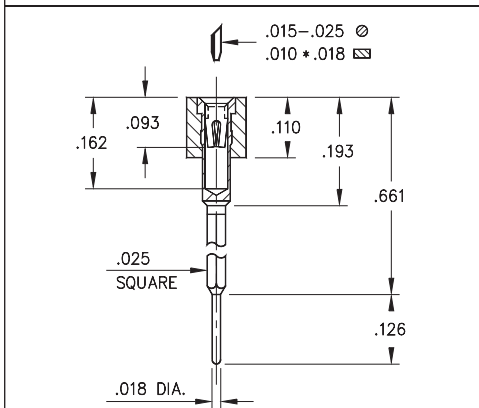


FIG. 3

- Wrapost / Solder Tail combinations are available in 3 lengths using MM pin numbers:

326...001 uses pin # 2601

326...002 uses pin # 2602

326...003 uses pin # 2603

See page 199 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 326...001	1 Level Wrapost
FIG. 1	326-XX-1	-41-001000
	Specify number of pins	01-64
FIG. 2	Series 326...002	2 Level Wrapost
	326-XX-1	-41-002000
	Specify number of pins	01-64
FIG. 3	Series 326...003	3 Level Wrapost
	326-XX-1	-41-003000
	Specify number of pins	01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	91	93	41	43
Sleeve (Pin)	200 μ"Sn/Pb	200 μ"Sn/Pb	200 μ"Sn	200 μ"Sn
Contact (Clip)	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au



INTERCONNECTS

SERIES 426 • .100" GRID WRAPOST WITH SOLDER TAIL • DOUBLE ROW STRIPS

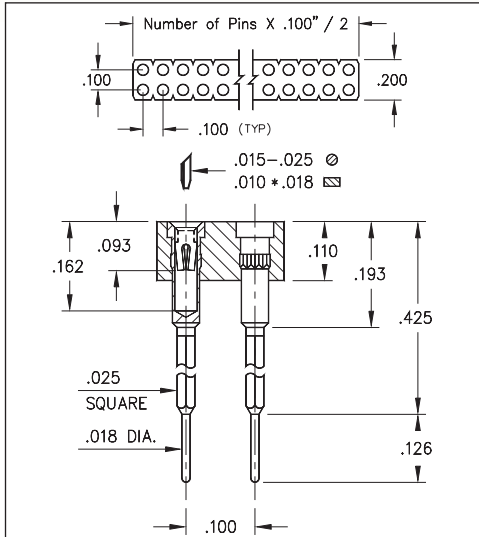


FIG. 1

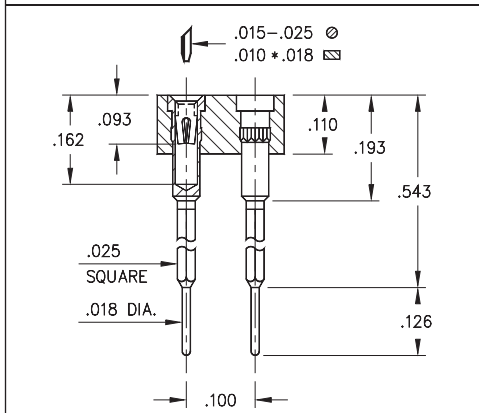


FIG. 2

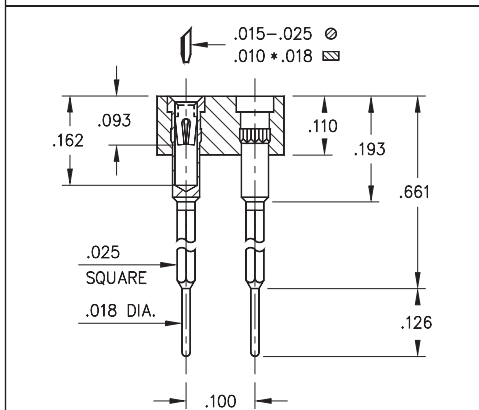


FIG. 3

- Wrapost / Solder Tail combination for interconnect purposes are available in 3 lengths using pin numbers:

426...001 uses pin # 2601

426...002 uses pin # 2602

426...003 uses pin # 2603

See page 199 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 426...001	1 Level Wrapost
FIG. 1	426-XX-2	-41-001000
	Specify number of pins	04-64
	Series 426...002	2 Level Wrapost
FIG. 2	426-XX-2	-41-002000
	Specify number of pins	04-64
	Series 426...003	3 Level Wrapost
FIG. 3	426-XX-2	-41-003000
	Specify number of pins	04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn
Contact (Clip)	30 μ" Au	30 μ" Au	30 μ" Au



INTERCONNECTS

SERIES 304, 346 • .100" GRID SOLDERLESS PRESS-FIT • SINGLE ROW STRIPS

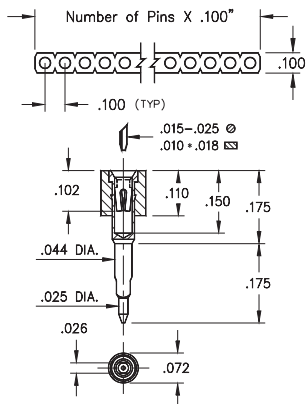


FIG. 1

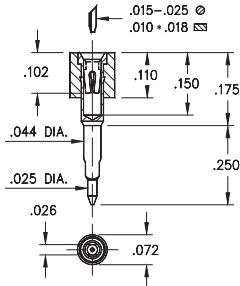


FIG. 2

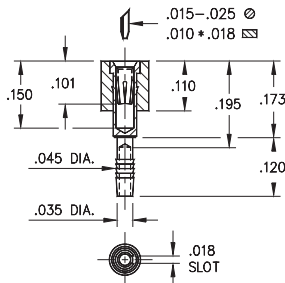


FIG. 3

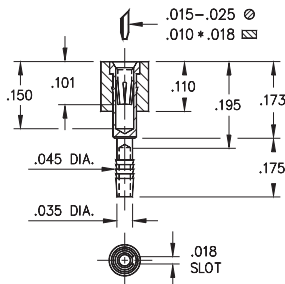


FIG. 4

- Unique compliant tail pins conform to the plated through-hole without stressing the inner layers of a multilayer board
- Recommended plated through-hole for 304 series: .036"-.041" use a 1,1mm drill prior to plating. Using MM #0477 & #0478 pins. See page 162 for details
- For 346 series: .040"±.003" finished plated through-hole. Using MM #4612 & #4613 pins. See page 162 for details. Patent No. 4,799,904
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic



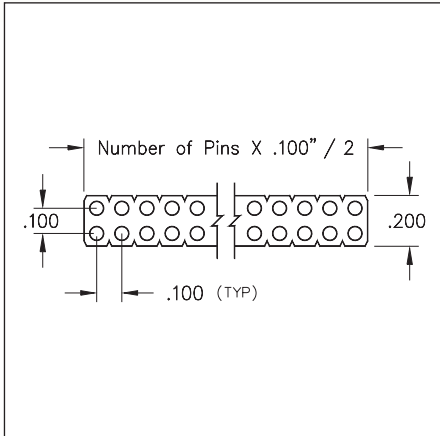
ORDERING INFORMATION

FIG. 1	Series 304...770	Solderless Press-Fit						
		For .062" Thick Boards						
	304-XX-1__-41-770000							
	Specify number of pins	01-64						
FIG. 2	Series 304...780	Solderless Press-Fit						
		For .125" Thick Boards						
	304-XX-1__-41-780000							
	Specify number of pins	01-64						
Mill-Max recommends plating Code 13 for Series 304...770 and 304...780								
FIG. 3	Series 346...012	Compliant Solderless Press-Fit						
		For .060"-.100" Thick Boards						
	346-XX-1__-41-012000							
	Specify number of pins	01-64						
FIG. 4	Series 346...013	Compliant Solderless Press-Fit						
		For .090"-.130" Thick Boards						
	346-XX-1__-41-013000							
	Specify number of pins	01-64						
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>								
SPECIFY PLATING CODE XX=								
	11	13	91	93	99	41	43	44
Sleeve (Pin)	10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn

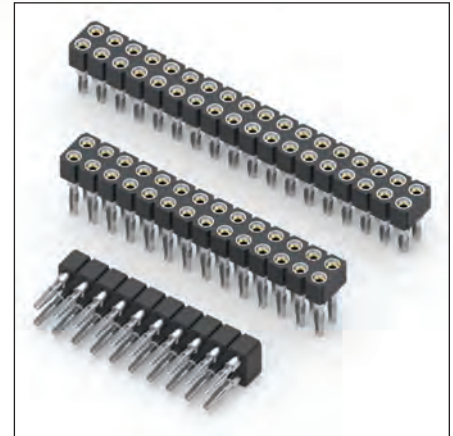


INTERCONNECTS

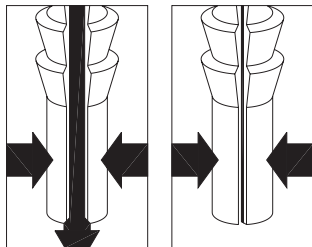
SERIES 446 • .100" GRID COMPLIANT TAIL • DOUBLE ROW STRIPS



- Compliant tail solderless press-fit: MM #4612 or #4613 pins. Use series 446...012 for .060"-.120" thick boards and series 446...013 for .090"-.130" thick boards. See page 162 for details
- Compliant tail receptacles can be inserted and removed without any degradation of the plated through-hole
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic



APPLICATION OF COMPLIANT TAIL PINS



Mill-Max's patented* compliant tail features precision-machined pins that are hollow and slotted to conform to a $.040" \pm .003"$ diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

*Patent No. 4,799,904.

ORDERING INFORMATION

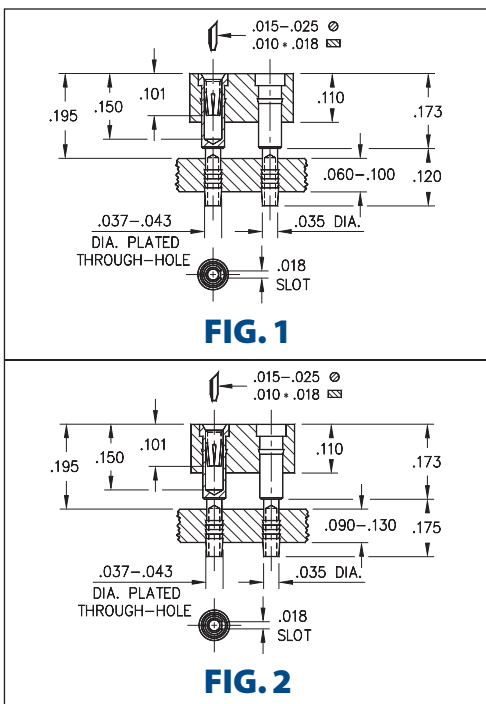


FIG. 1	Series 446...012	Compliant Tail Socket
	446-XX-2	-41-012000
	Specify number of pins	04-64
FIG. 2	Series 446...013	Compliant Tail Socket
	446-XX-2	-41-013000
	Specify number of pins	04-64



XX=Plating Code
See Below

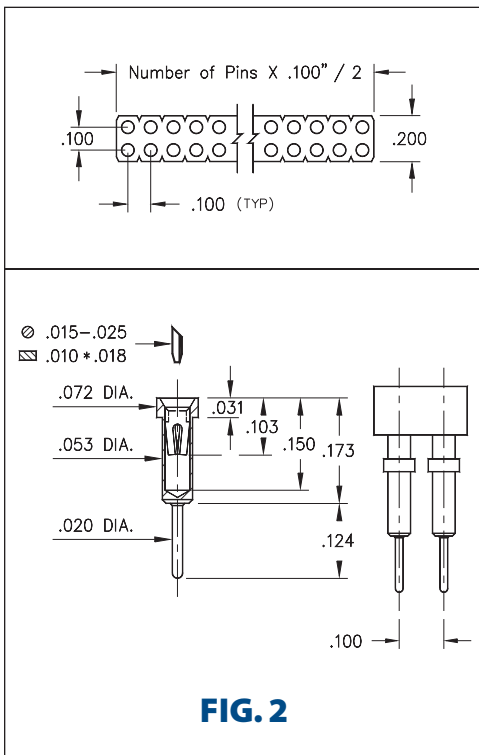
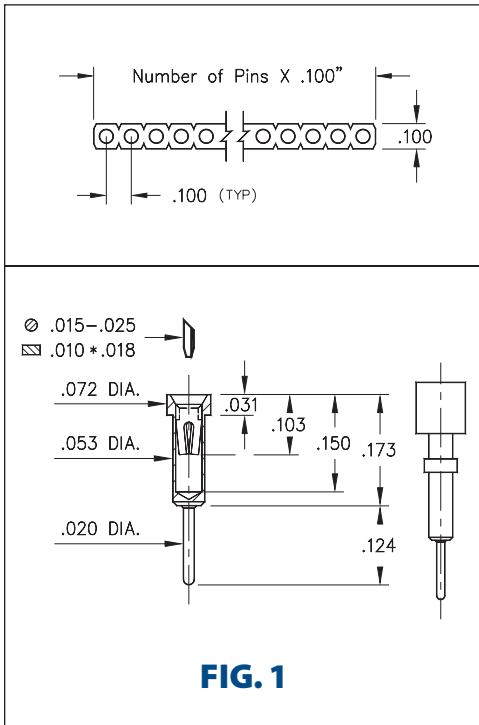
For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	13	93	99	43	44
Sleeve (Pin)	10 μ " Au	200 μ " Sn/Pb	200 μ " Sn/Pb	200 μ " Sn	200 μ " Sn
Contact (Clip)	30 μ " Au	30 μ " Au	100 μ " Sn/Pb	30 μ " Au	100 μ " Sn



INTERCONNECTS

SERIES 712 • .100" GRID CARRIER WITH SOLDER TAIL • SINGLE AND DOUBLE ROW STRIPS



- Standard solder tail receptacles can be mounted as a low profile receptacle or by the solder tail for use in smaller diameter holes
- Series 712 use MM #0255 pins. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations





ORDERING INFORMATION

FIG. 1	Single Row (.028" or .055" min. mounting holes)
	712-XX-1__-41-001000 Specify number of pins 01-64
FIG. 2	Double Row (.028" or .055" min. mounting holes)
	712-XX-2__-41-001000 Specify number of pins 04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	11	13	91	93	41	43	
Sleeve (Pin) 	10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	
Contact (Clip) 	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	



INTERCONNECTS

SERIES 714...00X • .100" GRID LOW PROFILE CARRIERS • SINGLE AND DOUBLE ROW STRIPS

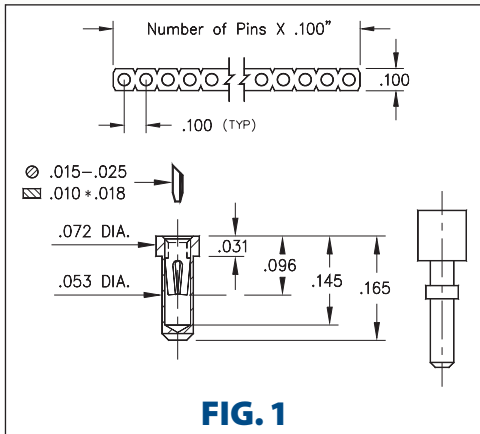


FIG. 1

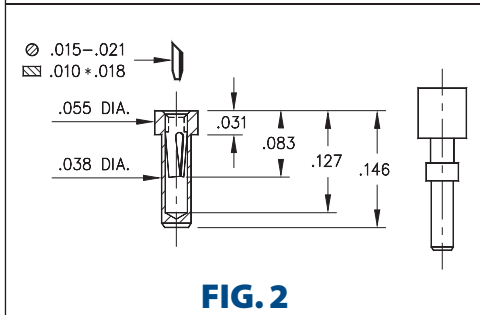


FIG. 2

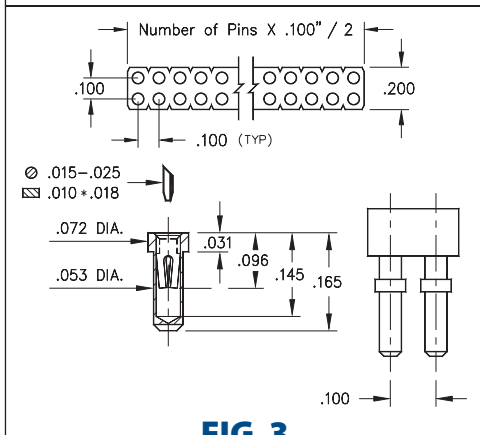


FIG. 3

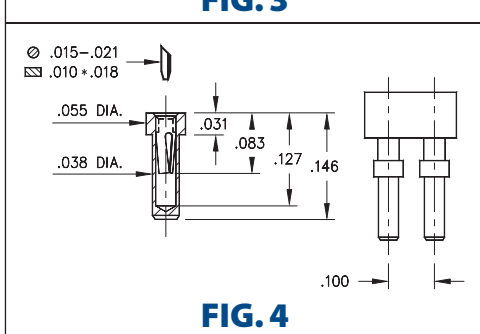
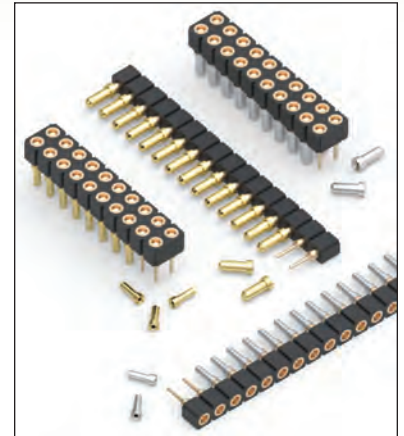


FIG. 4

- Low profile receptacles sit .031" above the board
- Series 714 use MM #1401 and MM #1407 pin receptacles. See pages 157 and 170 for details
- Hi-Rel, 4-finger BeCu #30 contact is used in the #1401 receptacle and a BeCu #11 contact is used in the #1407. Both contacts are rated at 3 amps. See pages 251 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG.	Single Row (.055" min. mounting hole)							
	FIG. 1	714-XX-1-__-41-001000 Specify number of pins 01-64						
FIG. 2	Single Row (.039" min. mounting hole)							
	FIG. 2	714-XX-1-__-31-007000 Specify number of pins 01-64						
FIG. 3	Double Row (.055" min. mounting hole)							
	FIG. 3	714-XX-2-__-41-001000 Specify number of pins 04-64						
FIG. 4	Double Row (.039" min. mounting hole)							
	FIG. 4	714-XX-2-__-31-007000 Specify number of pins 04-64						
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #90EE90;">RoHS-2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>								
SPECIFY PLATING CODE XX=			91	93		41 ◆	43 ◆	
Sleeve (Pin)			200 μ"Sn/Pb	200 μ"Sn/Pb		200 μ"Sn	200 μ"Sn	
Contact (Clip)			10 μ"Au	30 μ"Au		10 μ"Au	30 μ"Au	



INTERCONNECTS

SERIES 714...01X • .100" GRID ULTRA LOW PROFILE CARRIERS • SINGLE AND DOUBLE ROW STRIPS

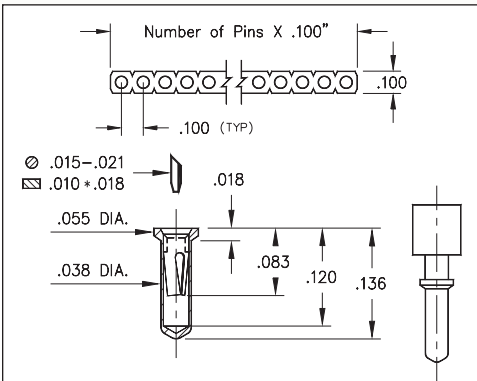


FIG. 1

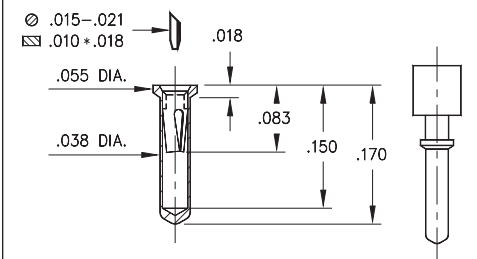


FIG. 2

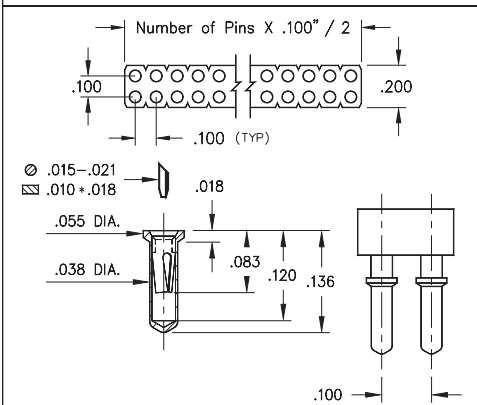


FIG. 3

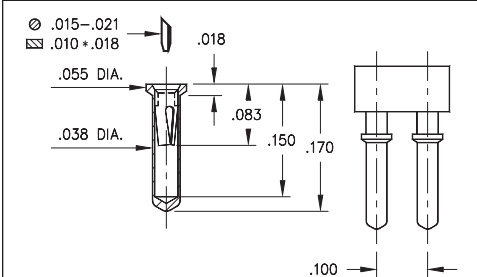
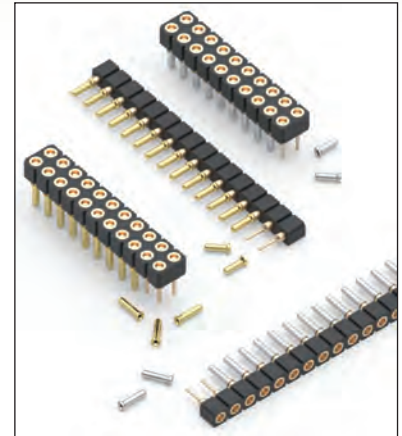


FIG. 4

- Ultra low profile receptacles sit .018" above the board
- Series 714 use MM #0552-1 and MM #0552-2 pin receptacles. See page 158 for details
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations





ORDERING INFORMATION

FIG. 1	Single Row (.039" min. mounting hole)
	714-XX-1__-31-012000 Specify number of pins 01-64
FIG. 2	Single Row (.039" min. mounting hole)
	714-XX-1__-31-018000 Specify number of pins 01-64
FIG. 3	Double Row (.039" min. mounting hole)
	714-XX-2__-31-012000 Specify number of pins 04-64
FIG. 4	Double Row (.039" min. mounting hole)
	714-XX-2__-31-018000 Specify number of pins 04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	91	93	41	43
Sleeve (Pin) 	200 μ"Sn/Pb	200 μ"Sn/Pb	200 μ"Sn	200 μ"Sn
Contact (Clip) 	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au



INTERCONNECTS

SERIES 335, 364, 435, 464 • .100" GRID (.018" DIA. PINS), LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

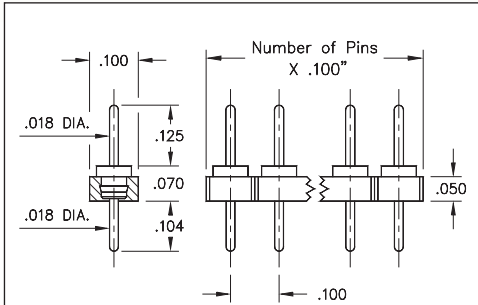


FIG. 1

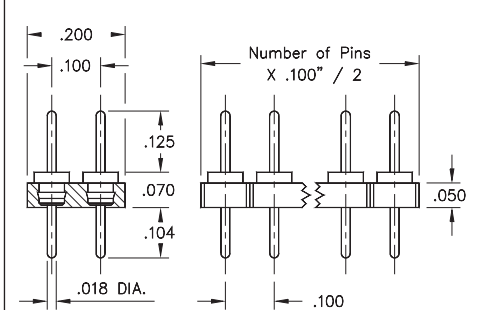


FIG. 2

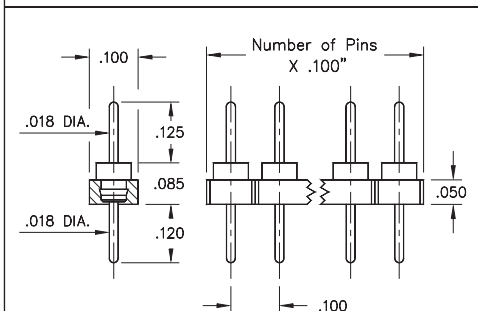


FIG. 3

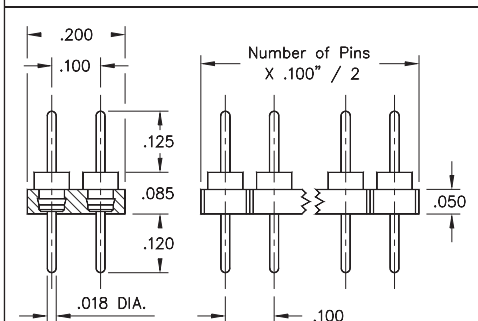
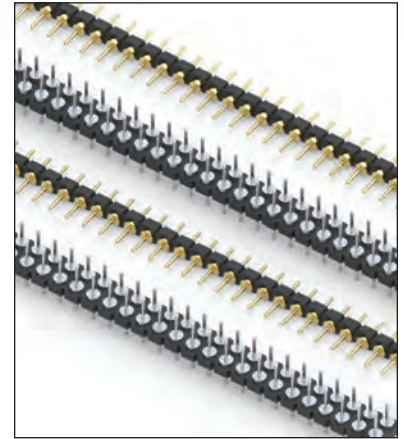


FIG. 4

- Series 335 and 435 single and double row PCB interconnects offer a .070" profile, the lowest available
- Series 364 and 464 single and double row PCB interconnects offer .085" profile above board
- Series 335 and 435 use MM #3516 pins. See page 212 for details
- Series 364 and 464 use MM #6458 pins. See page 213 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 335...160 Single Row .070" Profile Pin Header										
	335-XX-1__-00-160000 Specify number of pins 01-32										
FIG. 2	Series 435...160 Double Row .070" Profile Pin Header										
	435-XX-2__-00-160000 Specify number of pins 04-72										
FIG. 3	Series 364...580 Single Row .085" Profile Pin Header										
	364-10-1__-00-580000 Specify number of pins 01-32										
FIG. 4	Series 464...580 Double Row .085" Profile Pin Header										
	464-10-2__-00-580000 Specify number of pins 04-72										
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #c8e6c9;">RoHS - 2 2011/65/EU</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">XX=Plating Code See Below</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">For Electrical, Mechanical & Environmental Data, See page 264</div> </div>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">SPECIFY PLATING CODE XX=</th> <th style="width: 15%;">10 ◆</th> <th style="width: 15%;">90</th> <th style="width: 15%;">40 ◆</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>Pin Plating </td> <td>10 μ" Au</td> <td>200 μ" Sn/Pb</td> <td>200 μ" Sn</td> <td></td> </tr> </tbody> </table>		SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆		Pin Plating	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	
SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆								
Pin Plating	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn								

INTERCONNECTS

SERIES 351 • .100" GRID INTERCONNECT HEADERS • SINGLE ROW STRIPS

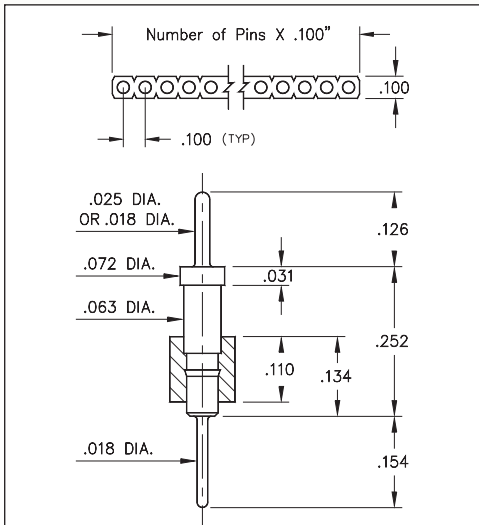


FIG. 1

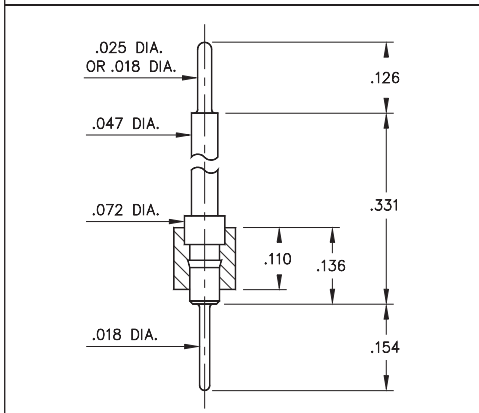


FIG. 2

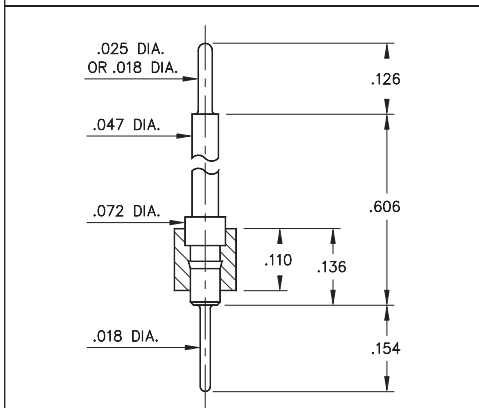
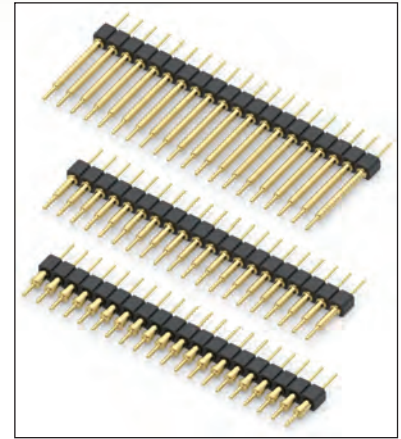


FIG. 3

- Series 351 interconnect header strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other. Please see series:
351...003 uses pin #5503
351...004 uses pin #5504
351...005 uses pin #5505
- .018" pluggable solder tails are available at both ends. Please see series:
351...009 uses pin #5509
351...010 uses pin #5510
351...011 uses pin #5511
See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations




ORDERING INFORMATION

FIG. 1	Series 351...003 .018" / .025" Dia. Solder Tails
	351-10-1__-00-003000 Specify number of pins 01-64
FIG. 2	Series 351...009 .018" / .018" Dia. Solder Tails
	351-10-1__-00-009000 Specify number of pins 01-64
FIG. 2	Series 351...004 .018" / .025" Dia. Solder Tails
	351-10-1__-00-004000 Specify number of pins 01-64
FIG. 3	Series 351...010 .018" / .018" Dia. Solder Tails
	351-10-1__-00-010000 Specify number of pins 01-64
FIG. 3	Series 351...005 .018" / .025" Dia. Solder Tails
	351-10-1__-00-005000 Specify number of pins 01-64
FIG. 3	Series 351...011 .018" / .018" Dia. Solder Tails
	351-10-1__-00-011000 Specify number of pins 01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◆			
Pin Plating 	10 μ" Au			



INTERCONNECTS

SERIES 451 • .100" GRID INTERCONNECT HEADERS • DOUBLE ROW STRIPS

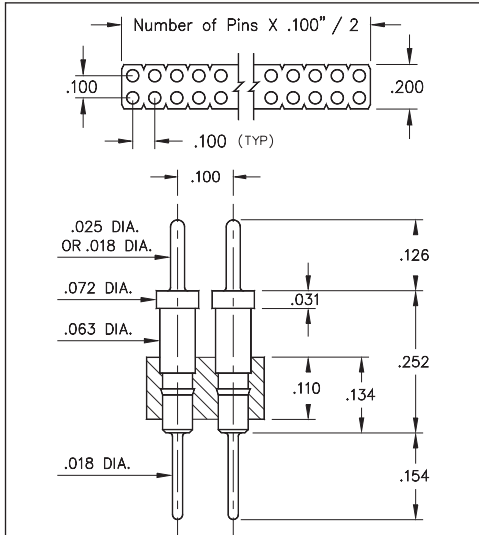


FIG. 1

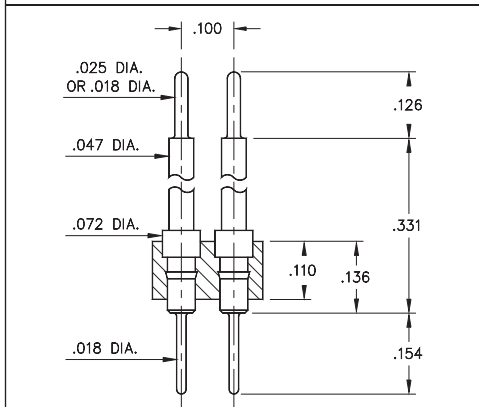


FIG. 2

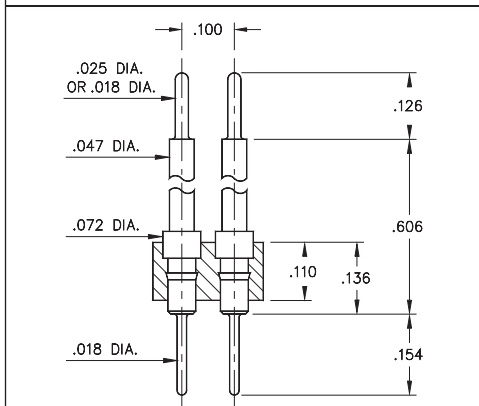







FIG. 3

- Series 451 interconnect header strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other. Please see series:
451...003 uses pin #5503
451...004 uses pin #5504
451...005 uses pin #5505
- .018" pluggable solder tails are available at both ends. Please see series:
451...009 uses pin #5509
451...010 uses pin #5510
451...011 uses pin #5511
See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 451...003 .018" / .025" Dia. Solder Tails
	451-10-2-__-00-003000 Specify number of pins 04-64
FIG. 2	Series 451...009 .018" / .018" Dia. Solder Tails
	451-10-2-__-00-009000 Specify number of pins 04-64
FIG. 2	Series 451...004 .018" / .025" Dia. Solder Tails
	451-10-2-__-00-004000 Specify number of pins 04-64
FIG. 3	Series 451...010 .018" / .018" Dia. Solder Tails
	451-10-2-__-00-010000 Specify number of pins 04-64
FIG. 3	Series 451...005 .018" / .025" Dia. Solder Tails
	451-10-2-__-00-005000 Specify number of pins 04-64
FIG. 3	Series 451...011 .018" / .018" Dia. Solder Tails
	451-10-2-__-00-011000 Specify number of pins 04-64
  	
SPECIFY PLATING CODE XX=	10 
Pin Plating 	10 μ" Au

INTERCONNECTS

SERIES 334 • .100" GRID INTERCONNECT HEADERS • SINGLE ROW STRIPS

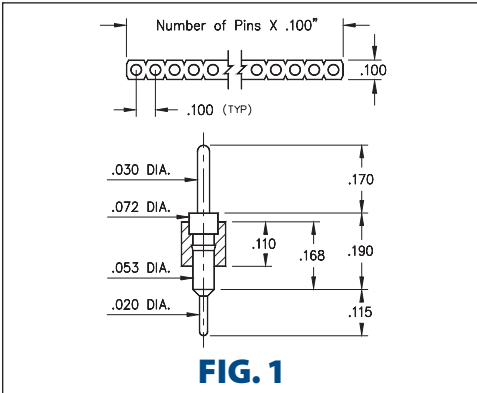


FIG. 1

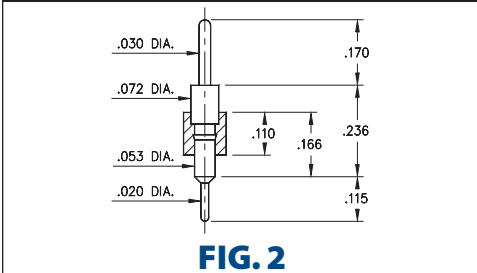


FIG. 2

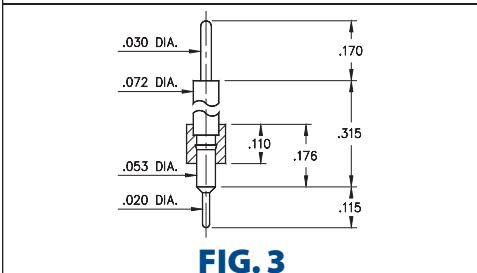


FIG. 3

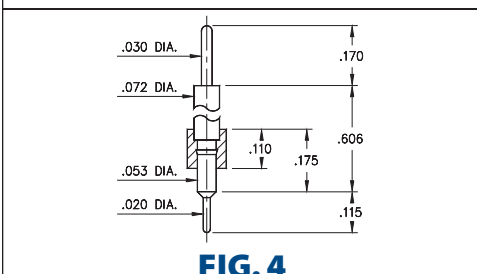


FIG. 4

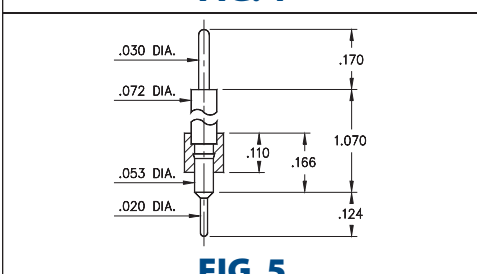


FIG. 5

- Series 334 interconnect header strips are available in 5 lengths:

334...020 uses pin #3402 (L = .190")

334...010 uses pin #3401 (L = .236")

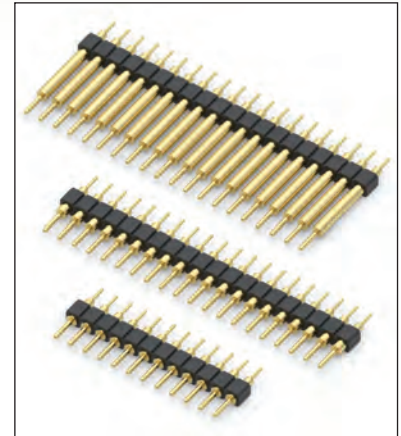
334...050 uses pin #3405 (L = .315")

334...000 uses pin #3400 (L = .606")

334...100 uses pin #3410 (L = 1.070")

See page 215 for details

- Strips come with .020" pluggable soldertails at one end and .030" tails at the other
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 334...020	.020" / .030" Dia. Solder Tails
FIG. 1	334-XX-1	-00-020000
	Specify number of pins	01-64
FIG. 2	Series 334...010	.020" / .030" Dia. Solder Tails
	334-XX-1	-00-010000
FIG. 3	Series 334...050	.020" / .030" Dia. Solder Tails
	334-XX-1	-00-050000
FIG. 4	Series 334...000	.020" / .030" Dia. Solder Tails
	334-XX-1	-00-000000
FIG. 5	Series 334...100	.020" / .030" Dia. Solder Tails
	334-XX-1	-00-100000



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10	90	40	
Pin Plating	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	



INTERCONNECTS

SERIES 342 • .100" GRID BOARD STACKING HEADERS • SINGLE ROW STRIPS

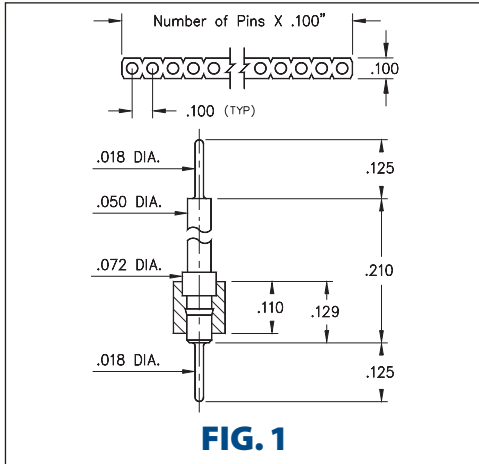


FIG. 1

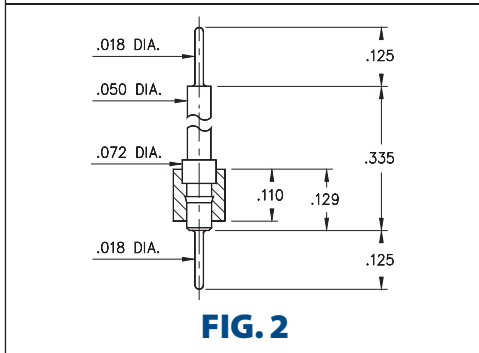


FIG. 2

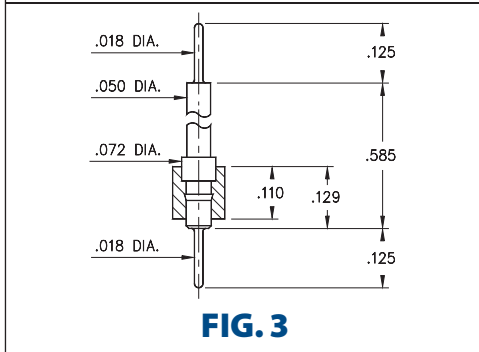


FIG. 3

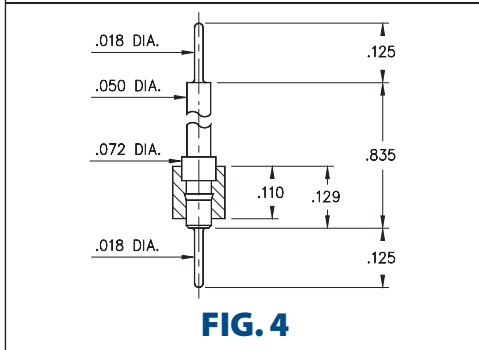
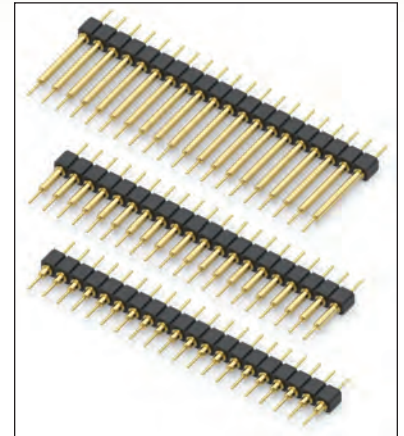


FIG. 4

- Series 342 interconnect header strips come in four heights with .018" dia. pluggable solder tails at both ends

- 342...591 uses pin #4259-1 (L = .210")
 - 342...592 uses pin #4259-2 (L = .335")
 - 342...593 uses pin #4259-3 (L = .585")
 - 342...594 uses pin #4259-4 (L = .835")
- See page 212 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 342...591 .018" / .018" Dia. Solder Tails
	342-XX-1__-00-591000 Specify number of pins 01-64
FIG. 2	Series 342...592 .018" / .018" Dia. Solder Tails
	342-XX-1__-00-592000 Specify number of pins 01-64
FIG. 3	Series 342...593 .018" / .018" Dia. Solder Tails
	342-XX-1__-00-593000 Specify number of pins 01-64
FIG. 4	Series 342...594 .018" / .018" Dia. Solder Tails
	342-XX-1__-00-594000 Specify number of pins 01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	

INTERCONNECTS

SERIES 442 • .100" GRID BOARD STACKING HEADERS • DOUBLE ROW STRIPS

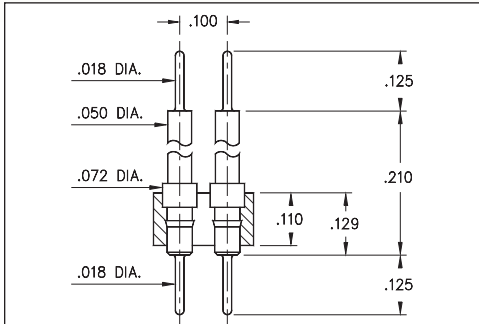


FIG. 1

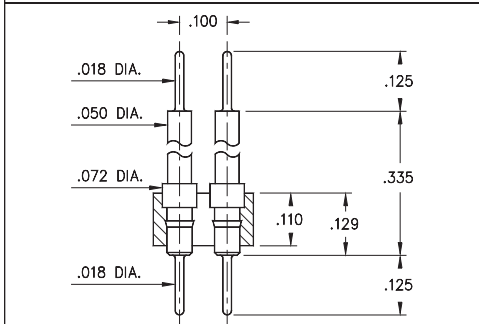


FIG. 2

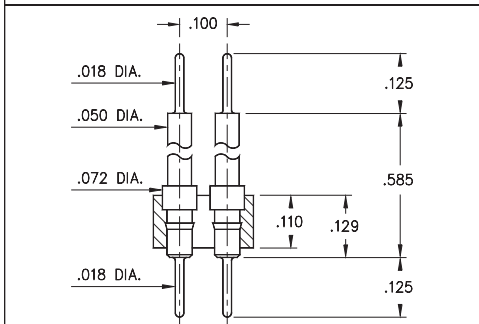


FIG. 3

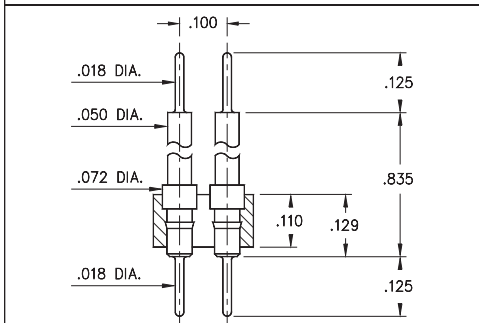


FIG. 4

- Series 442 interconnect header strips come in four heights with .018" dia. pluggable solder tails at both ends

442...591 uses pin #4259-1 (L = .210")
 442...592 uses pin #4259-2 (L = .335")
 442...593 uses pin #4259-3 (L = .585")
 442...594 uses pin #4259-4 (L = .835")
 See page 212 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations




ORDERING INFORMATION

FIG. 1	Series 442...591 .018" / .018" Dia. Solder Tails
	442-XX-2--00-591000 Specify number of pins 04-64
FIG. 2	Series 442...592 .018" / .018" Dia. Solder Tails
	442-XX-2--00-592000 Specify number of pins 04-64
FIG. 3	Series 442...593 .018" / .018" Dia. Solder Tails
	442-XX-2--00-593000 Specify number of pins 04-64
FIG. 4	Series 442...594 .018" / .018" Dia. Solder Tails
	442-XX-2--00-594000 Specify number of pins 04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	



INTERCONNECTS

SERIES 350, 360, 370, 380 • .100" GRID SOLDER TAIL • SINGLE ROW STRIPS

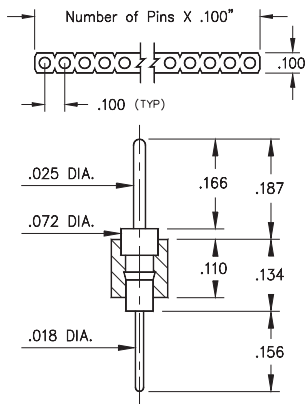


FIG. 1

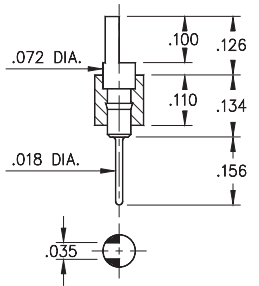


FIG. 2

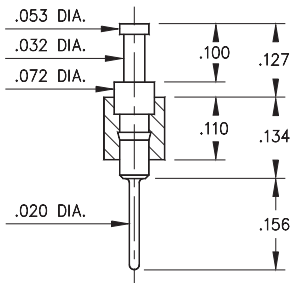


FIG. 3

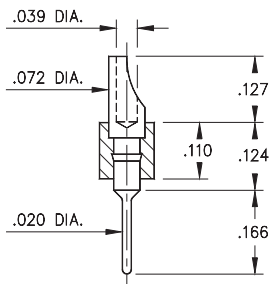


FIG. 4

- Series 350, 360, 370 & 380 single row header strips come in various styles (pin, slotted, head, turret and solder cup) with pluggable solder tails

350...001 uses pin #0290

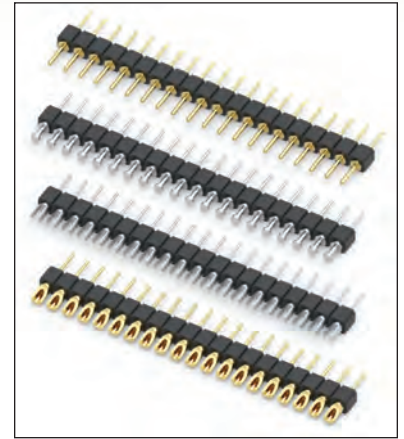
360...001 uses pin #0282

370...001 uses pin #0700

380...001 uses pin #8000

See pages 215 and 216 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 350...001	.025" / .018" Dia. Solder Tails
FIG. 1	350-XX-1	-00-001000
	Specify number of pins	01-64
	Series 360...001	Slotted Head / Solder Tail
FIG. 2	360-XX-1	-00-001000
	Specify number of pins	01-64
	Series 370...001	Turret / Solder Tail
FIG. 3	370-XX-1	-00-001000
	Specify number of pins	01-64
	Series 380...001	Solder Cup / Solder Tail
FIG. 4	380-XX-1	-00-001000
	Specify number of pins	01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10	90	40	
Pin Plating 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	



INTERCONNECTS

SERIES 450, 460, 470, 480 • .100" GRID SOLDER TAIL • DOUBLE ROW STRIPS

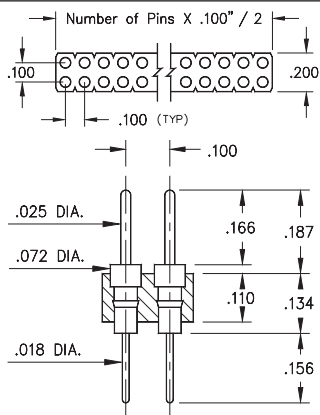


FIG. 1

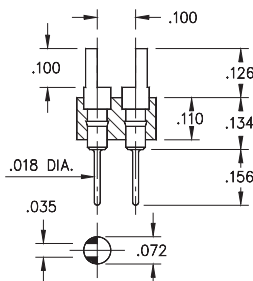


FIG. 2

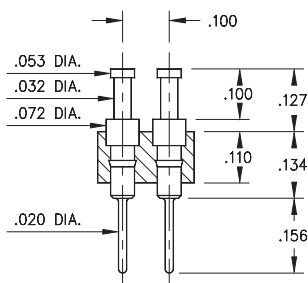


FIG. 3

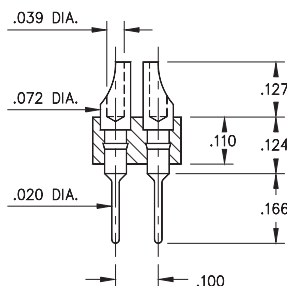


FIG. 4

- Series 450, 460, 470 & 480 double row header strips come in various styles (pin, slotted, head, turret and solder cup) with pluggable solder tails

450...001 uses pin #0290

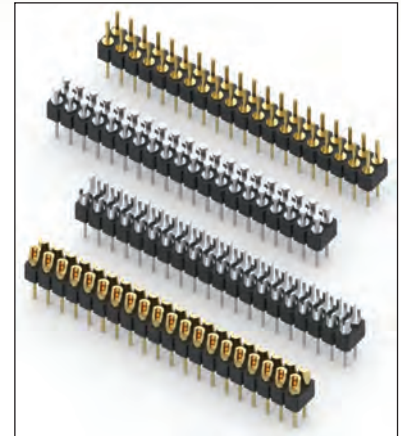
460...001 uses pin #0282

470...001 uses pin #0700

480...001 uses pin #8000

See pages 215 and 216 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 450...001 .025" / .018" Dia. Solder Tails
	450-XX-2--00-001000 Specify number of pins 04-64
FIG. 2	Series 460...001 Slotted Head / Solder Tail
	460-10-2--00-001000 Specify number of pins 02-64
FIG. 3	Series 470...001 Turret / Solder Tail
	470-XX-2--00-001000 Specify number of pins 04-64
FIG. 4	Series 480...001 Solder Cup / Solder Tail
	480-10-2--00-001000 Specify number of pins 02-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	10 ◆	90	40 ◆	
Pin Plating 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	



INTERCONNECTS

SERIES 353, 362, 363, 373, 382, 383 • .100" GRID WRAPOST • SINGLE ROW STRIPS

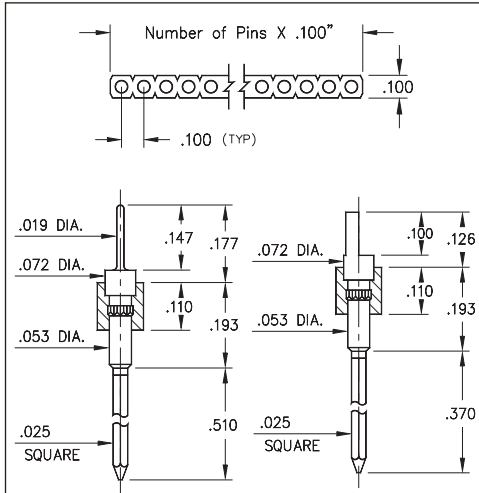


FIG. 1

FIG. 2

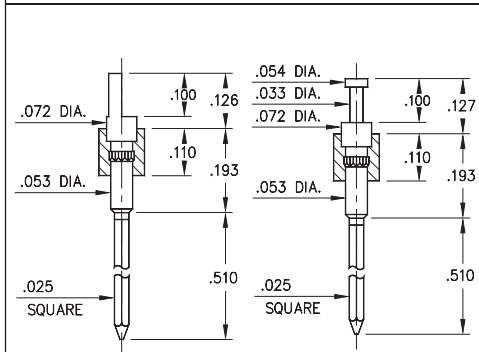


FIG. 3

FIG. 4

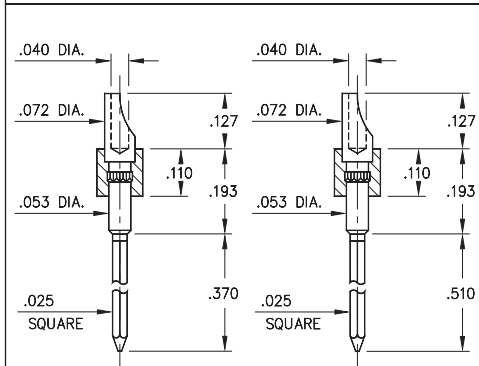


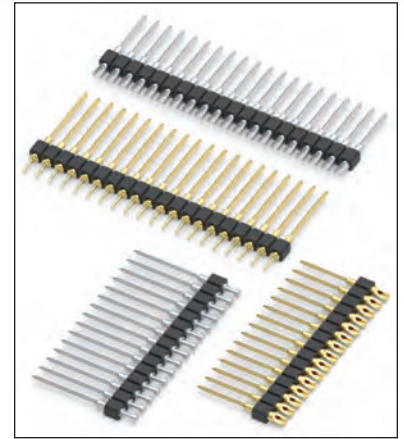
FIG. 5

FIG. 6

- Series 353, 362, 363, 373, 382 and 383 single row header strips come in various styles (pin, slotted head, turret and solder cup) with wrapost tails

- 353...001 uses pin #5301
- 362...001 uses pin #1106-2
- 363...001 uses pin #1106-3
- 373...001 uses pin #0730-3
- 382...001 uses pin #8301-2
- 383...001 uses pin #8301-3

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 353...001	Pin / 3 Level Wrapost
FIG. 1	353-XX-1	-00-001000 Specify number of pins 01-64
FIG. 2	Series 362...001	Slotted Head / 2 Level Wrapost
FIG. 3	362-XX-1	-00-001000 Specify number of pins 01-64
FIG. 4	Series 363...001	Slotted Head / 3 Level Wrapost
FIG. 5	363-XX-1	-00-001000 Specify number of pins 01-64
FIG. 6	Series 373...001	Turret / 3 Level Wrapost
FIG. 7	373-XX-1	-00-001000 Specify number of pins 01-64
FIG. 8	Series 382...001	Solder Cup / 2 Level Wrapost
FIG. 9	382-XX-1	-00-001000 Specify number of pins 01-64
FIG. 10	Series 383...001	Solder Cup / 3 Level Wrapost
FIG. 11	383-XX-1	-00-001000 Specify number of pins 01-64



XX=Plating Code See Below

For Electrical, Mechanical & Environmental Data, See page 264

SPECIFY PLATING CODE XX=	10	90	40	
Pin Plating	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	



INTERCONNECTS

SERIES 453, 463, 473, 483 • .100" GRID WRAPOST • DOUBLE ROW STRIPS

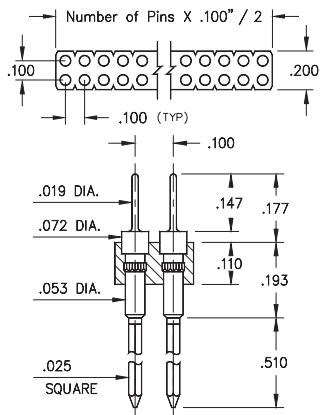


FIG. 1

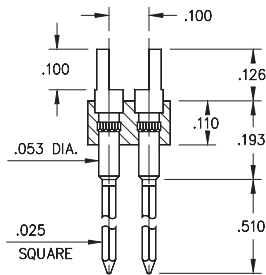


FIG. 2

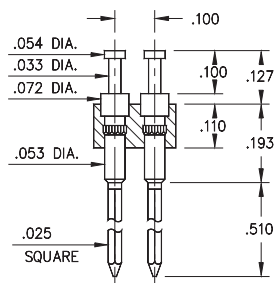


FIG. 3

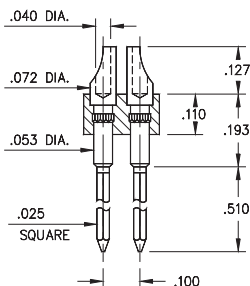


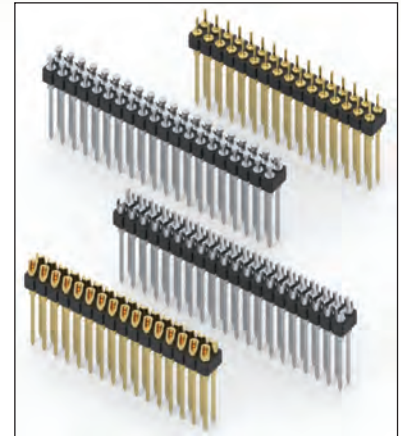
FIG. 4

- Series 453, 463, 473, and 483 double row header strips come in various styles (pin, slotted head, turret and solder cup) with wrapost tails

453...001 uses pin #5301
 463...001 uses pin #1106-3
 473...001 uses pin #0730-3
 483...001 uses pin #8301-3

See pages 227 and 228 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

	Series 453...001	Pin / 3 Level Wrapost
FIG. 1	453-10-2	-00-001000 Specify number of pins 04-64
FIG. 2	Series 463...001	Slotted Head / 3 Level Wrapost
	463-XX-2	-00-001000 Specify number of pins 02-64
FIG. 3	Series 473...001	Turret / 3 Level Wrapost
	473-XX-2	-00-001000 Specify number of pins 04-64
FIG. 4	Series 483...001	Solder Cup / 3 Level Wrapost
	483-XX-2	-00-001000 Specify number of pins 02-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

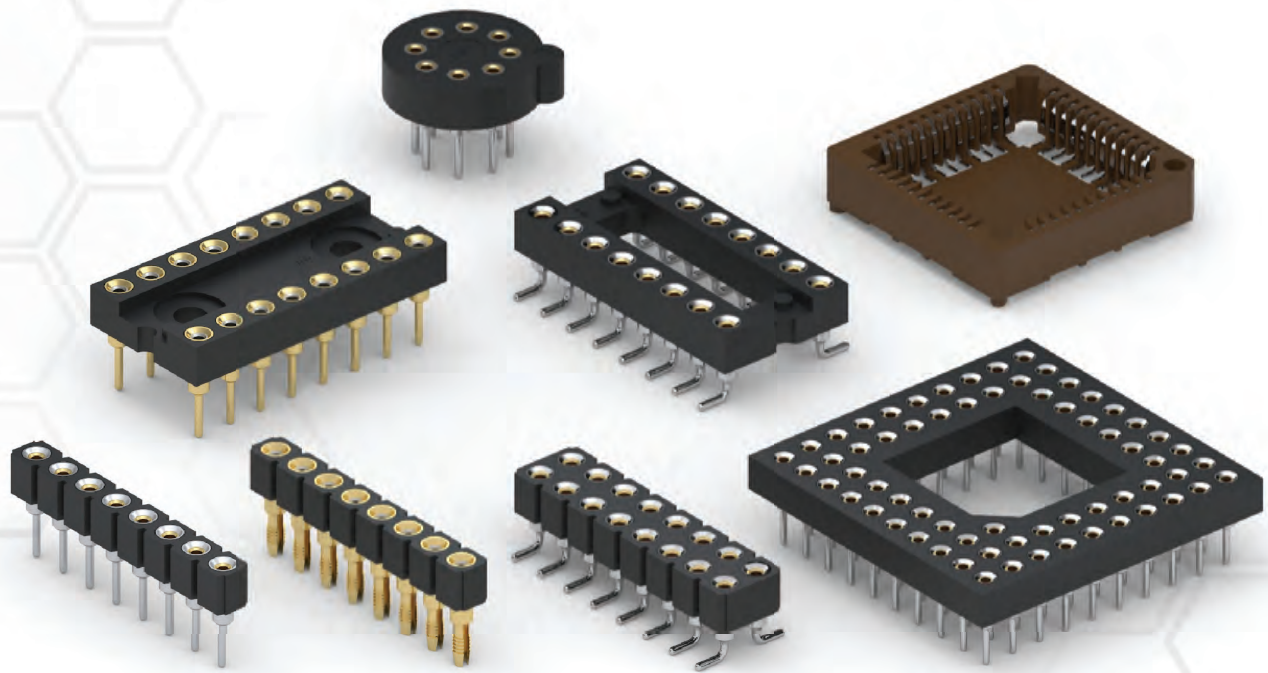
SPECIFY PLATING CODE XX=	10	90	40	
Pin Plating 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	





WWW.MILL-MAX.COM

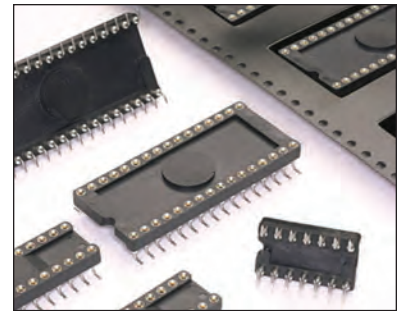
IC SOCKETS TO SOCKETS





WWW.MILL-MAX.COM

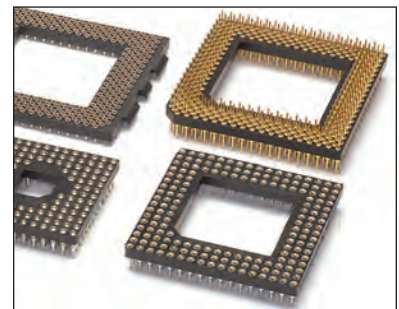
MILL-MAX IC SOCKETS PROVIDE A VARIETY OF OPTIONS FOR MAKING DEVICE-TO-BOARD CONNECTIONS. Our IC Sockets utilize the Mill-Max receptacle as the connection between the IC device and the circuit board. The precision-machined receptacle shell is available in multiple variations to fit many applications. We offer a wide choice of sockets in several board termination types including: solder-tail, press-fit, surface mount and wrapost. These sockets allow for upgradeability and field repair and provide versatility for device substitution between models of a product line.



IC Sockets can be loaded manually for soldering or press-fitting, or when volume placement is required, sockets can be packaged on tape and reel providing labor-saving solutions for our customers.

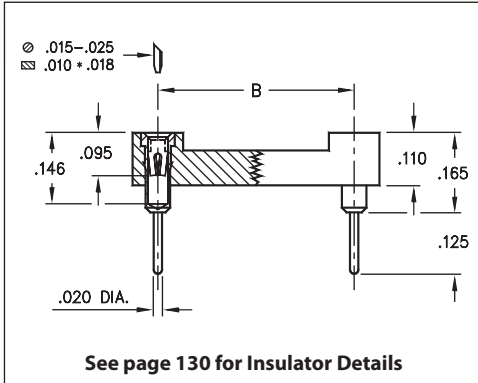


We will gladly quote custom application-specific products in addition to the products found on the following pages.

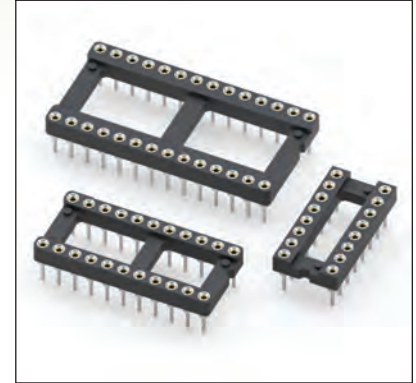


DUAL-IN-LINE SOCKETS

SERIES 110...001 • STANDARD SOLDER TAIL • OPEN FRAME



- All DIP sockets accept .015" - .025" diameter and standard IC leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



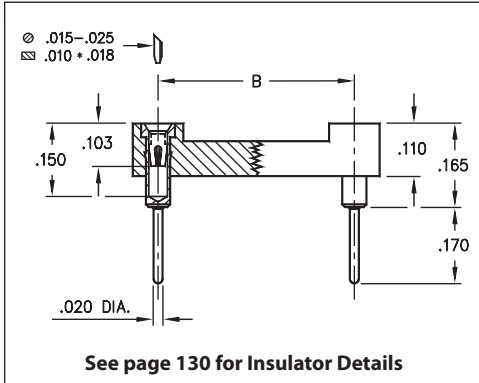
Total number of pins				Quantity per tube	<h3>ORDERING INFORMATION</h3>									
	A	B	C											
10	0.5	0.2	0.3	40	110-XX-210-41-001000									
4	0.2	0.3	0.4	102	110-XX-304-41-001000									
6	0.3	0.3	0.4	67	110-XX-306-41-001000									
8	0.4	0.3	0.4	50	110-XX-308-41-001000									
10	0.5	0.3	0.4	40	110-XX-310-41-001000									
14	0.7	0.3	0.4	28	110-XX-314-41-001000									
16	0.8	0.3	0.4	25	110-XX-316-41-001000									
18	0.9	0.3	0.4	22	110-XX-318-41-001000									
20	1.0	0.3	0.4	20	110-XX-320-41-001000									
22	1.1	0.3	0.4	18	110-XX-322-41-001000									
24	1.2	0.3	0.4	16	110-XX-324-41-001000									
28	1.4	0.3	0.4	14	110-XX-328-41-001000									
20	1.0	0.4	0.5	20	110-XX-420-41-001000									
22	1.1	0.4	0.5	18	110-XX-422-41-001000									
24	1.2	0.4	0.5	16	110-XX-424-41-001000									
28	1.4	0.4	0.5	14	110-XX-428-41-001000									
32	1.6	0.4	0.5	12	110-XX-432-41-001000									
24	1.2	0.6	0.7	16	110-XX-624-41-001000									
28	1.4	0.6	0.7	14	110-XX-628-41-001000									
32	1.6	0.6	0.7	12	110-XX-632-41-001000									
36	1.8	0.6	0.7	11	110-XX-636-41-001000									
40	2.0	0.6	0.7	10	110-XX-640-41-001000									
42	2.1	0.6	0.7	9	110-XX-642-41-001000									
48	2.4	0.6	0.7	8	110-XX-648-41-001000									
50	2.5	0.6	0.7	8	110-XX-650-41-001000									
52	2.6	0.6	0.7	7	110-XX-652-41-001000									
50	2.5	0.9	1.0	8	110-XX-950-41-001000									
52	2.6	0.9	1.0	7	110-XX-952-41-001000									
64	3.2	0.9	1.0	6	110-XX-964-41-001000									
SPECIFY PLATING CODE XX =					11	13	91	93	99	41	43	44	47	
Sleeve (Pin)					10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn	200 μ" Sn	
Contact (Clip)					10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn	Au Flash	

XX=Plating Code
See Below

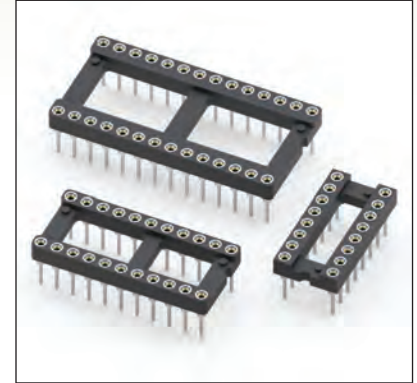


DUAL-IN-LINE SOCKETS

SERIES 111 • LONG SOLDER TAIL FOR MULTI-LAYER PCB • OPEN FRAME



- DIP sockets with increased solder tail length of .170", allowing application on multi-layer PCBs up to .139" thick
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 111 uses MM #0134 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



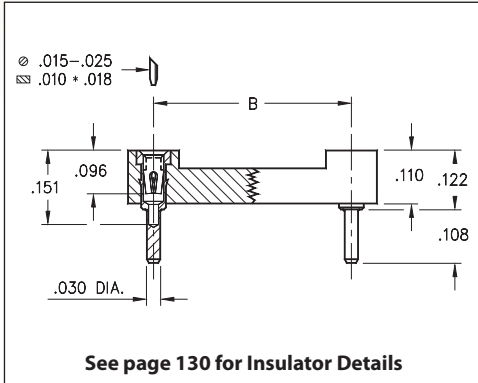
Total number of pins				Quantity per tube	<h3>ORDERING INFORMATION</h3>						
	A	B	C								
10	0.5	0.2	0.3	40	111-XX-210-41-001000						
4	0.2	0.3	0.4	102	111-XX-304-41-001000						
6	0.3	0.3	0.4	67	111-XX-306-41-001000						
8	0.4	0.3	0.4	50	111-XX-308-41-001000						
10	0.5	0.3	0.4	40	111-XX-310-41-001000						
14	0.7	0.3	0.4	28	111-XX-314-41-001000						
16	0.8	0.3	0.4	25	111-XX-316-41-001000						
18	0.9	0.3	0.4	22	111-XX-318-41-001000						
20	1.0	0.3	0.4	20	111-XX-320-41-001000						
22	1.1	0.3	0.4	18	111-XX-322-41-001000						
24	1.2	0.3	0.4	16	111-XX-324-41-001000						
28	1.4	0.3	0.4	14	111-XX-328-41-001000						
20	1.0	0.4	0.5	20	111-XX-420-41-001000						
22	1.1	0.4	0.5	18	111-XX-422-41-001000						
24	1.2	0.4	0.5	16	111-XX-424-41-001000						
28	1.4	0.4	0.5	14	111-XX-428-41-001000						
32	1.6	0.4	0.5	12	111-XX-432-41-001000						
24	1.2	0.6	0.7	16	111-XX-624-41-001000						
28	1.4	0.6	0.7	14	111-XX-628-41-001000						
32	1.6	0.6	0.7	12	111-XX-632-41-001000						
36	1.8	0.6	0.7	11	111-XX-636-41-001000						
40	2.0	0.6	0.7	10	111-XX-640-41-001000						
42	2.1	0.6	0.7	9	111-XX-642-41-001000						
48	2.4	0.6	0.7	8	111-XX-648-41-001000						
50	2.5	0.6	0.7	8	111-XX-650-41-001000						
52	2.6	0.6	0.7	7	111-XX-652-41-001000						
50	2.5	0.9	1.0	8	111-XX-950-41-001000						
52	2.6	0.9	1.0	7	111-XX-952-41-001000						
64	3.2	0.9	1.0	6	111-XX-964-41-001000						
SPECIFY PLATING CODE XX =					91	93	41	43	47		
Sleeve (Pin)					200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn		
Contact (Clip)					10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	Au Flash		

XX=Plating Code
See Below

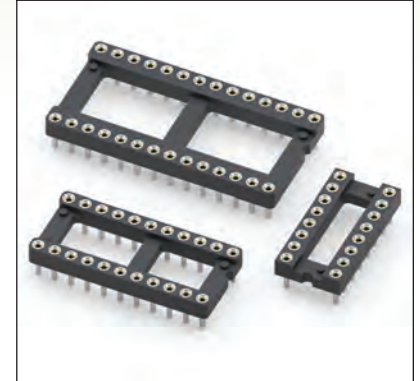


DUAL-IN-LINE SOCKETS

SERIES 115...001 • VERY LOW PROFILE • OPEN FRAME



- Low profile DIP socket, sits only .122" above the PCB
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 115 uses MM #0501 pins. See page 162 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



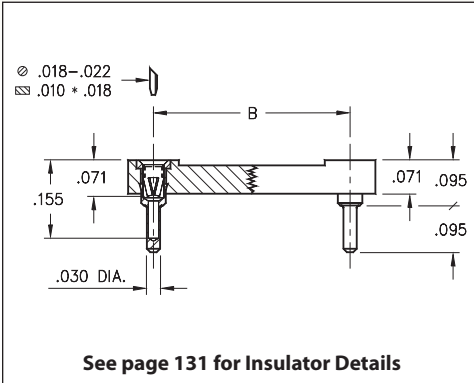
Total number of pins				Quantity per tube	ORDERING INFORMATION								
	A	B	C										
10	0.5	0.2	0.3	41	115-XX-210-41-001000								
4	0.2	0.3	0.4	102	115-XX-304-41-001000								
6	0.3	0.3	0.4	67	115-XX-306-41-001000								
8	0.4	0.3	0.4	50	115-XX-308-41-001000								
10	0.5	0.3	0.4	40	115-XX-310-41-001000								
14	0.7	0.3	0.4	28	115-XX-314-41-001000								
16	0.8	0.3	0.4	25	115-XX-316-41-001000								
18	0.9	0.3	0.4	22	115-XX-318-41-001000								
20	1.0	0.3	0.4	20	115-XX-320-41-001000								
22	1.1	0.3	0.4	18	115-XX-322-41-001000								
24	1.2	0.3	0.4	16	115-XX-324-41-001000								
28	1.4	0.3	0.4	14	115-XX-328-41-001000								
20	1.0	0.4	0.5	20	115-XX-420-41-001000								
22	1.1	0.4	0.5	18	115-XX-422-41-001000								
24	1.2	0.4	0.5	16	115-XX-424-41-001000								
28	1.4	0.4	0.5	14	115-XX-428-41-001000								
32	1.6	0.4	0.5	12	115-XX-432-41-001000								
24	1.2	0.6	0.7	16	115-XX-624-41-001000								
28	1.4	0.6	0.7	14	115-XX-628-41-001000								
32	1.6	0.6	0.7	12	115-XX-632-41-001000								
36	1.8	0.6	0.7	11	115-XX-636-41-001000								
40	2.0	0.6	0.7	10	115-XX-640-41-001000								
42	2.1	0.6	0.7	9	115-XX-642-41-001000								
48	2.4	0.6	0.7	8	115-XX-648-41-001000								
50	2.5	0.6	0.7	8	115-XX-650-41-001000								
52	2.6	0.6	0.7	7	115-XX-652-41-001000								
50	2.5	0.9	1.0	8	115-XX-950-41-001000								
52	2.6	0.9	1.0	7	115-XX-952-41-001000								
64	3.2	0.9	1.0	6	115-XX-964-41-001000								
SPECIFY PLATING CODE XX =					91	93	41	43	47				
					Sleeve (Pin)	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn			
					Contact (Clip)	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	Au Flash			

XX=Plating Code
See Below

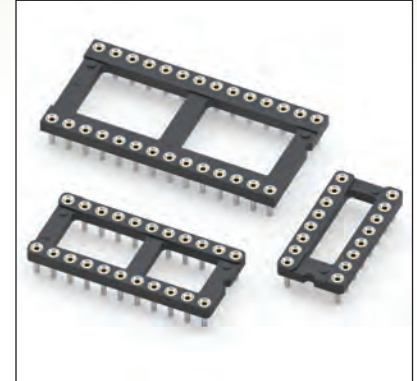


DUAL-IN-LINE SOCKETS

SERIES 115...003 • ULTRA LOW PROFILE • OPEN FRAME



- Our lowest profile DIP socket with an above PCB height of only .095"
- Special short Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 252 for details
- Series 115 uses MM #1534 pins. See page 161 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



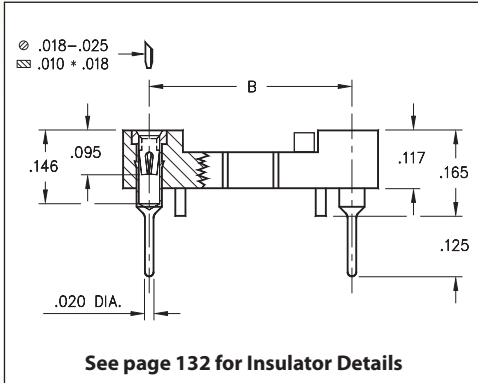
Total number of pins				Quantity per tube	<h3>ORDERING INFORMATION</h3>							
	A	B	C									
6	0.3	0.3	0.4	68	115-XX-306-41-003000							
8	0.4	0.3	0.4	50	115-XX-308-41-003000							
14	0.7	0.3	0.4	28	115-XX-314-41-003000							
16	0.8	0.3	0.4	25	115-XX-316-41-003000							
18	0.9	0.3	0.4	22	115-XX-318-41-003000							
20	1.0	0.3	0.4	20	115-XX-320-41-003000							
22	1.1	0.3	0.4	18	115-XX-322-41-003000							
24	1.2	0.3	0.4	16	115-XX-324-41-003000							
28	1.4	0.3	0.4	14	115-XX-328-41-003000							
20	1.0	0.4	0.5	20	115-XX-420-41-003000							
22	1.1	0.4	0.5	18	115-XX-422-41-003000							
24	1.2	0.4	0.5	16	115-XX-424-41-003000							
28	1.4	0.4	0.5	14	115-XX-428-41-003000							
24	1.2	0.6	0.7	16	115-XX-624-41-003000							
28	1.4	0.6	0.7	14	115-XX-628-41-003000							
32	1.6	0.6	0.7	12	115-XX-632-41-003000							
36	1.8	0.6	0.7	11	115-XX-636-41-003000							
40	2.0	0.6	0.7	10	115-XX-640-41-003000							
48	2.4	0.6	0.7	8	115-XX-648-41-003000							
50	2.5	0.6	0.7	8	115-XX-650-41-003000							

XX=Plating Code
See Below

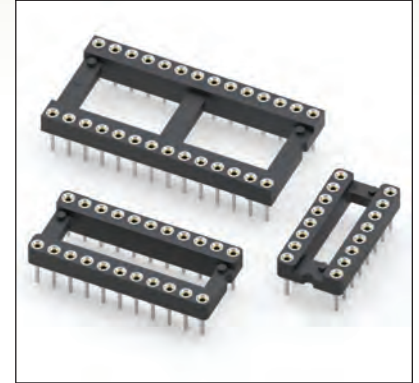
SPECIFY PLATING CODE XX =	91	93	41	43	44	47
Sleeve (Pin)	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn	Au Flash

DUAL-IN-LINE SOCKETS

SERIES 110...605 • AUTOMATIC INSERTION • OPEN FRAME



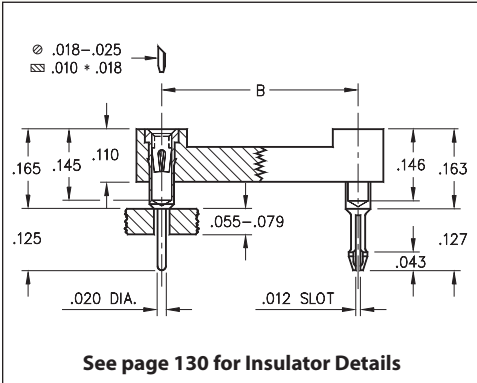
- High temperature thermoplastic insulator with standoffs is compatible with standard automatic insertion equipment and all soldering processes
- Soft copper alloy machined pins allow clinching. Chamfered contact entry allows for ease of IC insertion without bent leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1005 pins. See page 166 for details
- For Electrical, Mechanical and Environmental Data, see page 264 for details



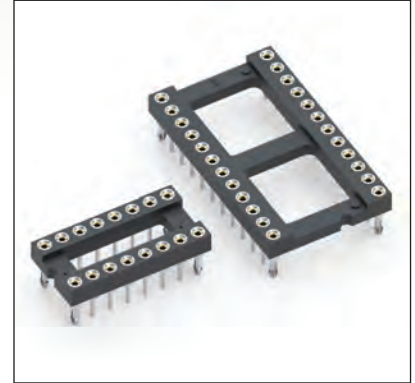
Total number of pins	 .100 (TYP)			Quantity per tube	<h3>ORDERING INFORMATION</h3>							
	A	B	C									
6	0.3	0.3	0.4	67	110-XX-306-41-605000							
8	0.4	0.3	0.4	50	110-XX-308-41-605000							
14	0.7	0.3	0.4	28	110-XX-314-41-605000							
16	0.8	0.3	0.4	25	110-XX-316-41-605000							
18	0.9	0.3	0.4	22	110-XX-318-41-605000							
20	1.0	0.3	0.4	20	110-XX-320-41-605000							
24	1.2	0.3	0.4	16	110-XX-324-41-605000							
22	1.1	0.4	0.5	18	110-XX-422-41-605000							
24	1.2	0.6	0.7	16	110-XX-624-41-605000							
28	1.4	0.6	0.7	14	110-XX-628-41-605000							
32	1.6	0.6	0.7	12	110-XX-632-41-605000							
40	2.0	0.6	0.7	10	110-XX-640-41-605000							
XX=Plating Code See Below												
SPECIFY PLATING CODE XX =					91	93	41	43	47			
Sleeve (Pin)					200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn			
Contact (Clip)					10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	Au Flash			

DUAL-IN-LINE SOCKETS

SERIES 101 • CLINCH PIN • OPEN FRAME



- Special lock-down feature prevents floating of socket during soldering. Open insulator with ladder construction
- Socket pins feature closed end construction eliminating any solder wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 101 uses MM #1001 and MM #0156 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	Pin Spacing (mm)			Quantity per tube	
	A	B	C		
6	0.3	0.3	0.4	67	101-93-306-41-56X000
8	0.4	0.3	0.4	50	101-93-308-41-56X000
14	0.7	0.3	0.4	28	101-93-314-41-56X000
16	0.8	0.3	0.4	25	101-93-316-41-56X000
18	0.9	0.3	0.4	22	101-93-318-41-56X000
20	1.0	0.3	0.4	20	101-93-320-41-56X000
24	1.2	0.3	0.4	16	101-93-324-41-56X000
28	1.4	0.3	0.4	14	101-93-328-41-56X000
22	1.1	0.4	0.5	18	101-93-422-41-56X000
24	1.2	0.6	0.7	16	101-93-624-41-56X000
28	1.4	0.6	0.7	14	101-93-628-41-56X000
32	1.6	0.6	0.7	12	101-93-632-41-56X000
40	2.0	0.6	0.7	10	101-93-640-41-56X000
48	2.4	0.6	0.7	8	101-93-648-41-56X000
64	3.2	0.9	1.0	6	101-93-964-41-56X000

Clinch Pins:

Two Opposite Corner Pins **X = 0**

Four Corner Pins **X = 8**

XX=Plating Code
See Below

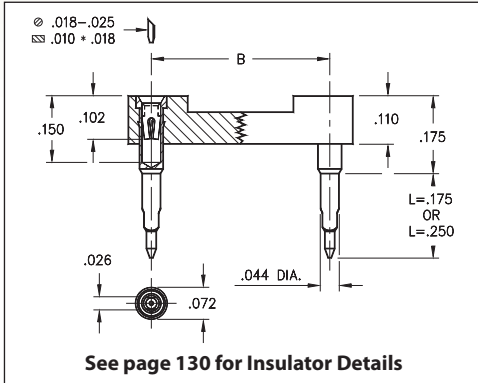


SPECIFY PLATING CODE XX =		93			
Sleeve (Pin)		200 μ" Sn/Pb			
Contact (Clip)		30 μ" Au			

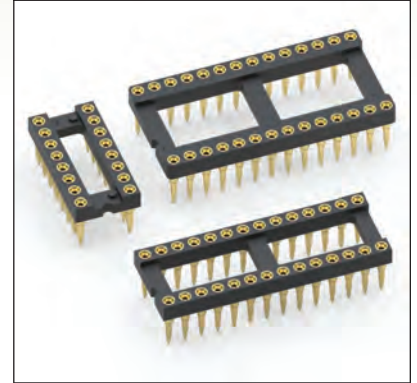


DUAL-IN-LINE SOCKETS

SERIES 104 • SOLDERLESS PRESS-FIT • OPEN FRAME



- Designed for solderless press-fit into plated through-holes
- Pin lengths are suitable for .062" and .093"-.125" thick panels
- Required plated through hole is .036"-.041". Use a 1.1mm drill prior to plating
- Series 104 uses MM #0477 or MM #0478 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = .175 (for .062" thick panel)	L = .250 (for .125" thick panel)				
10	0.5	0.2	0.3	40	104-XX-210-41-770000	104-XX-210-41-780000				
4	0.2	0.3	0.4	102	104-XX-304-41-770000	104-XX-304-41-780000				
6	0.3	0.3	0.4	67	104-XX-306-41-770000	104-XX-306-41-780000				
8	0.4	0.3	0.4	50	104-XX-308-41-770000	104-XX-308-41-780000				
10	0.5	0.3	0.4	40	104-XX-310-41-770000	104-XX-310-41-780000				
14	0.7	0.3	0.4	28	104-XX-314-41-770000	104-XX-314-41-780000				
16	0.8	0.3	0.4	25	104-XX-316-41-770000	104-XX-316-41-780000				
18	0.9	0.3	0.4	22	104-XX-318-41-770000	104-XX-318-41-780000				
20	1.0	0.3	0.4	20	104-XX-320-41-770000	104-XX-320-41-780000				
22	1.1	0.3	0.4	18	104-XX-322-41-770000	104-XX-322-41-780000				
24	1.2	0.3	0.4	16	104-XX-324-41-770000	104-XX-324-41-780000				
28	1.4	0.3	0.4	14	104-XX-328-41-770000	104-XX-328-41-780000				
20	1.0	0.4	0.5	20	104-XX-420-41-770000	104-XX-420-41-780000				
22	1.1	0.4	0.5	18	104-XX-422-41-770000	104-XX-422-41-780000				
24	1.2	0.4	0.5	16	104-XX-424-41-770000	104-XX-424-41-780000				
28	1.4	0.4	0.5	14	104-XX-428-41-770000	104-XX-428-41-780000				
32	1.6	0.4	0.5	12	104-XX-432-41-770000	104-XX-432-41-780000				
24	1.2	0.6	0.7	16	104-XX-624-41-770000	104-XX-624-41-780000				
28	1.4	0.6	0.7	14	104-XX-628-41-770000	104-XX-628-41-780000				
32	1.6	0.6	0.7	12	104-XX-632-41-770000	104-XX-632-41-780000				
36	1.8	0.6	0.7	11	104-XX-636-41-770000	104-XX-636-41-780000				
40	2.0	0.6	0.7	10	104-XX-640-41-770000	104-XX-640-41-780000				
42	2.1	0.6	0.7	9	104-XX-642-41-770000	104-XX-642-41-780000				
48	2.4	0.6	0.7	8	104-XX-648-41-770000	104-XX-648-41-780000				
50	2.5	0.6	0.7	8	104-XX-650-41-770000	104-XX-650-41-780000				
52	2.6	0.6	0.7	7	104-XX-652-41-770000	104-XX-652-41-780000				
50	2.5	0.9	1.0	8	104-XX-950-41-770000	104-XX-950-41-780000				
52	2.6	0.9	1.0	7	104-XX-952-41-770000	104-XX-952-41-780000				
64	3.2	0.9	1.0	6	104-XX-964-41-770000	104-XX-964-41-780000				
SPECIFY PLATING CODE XX =					11	13				
Sleeve (Pin)					10 μ" Au	10 μ" Au				
Contact (Clip)					10 μ" Au	30 μ" Au				

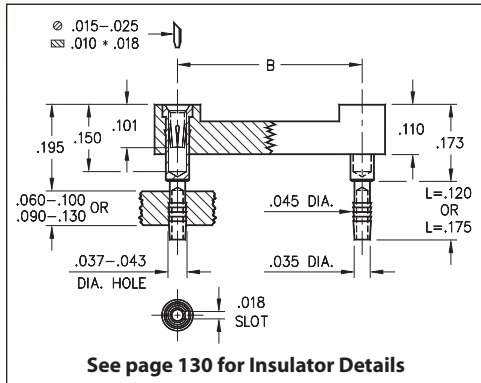


XX=Plating Code
See Below

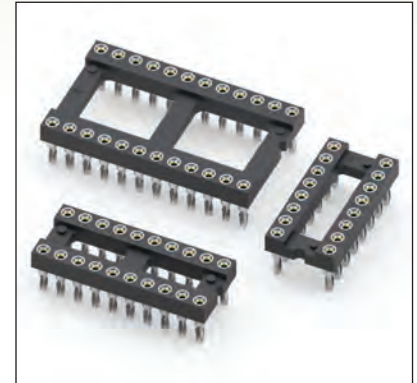


DUAL-IN-LINE SOCKETS

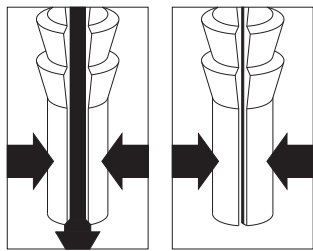
SERIES 146 • SOLDERLESS PRESS-FIT, COMPLIANT TAIL • OPEN FRAME



- Unique compliant tail pins conform to a $.040" \pm .003"$ finished plated through hole diameter without stressing inner layers
- Two tails lengths are offered for $.060"$ - $.100"$ and $.090"$ - $.130"$ thick panels
- Series 146 uses MM #4612 or MM #4613 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details



APPLICATION OF COMPLIANT TAIL PINS



Mill-Max's patented* precision-machined pins feature compliant tails that are hollow and slotted to conform to a $.040" \pm .003"$ diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

*Patent No. 4,799,904.

Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C		L = .120 (for .060"- .100" thick panel)	L = .175 (for .090"- .130" thick panel)		
6	0.3	0.3	0.4	67	146-XX-306-41-012000	146-XX-306-41-013000		
8	0.4	0.3	0.4	50	146-XX-308-41-012000	146-XX-308-41-013000		
14	0.7	0.3	0.4	28	146-XX-314-41-012000	146-XX-314-41-013000		
16	0.8	0.3	0.4	25	146-XX-316-41-012000	146-XX-316-41-013000		
18	0.9	0.3	0.4	22	146-XX-318-41-012000	146-XX-318-41-013000		
20	1.0	0.3	0.4	20	146-XX-320-41-012000	146-XX-320-41-013000		
24	1.2	0.3	0.4	16	146-XX-324-41-012000	146-XX-324-41-013000		
22	1.1	0.4	0.5	18	146-XX-422-41-012000	146-XX-422-41-013000		
24	1.2	0.6	0.7	16	146-XX-624-41-012000	146-XX-624-41-013000		
28	1.4	0.6	0.7	14	146-XX-628-41-012000	146-XX-628-41-013000		
32	1.6	0.6	0.7	12	146-XX-632-41-012000	146-XX-632-41-013000		
40	2.0	0.6	0.7	10	146-XX-640-41-012000	146-XX-640-41-013000		
SPECIFY PLATING CODE XX =					91	93	41	43
Sleeve (Pin)					200 μ " Sn/Pb	200 μ " Sn/Pb	200 μ " Sn	200 μ " Sn
Contact (Clip)					10 μ " Au	30 μ " Au	10 μ " Au	30 μ " Au

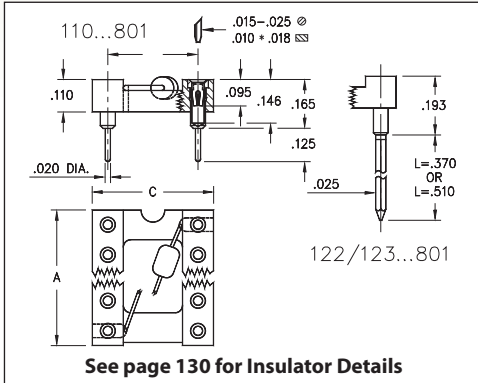


XX=Plating Code
See Below

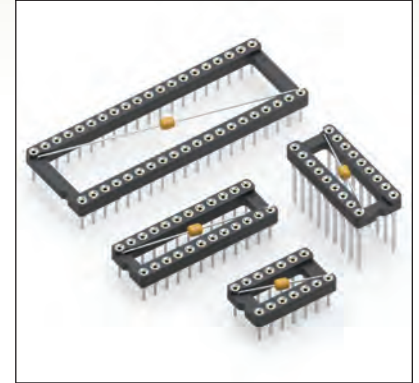


DUAL-IN-LINE SOCKETS

SERIES 110, 122, 123 • INTEGRAL DECOUPLING CAPACITOR • OPEN FRAME



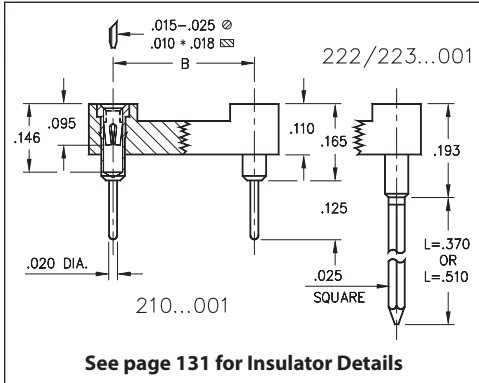
- Low profile DIP sockets w/ integral decoupling capacitor: .1 μ F 20%-50V multi-layer ceramic epoxy encapsulated. Temp. range: -25° C to +85° C
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110, 122 and 123 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



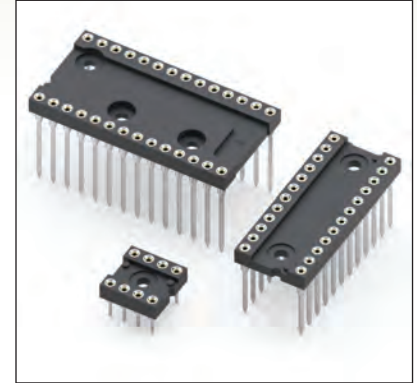
Total number of pins				Quantity per tube	ORDERING INFORMATION		
	A	B	C		Solder Tail	L = .370 (2 Level Wrappost)	L = .510 (3 Level Wrappost)
14	0.7	0.3	0.4	28	110-XX-314-41-801000	122-XX-314-41-801000	123-XX-314-41-801000
16	0.8	0.3	0.4	25	110-XX-316-41-801000	122-XX-316-41-801000	123-XX-316-41-801000
18	0.9	0.3	0.4	22	110-XX-318-41-801000	122-XX-318-41-801000	123-XX-318-41-801000
20	1.0	0.3	0.4	20	110-XX-320-41-801000	122-XX-320-41-801000	123-XX-320-41-801000
22	1.1	0.3	0.4	18	110-XX-322-41-801000	122-XX-322-41-801000	123-XX-322-41-801000
24	1.2	0.3	0.4	16	110-XX-324-41-801000	122-XX-324-41-801000	123-XX-324-41-801000
28	1.4	0.3	0.4	14	110-XX-328-41-801000	122-XX-328-41-801000	123-XX-328-41-801000
24	1.2	0.6	0.7	16	110-XX-624-41-801000	122-XX-624-41-801000	123-XX-624-41-801000
28	1.4	0.6	0.7	14	110-XX-628-41-801000	122-XX-628-41-801000	123-XX-628-41-801000
32	1.6	0.6	0.7	12	110-XX-632-41-801000	122-XX-632-41-801000	123-XX-632-41-801000
40	2.0	0.6	0.7	10	110-XX-640-41-801000	122-XX-640-41-801000	123-XX-640-41-801000
 XX=Plating Code See Below							
SPECIFY PLATING CODE XX =					13	93	43
Sleeve (Pin)					10 μ " Au	200 μ " Sn/Pb	200 μ " Sn
Contact (Clip)					30 μ " Au	30 μ " Au	30 μ " Au

DUAL-IN-LINE SOCKETS

SERIES 210, 222, 223 • SOLDER TAIL AND WRAPOST • CLOSED FRAME



- Closed frame insulator withstands high mechanical impact
- Available with standard solder pins, 2-level or 3-level wraposts
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210, 222 and 223 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

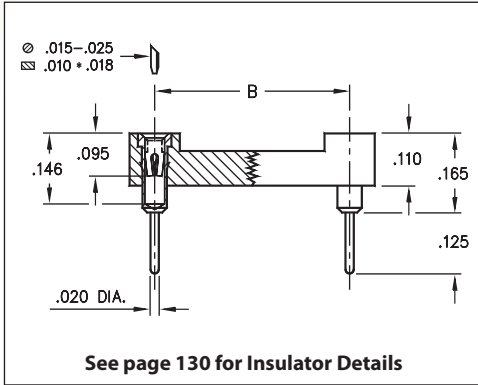


Total number of pins				Quantity per tube	ORDERING INFORMATION								
	A	B	C		Solder Tail	L = .370 (2 Level Wrapost)	L = .510 (3 Level Wrapost)						
6	0.3	0.3	0.4	67	210-XX-306-41-001000	222-XX-306-41-001000	223-XX-306-41-001000						
8	0.4	0.3	0.4	50	210-XX-308-41-001000	222-XX-308-41-001000	223-XX-308-41-001000						
10	0.5	0.3	0.4	40	210-XX-310-41-001000	222-XX-310-41-001000	223-XX-310-41-001000						
14	0.7	0.3	0.4	28	210-XX-314-41-001000	222-XX-314-41-001000	223-XX-314-41-001000						
16	0.8	0.3	0.4	25	210-XX-316-41-001000	222-XX-316-41-001000	223-XX-316-41-001000						
18	0.9	0.3	0.4	22	210-XX-318-41-001000	222-XX-318-41-001000	223-XX-318-41-001000						
20	1.0	0.3	0.4	20	210-XX-320-41-001000	222-XX-320-41-001000	223-XX-320-41-001000						
22	1.1	0.3	0.4	18	210-XX-322-41-001000	222-XX-322-41-001000	223-XX-322-41-001000						
24	1.2	0.3	0.4	16	210-XX-324-41-001000	222-XX-324-41-001000	223-XX-324-41-001000						
22	1.1	0.4	0.5	18	210-XX-422-41-001000	222-XX-422-41-001000	223-XX-422-41-001000						
24	1.2	0.4	0.5	16	210-XX-424-41-001000	222-XX-424-41-001000	223-XX-424-41-001000						
24	1.2	0.6	0.7	16	210-XX-624-41-001000	222-XX-624-41-001000	223-XX-624-41-001000						
28	1.4	0.6	0.7	14	210-XX-628-41-001000	222-XX-628-41-001000	223-XX-628-41-001000						
32	1.6	0.6	0.7	12	210-XX-632-41-001000	222-XX-632-41-001000	223-XX-632-41-001000						
36	1.8	0.6	0.7	11	210-XX-636-41-001000	222-XX-636-41-001000	223-XX-636-41-001000						
40	2.0	0.6	0.7	10	210-XX-640-41-001000	222-XX-640-41-001000	223-XX-640-41-001000						
64	3.2	0.9	1.0	6	210-XX-964-41-001000	222-XX-964-41-001000	223-XX-964-41-001000						
SPECIFY PLATING CODE XX =					11	13	91	93	99	41	43	44	47
Sleeve (Pin)					10 μ" Au	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)					10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	10 μ" Au	30 μ" Au	100 μ" Sn	Au Flash

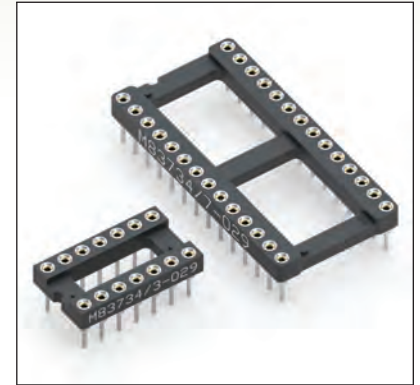


DUAL-IN-LINE SOCKETS

SERIES 110...530 • MIL-DTL-83734 APPROVED, SOLDER TAIL • OPEN FRAME



- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION	
	A	B	C		Mill-Max Part Number	Military Part Number
8	0.4	0.3	0.4	50	110-XX-308-41-530000	M83734/2-YYY
14	0.7	0.3	0.4	28	110-XX-314-41-530000	M83734/3-YYY
16	0.8	0.3	0.4	25	110-XX-316-41-530000	M83734/4-YYY
18	0.9	0.3	0.4	22	110-XX-318-41-530000	M83734/5-YYY
20	1.0	0.3	0.4	20	110-XX-320-41-530000	M83734/13-YYY
22	1.1	0.4	0.5	18	110-XX-422-41-530000	M83734/6-YYY
24	1.2	0.6	0.7	16	110-XX-624-41-530000	M83734/8-YYY
28	1.4	0.6	0.7	14	110-XX-628-41-530000	M83734/7-YYY
40	2.0	0.6	0.7	10	110-XX-640-41-530000	M83734/10-YYY
48	2.4	0.6	0.7	8	110-XX-648-41-530000	M83734/14-YYY
64	3.2	0.9	1.0	6	110-XX-964-41-530000	M83734/15-YYY

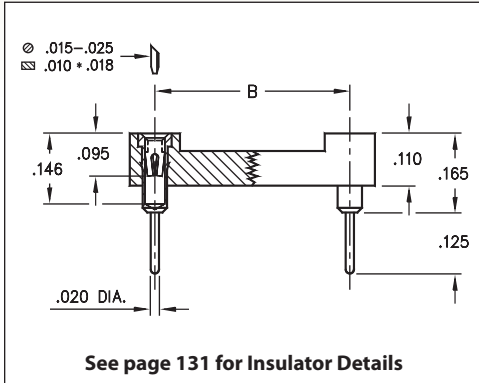
XX=Plating Code
See Below

SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL			
SPECIFY MILL-MAX PLATING CODE XX =	33	83	88
FOR MILITARY PLATING CODE YYY =	028	029	030
Sleeve (Pin)	30 μ" min. Au	300 μ" Sn/Pb	300 μ" Sn/Pb
Contact (Clip)	30 μ" min. Au	30 μ" min. Au	100 μ" Sn/Pb

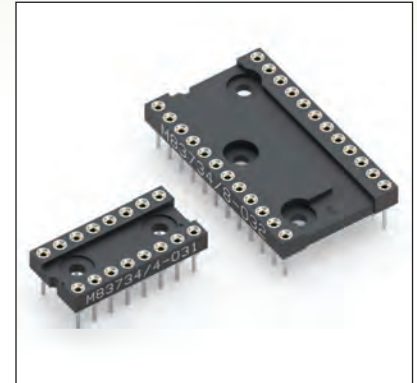


DUAL-IN-LINE SOCKETS

SERIES 210...101 • MIL-DTL-83734 APPROVED, SOLDER TAIL • CLOSED FRAME



- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

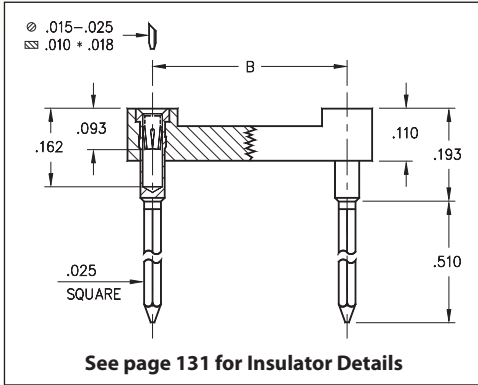


Total number of pins				Quantity per tube	ORDERING INFORMATION		
	A	B	C		Mill-Max Part Number	Military Part Number	
6	0.3	0.3	0.4	67	210-XX-306-41-101000	M83734/1-YYY	
8	0.4	0.3	0.4	50	210-XX-308-41-101000	M83734/2-YYY	
14	0.7	0.3	0.4	28	210-XX-314-41-101000	M83734/3-YYY	
16	0.8	0.3	0.4	25	210-XX-316-41-101000	M83734/4-YYY	
18	0.9	0.3	0.4	22	210-XX-318-41-101000	M83734/5-YYY	
20	1.0	0.3	0.4	20	210-XX-320-41-101000	M83734/13-YYY	
22	1.1	0.4	0.5	18	210-XX-422-41-101000	M83734/6-YYY	
24	1.2	0.6	0.7	16	210-XX-624-41-101000	M83734/8-YYY	
28	1.4	0.6	0.7	14	210-XX-628-41-101000	M83734/7-YYY	
32	1.6	0.6	0.7	10	210-XX-632-41-101000	M83734/17-YYY	
36	1.8	0.6	0.7	11	210-XX-636-41-101000	M83734/9-YYY	
40	2.0	0.6	0.7	8	210-XX-640-41-101000	M83734/10-YYY	
64	3.2	0.9	1.0	6	210-XX-964-41-101000	M83734/15-YYY	
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> XX=Plating Code See Below </div>					SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL		
SPECIFY MILL-MAX PLATING CODE XX =					33	83	88
FOR MILITARY PLATING CODE YYY =					031	032	033
(6 PIN ONLY) YYY =					025	026	027
(32 PIN ONLY) YYY =					013	014	015
Sleeve (Pin)					30 μ" min. Au	300 μ" Sn/Pb	300 μ" Sn/Pb
Contact (Clip)					30 μ" min. Au	30 μ" min. Au	100 μ" Sn/Pb

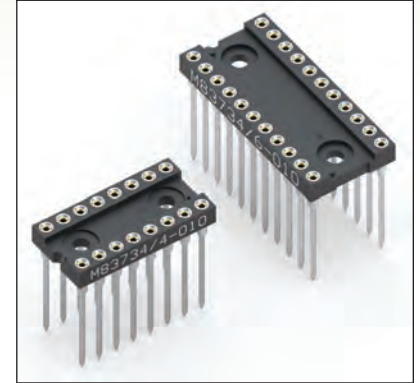


DUAL-IN-LINE SOCKETS

SERIES 223...101 • MIL-DTL-83734 APPROVED, 3 LEVEL WRAPOST • CLOSED FRAME



- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 223 uses MM #0038-3 or #0088-3 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C		Mill-Max Part Number		Military Part Number	
6	0.3	0.3	0.4	67	223-XX-306-41-101000	M83734/1-YYY		
8	0.4	0.3	0.4	50	223-XX-308-41-101000	M83734/2-YYY		
14	0.7	0.3	0.4	28	223-XX-314-41-101000	M83734/3-YYY		
16	0.8	0.3	0.4	25	223-XX-316-41-101000	M83734/4-YYY		
18	0.9	0.3	0.4	22	223-XX-318-41-101000	M83734/5-YYY		
20	1.0	0.3	0.4	20	223-XX-320-41-101000	M83734/13-YYY		
22	1.1	0.4	0.5	18	223-XX-422-41-101000	M83734/6-YYY		
24	1.2	0.6	0.7	16	223-XX-624-41-101000	M83734/8-YYY		
28	1.4	0.6	0.7	14	223-XX-628-41-101000	M83734/7-YYY		
32	1.6	0.6	0.7	12	223-XX-632-41-101000	M83734/17-YYY		
36	1.8	0.6	0.7	11	223-XX-636-41-101000	M83734/9-YYY		
40	2.0	0.6	0.7	10	223-XX-640-41-101000	M83734/10-YYY		
64	3.2	0.9	1.0	6	223-XX-964-41-101000	M83734/15-YYY		
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> XX=Plating Code See Below </div>					SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL			
SPECIFY MILL-MAX PLATING CODE XX =					33	83	88	
SPECIFY MILL-MAX PLATING CODE XX =					010	011	012	
(32 PIN ONLY) YYY =					007	008	009	
Sleeve (Pin)					30 μ" min. Au	300 μ" Sn/Pb	300 μ" Sn/Pb	
Contact (Clip)					30 μ" min. Au	30 μ" min. Au	100 μ" Sn/Pb	



DUAL-IN-LINE SOCKETS

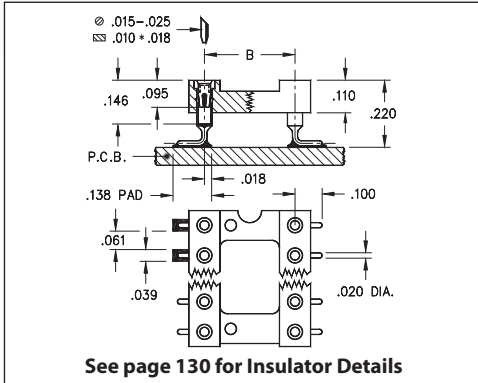
DIP SOCKETS QUALIFIED TO MIL-DTL-83734

MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #
M83734/1-010	223-33-306-41-101000	M83734/7-010	223-33-628-41-101000	M83734/15-030	110-88-964-41-530000
M83734/1-011	223-83-306-41-101000	M83734/7-011	223-83-628-41-101000	M83734/15-031	210-33-964-41-101000
M83734/1-012	223-88-306-41-101000	M83734/7-012	223-88-628-41-101000	M83734/15-032	210-83-964-41-101000
M83734/1-025	210-33-306-41-101000	M83734/7-028	110-33-628-41-530000	M83734/15-033	210-88-964-41-101000
M83734/1-026	210-83-306-41-101000	M83734/7-029	110-83-628-41-530000		
M83734/1-027	210-88-306-41-101000	M83734/7-030	110-88-628-41-530000	M83734/17-001	221-33-632-41-101000
		M83734/7-031	210-33-628-41-101000	M83734/17-002	221-83-632-41-101000
M83734/2-010	223-33-308-41-101000	M83734/7-032	210-83-628-41-101000	M83734/17-003	221-88-632-41-101000
M83734/2-011	223-83-308-41-101000	M83734/7-033	210-88-628-41-101000	M83734/17-004	222-33-632-41-101000
M83734/2-012	223-88-308-41-101000			M83734/17-005	222-83-632-41-101000
M83734/2-028	110-33-308-41-530000	M83734/8-010	223-33-624-41-101000	M83734/17-006	222-88-632-41-101000
M83734/2-029	110-83-308-41-530000	M83734/8-011	223-83-624-41-101000	M83734/17-007	223-33-632-41-101000
M83734/2-030	110-88-308-41-530000	M83734/8-012	223-88-624-41-101000	M83734/17-008	223-83-632-41-101000
M83734/2-031	210-33-308-41-101000	M83734/8-028	110-33-624-41-530000	M83734/17-009	223-88-632-41-101000
M83734/2-032	210-83-308-41-101000	M83734/8-029	110-83-624-41-530000	M83734/17-013	210-33-632-41-101000
M83734/2-033	210-88-308-41-101000	M83734/8-030	110-88-624-41-530000	M83734/17-014	210-83-632-41-101000
		M83734/8-031	210-33-624-41-101000	M83734/17-015	210-88-632-41-101000
M83734/3-010	223-33-314-41-101000	M83734/8-032	210-83-624-41-101000		
M83734/3-011	223-83-314-41-101000	M83734/8-033	210-88-624-41-101000		
M83734/3-012	223-88-314-41-101000				
M83734/3-028	110-33-314-41-530000	M83734/9-010	223-33-636-41-101000		
M83734/3-029	110-83-314-41-530000	M83734/9-011	223-83-636-41-101000		
M83734/3-030	110-88-314-41-530000	M83734/9-012	223-88-636-41-101000		
M83734/3-031	210-33-314-41-101000	M83734/9-031	210-33-636-41-101000		
M83734/3-032	210-83-314-41-101000	M83734/9-032	210-83-636-41-101000		
M83734/3-033	210-88-314-41-101000	M83734/9-033	210-88-636-41-101000		
M83734/4-010	223-33-316-41-101000	M83734/10-010	223-33-640-41-101000		
M83734/4-011	223-83-316-41-101000	M83734/10-011	223-83-640-41-101000		
M83734/4-012	223-88-316-41-101000	M83734/10-012	223-88-640-41-101000		
M83734/4-028	110-33-316-41-530000	M83734/10-028	110-33-640-41-530000		
M83734/4-029	110-83-316-41-530000	M83734/10-029	110-83-640-41-530000		
M83734/4-030	110-88-316-41-530000	M83734/10-030	110-88-640-41-530000		
M83734/4-031	210-33-316-41-101000	M83734/10-031	210-33-640-41-101000		
M83734/4-032	210-83-316-41-101000	M83734/10-032	210-83-640-41-101000		
M83734/4-033	210-88-316-41-101000	M83734/10-033	210-88-640-41-101000		
M83734/5-010	223-33-318-41-101000	M83734/13-010	223-33-320-41-101000		
M83734/5-011	223-83-318-41-101000	M83734/13-011	223-83-320-41-101000		
M83734/5-012	223-88-318-41-101000	M83734/13-012	223-88-320-41-101000		
M83734/5-028	110-33-318-41-530000	M83734/13-028	110-33-320-41-530000		
M83734/5-029	110-83-318-41-530000	M83734/13-029	110-83-320-41-530000		
M83734/5-030	110-88-318-41-530000	M83734/13-030	110-88-320-41-530000		
M83734/5-031	210-33-318-41-101000	M83734/13-031	210-33-320-41-101000		
M83734/5-032	210-83-318-41-101000	M83734/13-032	210-83-320-41-101000		
M83734/5-033	210-88-318-41-101000	M83734/13-033	210-88-320-41-101000		
M83734/6-010	223-33-422-41-101000	M83734/14-028	110-33-648-41-530000		
M83734/6-011	223-83-422-41-101000	M83734/14-029	110-83-648-41-530000		
M83734/6-012	223-88-422-41-101000	M83734/14-030	110-88-648-41-530000		
M83734/6-028	110-33-422-41-530000				
M83734/6-029	110-83-422-41-530000	M83734/15-010	223-33-964-41-101000		
M83734/6-030	110-88-422-41-530000	M83734/15-011	223-83-964-41-101000		
M83734/6-031	210-33-422-41-101000	M83734/15-012	223-88-964-41-101000		
M83734/6-032	210-83-422-41-101000	M83734/15-028	110-33-964-41-530000		
M83734/6-033	210-88-422-41-101000	M83734/15-029	110-83-964-41-530000		

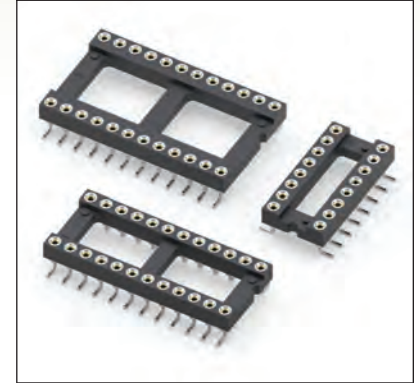


DUAL-IN-LINE SOCKETS

SERIES 110...105 • SURFACE MOUNT, GULL WING • OPEN FRAME



- Socket pins feature closed end construction eliminating any solder wicking problems
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints. Series 110 uses Mill-Max #1005 pins. See page 166 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



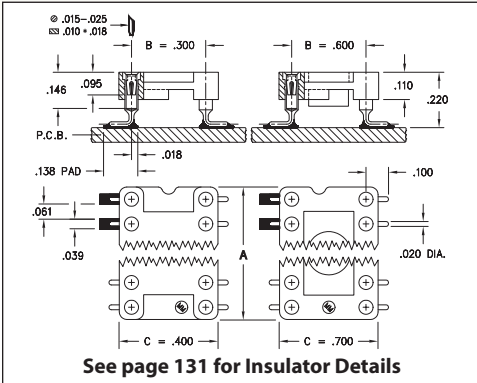
Total number of pins				Quantity per tube	<h3>ORDERING INFORMATION</h3>															
	A	B	C																	
10	0.5	0.2	0.3	40	110-XX-210-41-105000															
4	0.2	0.3	0.4	102	110-XX-304-41-105000															
6	0.3	0.3	0.4	67	110-XX-306-41-105000															
8	0.4	0.3	0.4	50	110-XX-308-41-105000															
10	0.5	0.3	0.4	40	110-XX-310-41-105000															
14	0.7	0.3	0.4	28	110-XX-314-41-105000															
16	0.8	0.3	0.4	25	110-XX-316-41-105000															
18	0.9	0.3	0.4	22	110-XX-318-41-105000															
20	1.0	0.3	0.4	20	110-XX-320-41-105000															
22	1.1	0.3	0.4	18	110-XX-322-41-105000															
24	1.2	0.3	0.4	16	110-XX-324-41-105000															
28	1.4	0.3	0.4	14	110-XX-328-41-105000															
20	1.0	0.4	0.5	20	110-XX-420-41-105000															
22	1.1	0.4	0.5	18	110-XX-422-41-105000															
24	1.2	0.4	0.5	16	110-XX-424-41-105000															
28	1.4	0.4	0.5	14	110-XX-428-41-105000															
32	1.6	0.4	0.5	12	110-XX-432-41-105000															
24	1.2	0.6	0.7	16	110-XX-624-41-105000															
28	1.4	0.6	0.7	14	110-XX-628-41-105000															
32	1.6	0.6	0.7	12	110-XX-632-41-105000															
36	1.8	0.6	0.7	11	110-XX-636-41-105000															
40	2.0	0.6	0.7	10	110-XX-640-41-105000															
42	2.1	0.6	0.7	9	110-XX-642-41-105000															
48	2.4	0.6	0.7	8	110-XX-648-41-105000															
50	2.5	0.6	0.7	8	110-XX-650-41-105000															
52	2.6	0.6	0.7	7	110-XX-652-41-105000															
50	2.5	0.9	1.0	8	110-XX-950-41-105000															
52	2.6	0.9	1.0	7	110-XX-952-41-105000															
64	3.2	0.9	1.0	6	110-XX-964-41-105000															
See page 264 for coplanarity information					SPECIFY PLATING CODE XX=					91	93			43	47					
					Sleeve (Pin)										200 μ" Sn/Pb	200 μ" Sn/Pb			200 μ" Sn	200 μ" Sn
					Contact (Clip)										10 μ" Au	30 μ" Au			30 μ" Au	Au Flash

XX=Plating Code
See Below

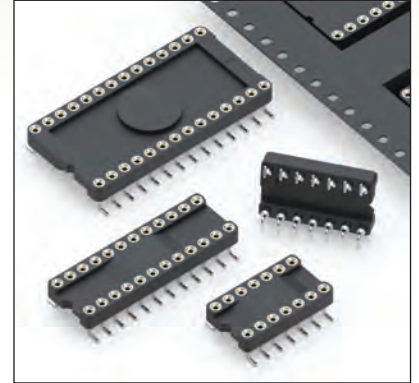


DUAL-IN-LINE SOCKETS

SERIES 210...105 • SMT, AUTO PLACEMENT, GULL WING • CLOSED FRAME



- Closed frame insulator is vision system compatible
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints. Series 210 uses Mill-Max #1005 pins. See page 166 for details
- Available packaged in tubes or on tape & reel per EIA-481
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- High-temp Nylon 46 insulator is suitable for all forms of reflow soldering
- For Electrical, Mechanical and Environmental Data, see page 264 for details

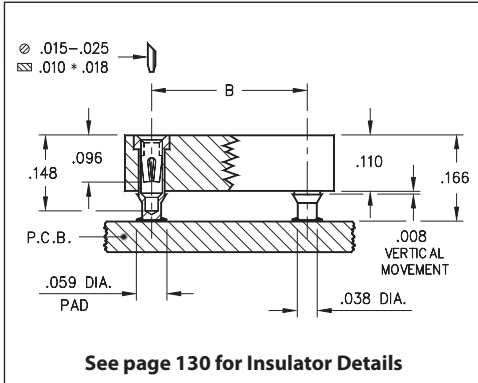


Total number of pins				Quantity per tube	ORDERING INFORMATION						
	A	B	C		Tube Packaging	Tape & Reel Packaging	Tape Width (mm)	QTY per Reel			
VACUUM PAD TOP SURFACE ONLY											
6	0.3	0.3	0.4	67	210-XX-306-41-105000	210-XX-306-41-105799	16	400			
8	0.4	0.3	0.4	50	210-XX-308-41-105000	210-XX-308-41-105799	24	400			
14	0.7	0.3	0.4	28	210-XX-314-41-105000	210-XX-314-41-105799	32	400			
16	0.8	0.3	0.4	25	210-XX-316-41-105000	210-XX-316-41-105799	32	400			
18	0.9	0.3	0.4	22	210-XX-318-41-105000	210-XX-318-41-105799	44	400			
20	1.0	0.3	0.4	20	210-XX-320-41-105000	210-XX-320-41-105799	44	400			
24	1.2	0.3	0.4	16	210-XX-324-41-105000	210-XX-324-41-105799	44	400			
VACUUM PAD TOP AND BOTTOM											
24	1.2	0.6	0.7	16	210-XX-624-41-105000	210-XX-624-41-105799	44	300			
28	1.4	0.6	0.7	14	210-XX-628-41-105000	210-XX-628-41-105799	56	300			
32	1.6	0.6	0.7	12	210-XX-632-41-105000	210-XX-632-41-105799	56	300			
40	2.0	0.6	0.7	10	210-XX-640-41-105000	NOT AVAILABLE					
See page 264 for coplanarity information					SPECIFY PLATING CODE XX=						
					Sleeve (Pin)			93		43	
					Contact (Clip)			200 μ" Sn/Pb		200 μ" Sn	
							30 μ" Au		30 μ" Au		

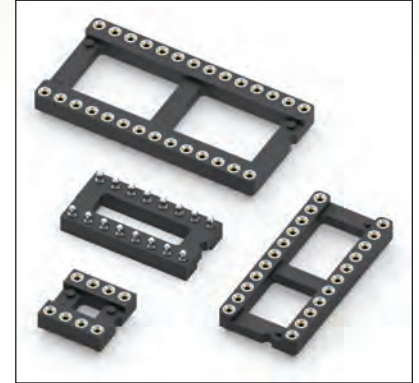




DUAL-IN-LINE SOCKETS

SERIES 114 • SURFACE MOUNT, STUB TAIL • OPEN FRAME



- Unique floating contacts compensate for the effects of unevenly dispensed solder paste
- Socket pins feature closed end construction eliminating any solder/flux wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 114 uses MM #1434 pins. See page 162 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data see page 264 for details



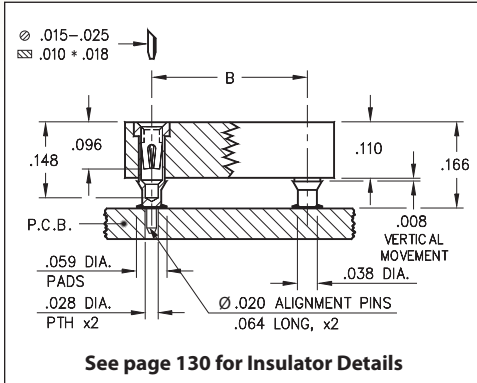
Total number of pins	Pin Spacing Dimensions (inches)			Quantity per tube	ORDERING INFORMATION						
	A	B	C								
10	0.5	0.2	0.3	41	114-XX-210-41-117000						
4	0.2	0.3	0.4	100	114-XX-304-41-117000						
6	0.3	0.3	0.4	67	114-XX-306-41-117000						
8	0.4	0.3	0.4	50	114-XX-308-41-117000						
10	0.5	0.3	0.4	40	114-XX-310-41-117000						
14	0.7	0.3	0.4	28	114-XX-314-41-117000						
16	0.8	0.3	0.4	25	114-XX-316-41-117000						
18	0.9	0.3	0.4	22	114-XX-318-41-117000						
20	1.0	0.3	0.4	20	114-XX-320-41-117000						
22	1.1	0.3	0.4	18	114-XX-322-41-117000						
24	1.2	0.3	0.4	16	114-XX-324-41-117000						
28	1.4	0.3	0.4	14	114-XX-328-41-117000						
20	1.0	0.4	0.5	20	114-XX-420-41-117000						
22	1.1	0.4	0.5	18	114-XX-422-41-117000						
24	1.2	0.4	0.5	16	114-XX-424-41-117000						
28	1.4	0.4	0.5	14	114-XX-428-41-117000						
32	1.6	0.4	0.5	12	114-XX-432-41-117000						
24	1.2	0.6	0.7	16	114-XX-624-41-117000						
28	1.4	0.6	0.7	14	114-XX-628-41-117000						
32	1.6	0.6	0.7	12	114-XX-632-41-117000						
36	1.8	0.6	0.7	11	114-XX-636-41-117000						
40	2.0	0.6	0.7	10	114-XX-640-41-117000						
42	2.1	0.6	0.7	9	114-XX-642-41-117000						
48	2.4	0.6	0.7	8	114-XX-648-41-117000						
50	2.5	0.6	0.7	8	114-XX-650-41-117000						
52	2.6	0.6	0.7	7	114-XX-652-41-117000						
50	2.5	0.9	1.0	8	114-XX-950-41-117000						
52	2.6	0.9	1.0	7	114-XX-952-41-117000						
64	3.2	0.9	1.0	6	114-XX-964-41-117000						
SPECIFY PLATING CODE XX = Sleeve (Pin)  Contact (Clip) 					91	93	41	43	47		
					200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn		
					10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	Au Flash		

XX=Plating Code
See Below



DUAL-IN-LINE SOCKETS

SERIES 113 • SURFACE MOUNT, STUB TAIL W/ ALIGNMENT PINS • OPEN FRAME



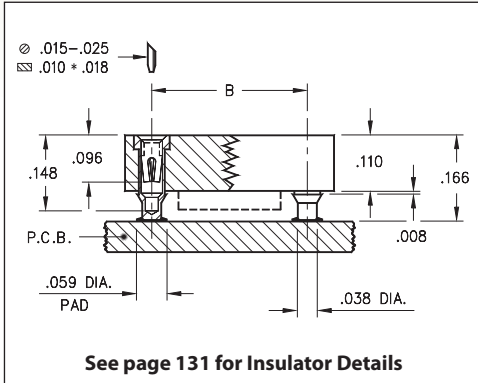
- Unique floating contacts compensate for the effects of unevenly dispensed solder paste
- Two corner alignment pins (power & ground positions) permit manual placement
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 113 uses MM #1334 and #1434 pins. See pages 162 and 171
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



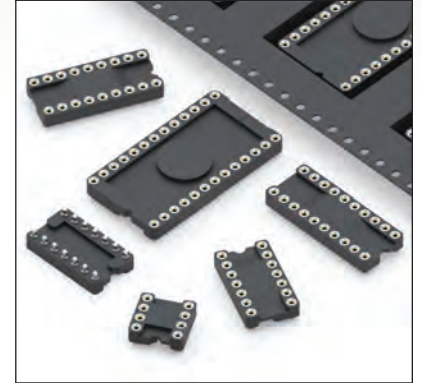
Total number of pins	ALIGNMENT PINS			Quantity per tube	ORDERING INFORMATION			
	A	B	C					
10	0.5	0.2	0.3	41	113-XX-210-41-117000			
4	0.2	0.3	0.4	100	113-XX-304-41-117000			
6	0.3	0.3	0.4	67	113-XX-306-41-117000			
8	0.4	0.3	0.4	50	113-XX-308-41-117000			
10	0.5	0.3	0.4	40	113-XX-310-41-117000			
14	0.7	0.3	0.4	28	113-XX-314-41-117000			
16	0.8	0.3	0.4	25	113-XX-316-41-117000			
18	0.9	0.3	0.4	22	113-XX-318-41-117000			
20	1.0	0.3	0.4	20	113-XX-320-41-117000			
22	1.1	0.3	0.4	18	113-XX-322-41-117000			
24	1.2	0.3	0.4	16	113-XX-324-41-117000			
28	1.4	0.3	0.4	14	113-XX-328-41-117000			
20	1.0	0.4	0.5	20	113-XX-420-41-117000			
22	1.1	0.4	0.5	18	113-XX-422-41-117000			
24	1.2	0.4	0.5	16	113-XX-424-41-117000			
28	1.4	0.4	0.5	14	113-XX-428-41-117000			
32	1.6	0.4	0.5	12	113-XX-432-41-117000			
24	1.2	0.6	0.7	16	113-XX-624-41-117000			
28	1.4	0.6	0.7	14	113-XX-628-41-117000			
32	1.6	0.6	0.7	12	113-XX-632-41-117000			
36	1.8	0.6	0.7	11	113-XX-636-41-117000			
40	2.0	0.6	0.7	10	113-XX-640-41-117000			
42	2.1	0.6	0.7	9	113-XX-642-41-117000			
48	2.4	0.6	0.7	8	113-XX-648-41-117000			
50	2.5	0.6	0.7	8	113-XX-650-41-117000			
52	2.6	0.6	0.7	7	113-XX-652-41-117000			
50	2.5	0.9	1.0	8	113-XX-950-41-117000			
52	2.6	0.9	1.0	7	113-XX-952-41-117000			
64	3.2	0.9	1.0	6	113-XX-964-41-117000			
XX=Plating Code See Below					RoHS-2 2011/65/EU			
SPECIFY PLATING CODE XX =					93		43	
Sleeve (Pin)					200 μ" Sn/Pb		200 μ" Sn	
Contact (Clip)					30 μ" Au		30 μ" Au	

DUAL-IN-LINE SOCKETS

SERIES 214 • SURFACE MOUNT, AUTO PLACEMENT, STUB TAIL • CLOSED FRAME



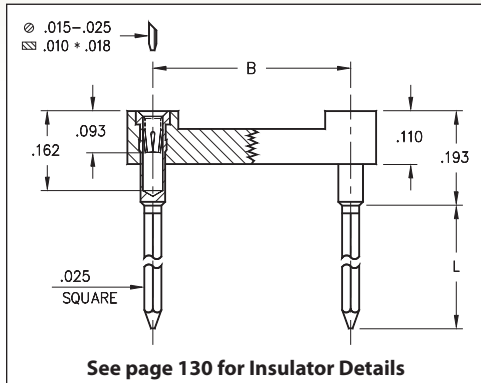
- Unique floating contacts compensate for the effects of unevenly screened solder paste
- Available packaged in tubes or on tape & reel per EIA-481
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 214 uses MM #1434 pins. See page 162 for details
- High temp. Nylon 46 insulator is suitable for all surface mount soldering processes. Closed frame insulator is vision system compatible
- For Electrical, Mechanical and Environmental Data, see page 264 for details



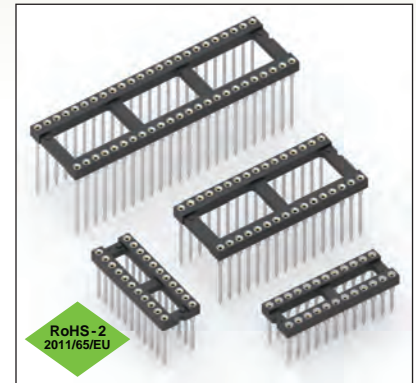
Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		Tube Packaging	Tape & Reel Packaging	Tape Width (mm)	QTY per Reel	
VACUUM PAD TOP SURFACE ONLY									
6	0.3	0.3	0.4	67	214-XX-306-01-670800	214-XX-306-01-670799	16	750	
8	0.4	0.3	0.4	50	214-XX-308-01-670800	214-XX-308-01-670799	16	1000	
14	0.7	0.3	0.4	28	214-XX-314-01-670800	214-XX-314-01-670799	32	750	
16	0.8	0.3	0.4	25	214-XX-316-01-670800	214-XX-316-01-670799	32	750	
18	0.9	0.3	0.4	22	214-XX-318-01-670800	214-XX-318-01-670799	44	750	
20	1.0	0.3	0.4	20	214-XX-320-01-670800	214-XX-320-01-670799	44	750	
VACUUM PAD TOP AND BOTTOM									
24	1.2	0.6	0.7	16	214-XX-624-01-670800	214-XX-624-01-670799	44	400	
28	1.4	0.6	0.7	14	214-XX-628-01-670800	214-XX-628-01-670799	56	400	
32	1.6	0.6	0.7	12	214-XX-632-01-670800	214-XX-632-01-670799	56	400	
40	2.0	0.6	0.7	10	214-XX-640-01-670800	NOT AVAILABLE			
SPECIFY PLATING CODE XX =								99	44
Sleeve (Pin)								200 μ" Sn/Pb	200 μ" Sn
Contact (Clip)								100 μ" Sn/Pb	100 μ" Sn

DUAL-IN-LINE SOCKETS

SERIES 121, 122, 123, 124 • 1 - 4 LEVEL WRAPOST • OPEN FRAME



- Solderless wrappost terminals are firmly locked in the insulator body to withstand torque of a wrapping tool
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 121, 122, 123 and 124 use MM #0040, #0086, #0088 and #0089 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

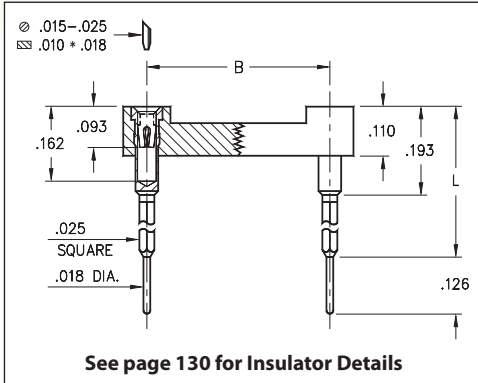


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = .260 (1 Level Wrappost)	L = .370 (2 Level Wrappost)	L = .510 (3 Level Wrappost)	L = .630 (4 Level Wrappost)		
	10	0.5	0.2		0.3	40	121-XX-210-41-001000	122-XX-210-41-001000	123-XX-210-41-001000	124-XX-210-41-002000 <i>43 or 93 Plating Code ONLY</i>
4	0.2	0.3	0.4	102	121-XX-304-41-001000	122-XX-304-41-001000	123-XX-304-41-001000	124-XX-304-41-002000		
6	0.3	0.3	0.4	67	121-XX-306-41-001000	122-XX-306-41-001000	123-XX-306-41-001000	124-XX-306-41-002000		
8	0.4	0.3	0.4	50	121-XX-308-41-001000	122-XX-308-41-001000	123-XX-308-41-001000	124-XX-308-41-002000		
10	0.5	0.3	0.4	40	121-XX-310-41-001000	122-XX-310-41-001000	123-XX-310-41-001000	124-XX-310-41-002000		
14	0.7	0.3	0.4	28	121-XX-314-41-001000	122-XX-314-41-001000	123-XX-314-41-001000	124-XX-314-41-002000		
16	0.8	0.3	0.4	25	121-XX-316-41-001000	122-XX-316-41-001000	123-XX-316-41-001000	124-XX-316-41-002000		
18	0.9	0.3	0.4	22	121-XX-318-41-001000	122-XX-318-41-001000	123-XX-318-41-001000	124-XX-318-41-002000		
20	1.0	0.3	0.4	20	121-XX-320-41-001000	122-XX-320-41-001000	123-XX-320-41-001000	124-XX-320-41-002000		
22	1.1	0.3	0.4	18	121-XX-322-41-001000	122-XX-322-41-001000	123-XX-322-41-001000	124-XX-322-41-002000		
24	1.2	0.3	0.4	16	121-XX-324-41-001000	122-XX-324-41-001000	123-XX-324-41-001000	124-XX-324-41-002000		
28	1.4	0.3	0.4	14	121-XX-328-41-001000	122-XX-328-41-001000	123-XX-328-41-001000	124-XX-328-41-002000 <i>43 or 93 Plating Code ONLY</i>		
20	1.0	0.4	0.5	20	121-XX-420-41-001000	122-XX-420-41-001000	123-XX-420-41-001000	124-XX-420-41-002000		
22	1.1	0.4	0.5	18	121-XX-422-41-001000	122-XX-422-41-001000	123-XX-422-41-001000	124-XX-422-41-002000		
24	1.2	0.4	0.5	16	121-XX-424-41-001000	122-XX-424-41-001000	123-XX-424-41-001000	124-XX-424-41-002000		
28	1.4	0.4	0.5	14	121-XX-428-41-001000	122-XX-428-41-001000	123-XX-428-41-001000	124-XX-428-41-002000		
32	1.6	0.4	0.5	12	121-XX-432-41-001000	122-XX-432-41-001000	123-XX-432-41-001000	124-XX-432-41-002000 <i>43 or 93 Plating Code ONLY</i>		
24	1.2	0.6	0.7	16	121-XX-624-41-001000	122-XX-624-41-001000	123-XX-624-41-001000	124-XX-624-41-002000		
28	1.4	0.6	0.7	14	121-XX-628-41-001000	122-XX-628-41-001000	123-XX-628-41-001000	124-XX-628-41-002000		
32	1.6	0.6	0.7	12	121-XX-632-41-001000	122-XX-632-41-001000	123-XX-632-41-001000	124-XX-632-41-002000		
36	1.8	0.6	0.7	11	121-XX-636-41-001000	122-XX-636-41-001000	123-XX-636-41-001000	124-XX-636-41-002000		
40	2.0	0.6	0.7	10	121-XX-640-41-001000	122-XX-640-41-001000	123-XX-640-41-001000	124-XX-640-41-002000		
42	2.1	0.6	0.7	9	121-XX-642-41-001000	122-XX-642-41-001000	123-XX-642-41-001000	124-XX-642-41-002000		
48	2.4	0.6	0.7	8	121-XX-648-41-001000	122-XX-648-41-001000	123-XX-648-41-001000	124-XX-648-41-002000		
50	2.5	0.6	0.7	8	121-XX-650-41-001000	122-XX-650-41-001000	123-XX-650-41-001000	124-XX-650-41-002000		
52	2.6	0.6	0.7	7	121-XX-652-41-001000	122-XX-652-41-001000	123-XX-652-41-001000	124-XX-652-41-002000 <i>43 or 93 Plating Code ONLY</i>		
50	2.5	0.9	1.0	8	121-XX-950-41-001000	122-XX-950-41-001000	123-XX-950-41-001000	124-XX-950-41-002000		
52	2.6	0.9	1.0	7	121-XX-952-41-001000	122-XX-952-41-001000	123-XX-952-41-001000	124-XX-952-41-002000		
64	3.2	0.9	1.0	6	121-XX-964-41-001000	122-XX-964-41-001000	123-XX-964-41-001000	124-XX-964-41-002000		
SPECIFY PLATING CODE XX =					13 ◆	91	93	41 ◆	43 ◆	47 ◆
Sleeve (Pin)					10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn
Contact (Clip)					30 μ" Au	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	Au Flash

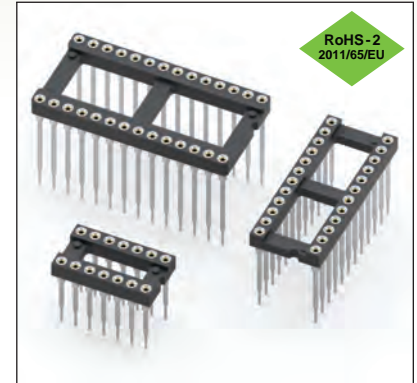


DUAL-IN-LINE SOCKETS

SERIES 126 • PLUGGABLE WRAPPOST • OPEN FRAME



- Combines one through three level wrappost with pluggable solder tails
- Suitable for use as an interconnect socket with intermediate wire wrapped connections
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 126 uses MM #2601, #2602 and #2603 pins. See page 199 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

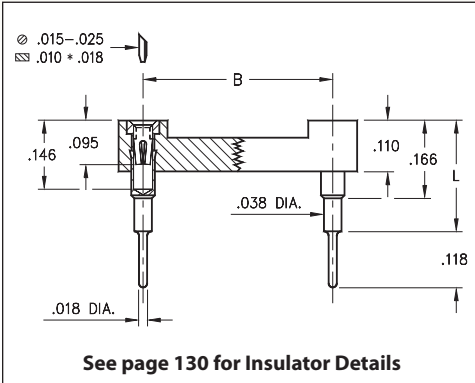


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = .425 (1 Level Wrappost = .232)		L = .543 (2 Level Wrappost = .350)		L = .661 (3 Level Wrappost = .469)	
					91	93	41	43	41	43
10	0.5	0.2	0.3	40	126-XX-210-41-001000	126-XX-210-41-002000	126-XX-210-41-003000			
4	0.2	0.3	0.4	102	126-XX-304-41-001000	126-XX-304-41-002000	126-XX-304-41-003000			
6	0.3	0.3	0.4	67	126-XX-306-41-001000	126-XX-306-41-002000	126-XX-306-41-003000			
8	0.4	0.3	0.4	50	126-XX-308-41-001000	126-XX-308-41-002000	126-XX-308-41-003000			
10	0.5	0.3	0.4	40	126-XX-310-41-001000	126-XX-310-41-002000	126-XX-310-41-003000			
14	0.7	0.3	0.4	28	126-XX-314-41-001000	126-XX-314-41-002000	126-XX-314-41-003000			
16	0.8	0.3	0.4	25	126-XX-316-41-001000	126-XX-316-41-002000	126-XX-316-41-003000			
18	0.9	0.3	0.4	22	126-XX-318-41-001000	126-XX-318-41-002000	126-XX-318-41-003000			
20	1.0	0.3	0.4	20	126-XX-320-41-001000	126-XX-320-41-002000	126-XX-320-41-003000			
22	1.1	0.3	0.4	18	126-XX-322-41-001000	126-XX-322-41-002000	126-XX-322-41-003000			
24	1.2	0.3	0.4	16	126-XX-324-41-001000	126-XX-324-41-002000	126-XX-324-41-003000			
28	1.4	0.3	0.4	14	126-XX-328-41-001000	126-XX-328-41-002000	126-XX-328-41-003000			
20	1.0	0.4	0.5	20	126-XX-420-41-001000	126-XX-420-41-002000	126-XX-420-41-003000			
22	1.1	0.4	0.5	18	126-XX-422-41-001000	126-XX-422-41-002000	126-XX-422-41-003000			
24	1.2	0.4	0.5	16	126-XX-424-41-001000	126-XX-424-41-002000	126-XX-424-41-003000			
28	1.4	0.4	0.5	14	126-XX-428-41-001000	126-XX-428-41-002000	126-XX-428-41-003000			
32	1.6	0.4	0.5	12	126-XX-432-41-001000	126-XX-432-41-002000	126-XX-432-41-003000			
24	1.2	0.6	0.7	16	126-XX-624-41-001000	126-XX-624-41-002000	126-XX-624-41-003000			
28	1.4	0.6	0.7	14	126-XX-628-41-001000	126-XX-628-41-002000	126-XX-628-41-003000			
32	1.6	0.6	0.7	12	126-XX-632-41-001000	126-XX-632-41-002000	126-XX-632-41-003000			
36	1.8	0.6	0.7	11	126-XX-636-41-001000	126-XX-636-41-002000	126-XX-636-41-003000			
40	2.0	0.6	0.7	10	126-XX-640-41-001000	126-XX-640-41-002000	126-XX-640-41-003000			
42	2.1	0.6	0.7	9	126-XX-642-41-001000	126-XX-642-41-002000	126-XX-642-41-003000			
48	2.4	0.6	0.7	8	126-XX-648-41-001000	126-XX-648-41-002000	126-XX-648-41-003000			
50	2.5	0.6	0.7	8	126-XX-650-41-001000	126-XX-650-41-002000	126-XX-650-41-003000			
52	2.6	0.6	0.7	7	126-XX-652-41-001000	126-XX-652-41-002000	126-XX-652-41-003000			
50	2.5	0.9	1.0	8	126-XX-950-41-001000	126-XX-950-41-002000	126-XX-950-41-003000			
52	2.6	0.9	1.0	7	126-XX-952-41-001000	126-XX-952-41-002000	126-XX-952-41-003000			
64	3.2	0.9	1.0	6	126-XX-964-41-001000	126-XX-964-41-002000	126-XX-964-41-003000			
SPECIFY PLATING CODE XX =						91	93	41	43	 XX=Plating Code See to Left
Sleeve (Pin)						200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	
Contact (Clip)						10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	

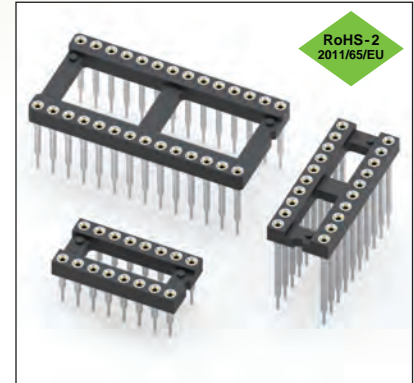


DUAL-IN-LINE SOCKETS

SERIES 116 • ELEVATED • OPEN FRAME



- Ideal for raised component requirements and stacking of PCBs
- Sockets are XY stackable
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 116 uses MM #0153-X pins. See page 167 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

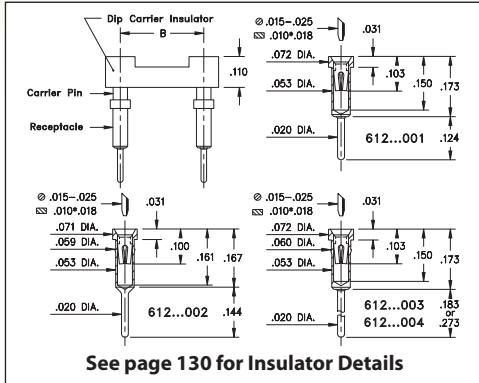


Total number of pins	Pin Spacing			Quantity per tube	ORDERING INFORMATION					
					L = .236	L = .315	L = .402	L = .472	L = .594	
	A	B	C		(#0153-1 pin)	(#0153-2 pin)	(#0153-3 pin)	(#0153-4 pin)	(#0153-5 pin)	
10	0.5	0.2	0.3	40	116-XX-210-41-006000	116-XX-210-41-003000	116-XX-210-41-007000	116-XX-210-41-008000	116-XX-210-41-001000	
4	0.2	0.3	0.4	102	116-XX-304-41-006000	116-XX-304-41-003000	116-XX-304-41-007000	116-XX-304-41-008000	116-XX-304-41-001000	
6	0.3	0.3	0.4	67	116-XX-306-41-006000	116-XX-306-41-003000	116-XX-306-41-007000	116-XX-306-41-008000	116-XX-306-41-001000	
8	0.4	0.3	0.4	50	116-XX-308-41-006000	116-XX-308-41-003000	116-XX-308-41-007000	116-XX-308-41-008000	116-XX-308-41-001000	
10	0.5	0.3	0.4	40	116-XX-310-41-006000	116-XX-310-41-003000	116-XX-310-41-007000	116-XX-310-41-008000	116-XX-310-41-001000	
14	0.7	0.3	0.4	28	116-XX-314-41-006000	116-XX-314-41-003000	116-XX-314-41-007000	116-XX-314-41-008000	116-XX-314-41-001000	
16	0.8	0.3	0.4	25	116-XX-316-41-006000	116-XX-316-41-003000	116-XX-316-41-007000	116-XX-316-41-008000	116-XX-316-41-001000	
18	0.9	0.3	0.4	22	116-XX-318-41-006000	116-XX-318-41-003000	116-XX-318-41-007000	116-XX-318-41-008000	116-XX-318-41-001000	
20	1.0	0.3	0.4	20	116-XX-320-41-006000	116-XX-320-41-003000	116-XX-320-41-007000	116-XX-320-41-008000	116-XX-320-41-001000	
22	1.1	0.3	0.4	18	116-XX-322-41-006000	116-XX-322-41-003000	116-XX-322-41-007000	116-XX-322-41-008000	116-XX-322-41-001000	
24	1.2	0.3	0.4	16	116-XX-324-41-006000	116-XX-324-41-003000	116-XX-324-41-007000	116-XX-324-41-008000	116-XX-324-41-001000	
28	1.4	0.3	0.4	14	116-XX-328-41-006000	116-XX-328-41-003000	116-XX-328-41-007000	116-XX-328-41-008000	116-XX-328-41-001000	
20	1.0	0.4	0.5	20	116-XX-420-41-006000	116-XX-420-41-003000	116-XX-420-41-007000	116-XX-420-41-008000	116-XX-420-41-001000	
22	1.1	0.4	0.5	18	116-XX-422-41-006000	116-XX-422-41-003000	116-XX-422-41-007000	116-XX-422-41-008000	116-XX-422-41-001000	
24	1.2	0.4	0.5	16	116-XX-424-41-006000	116-XX-424-41-003000	116-XX-424-41-007000	116-XX-424-41-008000	116-XX-424-41-001000	
28	1.4	0.4	0.5	14	116-XX-428-41-006000	116-XX-428-41-003000	116-XX-428-41-007000	116-XX-428-41-008000	116-XX-428-41-001000	
32	1.6	0.4	0.5	12	116-XX-432-41-006000	116-XX-432-41-003000	116-XX-432-41-007000	116-XX-432-41-008000	116-XX-432-41-001000	
24	1.2	0.6	0.7	16	116-XX-624-41-006000	116-XX-624-41-003000	116-XX-624-41-007000	116-XX-624-41-008000	116-XX-624-41-001000	
28	1.4	0.6	0.7	14	116-XX-628-41-006000	116-XX-628-41-003000	116-XX-628-41-007000	116-XX-628-41-008000	116-XX-628-41-001000	
32	1.6	0.6	0.7	12	116-XX-632-41-006000	116-XX-632-41-003000	116-XX-632-41-007000	116-XX-632-41-008000	116-XX-632-41-001000	
36	1.8	0.6	0.7	11	116-XX-636-41-006000	116-XX-636-41-003000	116-XX-636-41-007000	116-XX-636-41-008000	116-XX-636-41-001000	
40	2.0	0.6	0.7	10	116-XX-640-41-006000	116-XX-640-41-003000	116-XX-640-41-007000	116-XX-640-41-008000	116-XX-640-41-001000	
42	2.1	0.6	0.7	9	116-XX-642-41-006000	116-XX-642-41-003000	116-XX-642-41-007000	116-XX-642-41-008000	116-XX-642-41-001000	
48	2.4	0.6	0.7	8	116-XX-648-41-006000	116-XX-648-41-003000	116-XX-648-41-007000	116-XX-648-41-008000	116-XX-648-41-001000	
50	2.5	0.6	0.7	8	116-XX-650-41-006000	116-XX-650-41-003000	116-XX-650-41-007000	116-XX-650-41-008000	116-XX-650-41-001000	
52	2.6	0.6	0.7	7	116-XX-652-41-006000	116-XX-652-41-003000	116-XX-652-41-007000	116-XX-652-41-008000	116-XX-652-41-001000	
50	2.5	0.9	1.0	8	116-XX-950-41-006000	116-XX-950-41-003000	116-XX-950-41-007000	116-XX-950-41-008000	116-XX-950-41-001000	
52	2.6	0.9	1.0	7	116-XX-952-41-006000	116-XX-952-41-003000	116-XX-952-41-007000	116-XX-952-41-008000	116-XX-952-41-001000	
64	3.2	0.9	1.0	6	116-XX-964-41-006000	116-XX-964-41-003000	116-XX-964-41-007000	116-XX-964-41-008000	116-XX-964-41-001000	
SPECIFY PLATING CODE XX=					91	93	41 ◆	43 ◆	47 ◆	
Sleeve (Pin)					200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	200 μ" Sn	
Contact (Clip)					10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	Au Flash	

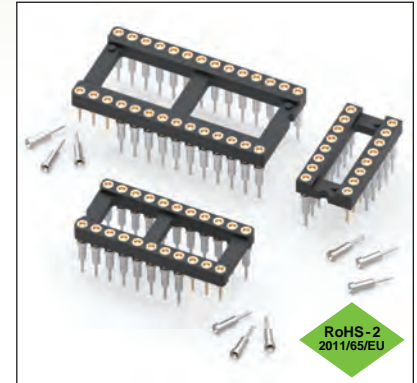


DUAL-IN-LINE SOCKETS

SERIES 612 • CARRIER TYPE, SOLDER TAIL • OPEN FRAME



- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 612 uses MM #0255, #8855, #0135 or #0132 pins. See pages 165 and 171 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

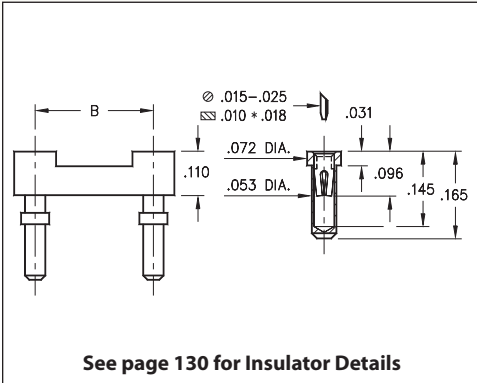


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		Tail Length = .124 (.022 Min. Mounting Hole)	Tail Length = .144 (.022 Min. Mounting Hole)	Tail Length = .183 (.022 Min. Mounting Hole)	Tail Length = .273 (.022 Min. Mounting Hole)		
10	0.5	0.2	0.3	40	612-XX-210-41-001000	612-XX-210-41-002000	612-XX-210-41-003000	612-XX-210-41-004000		
4	0.2	0.3	0.4	102	612-XX-304-41-001000	612-XX-304-41-002000	612-XX-304-41-003000	612-XX-304-41-004000		
6	0.3	0.3	0.4	68	612-XX-306-41-001000	612-XX-306-41-002000	612-XX-306-41-003000	612-XX-306-41-004000		
8	0.4	0.3	0.4	50	612-XX-308-41-001000	612-XX-308-41-002000	612-XX-308-41-003000	612-XX-308-41-004000		
10	0.5	0.3	0.4	40	612-XX-310-41-001000	612-XX-310-41-002000	612-XX-310-41-003000	612-XX-310-41-004000		
14	0.7	0.3	0.4	28	612-XX-314-41-001000	612-XX-314-41-002000	612-XX-314-41-003000	612-XX-314-41-004000		
16	0.8	0.3	0.4	25	612-XX-316-41-001000	612-XX-316-41-002000	612-XX-316-41-003000	612-XX-316-41-004000		
18	0.9	0.3	0.4	22	612-XX-318-41-001000	612-XX-318-41-002000	612-XX-318-41-003000	612-XX-318-41-004000		
20	1.0	0.3	0.4	20	612-XX-320-41-001000	612-XX-320-41-002000	612-XX-320-41-003000	612-XX-320-41-004000		
22	1.1	0.3	0.4	18	612-XX-322-41-001000	612-XX-322-41-002000	612-XX-322-41-003000	612-XX-322-41-004000		
24	1.2	0.3	0.4	16	612-XX-324-41-001000	612-XX-324-41-002000	612-XX-324-41-003000	612-XX-324-41-004000		
28	1.4	0.3	0.4	14	612-XX-328-41-001000	612-XX-328-41-002000	612-XX-328-41-003000	612-XX-328-41-004000		
20	1.0	0.4	0.5	20	612-XX-420-41-001000	612-XX-420-41-002000	612-XX-420-41-003000	612-XX-420-41-004000		
22	1.1	0.4	0.5	18	612-XX-422-41-001000	612-XX-422-41-002000	612-XX-422-41-003000	612-XX-422-41-004000		
24	1.2	0.4	0.5	16	612-XX-424-41-001000	612-XX-424-41-002000	612-XX-424-41-003000	612-XX-424-41-004000		
28	1.4	0.4	0.5	14	612-XX-428-41-001000	612-XX-428-41-002000	612-XX-428-41-003000	612-XX-428-41-004000		
32	1.6	0.4	0.5	12	612-XX-432-41-001000	612-XX-432-41-002000	612-XX-432-41-003000	612-XX-432-41-004000		
24	1.2	0.6	0.7	16	612-XX-624-41-001000	612-XX-624-41-002000	612-XX-624-41-003000	612-XX-624-41-004000		
28	1.4	0.6	0.7	14	612-XX-628-41-001000	612-XX-628-41-002000	612-XX-628-41-003000	612-XX-628-41-004000		
32	1.6	0.6	0.7	12	612-XX-632-41-001000	612-XX-632-41-002000	612-XX-632-41-003000	612-XX-632-41-004000		
36	1.8	0.6	0.7	11	612-XX-636-41-001000	612-XX-636-41-002000	612-XX-636-41-003000	612-XX-636-41-004000		
40	2.0	0.6	0.7	10	612-XX-640-41-001000	612-XX-640-41-002000	612-XX-640-41-003000	612-XX-640-41-004000		
42	2.1	0.6	0.7	9	612-XX-642-41-001000	612-XX-642-41-002000	612-XX-642-41-003000	612-XX-642-41-004000		
48	2.4	0.6	0.7	8	612-XX-648-41-001000	612-XX-648-41-002000	612-XX-648-41-003000	612-XX-648-41-004000		
50	2.5	0.6	0.7	8	612-XX-650-41-001000	612-XX-650-41-002000	612-XX-650-41-003000	612-XX-650-41-004000		
52	2.6	0.6	0.7	7	612-XX-652-41-001000	612-XX-652-41-002000	612-XX-652-41-003000	612-XX-652-41-004000		
50	2.5	0.9	1.0	8	612-XX-950-41-001000	612-XX-950-41-002000	612-XX-950-41-003000	612-XX-950-41-004000		
52	2.6	0.9	1.0	7	612-XX-952-41-001000	612-XX-952-41-002000	612-XX-952-41-003000	612-XX-952-41-004000		
64	3.2	0.9	1.0	6	612-XX-964-41-001000	612-XX-964-41-002000	612-XX-964-41-003000	612-XX-964-41-004000		
SPECIFY PLATING CODE XX =					13 ◆	91	93	41 ◆	43 ◆	 XX=Plating Code See to Left
Sleeve (Pin)					10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	
Contact (Clip)					30 μ" Au	10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	

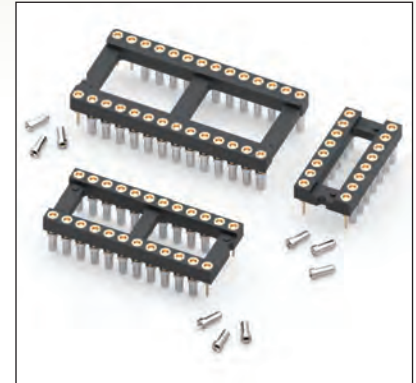


DUAL-IN-LINE SOCKETS

SERIES 614...001 • CARRIER TYPE, LOW PROFILE • OPEN FRAME



- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 614 uses MM #1401 pins. See page 170 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

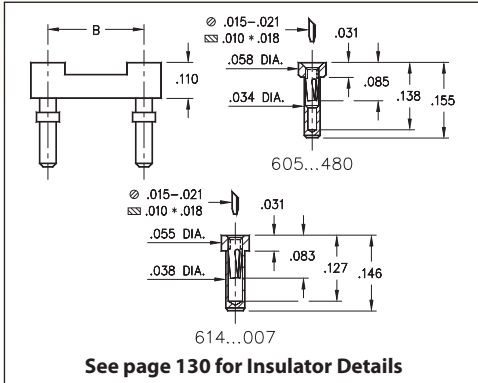


Total number of pins				Quantity per tube	<h2 style="text-align: center;">ORDERING INFORMATION</h2>						
	A	B	C								
10	0.5	0.2	0.3	40	614-XX-210-41-001000						
4	0.2	0.3	0.4	102	614-XX-304-41-001000						
6	0.3	0.3	0.4	67	614-XX-306-41-001000						
8	0.4	0.3	0.4	50	614-XX-308-41-001000						
10	0.5	0.3	0.4	40	614-XX-310-41-001000						
14	0.7	0.3	0.4	28	614-XX-314-41-001000						
16	0.8	0.3	0.4	25	614-XX-316-41-001000						
18	0.9	0.3	0.4	22	614-XX-318-41-001000						
20	1.0	0.3	0.4	20	614-XX-320-41-001000						
22	1.1	0.3	0.4	18	614-XX-322-41-001000						
24	1.2	0.3	0.4	16	614-XX-324-41-001000						
28	1.4	0.3	0.4	14	614-XX-328-41-001000						
20	1.0	0.4	0.5	20	614-XX-420-41-001000						
22	1.1	0.4	0.5	18	614-XX-422-41-001000						
24	1.2	0.4	0.5	16	614-XX-424-41-001000						
28	1.4	0.4	0.5	14	614-XX-428-41-001000						
32	1.6	0.4	0.5	12	614-XX-432-41-001000						
24	1.2	0.6	0.7	16	614-XX-624-41-001000						
28	1.4	0.6	0.7	14	614-XX-628-41-001000						
32	1.6	0.6	0.7	12	614-XX-632-41-001000						
36	1.8	0.6	0.7	11	614-XX-636-41-001000						
40	2.0	0.6	0.7	10	614-XX-640-41-001000						
42	2.1	0.6	0.7	9	614-XX-642-41-001000						
48	2.4	0.6	0.7	8	614-XX-648-41-001000						
50	2.5	0.6	0.7	8	614-XX-650-41-001000						
52	2.6	0.6	0.7	7	614-XX-652-41-001000						
50	2.5	0.9	1.0	8	614-XX-950-41-001000						
52	2.6	0.9	1.0	7	614-XX-952-41-001000						
64	3.2	0.9	1.0	6	614-XX-964-41-001000						
XX=Plating Code See Below											
SPECIFY PLATING CODE XX =					91	93		41	43		
Sleeve (Pin)					200 μ" Sn/Pb	200 μ" Sn/Pb		200 μ" Sn	200 μ" Sn		
Contact (Clip)					10 μ" Au	30 μ" Au		10 μ" Au	30 μ" Au		



DUAL-IN-LINE SOCKETS

SERIES 605, 614 • CARRIER TYPE, LOW PROFILE • OPEN FRAME



- Low profile receptacles sit only .031" high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 605 and 614 use MM #1407 & #0548 pins. See page 157 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		Length = .146 (.039 Min. Mounting Hole)		Length = .155 (.035 Min. Mounting Hole)			
10	0.5	0.2	0.3	40	614-XX-210-31-007000		605-XX-210-11-480000			
4	0.2	0.3	0.4	102	614-XX-304-31-007000		605-XX-304-11-480000			
6	0.3	0.3	0.4	68	614-XX-306-31-007000		605-XX-306-11-480000			
8	0.4	0.3	0.4	50	614-XX-308-31-007000		605-XX-308-11-480000			
10	0.5	0.3	0.4	40	614-XX-310-31-007000		605-XX-310-11-480000			
14	0.7	0.3	0.4	28	614-XX-314-31-007000		605-XX-314-11-480000			
16	0.8	0.3	0.4	25	614-XX-316-31-007000		605-XX-316-11-480000			
18	0.9	0.3	0.4	22	614-XX-318-31-007000		605-XX-318-11-480000			
20	1.0	0.3	0.4	20	614-XX-320-31-007000		605-XX-320-11-480000			
22	1.1	0.3	0.4	18	614-XX-322-31-007000		605-XX-322-11-480000			
24	1.2	0.3	0.4	16	614-XX-324-31-007000		605-XX-324-11-480000			
28	1.4	0.3	0.4	14	614-XX-328-31-007000		605-XX-328-11-480000			
20	1.0	0.4	0.5	20	614-XX-420-31-007000		605-XX-420-11-480000			
22	1.1	0.4	0.5	18	614-XX-422-31-007000		605-XX-422-11-480000			
24	1.2	0.4	0.5	16	614-XX-424-31-007000		605-XX-424-11-480000			
28	1.4	0.4	0.5	14	614-XX-428-31-007000		605-XX-428-11-480000			
32	1.6	0.4	0.5	12	614-XX-432-31-007000		605-XX-432-11-480000			
24	1.2	0.6	0.7	16	614-XX-624-31-007000		605-XX-624-11-480000			
28	1.4	0.6	0.7	14	614-XX-628-31-007000		605-XX-628-11-480000			
32	1.6	0.6	0.7	12	614-XX-632-31-007000		605-XX-632-11-480000			
36	1.8	0.6	0.7	11	614-XX-636-31-007000		605-XX-636-11-480000			
40	2.0	0.6	0.7	10	614-XX-640-31-007000		605-XX-640-11-480000			
42	2.1	0.6	0.7	9	614-XX-642-31-007000		605-XX-642-11-480000			
48	2.4	0.6	0.7	8	614-XX-648-31-007000		605-XX-648-11-480000			
50	2.5	0.6	0.7	8	614-XX-650-31-007000		605-XX-650-11-480000			
52	2.6	0.6	0.7	7	614-XX-652-31-007000		605-XX-652-11-480000			
50	2.5	0.9	1.0	8	614-XX-950-31-007000		605-XX-950-11-480000			
52	2.6	0.9	1.0	7	614-XX-952-31-007000		605-XX-952-11-480000			
64	3.2	0.9	1.0	6	614-XX-964-31-007000		605-XX-964-11-480000			
SPECIFY PLATING CODE XX =						91	93	41	43	
Sleeve (Pin)						200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	
Contact (Clip)						10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	

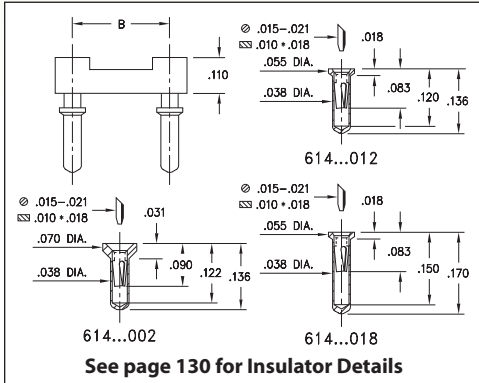


XX=Plating Code
See Below

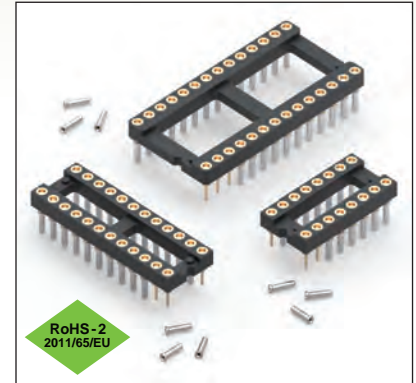


DUAL-IN-LINE SOCKETS

SERIES 614 • CARRIER TYPE, ULTRA LOW PROFILE • OPEN FRAME



- Ultra low profile receptacles sit only .018" to .031" high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 614 uses MM #0552-1, #0442-0, #0552-2 pins. See pages 157 and 158 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

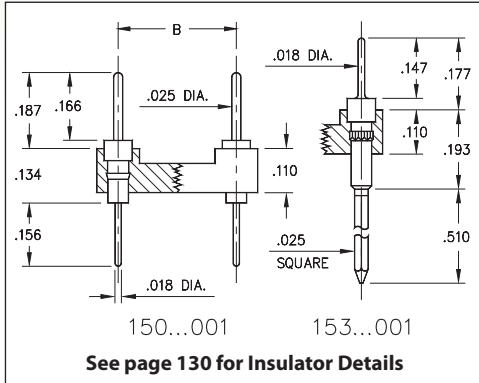


Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		Length = .136 (.039 Min. Mounting Hole)	Length = .136 (.039 Min. Mounting Hole)	Length = .170 (.039 Min. Mounting Hole)		
	10	0.5	0.2		0.3	40	614-XX-210-31-012000	614-XX-210-31-002000	614-XX-210-31-018000
4	0.2	0.3	0.4	102	614-XX-304-31-012000	614-XX-304-31-002000	614-XX-304-31-018000		
6	0.3	0.3	0.4	67	614-XX-306-31-012000	614-XX-306-31-002000	614-XX-306-31-018000		
8	0.4	0.3	0.4	50	614-XX-308-31-012000	614-XX-308-31-002000	614-XX-308-31-018000		
10	0.5	0.3	0.4	40	614-XX-310-31-012000	614-XX-310-31-002000	614-XX-310-31-018000		
14	0.7	0.3	0.4	28	614-XX-314-31-012000	614-XX-314-31-002000	614-XX-314-31-018000		
16	0.8	0.3	0.4	25	614-XX-316-31-012000	614-XX-316-31-002000	614-XX-316-31-018000		
18	0.9	0.3	0.4	22	614-XX-318-31-012000	614-XX-318-31-002000	614-XX-318-31-018000		
20	1.0	0.3	0.4	20	614-XX-320-31-012000	614-XX-320-31-002000	614-XX-320-31-018000		
22	1.1	0.3	0.4	18	614-XX-322-31-012000	614-XX-322-31-002000	614-XX-322-31-018000		
24	1.2	0.3	0.4	16	614-XX-324-31-012000	614-XX-324-31-002000	614-XX-324-31-018000		
28	1.4	0.3	0.4	14	614-XX-328-31-012000	614-XX-328-31-002000	614-XX-328-31-018000		
20	1.0	0.4	0.5	20	614-XX-420-31-012000	614-XX-420-31-002000	614-XX-420-31-018000		
22	1.1	0.4	0.5	18	614-XX-422-31-012000	614-XX-422-31-002000	614-XX-422-31-018000		
24	1.2	0.4	0.5	16	614-XX-424-31-012000	614-XX-424-31-002000	614-XX-424-31-018000		
28	1.4	0.4	0.5	14	614-XX-428-31-012000	614-XX-428-31-002000	614-XX-428-31-018000		
32	1.6	0.4	0.5	12	614-XX-432-31-012000	614-XX-432-31-002000	614-XX-432-31-018000		
24	1.2	0.6	0.7	16	614-XX-624-31-012000	614-XX-624-31-002000	614-XX-624-31-018000		
28	1.4	0.6	0.7	14	614-XX-628-31-012000	614-XX-628-31-002000	614-XX-628-31-018000		
32	1.6	0.6	0.7	12	614-XX-632-31-012000	614-XX-632-31-002000	614-XX-632-31-018000		
36	1.8	0.6	0.7	11	614-XX-636-31-012000	614-XX-636-31-002000	614-XX-636-31-018000		
40	2.0	0.6	0.7	10	614-XX-640-31-012000	614-XX-640-31-002000	614-XX-640-31-018000		
42	2.1	0.6	0.7	9	614-XX-642-31-012000	614-XX-642-31-002000	614-XX-642-31-018000		
48	2.4	0.6	0.7	8	614-XX-648-31-012000	614-XX-648-31-002000	614-XX-648-31-018000		
50	2.5	0.6	0.7	8	614-XX-650-31-012000	614-XX-650-31-002000	614-XX-650-31-018000		
52	2.6	0.6	0.7	7	614-XX-652-31-012000	614-XX-652-31-002000	614-XX-652-31-018000		
50	2.5	0.9	1.0	8	614-XX-950-31-012000	614-XX-950-31-002000	614-XX-950-31-018000		
52	2.6	0.9	1.0	7	614-XX-952-31-012000	614-XX-952-31-002000	614-XX-952-31-018000		
64	3.2	0.9	1.0	6	614-XX-964-31-012000	614-XX-964-31-002000	614-XX-964-31-018000		
SPECIFY PLATING CODE XX =					91	93	41 ◆	43 ◆	 XX=Plating Code See to Left
Sleeve (Pin)					200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn	200 μ" Sn	
Contact (Clip)					10 μ" Au	30 μ" Au	10 μ" Au	30 μ" Au	

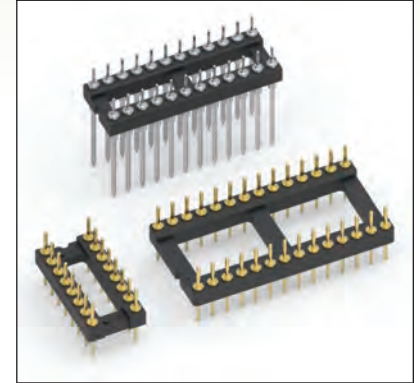


DUAL-IN-LINE HEADERS

SERIES 150, 153 • SOLDER TAIL AND WRAPOST • OPEN FRAME



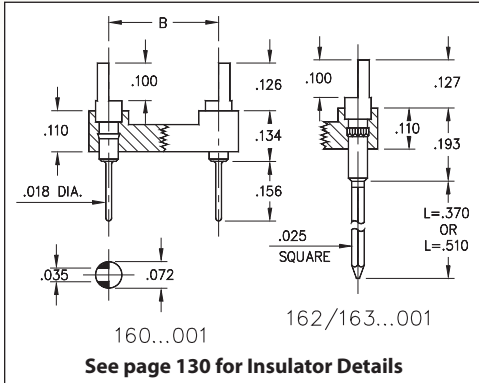
- Series 150 DIL Headers are equipped with .025" dia. pins MM #0290. See page 215 for details
- Series 153 DIL Headers have 3-level wraposts MM #5301. See page 227 for details
- Both series have .018" dia. solder tails which are pluggable into standard contacts
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION		<div style="border: 1px solid black; padding: 5px; text-align: center;"> RoHS-2 2011/65/EU </div> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center; margin-top: 10px;"> XX=Plating Code See Below </div>			
	A	B	C		Solder Tail	3 Level Wrapost				
10	0.5	0.2	0.3	40	150-XX-210-00-001000	153-XX-210-00-001000				
4	0.2	0.3	0.4	102	150-XX-304-00-001000	153-XX-304-00-001000				
6	0.3	0.3	0.4	67	150-XX-306-00-001000	153-XX-306-00-001000				
8	0.4	0.3	0.4	50	150-XX-308-00-001000	153-XX-308-00-001000				
10	0.5	0.3	0.4	40	150-XX-310-00-001000	153-XX-310-00-001000				
14	0.7	0.3	0.4	29	150-XX-314-00-001000	153-XX-314-00-001000				
16	0.8	0.3	0.4	25	150-XX-316-00-001000	153-XX-316-00-001000				
18	0.9	0.3	0.4	22	150-XX-318-00-001000	153-XX-318-00-001000				
20	1.0	0.3	0.4	20	150-XX-320-00-001000	153-XX-320-00-001000				
22	1.1	0.3	0.4	18	150-XX-322-00-001000	153-XX-322-00-001000				
24	1.2	0.3	0.4	16	150-XX-324-00-001000	153-XX-324-00-001000				
28	1.4	0.3	0.4	14	150-XX-328-00-001000	153-XX-328-00-001000				
20	1.0	0.4	0.5	20	150-XX-420-00-001000	153-XX-420-00-001000				
22	1.1	0.4	0.5	18	150-XX-422-00-001000	153-XX-422-00-001000				
24	1.2	0.4	0.5	16	150-XX-424-00-001000	153-XX-424-00-001000				
28	1.4	0.4	0.5	14	150-XX-428-00-001000	153-XX-428-00-001000				
32	1.6	0.4	0.5	12	150-XX-432-00-001000	153-XX-432-00-001000				
24	1.2	0.6	0.7	16	150-XX-624-00-001000	153-XX-624-00-001000				
28	1.4	0.6	0.7	14	150-XX-628-00-001000	153-XX-628-00-001000				
32	1.6	0.6	0.7	12	150-XX-632-00-001000	153-XX-632-00-001000				
36	1.8	0.6	0.7	11	150-XX-636-00-001000	153-XX-636-00-001000				
40	2.0	0.6	0.7	10	150-XX-640-00-001000	153-XX-640-00-001000				
42	2.1	0.6	0.7	9	150-XX-642-00-001000	153-XX-642-00-001000				
48	2.4	0.6	0.7	8	150-XX-648-00-001000	153-XX-648-00-001000				
50	2.5	0.6	0.7	8	150-XX-650-00-001000	153-XX-650-00-001000				
52	2.6	0.6	0.7	7	150-XX-652-00-001000	153-XX-652-00-001000				
50	2.5	0.9	1.0	8	150-XX-950-00-001000	153-XX-950-00-001000				
52	2.6	0.9	1.0	7	150-XX-952-00-001000	153-XX-952-00-001000				
64	3.2	0.9	1.0	6	150-XX-964-00-001000	153-XX-964-00-001000				
					SPECIFY PLATING CODE XX =		10 ◆	90	40 ◆	
					Pin Plating	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn		

DUAL-IN-LINE HEADERS

SERIES 160, 162, 163 • SLOTTED, SOLDER TAIL & WRAPOST • OPEN FRAME



- Series 160, 162, and 163 DIL Headers are equipped with slotted heads to accept wires or component leads
- Series 160 terminations are pluggable .018" dia. solder tails MM #0282, See page 216 for details. Series 162 and 163 terminations are two or three level wraposts MM #1106. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

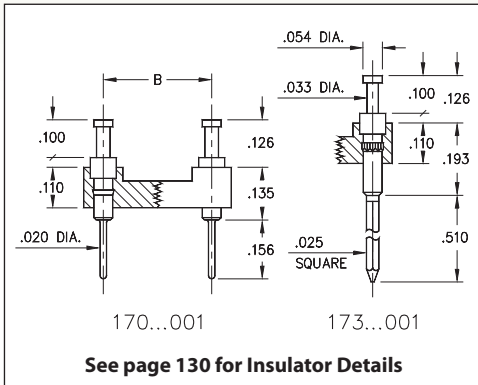


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		Solder Tail	L = .370 (2 Level Wrapost)	L = .510 (3 Level Wrapost)			
10	0.5	0.2	0.3	41	160-XX-210-00-001000	162-XX-210-00-001000	163-XX-210-00-001000			
4	0.2	0.3	0.4	102	160-XX-304-00-001000	162-XX-304-00-001000	163-XX-304-00-001000			
6	0.3	0.3	0.4	67	160-XX-306-00-001000	162-XX-306-00-001000	163-XX-306-00-001000			
8	0.4	0.3	0.4	50	160-XX-308-00-001000	162-XX-308-00-001000	163-XX-308-00-001000			
10	0.5	0.3	0.4	40	160-XX-310-00-001000	162-XX-310-00-001000	163-XX-310-00-001000			
14	0.7	0.3	0.4	28	160-XX-314-00-001000	162-XX-314-00-001000	163-XX-314-00-001000			
16	0.8	0.3	0.4	25	160-XX-316-00-001000	162-XX-316-00-001000	163-XX-316-00-001000			
18	0.9	0.3	0.4	22	160-XX-318-00-001000	162-XX-318-00-001000	163-XX-318-00-001000			
20	1.0	0.3	0.4	20	160-XX-320-00-001000	162-XX-320-00-001000	163-XX-320-00-001000			
22	1.1	0.3	0.4	18	160-XX-322-00-001000	162-XX-322-00-001000	163-XX-322-00-001000			
24	1.2	0.3	0.4	16	160-XX-324-00-001000	162-XX-324-00-001000	163-XX-324-00-001000			
28	1.4	0.3	0.4	14	160-XX-328-00-001000	162-XX-328-00-001000	163-XX-328-00-001000			
20	1.0	0.4	0.5	20	160-XX-420-00-001000	162-XX-420-00-001000	163-XX-420-00-001000			
22	1.1	0.4	0.5	18	160-XX-422-00-001000	162-XX-422-00-001000	163-XX-422-00-001000			
24	1.2	0.4	0.5	16	160-XX-424-00-001000	162-XX-424-00-001000	163-XX-424-00-001000			
28	1.4	0.4	0.5	14	160-XX-428-00-001000	162-XX-428-00-001000	163-XX-428-00-001000			
32	1.6	0.4	0.5	12	160-XX-432-00-001000	162-XX-432-00-001000	163-XX-432-00-001000			
24	1.2	0.6	0.7	16	160-XX-624-00-001000	162-XX-624-00-001000	163-XX-624-00-001000			
28	1.4	0.6	0.7	14	160-XX-628-00-001000	162-XX-628-00-001000	163-XX-628-00-001000			
32	1.6	0.6	0.7	12	160-XX-632-00-001000	162-XX-632-00-001000	163-XX-632-00-001000			
36	1.8	0.6	0.7	11	160-XX-636-00-001000	162-XX-636-00-001000	163-XX-636-00-001000			
40	2.0	0.6	0.7	10	160-XX-640-00-001000	162-XX-640-00-001000	163-XX-640-00-001000			
42	2.1	0.6	0.7	9	160-XX-642-00-001000	162-XX-642-00-001000	163-XX-642-00-001000			
48	2.4	0.6	0.7	8	160-XX-648-00-001000	162-XX-648-00-001000	163-XX-648-00-001000			
50	2.5	0.6	0.7	8	160-XX-650-00-001000	162-XX-650-00-001000	163-XX-650-00-001000			
52	2.6	0.6	0.7	7	160-XX-652-00-001000	162-XX-652-00-001000	163-XX-652-00-001000			
50	2.5	0.9	1.0	8	160-XX-950-00-001000	162-XX-950-00-001000	163-XX-950-00-001000			
52	2.6	0.9	1.0	7	160-XX-952-00-001000	162-XX-952-00-001000	163-XX-952-00-001000			
64	3.2	0.9	1.0	6	160-XX-964-00-001000	162-XX-964-00-001000	163-XX-964-00-001000			
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> XX=Plating Code See to Right </div>					SPECIFY PLATING CODE XX =		10 ◆	90	40 ◆	
					Pin Plating	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn		

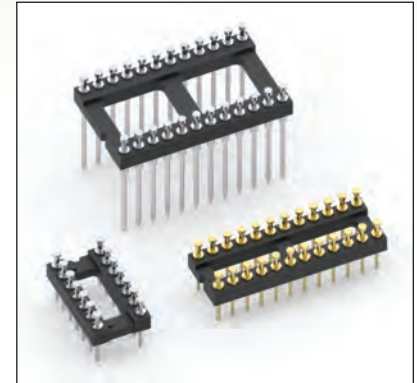


DUAL-IN-LINE HEADERS

SERIES 170, 173 • TURRET, SOLDER TAIL & WRAPOST • OPEN FRAME



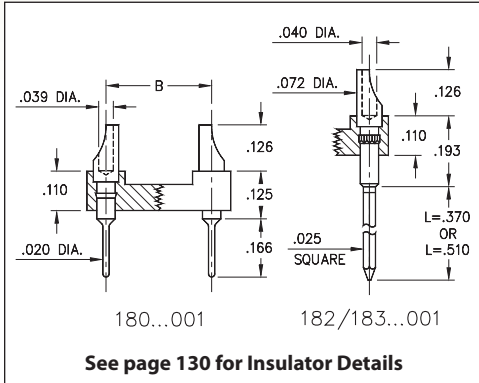
- Series 170 & 173 DIL headers are equipped with turret heads for wiring applications
- Series 170 terminations are pluggable .020" dia. solder tails MM #0700, See page 216 for details. Series 173 terminations are three level wraposts MM #0730. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



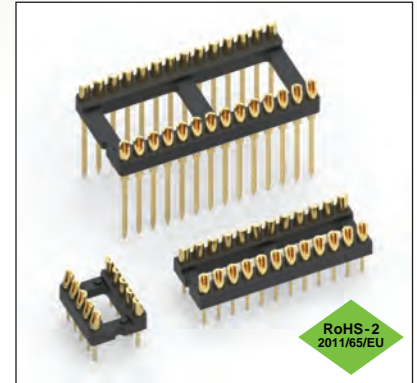
Total number of pins				Quantity per tube	ORDERING INFORMATION						
	A	B	C		Solder Tail	3 Level Wrapost					
10	0.5	0.2	0.3	41	170-XX-210-00-001000	173-XX-210-00-001000					
4	0.2	0.3	0.4	102	170-XX-304-00-001000	173-XX-304-00-001000					
6	0.3	0.3	0.4	67	170-XX-306-00-001000	173-XX-306-00-001000					
8	0.4	0.3	0.4	50	170-XX-308-00-001000	173-XX-308-00-001000					
10	0.5	0.3	0.4	40	170-XX-310-00-001000	173-XX-310-00-001000					
14	0.7	0.3	0.4	28	170-XX-314-00-001000	173-XX-314-00-001000					
16	0.8	0.3	0.4	25	170-XX-316-00-001000	173-XX-316-00-001000					
18	0.9	0.3	0.4	22	170-XX-318-00-001000	173-XX-318-00-001000					
20	1.0	0.3	0.4	20	170-XX-320-00-001000	173-XX-320-00-001000					
22	1.1	0.3	0.4	18	170-XX-322-00-001000	173-XX-322-00-001000					
24	1.2	0.3	0.4	16	170-XX-324-00-001000	173-XX-324-00-001000					
28	1.4	0.3	0.4	14	170-XX-328-00-001000	173-XX-328-00-001000					
20	1.0	0.4	0.5	20	170-XX-420-00-001000	173-XX-420-00-001000					
22	1.1	0.4	0.5	18	170-XX-422-00-001000	173-XX-422-00-001000					
24	1.2	0.4	0.5	16	170-XX-424-00-001000	173-XX-424-00-001000					
28	1.4	0.4	0.5	14	170-XX-428-00-001000	173-XX-428-00-001000					
32	1.6	0.4	0.5	12	170-XX-432-00-001000	173-XX-432-00-001000					
24	1.2	0.6	0.7	16	170-XX-624-00-001000	173-XX-624-00-001000					
28	1.4	0.6	0.7	14	170-XX-628-00-001000	173-XX-628-00-001000					
32	1.6	0.6	0.7	12	170-XX-632-00-001000	173-XX-632-00-001000					
36	1.8	0.6	0.7	11	170-XX-636-00-001000	173-XX-636-00-001000					
40	2.0	0.6	0.7	10	170-XX-640-00-001000	173-XX-640-00-001000					
42	2.1	0.6	0.7	9	170-XX-642-00-001000	173-XX-642-00-001000					
48	2.4	0.6	0.7	8	170-XX-648-00-001000	173-XX-648-00-001000					
50	2.5	0.6	0.7	8	170-XX-650-00-001000	173-XX-650-00-001000					
52	2.6	0.6	0.7	7	170-XX-652-00-001000	173-XX-652-00-001000					
50	2.5	0.9	1.0	8	170-XX-950-00-001000	173-XX-950-00-001000					
52	2.6	0.9	1.0	7	170-XX-952-00-001000	173-XX-952-00-001000					
64	3.2	0.9	1.0	6	170-XX-964-00-001000	173-XX-964-00-001000					
					SPECIFY PLATING CODE XX =			10 ◆	90	40 ◆	
					Pin Plating	10 μ" Au		200 μ" Sn/Pb	200 μ" Sn		

DUAL-IN-LINE HEADERS

SERIES 180, 182, 183 • SOLDER CUP, SOLDER TAIL & WRAPOST • OPEN FRAME



- Series 180, 182, and 183 DIL Headers are equipped with solder cups for wiring applications
- Series 180 terminations are pluggable .020" dia. solder tails MM #8000, See page 216 for details. Series 182 and 183 terminations are two or three level wraposts MM #8301. See page 227 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

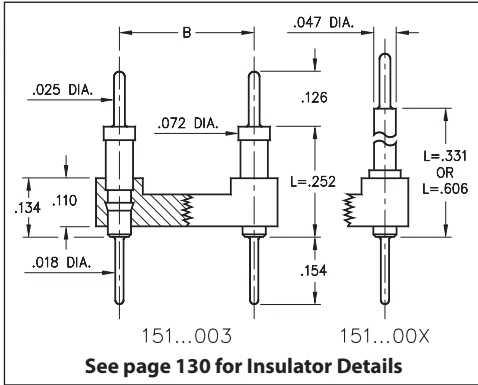


Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		Solder Tail	L = .370 (2 Level Wrapost)	L = .510 (3 Level Wrapost)		
10	0.5	0.2	0.3	41	180-10-210-00-001000	182-10-210-00-001000	183-10-210-00-001000		
4	0.2	0.3	0.4	102	180-10-304-00-001000	182-10-304-00-001000	183-10-304-00-001000		
6	0.3	0.3	0.4	67	180-10-306-00-001000	182-10-306-00-001000	183-10-306-00-001000		
8	0.4	0.3	0.4	50	180-10-308-00-001000	182-10-308-00-001000	183-10-308-00-001000		
10	0.5	0.3	0.4	40	180-10-310-00-001000	182-10-310-00-001000	183-10-310-00-001000		
14	0.7	0.3	0.4	28	180-10-314-00-001000	182-10-314-00-001000	183-10-314-00-001000		
16	0.8	0.3	0.4	25	180-10-316-00-001000	182-10-316-00-001000	183-10-316-00-001000		
18	0.9	0.3	0.4	22	180-10-318-00-001000	182-10-318-00-001000	183-10-318-00-001000		
20	1.0	0.3	0.4	20	180-10-320-00-001000	182-10-320-00-001000	183-10-320-00-001000		
22	1.1	0.3	0.4	18	180-10-322-00-001000	182-10-322-00-001000	183-10-322-00-001000		
24	1.2	0.3	0.4	16	180-10-324-00-001000	182-10-324-00-001000	183-10-324-00-001000		
28	1.4	0.3	0.4	14	180-10-328-00-001000	182-10-328-00-001000	183-10-328-00-001000		
20	1.0	0.4	0.5	20	180-10-420-00-001000	182-10-420-00-001000	183-10-420-00-001000		
22	1.1	0.4	0.5	18	180-10-422-00-001000	182-10-422-00-001000	183-10-422-00-001000		
24	1.2	0.4	0.5	16	180-10-424-00-001000	182-10-424-00-001000	183-10-424-00-001000		
28	1.4	0.4	0.5	14	180-10-428-00-001000	182-10-428-00-001000	183-10-428-00-001000		
32	1.6	0.4	0.5	12	180-10-432-00-001000	182-10-432-00-001000	183-10-432-00-001000		
24	1.2	0.6	0.7	16	180-10-624-00-001000	182-10-624-00-001000	183-10-624-00-001000		
28	1.4	0.6	0.7	14	180-10-628-00-001000	182-10-628-00-001000	183-10-628-00-001000		
32	1.6	0.6	0.7	12	180-10-632-00-001000	182-10-632-00-001000	183-10-632-00-001000		
36	1.8	0.6	0.7	11	180-10-636-00-001000	182-10-636-00-001000	183-10-636-00-001000		
40	2.0	0.6	0.7	10	180-10-640-00-001000	182-10-640-00-001000	183-10-640-00-001000		
42	2.1	0.6	0.7	9	180-10-642-00-001000	182-10-642-00-001000	183-10-642-00-001000		
48	2.4	0.6	0.7	8	180-10-648-00-001000	182-10-648-00-001000	183-10-648-00-001000		
50	2.5	0.6	0.7	8	180-10-650-00-001000	182-10-650-00-001000	183-10-650-00-001000		
52	2.6	0.6	0.7	7	180-10-652-00-001000	182-10-652-00-001000	183-10-652-00-001000		
50	2.5	0.9	1.0	8	180-10-950-00-001000	182-10-950-00-001000	183-10-950-00-001000		
52	2.6	0.9	1.0	7	180-10-952-00-001000	182-10-952-00-001000	183-10-952-00-001000		
64	3.2	0.9	1.0	6	180-10-964-00-001000	182-10-964-00-001000	183-10-964-00-001000		
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		10		
					Pin Plating		10 μ" Au		

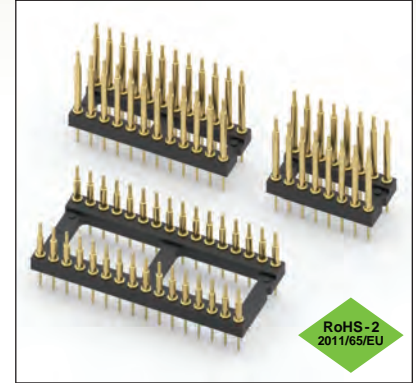


DUAL-IN-LINE HEADERS

SERIES 151...003, 004, 005 • INTERCONNECT • OPEN FRAME



- Series 151 DIL Headers combine .025" dia. tails with pluggable .018" dia. solder tails
- Series:
 - 151...003 uses MM #5503 pins
 - 151...004 uses MM #5504 pins
 - 151...005 uses MM #5505 pins
 See page 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

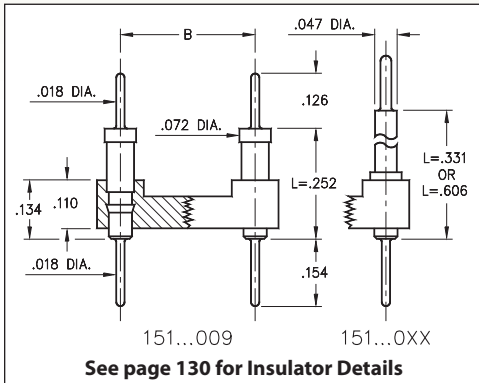


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = .252	L = .331	L = .606			
10	0.5	0.2	0.3	41	151-10-210-00-003000	151-10-210-00-004000	151-10-210-00-005000			
4	0.2	0.3	0.4	102	151-10-304-00-003000	151-10-304-00-004000	151-10-304-00-005000			
6	0.3	0.3	0.4	67	151-10-306-00-003000	151-10-306-00-004000	151-10-306-00-005000			
8	0.4	0.3	0.4	50	151-10-308-00-003000	151-10-308-00-004000	151-10-308-00-005000			
10	0.5	0.3	0.4	40	151-10-310-00-003000	151-10-310-00-004000	151-10-310-00-005000			
14	0.7	0.3	0.4	28	151-10-314-00-003000	151-10-314-00-004000	151-10-314-00-005000			
16	0.8	0.3	0.4	25	151-10-316-00-003000	151-10-316-00-004000	151-10-316-00-005000			
18	0.9	0.3	0.4	22	151-10-318-00-003000	151-10-318-00-004000	151-10-318-00-005000			
20	1.0	0.3	0.4	20	151-10-320-00-003000	151-10-320-00-004000	151-10-320-00-005000			
22	1.1	0.3	0.4	18	151-10-322-00-003000	151-10-322-00-004000	151-10-322-00-005000			
24	1.2	0.3	0.4	16	151-10-324-00-003000	151-10-324-00-004000	151-10-324-00-005000			
28	1.4	0.3	0.4	14	151-10-328-00-003000	151-10-328-00-004000	151-10-328-00-005000			
20	1.0	0.4	0.5	20	151-10-420-00-003000	151-10-420-00-004000	151-10-420-00-005000			
22	1.1	0.4	0.5	18	151-10-422-00-003000	151-10-422-00-004000	151-10-422-00-005000			
24	1.2	0.4	0.5	16	151-10-424-00-003000	151-10-424-00-004000	151-10-424-00-005000			
28	1.4	0.4	0.5	14	151-10-428-00-003000	151-10-428-00-004000	151-10-428-00-005000			
32	1.6	0.4	0.5	12	151-10-432-00-003000	151-10-432-00-004000	151-10-432-00-005000			
24	1.2	0.6	0.7	16	151-10-624-00-003000	151-10-624-00-004000	151-10-624-00-005000			
28	1.4	0.6	0.7	14	151-10-628-00-003000	151-10-628-00-004000	151-10-628-00-005000			
32	1.6	0.6	0.7	12	151-10-632-00-003000	151-10-632-00-004000	151-10-632-00-005000			
36	1.8	0.6	0.7	11	151-10-636-00-003000	151-10-636-00-004000	151-10-636-00-005000			
40	2.0	0.6	0.7	10	151-10-640-00-003000	151-10-640-00-004000	151-10-640-00-005000			
42	2.1	0.6	0.7	9	151-10-642-00-003000	151-10-642-00-004000	151-10-642-00-005000			
48	2.4	0.6	0.7	8	151-10-648-00-003000	151-10-648-00-004000	151-10-648-00-005000			
50	2.5	0.6	0.7	8	151-10-650-00-003000	151-10-650-00-004000	151-10-650-00-005000			
52	2.6	0.6	0.7	7	151-10-652-00-003000	151-10-652-00-004000	151-10-652-00-005000			
50	2.5	0.9	1.0	8	151-10-950-00-003000	151-10-950-00-004000	151-10-950-00-005000			
52	2.6	0.9	1.0	7	151-10-952-00-003000	151-10-952-00-004000	151-10-952-00-005000			
64	3.2	0.9	1.0	6	151-10-964-00-003000	151-10-964-00-004000	151-10-964-00-005000			
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> XX=Plating Code See to Right </div>					SPECIFY PLATING CODE XX =			10		
					Pin Plating			10 μ" Au		

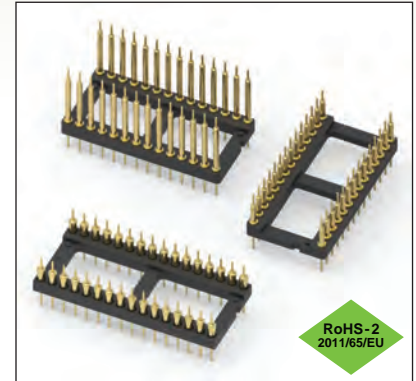


DUAL-IN-LINE HEADERS

SERIES 151...009, 010, 011 • INTERCONNECT • OPEN FRAME



- Series 151 DIL Headers feature .018" dia. solder tails at both ends making these headers entirely pluggable
- Series:
 - 151...009 uses MM #5509 pins
 - 151...010 uses MM #5510 pins
 - 151...011 uses MM #5511 pins
 See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

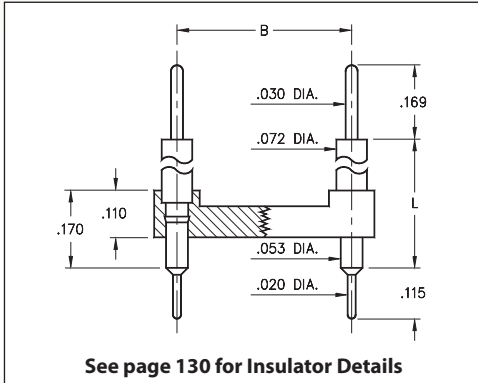


Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		L = .252	L = .331	L = .606		
10	0.5	0.2	0.3	41	151-10-210-00-009000	151-10-210-00-010000	151-10-210-00-011000		
4	0.2	0.3	0.4	102	151-10-304-00-009000	151-10-304-00-010000	151-10-304-00-011000		
6	0.3	0.3	0.4	67	151-10-306-00-009000	151-10-306-00-010000	151-10-306-00-011000		
8	0.4	0.3	0.4	50	151-10-308-00-009000	151-10-308-00-010000	151-10-308-00-011000		
10	0.5	0.3	0.4	40	151-10-310-00-009000	151-10-310-00-010000	151-10-310-00-011000		
14	0.7	0.3	0.4	28	151-10-314-00-009000	151-10-314-00-010000	151-10-314-00-011000		
16	0.8	0.3	0.4	25	151-10-316-00-009000	151-10-316-00-010000	151-10-316-00-011000		
18	0.9	0.3	0.4	22	151-10-318-00-009000	151-10-318-00-010000	151-10-318-00-011000		
20	1.0	0.3	0.4	20	151-10-320-00-009000	151-10-320-00-010000	151-10-320-00-011000		
22	1.1	0.3	0.4	18	151-10-322-00-009000	151-10-322-00-010000	151-10-322-00-011000		
24	1.2	0.3	0.4	16	151-10-324-00-009000	151-10-324-00-010000	151-10-324-00-011000		
28	1.4	0.3	0.4	14	151-10-328-00-009000	151-10-328-00-010000	151-10-328-00-011000		
20	1.0	0.4	0.5	20	151-10-420-00-009000	151-10-420-00-010000	151-10-420-00-011000		
22	1.1	0.4	0.5	18	151-10-422-00-009000	151-10-422-00-010000	151-10-422-00-011000		
24	1.2	0.4	0.5	16	151-10-424-00-009000	151-10-424-00-010000	151-10-424-00-011000		
28	1.4	0.4	0.5	14	151-10-428-00-009000	151-10-428-00-010000	151-10-428-00-011000		
32	1.6	0.4	0.5	12	151-10-432-00-009000	151-10-432-00-010000	151-10-432-00-011000		
24	1.2	0.6	0.7	16	151-10-624-00-009000	151-10-624-00-010000	151-10-624-00-011000		
28	1.4	0.6	0.7	14	151-10-628-00-009000	151-10-628-00-010000	151-10-628-00-011000		
32	1.6	0.6	0.7	12	151-10-632-00-009000	151-10-632-00-010000	151-10-632-00-011000		
36	1.8	0.6	0.7	11	151-10-636-00-009000	151-10-636-00-010000	151-10-636-00-011000		
40	2.0	0.6	0.7	10	151-10-640-00-009000	151-10-640-00-010000	151-10-640-00-011000		
42	2.1	0.6	0.7	9	151-10-642-00-009000	151-10-642-00-010000	151-10-642-00-011000		
48	2.4	0.6	0.7	8	151-10-648-00-009000	151-10-648-00-010000	151-10-648-00-011000		
50	2.5	0.6	0.7	8	151-10-650-00-009000	151-10-650-00-010000	151-10-650-00-011000		
52	2.6	0.6	0.7	7	151-10-652-00-009000	151-10-652-00-010000	151-10-652-00-011000		
50	2.5	0.9	1.0	8	151-10-950-00-009000	151-10-950-00-010000	151-10-950-00-011000		
52	2.6	0.9	1.0	7	151-10-952-00-009000	151-10-952-00-010000	151-10-952-00-011000		
64	3.2	0.9	1.0	6	151-10-964-00-009000	151-10-964-00-010000	151-10-964-00-011000		
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		10 ◆		
					Pin Plating		10 μ" Au		



DUAL-IN-LINE HEADERS

SERIES 134 • INTERCONNECT • OPEN FRAME



- Series 134 DIL Headers combine .030" diameter pins with pluggable .020" diameter solder tails
- Series:
 - 134...020 uses MM #3402 pins
 - 134...010 uses MM #3401 pins
 - 134...050 uses MM #3405 pins
 - 134...000 uses MM #3400 pins
 - 134...100 uses MM #3410 pins
 See page 215 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

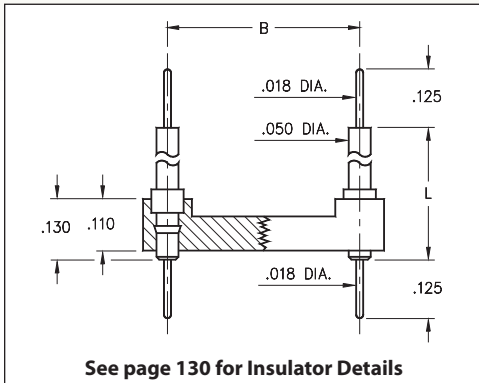


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = .190	L = .236	L = .315	L = .605	L = 1.070	
10	0.5	0.2	0.3	41	134-10-210-00-020000	134-10-210-00-010000	134-10-210-00-050000	134-10-210-00-000000	134-10-210-00-100000	
4	0.2	0.3	0.4	102	134-10-304-00-020000	134-10-304-00-010000	134-10-304-00-050000	134-10-304-00-000000	134-10-304-00-100000	
6	0.3	0.3	0.4	67	134-10-306-00-020000	134-10-306-00-010000	134-10-306-00-050000	134-10-306-00-000000	134-10-306-00-100000	
8	0.4	0.3	0.4	50	134-10-308-00-020000	134-10-308-00-010000	134-10-308-00-050000	134-10-308-00-000000	134-10-308-00-100000	
10	0.5	0.3	0.4	40	134-10-310-00-020000	134-10-310-00-010000	134-10-310-00-050000	134-10-310-00-000000	134-10-310-00-100000	
14	0.7	0.3	0.4	28	134-10-314-00-020000	134-10-314-00-010000	134-10-314-00-050000	134-10-314-00-000000	134-10-314-00-100000	
16	0.8	0.3	0.4	25	134-10-316-00-020000	134-10-316-00-010000	134-10-316-00-050000	134-10-316-00-000000	134-10-316-00-100000	
18	0.9	0.3	0.4	22	134-10-318-00-020000	134-10-318-00-010000	134-10-318-00-050000	134-10-318-00-000000	134-10-318-00-100000	
20	1.0	0.3	0.4	20	134-10-320-00-020000	134-10-320-00-010000	134-10-320-00-050000	134-10-320-00-000000	134-10-320-00-100000	
22	1.1	0.3	0.4	18	134-10-322-00-020000	134-10-322-00-010000	134-10-322-00-050000	134-10-322-00-000000	134-10-322-00-100000	
24	1.2	0.3	0.4	16	134-10-324-00-020000	134-10-324-00-010000	134-10-324-00-050000	134-10-324-00-000000	134-10-324-00-100000	
28	1.4	0.3	0.4	14	134-10-328-00-020000	134-10-328-00-010000	134-10-328-00-050000	134-10-328-00-000000	134-10-328-00-100000	
20	1.0	0.4	0.5	20	134-10-420-00-020000	134-10-420-00-010000	134-10-420-00-050000	134-10-420-00-000000	134-10-420-00-100000	
22	1.1	0.4	0.5	18	134-10-422-00-020000	134-10-422-00-010000	134-10-422-00-050000	134-10-422-00-000000	134-10-422-00-100000	
24	1.2	0.4	0.5	16	134-10-424-00-020000	134-10-424-00-010000	134-10-424-00-050000	134-10-424-00-000000	134-10-424-00-100000	
28	1.4	0.4	0.5	14	134-10-428-00-020000	134-10-428-00-010000	134-10-428-00-050000	134-10-428-00-000000	134-10-428-00-100000	
32	1.6	0.4	0.5	12	134-10-432-00-020000	134-10-432-00-010000	134-10-432-00-050000	134-10-432-00-000000	134-10-432-00-100000	
24	1.2	0.6	0.7	16	134-10-624-00-020000	134-10-624-00-010000	134-10-624-00-050000	134-10-624-00-000000	134-10-624-00-100000	
28	1.4	0.6	0.7	14	134-10-628-00-020000	134-10-628-00-010000	134-10-628-00-050000	134-10-628-00-000000	134-10-628-00-100000	
32	1.6	0.6	0.7	12	134-10-632-00-020000	134-10-632-00-010000	134-10-632-00-050000	134-10-632-00-000000	134-10-632-00-100000	
36	1.8	0.6	0.7	11	134-10-636-00-020000	134-10-636-00-010000	134-10-636-00-050000	134-10-636-00-000000	134-10-636-00-100000	
40	2.0	0.6	0.7	10	134-10-640-00-020000	134-10-640-00-010000	134-10-640-00-050000	134-10-640-00-000000	134-10-640-00-100000	
42	2.1	0.6	0.7	9	134-10-642-00-020000	134-10-642-00-010000	134-10-642-00-050000	134-10-642-00-000000	134-10-642-00-100000	
48	2.4	0.6	0.7	8	134-10-648-00-020000	134-10-648-00-010000	134-10-648-00-050000	134-10-648-00-000000	134-10-648-00-100000	
50	2.5	0.6	0.7	8	134-10-650-00-020000	134-10-650-00-010000	134-10-650-00-050000	134-10-650-00-000000	134-10-650-00-100000	
52	2.6	0.6	0.7	7	134-10-652-00-020000	134-10-652-00-010000	134-10-652-00-050000	134-10-652-00-000000	134-10-652-00-100000	
50	2.5	0.9	1.0	8	134-10-950-00-020000	134-10-950-00-010000	134-10-950-00-050000	134-10-950-00-000000	134-10-950-00-100000	
52	2.6	0.9	1.0	7	134-10-952-00-020000	134-10-952-00-010000	134-10-952-00-050000	134-10-952-00-000000	134-10-952-00-100000	
64	3.2	0.9	1.0	6	134-10-964-00-020000	134-10-964-00-010000	134-10-964-00-050000	134-10-964-00-000000	134-10-964-00-100000	
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		10			
					Pin Plating		10 μ" Au			



DUAL-IN-LINE HEADERS

SERIES 142 • INTERCONNECT • OPEN FRAME



- Series 142 DIL Headers have double-ended .018" diameter pluggable solder tails
- Used to interconnect PC Boards with spacings of .210", .335", .585" or .835". Series 142 uses MM #4259-1, -2, -3 or -4 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

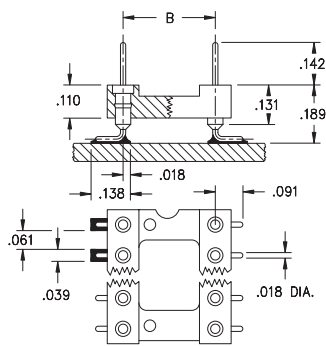


Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C		L = .210	L = .335	L = .585	L = .835
6	0.3	0.3	0.4	67	142-XX-306-00-591000	142-XX-306-00-592000	142-XX-306-00-593000	142-XX-306-00-594000
8	0.4	0.3	0.4	50	142-XX-308-00-591000	142-XX-308-00-592000	142-XX-308-00-593000	142-XX-308-00-594000
14	0.7	0.3	0.4	29	142-XX-314-00-591000	142-XX-314-00-592000	142-XX-314-00-593000	142-XX-314-00-594000
16	0.8	0.3	0.4	25	142-XX-316-00-591000	142-XX-316-00-592000	142-XX-316-00-593000	142-XX-316-00-594000
18	0.9	0.3	0.4	22	142-XX-318-00-591000	142-XX-318-00-592000	142-XX-318-00-593000	142-XX-318-00-594000
20	1.0	0.3	0.4	40	142-XX-320-00-591000	142-XX-320-00-592000	142-XX-320-00-593000	142-XX-320-00-594000
24	1.2	0.3	0.4	17	142-XX-324-00-591000	142-XX-324-00-592000	142-XX-324-00-593000	142-XX-324-00-594000
22	1.1	0.4	0.5	14	142-XX-422-00-591000	142-XX-422-00-592000	142-XX-422-00-593000	142-XX-422-00-594000
24	1.2	0.6	0.7	16	142-XX-624-00-591000	142-XX-624-00-592000	142-XX-624-00-593000	142-XX-624-00-594000
28	1.4	0.6	0.7	14	142-XX-628-00-591000	142-XX-628-00-592000	142-XX-628-00-593000	142-XX-628-00-594000
32	1.6	0.6	0.7	12	142-XX-632-00-591000	142-XX-632-00-592000	142-XX-632-00-593000	142-XX-632-00-594000
40	2.0	0.6	0.7	10	142-XX-640-00-591000	142-XX-640-00-592000	142-XX-640-00-593000	142-XX-640-00-594000
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> XX=Plating Code See to Right </div>					SPECIFY PLATING CODE XX =			
					Pin Plating	10	90	40
					10 μ" Au	200 μ" Sn/Pb	200 μ" Sn	



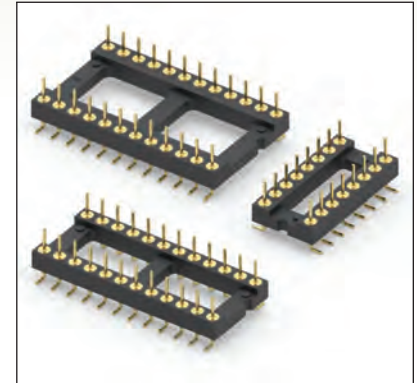
DUAL-IN-LINE HEADERS

SERIES 150 • SURFACE MOUNT, GULL WING • OPEN FRAME



See page 130 for Insulator Details

- Surface mount Gull Wing DIP headers for adapters and board stacking on .100" lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 150 uses MM #3404 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

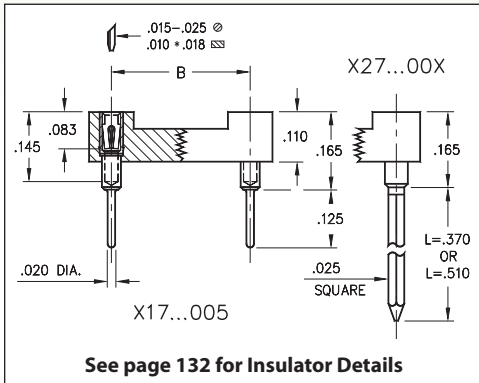


Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C					
10	0.5	0.2	0.3	40	150-10-210-00-106000			
4	0.2	0.3	0.4	102	150-10-304-00-106000			
6	0.3	0.3	0.4	67	150-10-306-00-106000			
8	0.4	0.3	0.4	50	150-10-308-00-106000			
10	0.5	0.3	0.4	40	150-10-310-00-106000			
14	0.7	0.3	0.4	29	150-10-314-00-106000			
16	0.8	0.3	0.4	25	150-10-316-00-106000			
18	0.9	0.3	0.4	22	150-10-318-00-106000			
20	1.0	0.3	0.4	20	150-10-320-00-106000			
22	1.1	0.3	0.4	18	150-10-322-00-106000			
24	1.2	0.3	0.4	16	150-10-324-00-106000			
28	1.4	0.3	0.4	14	150-10-328-00-106000			
20	1.0	0.4	0.5	20	150-10-420-00-106000			
22	1.1	0.4	0.5	18	150-10-422-00-106000			
24	1.2	0.4	0.5	16	150-10-424-00-106000			
28	1.4	0.4	0.5	14	150-10-428-00-106000			
32	1.6	0.4	0.5	12	150-10-432-00-106000			
24	1.2	0.6	0.7	16	150-10-624-00-106000			
28	1.4	0.6	0.7	14	150-10-628-00-106000			
32	1.6	0.6	0.7	12	150-10-632-00-106000			
36	1.8	0.6	0.7	11	150-10-636-00-106000			
40	2.0	0.6	0.7	10	150-10-640-00-106000			
42	2.1	0.6	0.7	9	150-10-642-00-106000			
48	2.4	0.6	0.7	8	150-10-648-00-106000			
50	2.5	0.6	0.7	8	150-10-650-00-106000			
52	2.6	0.6	0.7	7	150-10-652-00-106000			
50	2.5	0.9	1.0	8	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> XX=Plating Code See Below </div>	150-10-950-00-106000		
52	2.6	0.9	1.0	7		150-10-952-00-106000		
64	3.2	0.9	1.0	6		150-10-964-00-106000		
See page 264 for coplanarity information						SPECIFY PLATING CODE XX =		
					Pin Plating 10 μ" Au			

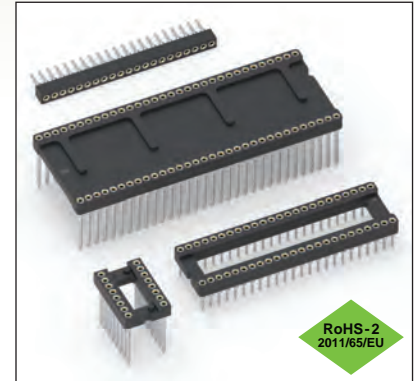


DUAL-IN-LINE SOCKETS

SERIES 117, 127, 217, 227, 317, 327 • SHRINK DIP, SOLDER TAIL & WRAPOST



- High density DIP sockets and strips for devices featuring .070" lead spacing
- Solder tails use MM #1802 receptacles, See page 169 for details. Wraposts use MM #1702-2 or 1703-3 receptacles, See page 198 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

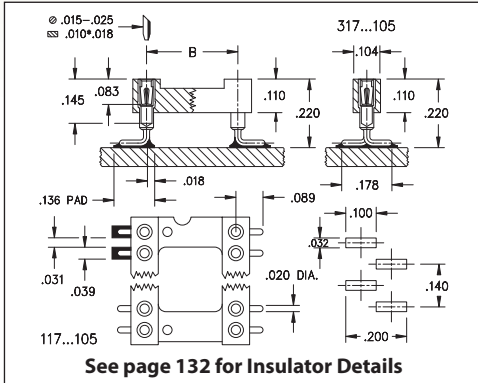


Total number of pins				Quantity per tube	ORDERING INFORMATION									
	A	B	C		Solder Tail	L = .370 (2 Level Wrapost)	L = .510 (3 Level Wrapost)							
OPEN FRAME DIP SOCKET														
16	0.572	0.3	0.39	35	117-XX-316-41-005000	127-XX-316-41-002000	127-XX-316-41-003000							
28	0.992	0.4	0.49	20	117-XX-428-41-005000	127-XX-428-41-002000	127-XX-428-41-003000							
30	1.062	0.4	0.49	18	117-XX-430-41-005000	127-XX-430-41-002000	127-XX-430-41-003000							
48	1.692	0.4	0.49	12	117-XX-448-41-005000	127-XX-448-41-002000	127-XX-448-41-003000							
20	0.712	0.6	0.69	28	117-XX-620-41-005000	127-XX-620-41-002000	127-XX-620-41-003000							
28	0.992	0.6	0.69	20	117-XX-628-41-005000	127-XX-628-41-002000	127-XX-628-41-003000							
40	1.412	0.6	0.69	14	117-XX-640-41-005000	127-XX-640-41-002000	127-XX-640-41-003000							
42	1.482	0.6	0.69	13	117-XX-642-41-005000	127-XX-642-41-002000	127-XX-642-41-003000							
48	1.692	0.6	0.69	11	117-XX-648-41-005000	127-XX-648-41-002000	127-XX-648-41-003000							
52	1.832	0.6	0.69	11	117-XX-652-41-005000	127-XX-652-41-002000	127-XX-652-41-003000							
56	1.972	0.6	0.69	10	117-XX-656-41-005000	127-XX-656-41-002000	127-XX-656-41-003000							
64	2.252	0.6	0.69	8	117-XX-664-41-005000	127-XX-664-41-002000	127-XX-664-41-003000							
68	2.392	0.6	0.69	8	117-XX-668-41-005000	127-XX-668-41-002000	127-XX-668-41-003000							
64	2.252	0.75	0.84	8	117-XX-764-41-005000	127-XX-764-41-002000	127-XX-764-41-003000							
CLOSED FRAME DIP SOCKET														
64	2.252	0.75	0.84	8	217-XX-764-41-005000	227-XX-764-41-002000	227-XX-764-41-003000							
					SINGLE ROW STRIP SOCKET									
If desired, we will supply any length up to 21 pins.														
21	1.482	---	.104	-	317-XX-121-41-005000	327-XX-121-41-002000	327-XX-121-41-003000							
XX=Plating Code See to Right					SPECIFY PLATING CODE XX=				91	93		41	43	47
					Sleeve (Pin)		200 μ" Sn/Pb	200 μ" Sn/Pb		200 μ" Sn	200 μ" Sn	200 μ" Sn		
					Contact (Clip)		10 μ" Au	30 μ" Au		10 μ" Au	30 μ" Au	Au Flash		

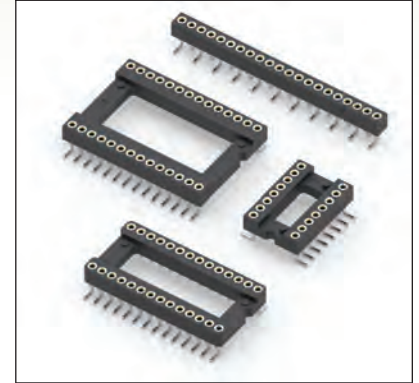


DUAL-IN-LINE SOCKETS

SERIES 117, 317 • GULL WING SHRINK DIP SOCKETS & STRIPS, SMT SOLDER TAIL



- Surface mount Gull Wing DIP & strip sockets for devices featuring .070" lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 117 and 317 use MM #1802 pins. See page 169 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	Pin Spacing Dimensions			Quantity per tube	ORDERING INFORMATION					
	A	B	C							
16	0.572	0.3	0.39	35	117-XX-316-41-105000					
28	0.992	0.4	0.49	20	117-XX-428-41-105000					
30	1.062	0.4	0.49	18	117-XX-430-41-105000					
48	1.692	0.4	0.49	12	117-XX-448-41-105000					
20	0.712	0.6	0.69	28	117-XX-620-41-105000					
28	0.992	0.6	0.69	20	117-XX-628-41-105000					
40	1.412	0.6	0.69	14	117-XX-640-41-105000					
42	1.482	0.6	0.69	13	117-XX-642-41-105000					
48	1.692	0.6	0.69	12	117-XX-648-41-105000					
52	1.832	0.6	0.69	11	117-XX-652-41-105000					
56	1.972	0.6	0.69	10	117-XX-656-41-105000					
64	2.252	0.6	0.69	9	117-XX-664-41-105000					
68	2.392	0.6	0.69	8	117-XX-668-41-105000					
64	2.252	0.75	0.84	8	117-XX-764-41-105000					
					SINGLE ROW STRIP SOCKET If desired, we will supply any length up to 21 pins.					
21	1.482	---	.104	-	317-XX-121-41-105000					
See page 264 for coplanarity information					SPECIFY PLATING CODE XX=					
					Sleeve (Pin)		91	41	43	
					Contact (Clip)		200 μ" Sn/Pb	10 μ" Au	200 μ" Sn	30 μ" Au

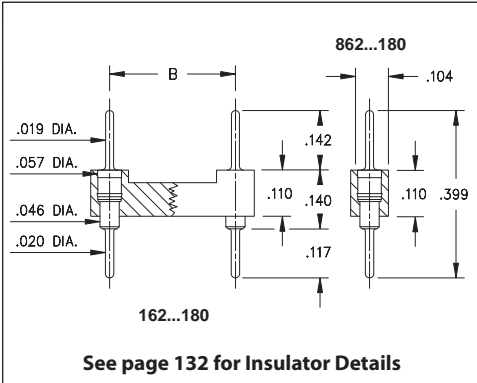
XX=Plating Code
See Below

RoHS-2
2011/65/EU

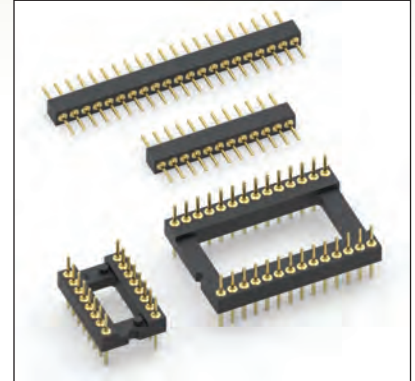


DUAL-IN-LINE HEADERS

SERIES 162, 862 • SHRINK DIP HEADER AND STRIPS, SOLDER TAIL



- High density DIP headers & strips for adapters and board stacking applications with .070" lead spacing
- Series 162 DIP headers and Series 862 strip headers use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	<h3>ORDERING INFORMATION</h3>				
	A	B	C						
16	0.572	0.3	0.39	35	162-XX-316-00-180000				
28	0.992	0.4	0.49	20	162-XX-428-00-180000				
30	1.062	0.4	0.49	18	162-XX-430-00-180000				
48	1.692	0.4	0.49	12	162-XX-448-00-180000				
20	0.712	0.6	0.69	28	162-XX-620-00-180000				
28	0.992	0.6	0.69	20	162-XX-628-00-180000				
40	1.412	0.6	0.69	14	162-XX-640-00-180000				
42	1.482	0.6	0.69	13	162-XX-642-00-180000				
48	1.692	0.6	0.69	12	162-XX-648-00-180000				
52	1.832	0.6	0.69	11	162-XX-652-00-180000				
56	1.972	0.6	0.69	10	162-XX-656-00-180000				
64	2.252	0.6	0.69	9	162-XX-664-00-180000				
68	2.392	0.6	0.69	8	162-XX-668-00-180000				
64	2.252	0.75	0.84	8	162-XX-764-00-180000				
					SINGLE ROW STRIP HEADER If desired, we will supply any length up to 21 pins.				
21	1.482	---	.104	---	862-XX-021-00-180000				
SPECIFY PLATING CODE XX =					10	90	40		
Pin Plating					10 μ" Au	200 μ" Sn/Pb	200 μ" Sn		

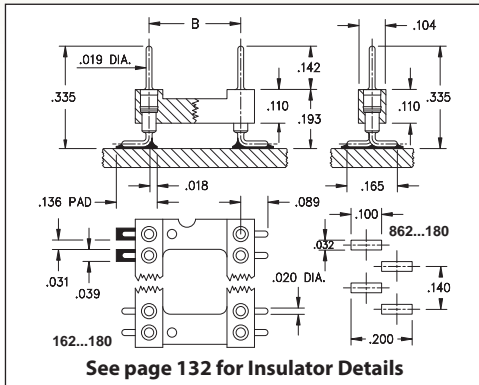
XX=Plating Code
See Below

RoHS-2
2011/65/EU

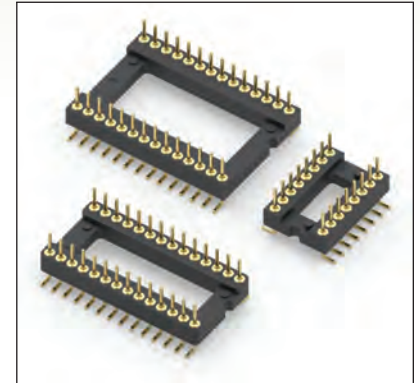


DUAL-IN-LINE HEADERS

SERIES 162, 862 • GULL WING SHRINK DIP HEADERS & STRIPS, SMT SOLDER TAIL



- Surface mount Gull Wing DIP headers & strips for adapters and board stacking applications with .070" lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 162 and Series 862 use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



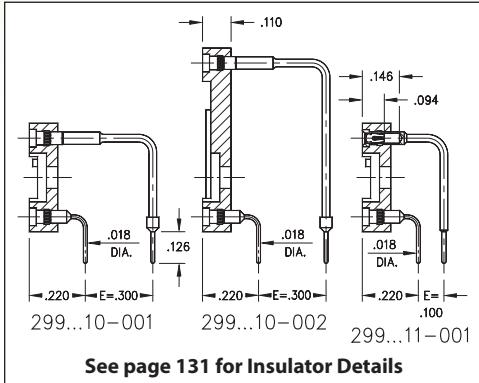
Total number of pins	Pin Spacing			Quantity per tube	ORDERING INFORMATION	
	A	B	C			
16	0.572	0.3	0.39	35	162-10-316-30-180000	
28	0.992	0.4	0.49	20	162-10-428-30-180000	
30	1.062	0.4	0.49	18	162-10-430-30-180000	
48	1.692	0.4	0.49	12	162-10-448-30-180000	
20	0.712	0.6	0.69	28	162-10-620-30-180000	
28	0.992	0.6	0.69	20	162-10-628-30-180000	
40	1.412	0.6	0.69	14	162-10-640-30-180000	
42	1.482	0.6	0.69	13	162-10-642-30-180000	
48	1.692	0.6	0.69	12	162-10-648-30-180000	
52	1.832	0.6	0.69	11	162-10-652-30-180000	
56	1.972	0.6	0.69	10	162-10-656-30-180000	
64	2.252	0.6	0.69	9	162-10-664-30-180000	
68	2.392	0.6	0.69	8	162-10-668-30-180000	
64	2.252	0.75	0.84	8	162-10-764-30-180000	
					SINGLE ROW STRIP SOCKET If desired, we will supply any length up to 21 pins.	
21	1.482	---	.104	---	862-10-021-30-180000	
See page 264 for coplanarity information					SPECIFY PLATING CODE XX =	
					Pin Plating	10 μ Au

XX=Plating Code
See Below

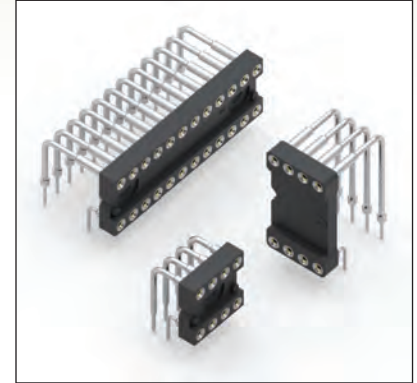


DUAL-IN-LINE SOCKETS

SERIES 299 • RIGHT ANGLE MOUNT • CLOSED FRAME



- Ideal for mounting components, such as LED displays, where the face must be parallel to the PCB surface
- Sockets have solder tail termination and are available with either .300" (standard) or .100" row spacing
- Series 299 uses MM #1103/0903, #1103/1610 or #1103/0904 pins. See pages 166 & 167 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



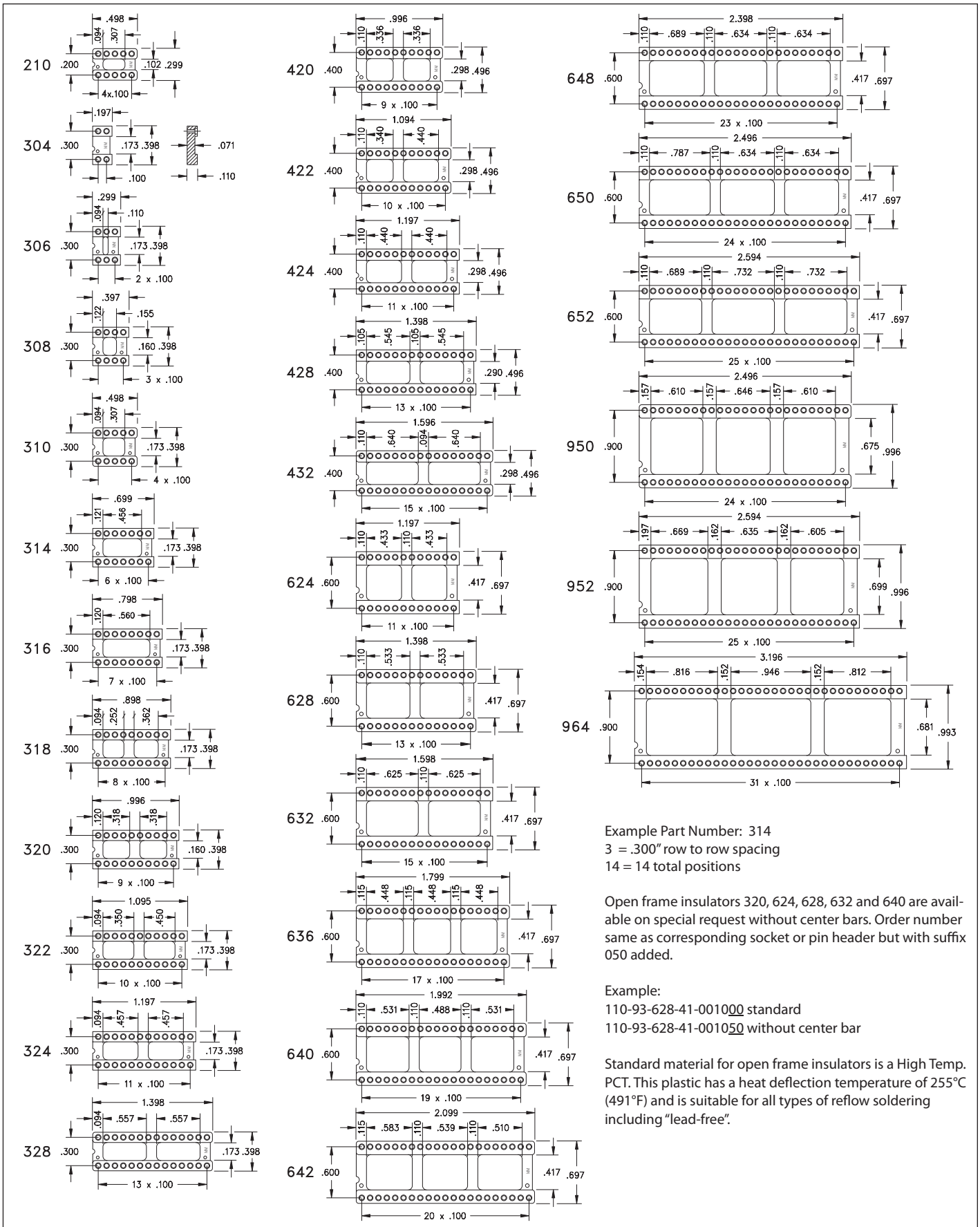
Total number of pins				Quantity per tube	ORDERING INFORMATION	
	A	B	C		E = .100	E = .300
6	0.3	0.3	0.4		299-XX-306-11-001000	* 299-XX-306-10-001000
8	0.4	0.3	0.4		299-XX-308-11-001000	* 299-XX-308-10-001000
10	0.5	0.3	0.4		299-XX-310-11-001000	* 299-XX-310-10-001000
12	0.6	0.3	0.4	33	299-XX-312-11-001000	* 299-XX-312-10-001000
14	0.7	0.3	0.4	29	299-XX-314-11-001000	* 299-XX-314-10-001000
16	0.8	0.3	0.4	25	299-XX-316-11-001000	* 299-XX-316-10-001000
18	0.9	0.3	0.4	22	299-XX-318-11-001000	* 299-XX-318-10-001000
20	1.0	0.3	0.4	20	299-XX-320-11-001000	* 299-XX-320-10-001000
24	1.2	0.3	0.4	16	299-XX-324-11-001000	* 299-XX-324-10-001000
8	0.4	0.6	0.7	50		299-XX-608-10-002000
10	0.5	0.6	0.7	40		299-XX-610-10-002000
12	0.6	0.6	0.7	34		299-XX-612-10-002000
14	0.7	0.6	0.7	28		299-XX-614-10-002000
16	0.8	0.6	0.7	25		299-XX-616-10-002000
18	0.9	0.6	0.7	22		299-XX-618-10-002000
20	1.0	0.6	0.7	20		299-XX-620-10-002000
22	1.1	0.6	0.7	18		299-XX-622-10-002000
24	1.2	0.6	0.7	16		299-XX-624-10-002000
26	1.3	0.6	0.7	15		299-XX-626-10-002000
28	1.4	0.6	0.7	14		299-XX-628-10-002000
30	1.5	0.6	0.7	13		299-XX-630-10-002000
32	1.6	0.6	0.7	12		299-XX-632-10-002000
36	1.8	0.6	0.7	11		299-XX-636-10-002000
40	2.0	0.6	0.7	10		299-XX-640-10-002000
SPECIFY PLATING CODE XX =					93	43
Sleeve (Pin)					200 μ" Sn/Pb	200 μ" Sn
Contact (Clip)					30 μ" Au	30 μ" Au



XX=Plating Code
See Below

* Not available in tubes

DUAL-IN-LINE INSULATORS STANDARD OPEN FRAME



Example Part Number: 314
 3 = .300" row to row spacing
 14 = 14 total positions

Open frame insulators 320, 624, 628, 632 and 640 are available on special request without center bars. Order number same as corresponding socket or pin header but with suffix 050 added.

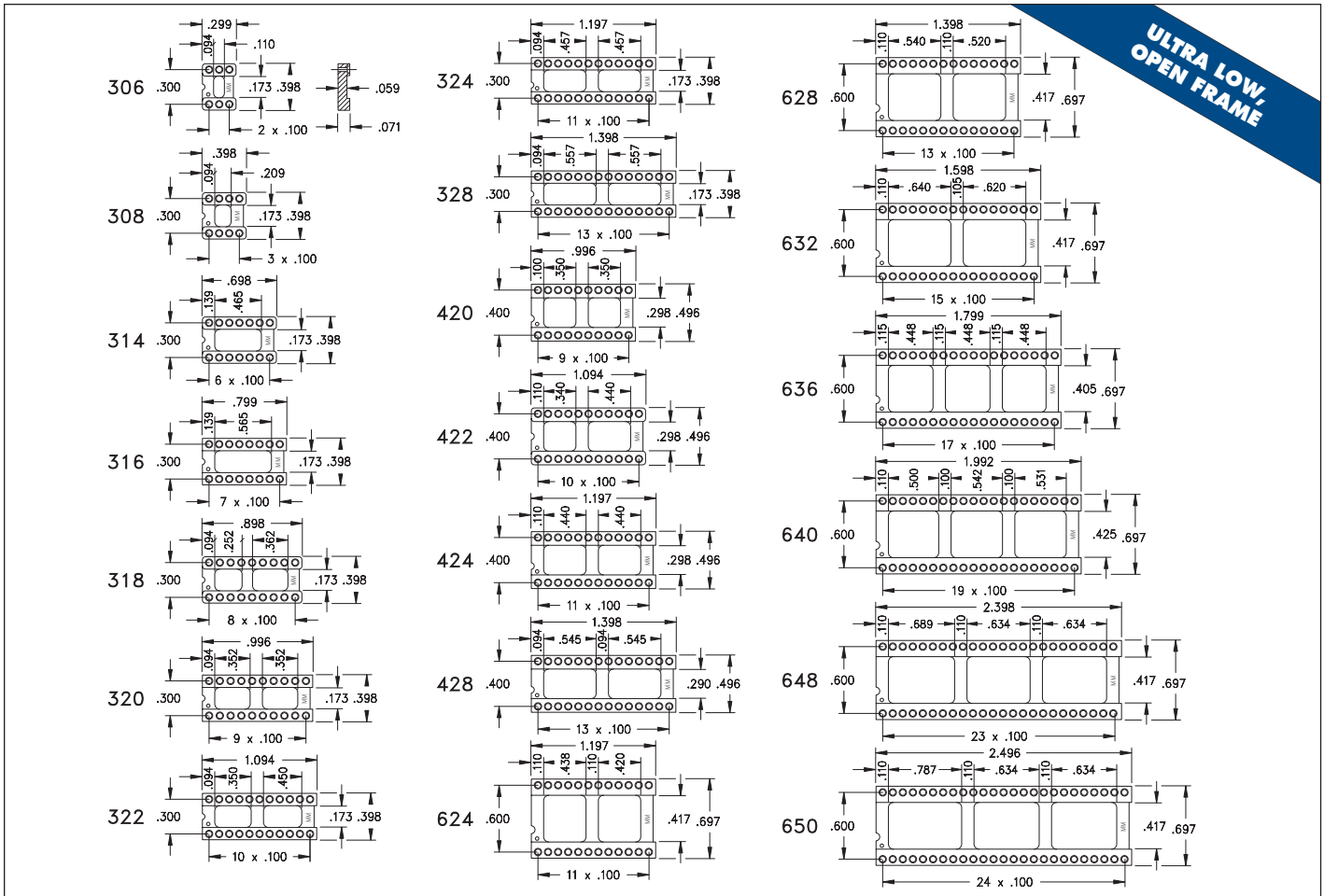
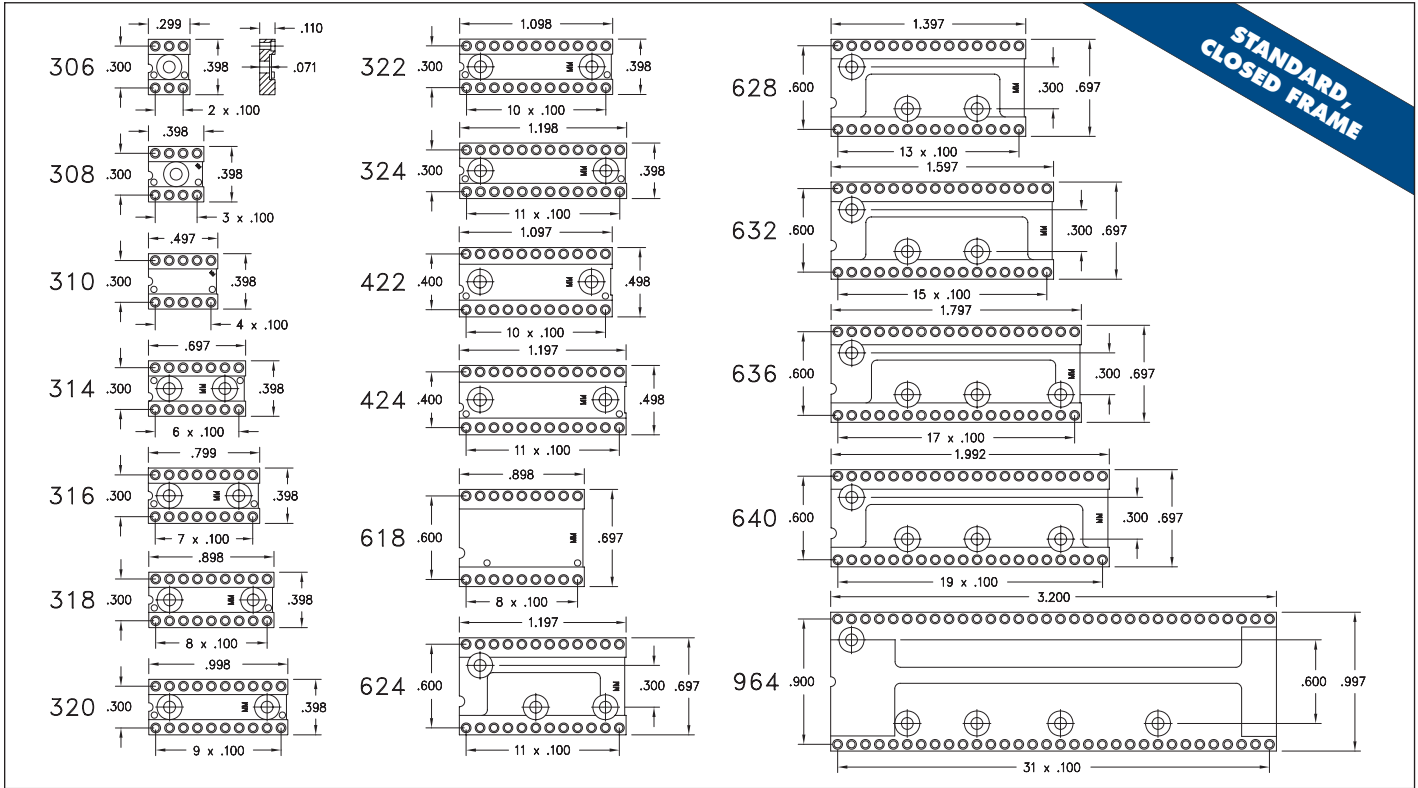
Example:
 110-93-628-41-001000 standard
 110-93-628-41-001050 without center bar

Standard material for open frame insulators is a High Temp. PCT. This plastic has a heat deflection temperature of 255°C (491°F) and is suitable for all types of reflow soldering including "lead-free".



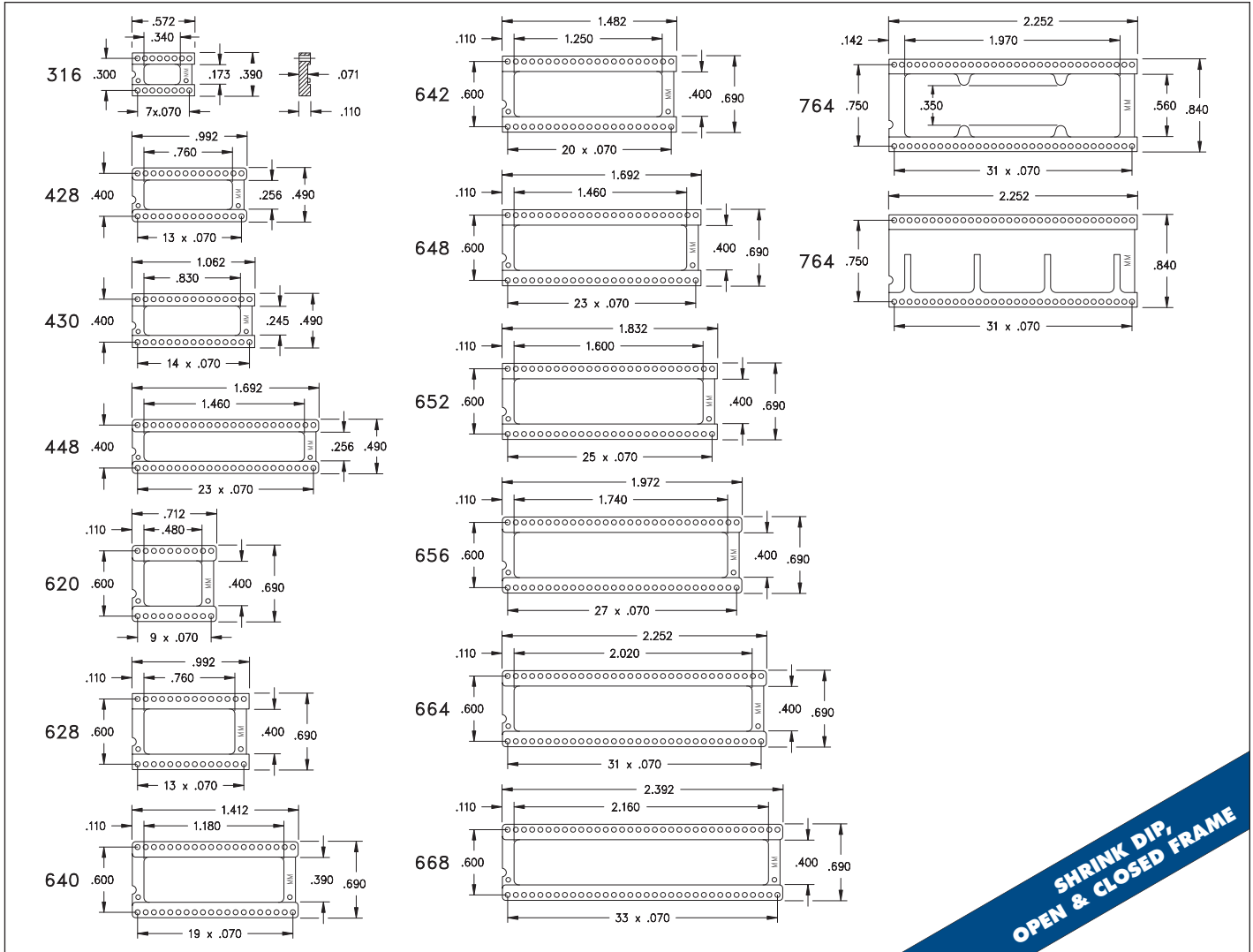
DUAL-IN-LINE INSULATORS

STANDARD, CLOSED FRAME • ULTRA LOW PROFILE, OPEN FRAME

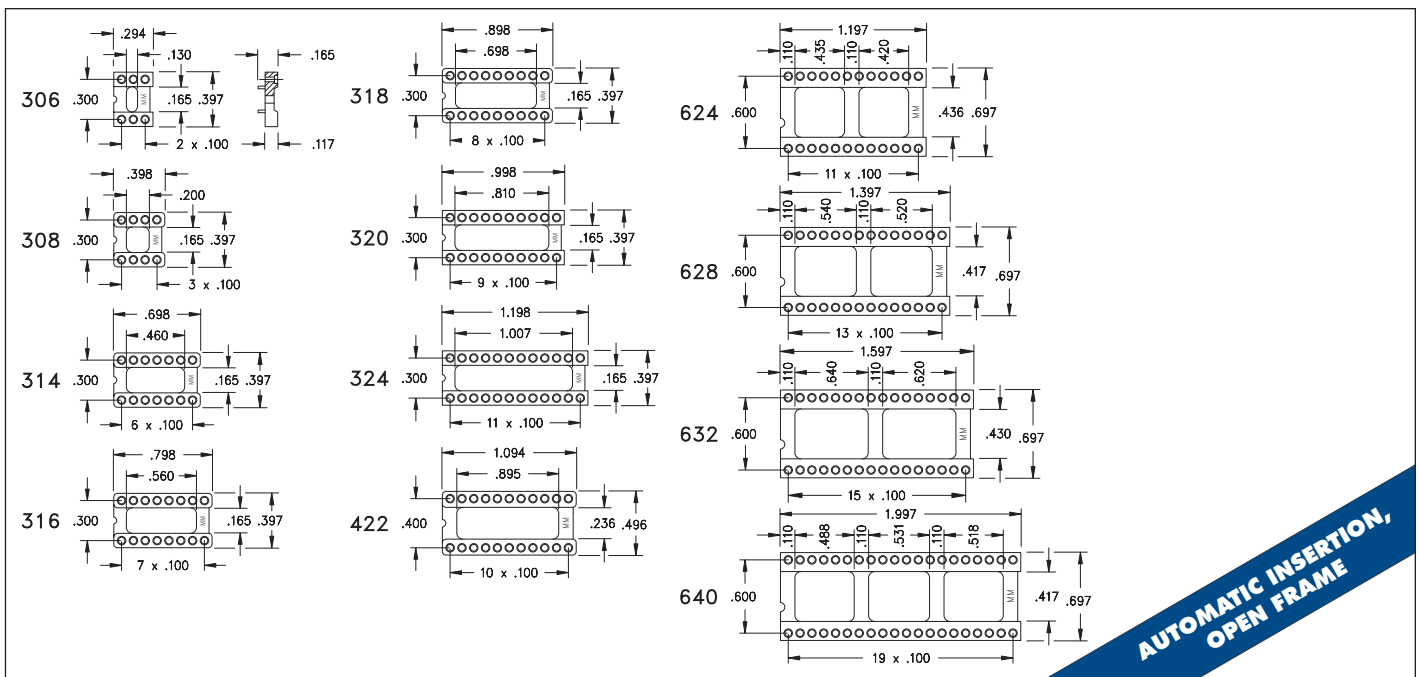


DUAL-IN-LINE INSULATORS

SHRINK DIP, OPEN & CLOSED FRAME • AUTOMATIC INSERTION, OPEN FRAME



**SHRINK DIP,
OPEN & CLOSED FRAME**



**AUTOMATIC INSERTION,
OPEN FRAME**



DUAL-IN-LINE SOCKETS

SERIES 296, 299, 594 • DISPLAY SOCKETS

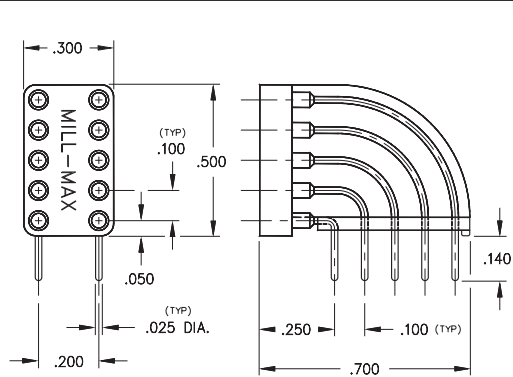
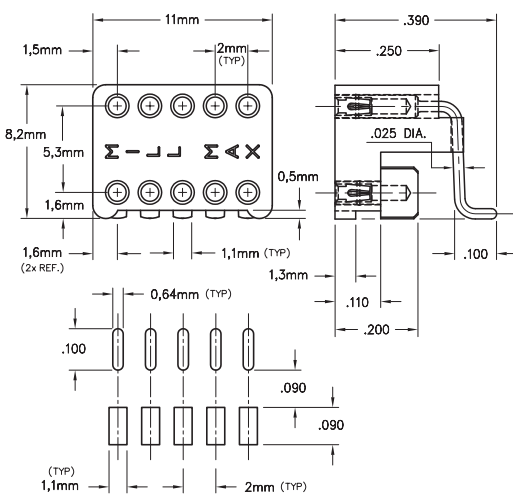


FIG. 1



FOOTPRINT

FIG. 2

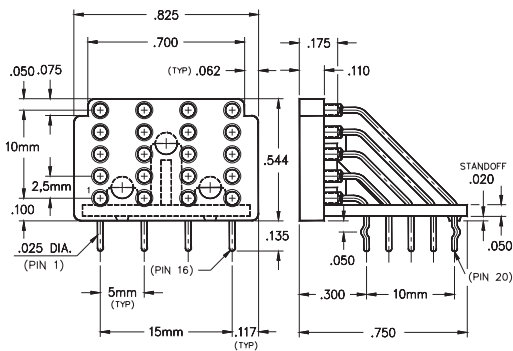
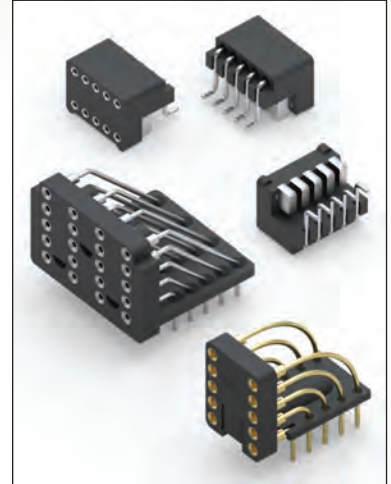











FIG. 3

- Series 296, 299 and 594 display sockets are used to mount dot matrix and 7-segment LED displays at the edge of and perpendicular to a printed circuit board. This positions the display directly behind the translucent front panel of the equipment
- Series 299 & 594 are through-hole mount and can be wave or intrusive reflow soldered
- Series 296 is surface mount and can be supplied on carrier tape for automated "pick 'n place" assembly
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- See also page 129 for Right Angle DIP Sockets
- Insulators are high temp. Nylon 46, suitable for all soldering processes including "lead-free"
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG. 1	Series 299...001	10 Pin Vertical Display Socket	
	Discrete Sockets		
	299-99-210-12-001800  Plating Code		
FIG. 2	Series 296...691	10 Pin Horizontal Display Socket	
	Discrete Sockets		
	296-XX-010-30-691800  Plating Code		
FIG. 3	Series 296...692	10 Pin Horizontal Display Socket	
	Supplied on 24mm wide carrier tape per EIA-481: 450 per 13" reel		
	296-XX-010-30-692800  Plating Code		
FIG. 3	Series 594...007	20 Pin Vertical Display Socket	
	Discrete Sockets		
	594-XX-020-01-007032  Plating Code		
 			
SPECIFY PLATING CODE XX=			
Sleeve (Pin)		99	44 
Contact (Clip)		200 μ"Sn/Pb	200 μ"Sn
		200 μ"Sn/Pb	200 μ"Sn



DUAL-IN-LINE SOCKETS

SERIES 110, 410 • RELAY AND ZIG-ZAG SOCKETS

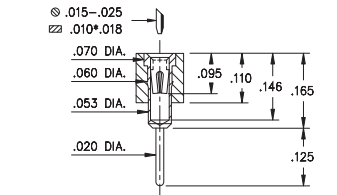


Fig. 1

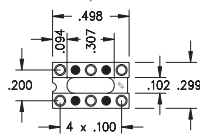


Fig. 2

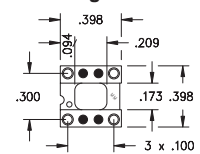


Fig. 3

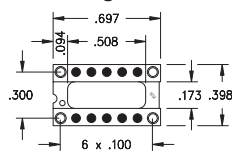
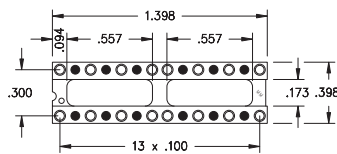
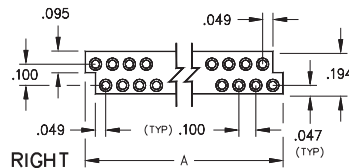
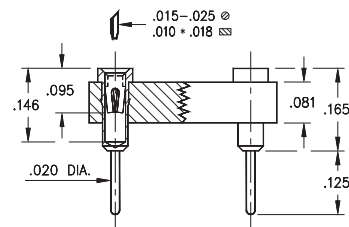
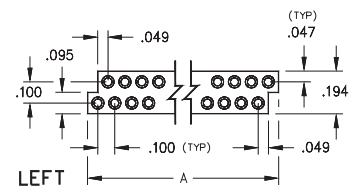


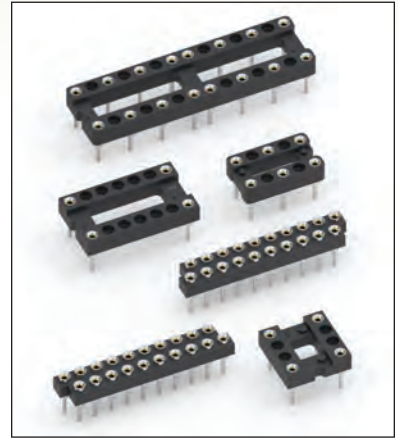
Fig. 4



○ = Loaded Position ● = Empty Position



- Relay sockets accept devices with I/O pins on .100" grid
- Additional Relay DIP socket patterns are available on Page 135
- Zig-Zag strip sockets are suitable for IC's and memory chips with staggered double row patterns
- Series 110 and 410 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Selectively Loaded Sockets For Dual-In-Line Relays



	Number of Pins	Ordering Information
FIG. 1	6	110-XX-210-10-001000
FIG. 2	4	110-XX-308-10-001000
FIG. 3	4	110-XX-314-10-001000
FIG. 4	16	110-XX-328-10-001000

Staggered (Zig-Zag) Strip Sockets

Dim 'A'	Number of Pins	Insulator Body	Ordering Information
0.747	14	Left, Stackable	410-XX-214-10-001000
0.747	14	Right, Stackable	410-XX-214-10-002000
0.847	16	Left, Stackable	410-XX-216-10-001000
0.847	16	Right, Stackable	410-XX-216-10-002000
1.047	20	Left, Stackable	410-XX-220-10-001000
1.047	20	Right, Stackable	410-XX-220-10-002000
1.247	24	Left, Stackable	410-XX-224-10-001000
1.247	24	Right, Stackable	410-XX-224-10-002000
1.447	28	Left, Stackable	410-XX-228-10-001000
1.447	28	Right, Stackable	410-XX-228-10-002000

XX=Plating Code
See Below

RoHS-2
2011/65/EU

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin) 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn
Contact (Clip) 	30 μ" Au	30 μ" Au	30 μ" Au



DUAL-IN-LINE SOCKETS

SERIES 110 • SELECTIVELY LOADED RELAY DIP SOCKET, SOLDER TAIL

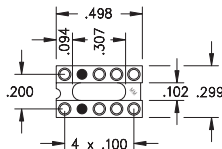
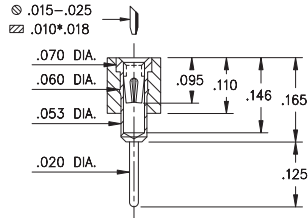


Fig. 1

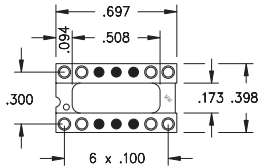


Fig. 2

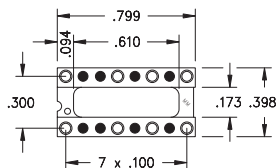


Fig. 3

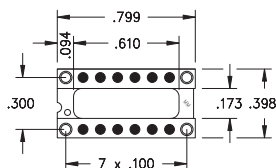


Fig. 4

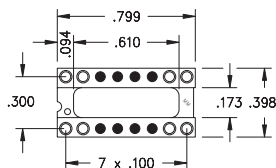


Fig. 5

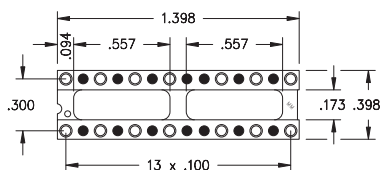
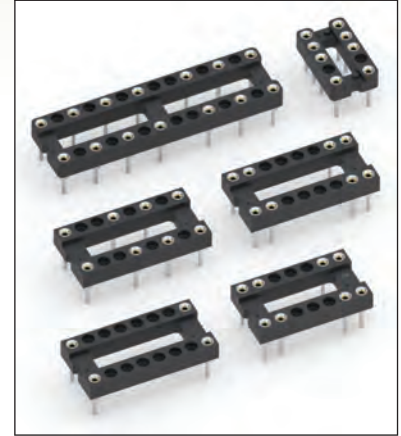


Fig. 6

○ = Loaded Position ● = Empty Position

- Relay sockets accept devices with I/O pins on .100" grid
- Additional Relay DIP socket patterns are available on Page 134
- Series 110 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG.	Series 110...002	8 Position Relay Socket
FIG. 1	110-XX-210-10-002000	
FIG. 2	Series 110...002	8 Position Relay Socket
FIG. 2	110-XX-314-10-002000	
FIG. 3	Series 110...003	8 Position Relay Socket
FIG. 3	110-XX-316-10-003000	
FIG. 4	Series 110...004	4 Position Relay Socket
FIG. 4	110-XX-316-10-004000	
FIG. 5	Series 110...005	8 Position Relay Socket
FIG. 5	110-XX-316-10-005000	
FIG. 6	Series 110...002	14 Position Relay Socket
FIG. 6	110-XX-328-10-002000	

XX=Plating Code
See Below

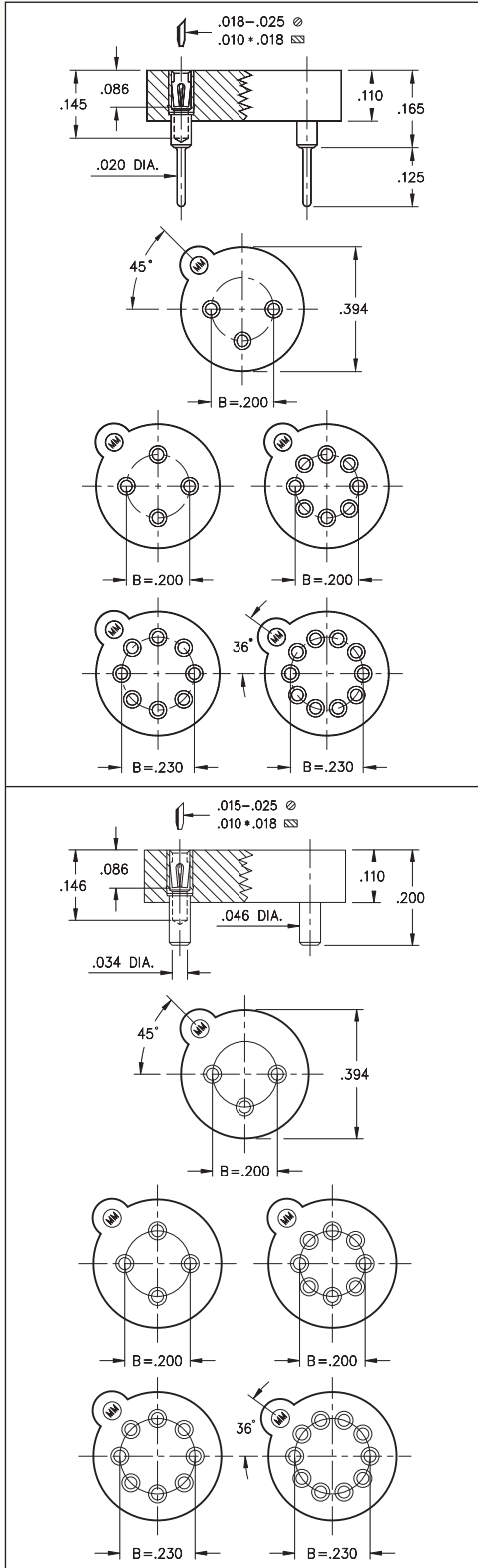
RoHS-2
2011/65/EU

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn
Contact (Clip)	30 μ" Au	30 μ" Au	30 μ" Au



TRANSISTOR SOCKETS

SERIES 917 • SURFACE AND THROUGH-HOLE MOUNT



- Series 917 TO package sockets are available in 3, 4, 8 and 10 positions
- Two 8 pin versions feature pin centers on .200" or .230" circle
- Series 917...005 use MM #1705 and MM #1802 pins, see pages 168 and 169 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Series 917...001 uses MM #1701 pins. See page 171 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Transistor Sockets (Through-Hole Mount)							
Type	Circle Dia.	Number of Pins	Ordering Information				
TO-5	0.200	3	917-XX-103-41-005000				
TO-5	0.200	4	917-XX-104-41-005000				
TO-5	0.200	8	917-XX-108-41-005000				
TO-100	0.230	8	917-XX-208-41-005000				
TO-100	0.230	10	917-XX-210-41-005000				
Transistor Sockets (Surface Mount)							
Type	Circle Dia.	Number of Pins	Ordering Information				
TO-5	0.200	3	917-XX-103-41-001000				
TO-5	0.200	4	917-XX-104-41-001000				
TO-5	0.200	8	917-XX-108-41-001000				
TO-100	0.230	8	917-XX-208-41-001000				
TO-100	0.230	10	917-XX-210-41-001000				
Tape and Reel Packaging: (Surface Mount ONLY)							
Ordering Information:		917-XX-XXX-41-001799					
Available on 24mm wide tape, 730 parts per 13" reel							
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> XX=Plating Code See Below </div>			<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RoHS-2 2011/65/EU </div>				
SPECIFY PLATING CODE XX=		91	93		41	43	47
Sleeve (Pin)		200 μ"Sn/Pb	200 μ"Sn/Pb		200 μ"Sn	200 μ"Sn	200 μ"Sn
Contact (Clip)		10 μ"Au	30 μ"Au		10 μ"Au	30 μ"Au	Au Flash

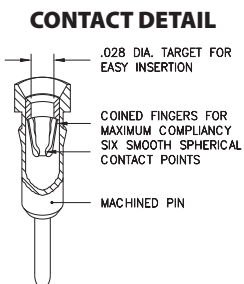


PIN GRID ARRAY SOCKETS

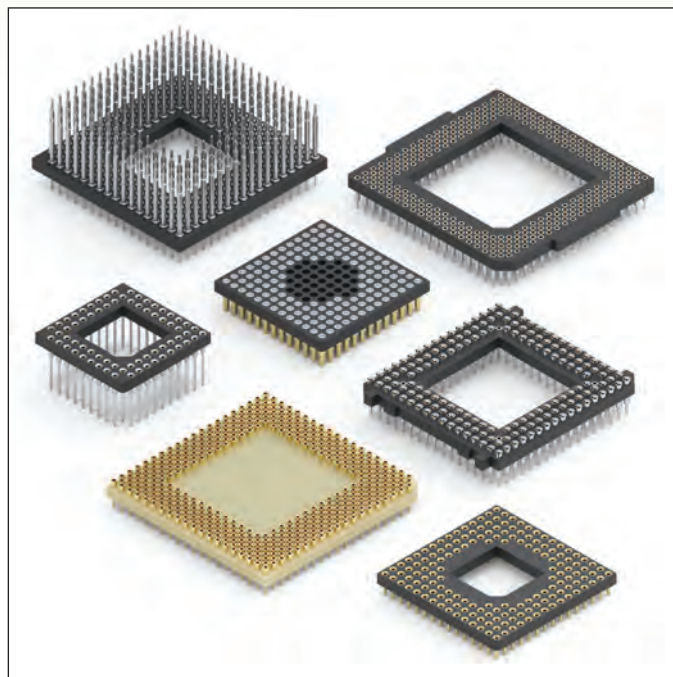
TECHNICAL SPECIFICATIONS

Pin grid array sockets are designed to accept high pin count IC's. They use low force 6-finger contacts to ease insertion / extraction of the device. Standard low force (MM #32) contact is used for pin counts up to 150, ultra-low force (MM #35) contact is recommended for 150 pins or more but less than 250 pins. The "ultra lite" (MM #43) is recommended for 250 pins or more.

PGA sockets all have precision-machined pins. This offers the lowest possible profile. The closed bottom design also eliminates flux and solder contamination, and the pins are in-line with contact entry.



Insulator bodies are molded from high temperature PCT polyester suitable for all forms of soldering including wave, infra-red reflow and vapor phase.



TECHNICAL SPECIFICATIONS

Materials

Insulator body:

- High temperature glass-filled thermoplastic polyester (PCT)
- Heat deflection temperature (HDT @ 264 PSI) = 255°C (490°F)
- Self-extinguishing, rated UL94V-0

Receptacle (Sleeve):

- Screw machined brass (ASTM-B16-00), plated 10 μ" gold, 200 μ" tin or 200 μ" tin-lead (SnPb 90/10) over 100 μ" nickel.

Pin:

- Screw machined brass (ASTM-B16-00), plated 10 μ" gold, 200 μ" tin or 200 μ" tin-lead (SnPb 90/10) over 100 μ" nickel.

Contact (clip):

- Stamped beryllium-copper (ASTM-B194-01), plated 10 μ" or 30 μ" gold over 50 μ" nickel.

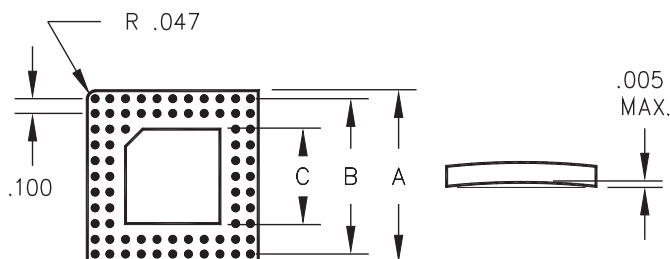
Mechanical Data

- Insertion characteristics:
 - Measured with a polished steel gauge .018" diameter
 - Low force MM#32 (01 suffix) typical insertion force 50 grams
typical extraction force 30 grams
 - Ultra-low force MM#35 (02 suffix) typical insertion force 25 grams
typical extraction force 15 grams
 - "Ultra lite" MM#43 (03 suffix) typical insertion force 12.5 grams
typical extraction force 7.5 grams
- Mechanical life: 100 cycles min.

Electrical & Environmental Data

- See general specifications on page 264.

DIMENSIONS OF PGA SOCKET INSULATORS



DIMENSIONS **A**, **B**, and **C** can be calculated as follows:

N1 = GRID SIZE (# of pins per side, outer most row only for interstitial patterns)

N2 = WINDOW SIZE

A = $N1 \times .100"$

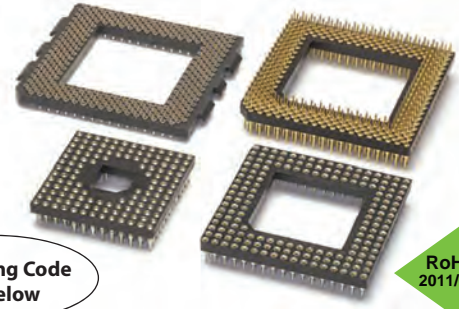
B = $(N1-1) \times .100"$

C = $(N2 \times .100") - .016"$

PIN GRID ARRAY SOCKETS

SERIES 510,511,513,514,515,518,522,523 • .100" AND INTERSTITIAL GRID • SURFACE MOUNT, THROUGH-HOLE AND WIREWRAP

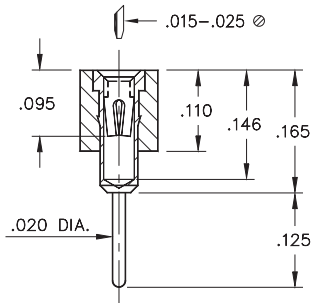
- Series 510, 511, 514, 515, 522 and 523 PGA sockets are available on .100" centers
- Series 513 and 518 PGA sockets are available for Interstitial patterns
- Choice of three low force clips to cover all applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details



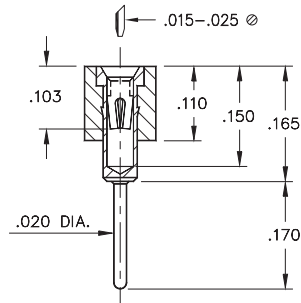
**XX=Plating Code
See Below**



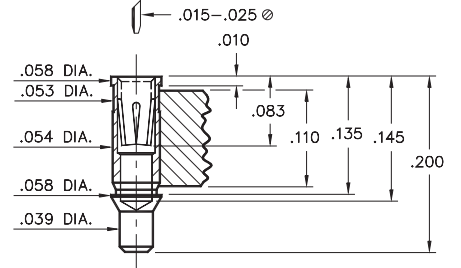
SERIES 510 (Standard Solder Tail)



SERIES 511 (Long Solder Tail)

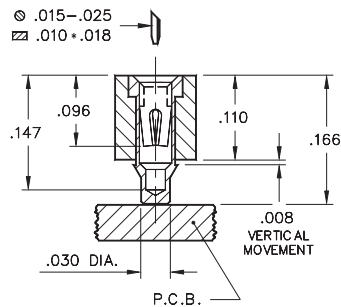


SERIES 513 (SMT Receptacle)

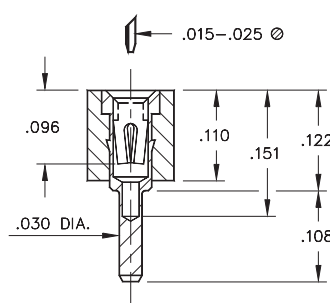


Interstitial Patterns Only

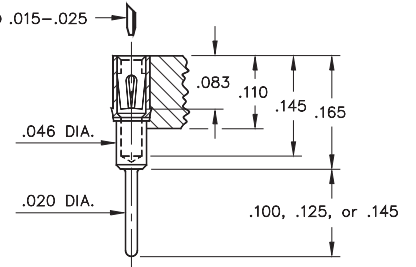
SERIES 514 (SMT Receptacle)



SERIES 515 (Low Profile Solder Tail)

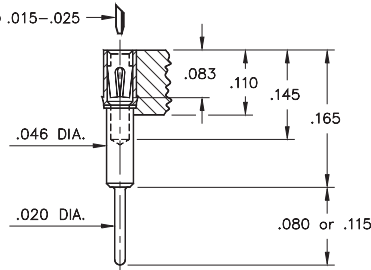


SERIES 518 (Solder Tail No, Heatsink Tabs)



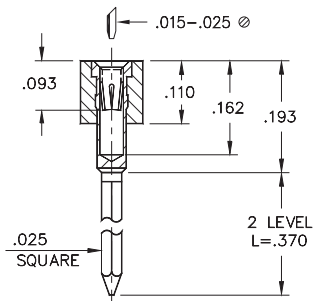
Interstitial Patterns Only

SERIES 518 (Solder Tail w/ Heatsink Tabs)

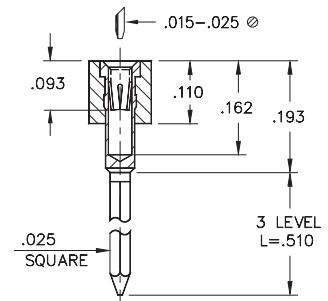


Interstitial Patterns Only



SERIES 522 (2 Level Wrapost)



SERIES 523 (3 Level Wrapost)



Visit www.mill-max.com/pgs to configure a formal part number

SPECIFY PLATING CODE XX=	13	91	93	99	43
Sleeve (Pin) 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn/Pb	200 μ" Sn
Contact (Clip) 	30 μ" Au	10 μ" Au	30 μ" Au	100 μ" Sn/Pb	30 μ" Au

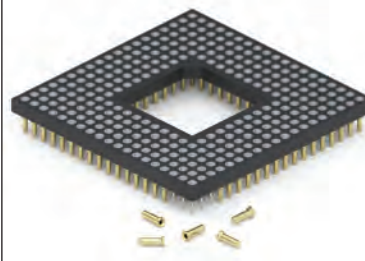
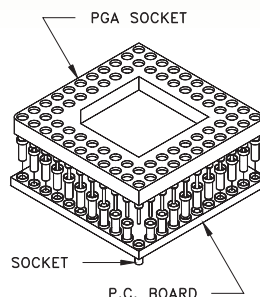


PIN GRID ARRAY SOCKETS

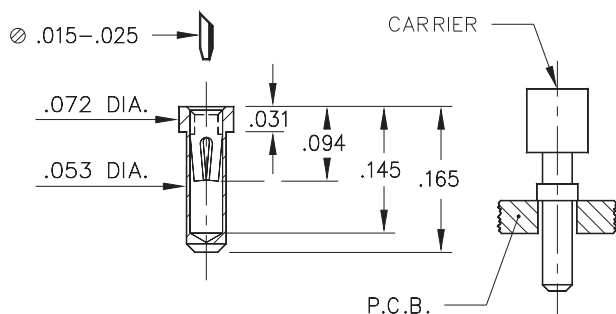
SERIES 605, 614 • .100" AND INTERSTITIAL GRID • CARRIER TYPE

- Series 614 & 605 PGA carrier sockets offer 4 receptacle styles
- Many combinations of receptacles and clips to cover all applications
- Carrier sockets provide a convenient way of loading groups of receptacles onto a PC board
- Removeable insulator makes carriers ideal for low profile applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details

APPLICATION OF PGA SOCKET CARRIERS

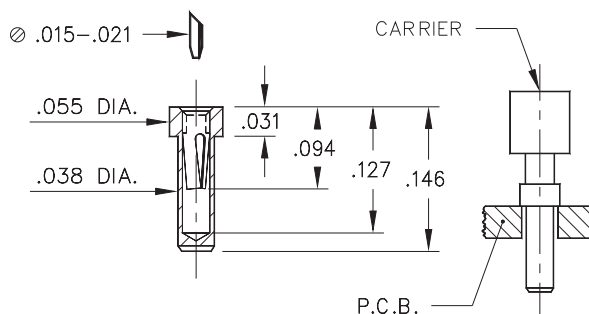


SERIES 614...001, 002, 003 LOW PROFILE SOCKET

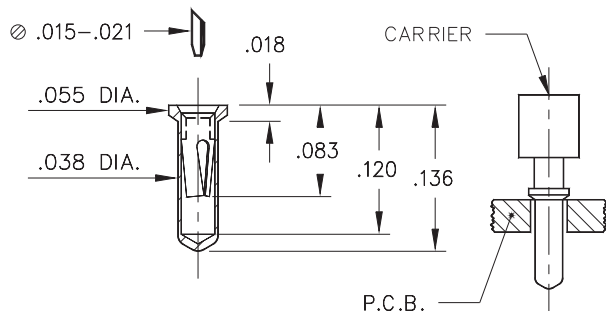


For .100" Grid Only

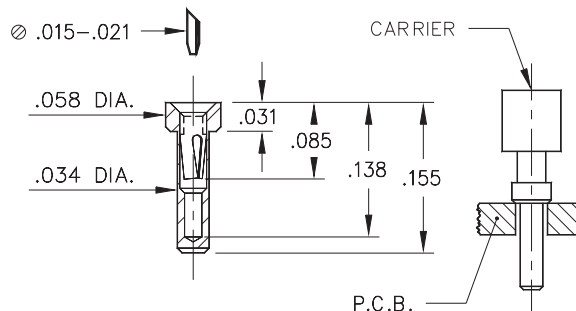
SERIES 614...007 MINIATURE SOCKET



SERIES 614...012 LOWEST PROFILE SOCKET





SERIES 605...048 REDUCED BARREL SOCKET



XX=Plating Code
See Below

RoHS-2
2011/65/EU

Visit www.mill-max.com/pga
to configure a formal part number

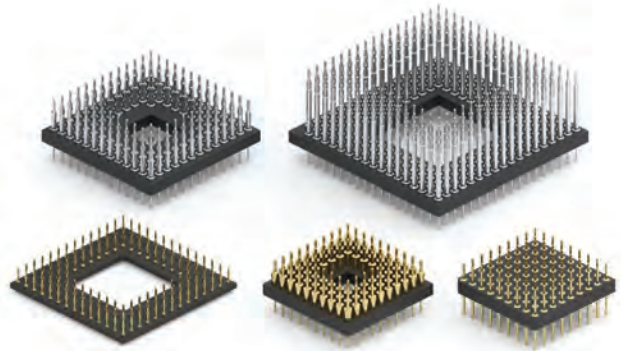
SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin) 	10 μ" Au	200 μ" Sn/Pb	200 μ" Sn
Contact (Clip) 	30 μ" Au	30 μ" Au	30 μ" Au



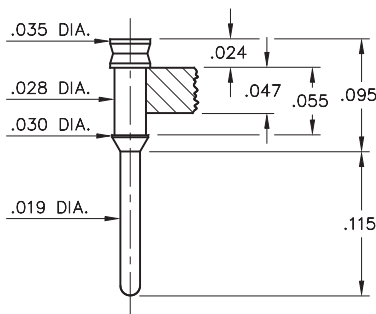
PIN GRID ARRAY HEADERS

SERIES 507, 550, 551, 599 • .100" AND INTERSTITIAL GRID • SURFACE MOUNT AND THROUGH-HOLE

- Series 551 and 599 headers are available on .100" centers
- Series 507 and 550 PGA headers are available for interstitial patterns and designed for SMT adapter applications
- Series 550 and 551 are through-hole mount for adapter & board stacking applications
- Series 550 and 551 use High temperature PCT polyester insulator material suitable for all forms of soldering
- Series 507 and 599 use FR-4 epoxy insulator material
- For Electrical, Mechanical and Environmental Data, see page 137 for details

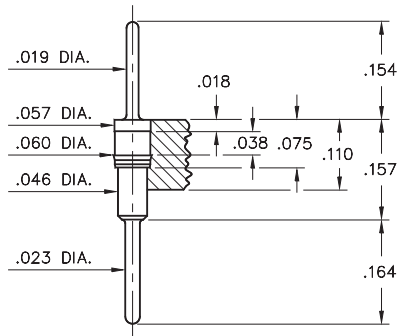


SERIES 507 SMT HEADER PIN TYPE #0737



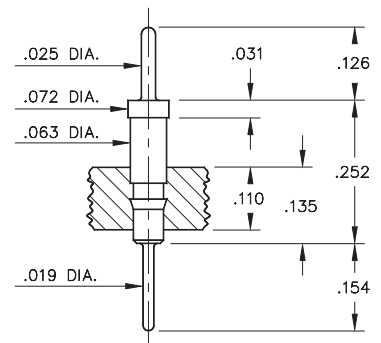
Interstitial Patterns Only

SERIES 550 HEADER PIN TYPE #5012

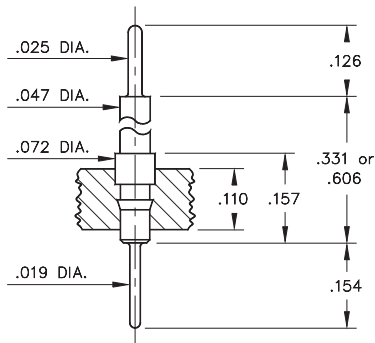


Interstitial Patterns Only

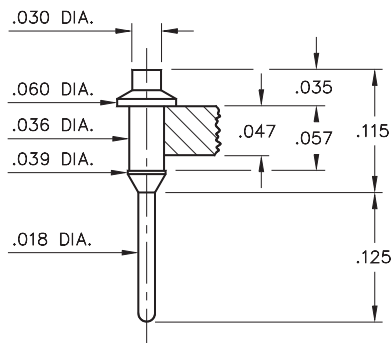
SERIES 551 HEADER PIN TYPE #5503



SERIES 551 HEADER PIN TYPE #5504 & #5505



SERIES 599 SMT HEADER PIN TYPE #9976



XX=Plating Code
See Below

RoHS-2
2011/65/EU

Visit www.mill-max.com/pga to configure a formal part number

SPECIFY PLATING CODE XX =

10

90

40

Pin Plating



10 μ" Au

200 μ" Sn/Pb

200 μ" Sn



SERIES 540, 579, 582, 587, 599, 940 BGA AND PLCC SPECIFICATIONS

TECHNICAL SPECIFICATIONS FOR BGA ADAPTER SYSTEM

Materials:

- Socket contact: Three finger, stamped beryllium copper alloy 172, HT (Mill-Max type #04 or #05); plated 10 μ " gold over 50 μ " nickel.
- Socket shell and adapter pins: Precision machined brass alloy; plated 10 μ " gold over 100 μ " nickel.
- Insulator material: .047" or .062" thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/ $^{\circ}$ C, ϵ_r = 5.0

Mechanical:

- Insertion and withdrawal forces (using .010" dia. polished steel gage pin): Insertion: .36N typ. per pin
Withdrawal: .20N typ. per pin
- Insertion force of an actual 225 pin device: 90N
- Durability: 100 cycles
- Coplanarity: less than or equal to .005"

Electrical:

- Current rating (per pin): 1A
- Working voltage: 100 VRMS/150 VDC max.
- Low level contact resistance: 10 m Ω max.
- Insulation resistance @ 500 VRMS: Initial value: 1,000,000 M Ω min.
After climatic tests: 10,000 M Ω min.

- Dielectric withstanding voltage: 500 VRMS
- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 pS

Environmental:

- Operating temperature range: -55 $^{\circ}$ C to +125 $^{\circ}$ C
BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:
- Damp heat, steady state: 40 $^{\circ}$ C, 93% rH, 21 days
- Damp heat, cyclic: 25/55 $^{\circ}$ C, 6 days
- Dry heat: 100 $^{\circ}$ C, 1,000 hours
- Thermal shock: -55 to +125 $^{\circ}$ C, 5 cycles
- Random vibration: 50 to 500 Hz, 8g, 20 min. per axis
- Shock: 50 g per axis
- Solderability: 235 $^{\circ}$ C, 2 seconds
- Resistance to soldering heat: 270 $^{\circ}$ C, 10 seconds
- Resistance to corrosion:
- Salt spray: 48 hours
- Sulphur dioxide: 96 hours @ 25 ppm SO₂, 25 $^{\circ}$ C, 75% rH
- Hydrogen sulphide: 96 hours @ 12 ppm H₂S, 25 $^{\circ}$ C, 75% rH

TECHNICAL SPECIFICATIONS FOR 540 SERIES PLCC SOCKETS

Materials:

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating, tin finish.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 50 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
Through-hole types: 2A
- Contact resistance: 20 m Ω max.
- Insulation resistance: 5,000 M Ω min.
- Dielectric strength: 600 VRMS
- Capacitance: 2pF max.

Environmental Data:

- Operating temperature: -55/+125 $^{\circ}$ C
- Vibration (No electrical discontinuity greater than 1 μ s): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

TECHNICAL SPECIFICATIONS FOR 940 SERIES PLCC SOCKETS

Materials:

- Insulator: PPS Polyphenylene Sulfide, Rated UL94V-0.
- Contact: Phosphor Bronze with a tin finish and nickel underplate.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 25 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
Through-hole types: 1A
- Contact resistance: 30 m Ω max.
- Insulation resistance: 10,000 M Ω min.
- Dielectric strength: 600 VAC
- Capacitance: 1pF max.

Environmental Data:

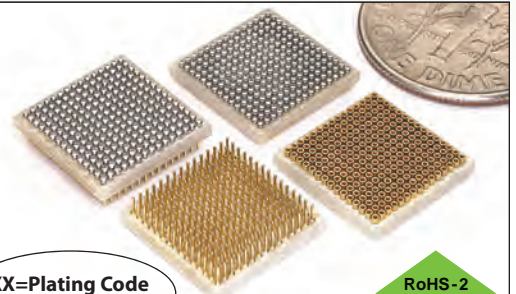
- Operating temperature: -55/+105 $^{\circ}$ C
- Vibration (No electrical discontinuity greater than 1 μ s): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A



BALL GRID ARRAYS

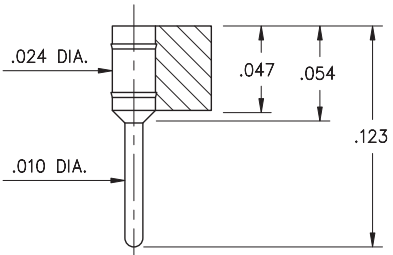
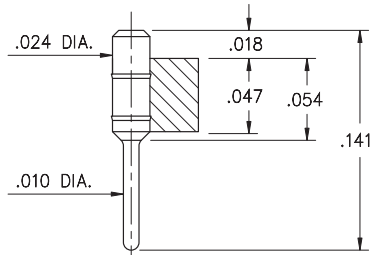
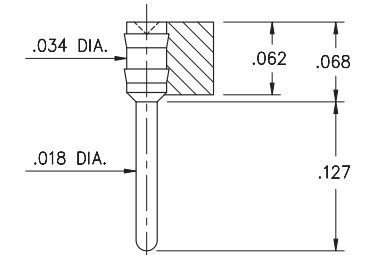
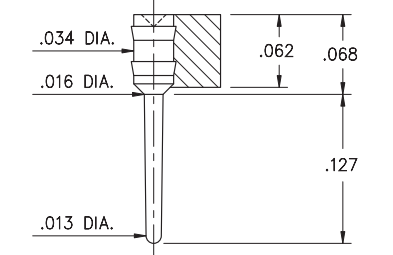
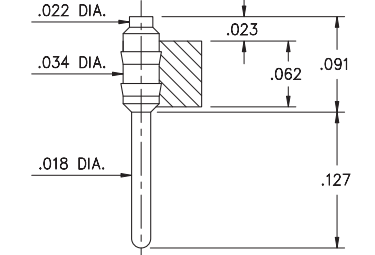
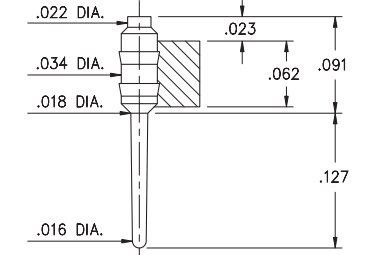
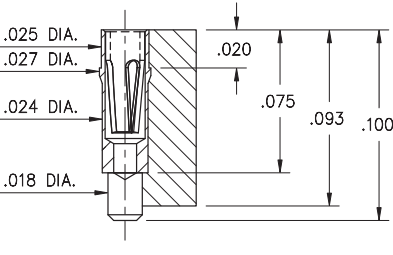
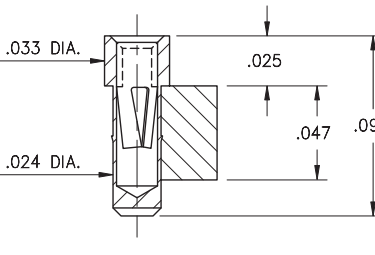
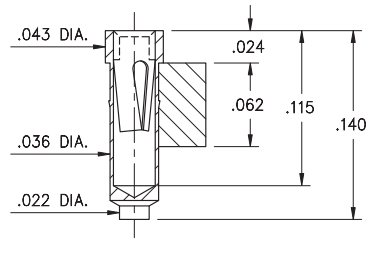





SERIES 540,579,582,587,599 • FOR 0,8mm GRID, 1mm GRID & .050" GRID • MALE PIN ADAPTERS AND FEMALE SOCKETS

- BGA adapter/socket systems are a reliable way to make BGAs pluggable. They may also be used as a high density board-to-board interconnect
- The BGA device for a 0,8mm or 1mm grid is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB), then either one can be plugged into a 9953 (0.8mm grid) or 9928 (1mm grid) surface mount socket
- The BGA device for a .050" grid is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB), then either one can be plugged into a 8214 surface mount socket
- Both socket and adapter have the same footprint as the BGA device
- Insertion force is .4N per pin for standard pins 7929/9929, 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board
- For Electrical, Mechanical and Environmental Data, see page 141 for details



XX=Plating Code
See Below

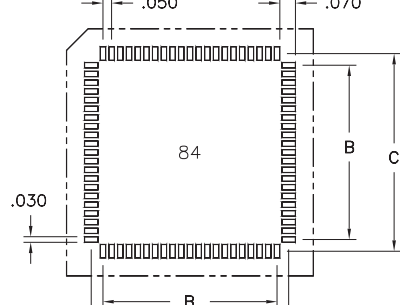
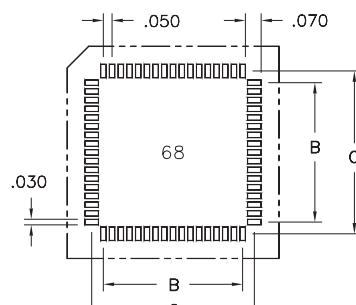
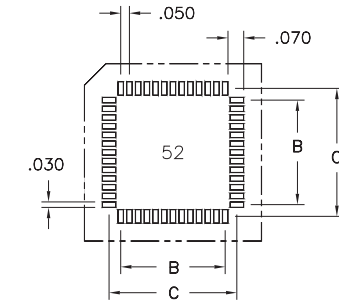
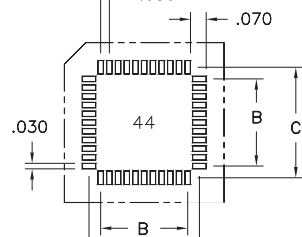
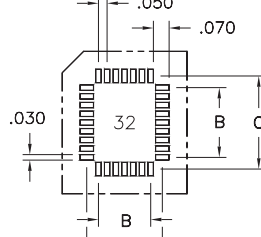
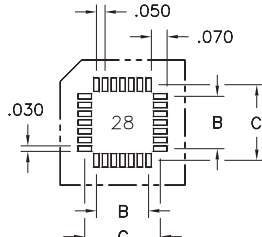
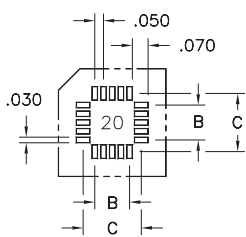
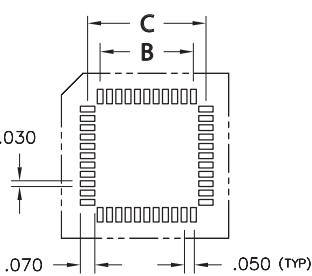
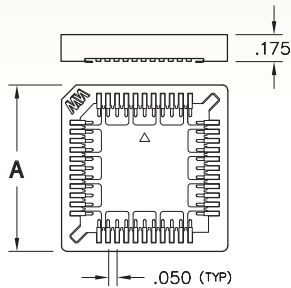


<p>SERIES 599...429 BGA MOUNT TYPE #9929</p>  <p>For 0,8mm & 1mm Grid Only</p>	<p>SERIES 579...429 PCB MOUNT TYPE #7929</p>  <p>For 0,8mm & 1mm Grid Only</p>	<p>SERIES 587...437 BGA MOUNT TYPE #8737</p>  <p>For .050" Grid Only</p>
<p>SERIES 540...448 EZ-IN BGA MOUNT TYPE #4048</p>  <p>For .050" Grid Only</p>	<p>SERIES 540...498 STANDARD PCB MOUNT TYPE #4098</p>  <p>For .050" Grid Only</p>	<p>SERIES 540...454 EZ-IN PCB MOUNT TYPE #4054</p>  <p>For .050" Grid Only</p>
<p>SERIES 599...453 SURFACE MOUNT TYPE #9953</p>  <p>For 0,8mm Grid Only</p>	<p>SERIES 599...428 SURFACE MOUNT TYPE #9928</p>  <p>For 1mm Grid Only</p>	<p>SERIES 582...414 SURFACE MOUNT TYPE #8214</p>  <p>For .050" Grid Only</p>
<p>Visit www.mill-max.com/bga to configure a formal part number</p>	<p>SPECIFY PLATING CODE XX =</p> <p>Sleeve (Pin)  11  10 μ" Au</p> <p>Contact (Clip)  10 μ" Au</p>	<p>SPECIFY PLATING CODE XX =</p> <p>Pin Plating  10  10 μ" Au</p>



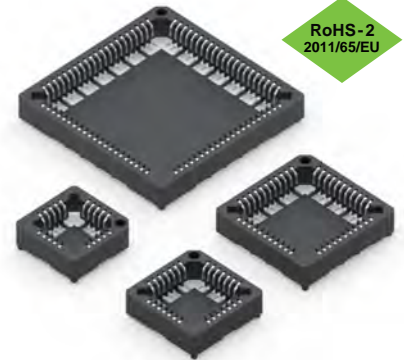
STANDARD PLCC SOCKETS

SERIES 940 • SURFACE MOUNT



RECTANGULAR *

- Note: Not end stackable
- Accepts JEDEC PLCCs MO-047 and MO-052
- Low profile for high density PC board stacking
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 150 μ" tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PCB LAYOUT FOR SURFACE MOUNT

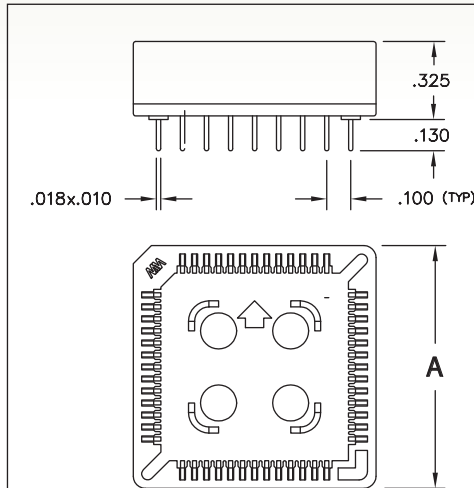
Number of Contacts	Ordering Information	- A -	- B -	- C -	Qty. per Tube	Qty. per Reel
20	940-44-020-17-40000X	0.613	0.200	0.334	32	470
28	940-44-028-17-40000X	0.713	0.300	0.434	27	390
32 *	940-44-032-17-40000X *	0.813 / .713	0.400 / .300	0.534 / .434	24	390
44	940-44-044-17-40000X	0.900	0.500	0.634	21	250
52	940-44-052-17-40000 ⁴ (Only)	1.013	0.600	0.734	19	250
68	940-44-068-17-40000X	1.213	0.800	0.934	16	220
84	940-44-084-17-40000X	1.413	1.000	1.134	14	200

Packaging Codes: X = 0 (Tubes)
X = 4 (Tape & Reel)



STANDARD PLCC SOCKETS

SERIES 940 • THROUGH-BOARD MOUNT

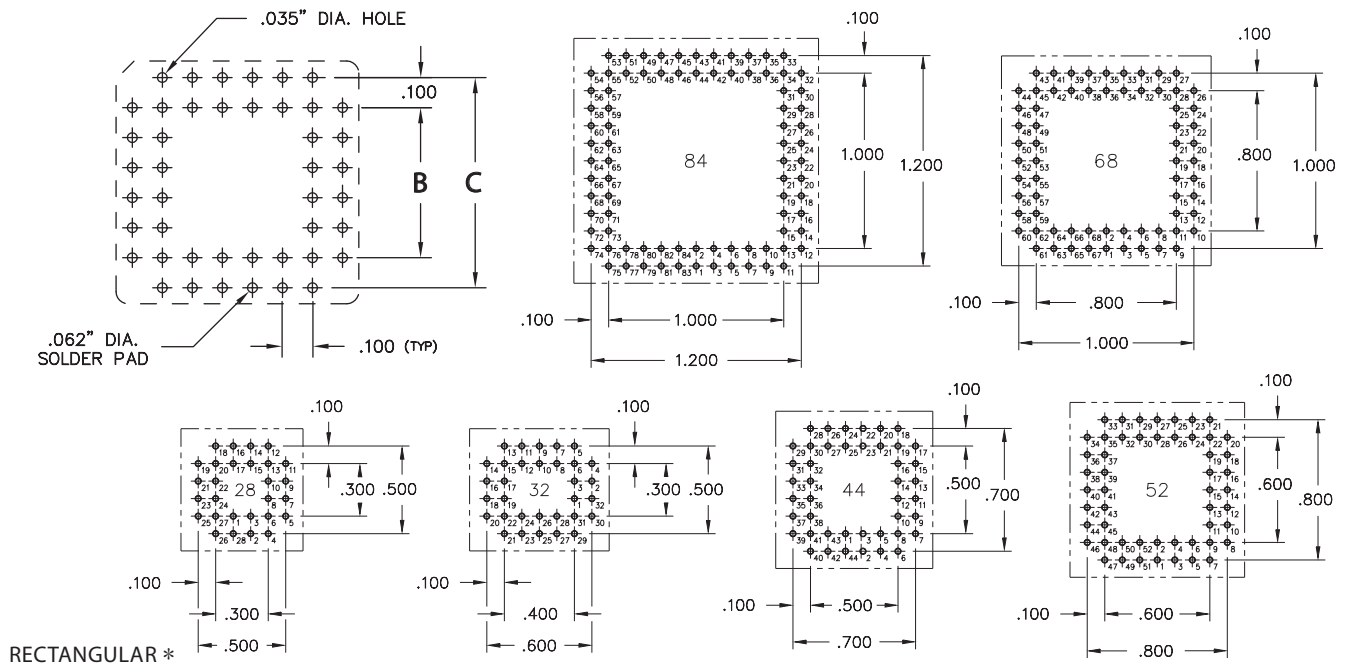


- Note: Not end stackable
- Accepts JEDEC PLCCs MS-016 & MS-018 leaded plastic substrates
- Internal standoffs insure proper positioning of chip carrier in socket
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 150 μ m tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PRINTED CIRCUIT DRILLING PATTERNS (TOP VIEW)

.035" dia. min. mounting holes

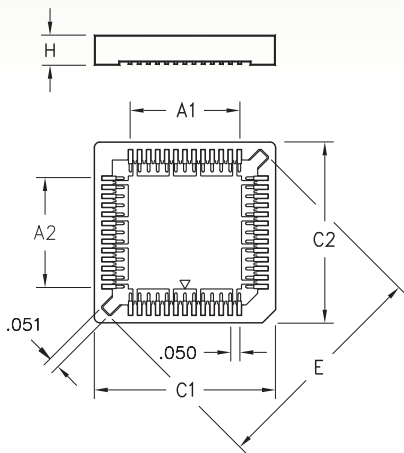


Number of Contacts	Ordering Information	- A -	- B -	- C -	Quantity per Tube
20	940-44-020-24-000000	0.613	0.200	0.400	38
28	940-44-028-24-000000	0.713	0.300	0.500	33
32 *	940-44-032-24-000000 *	0.813 / .713	0.400 / .300	0.600 / .500	29
44	940-44-044-24-000000	0.913	0.500	0.700	26
52	940-44-052-24-000000	1.013	0.600	0.800	23
68	940-44-068-24-000000	1.213	0.800	1.000	19
84	940-44-084-24-000000	1.413	1.000	1.200	16
100	940-44-100-24-000000	1.603	1.200	1.400	25
	Plating Code 44 \blacklozenge = 150 μ m Sn				

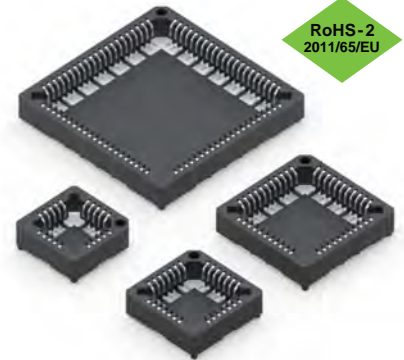


COMPACT PLCC SOCKETS

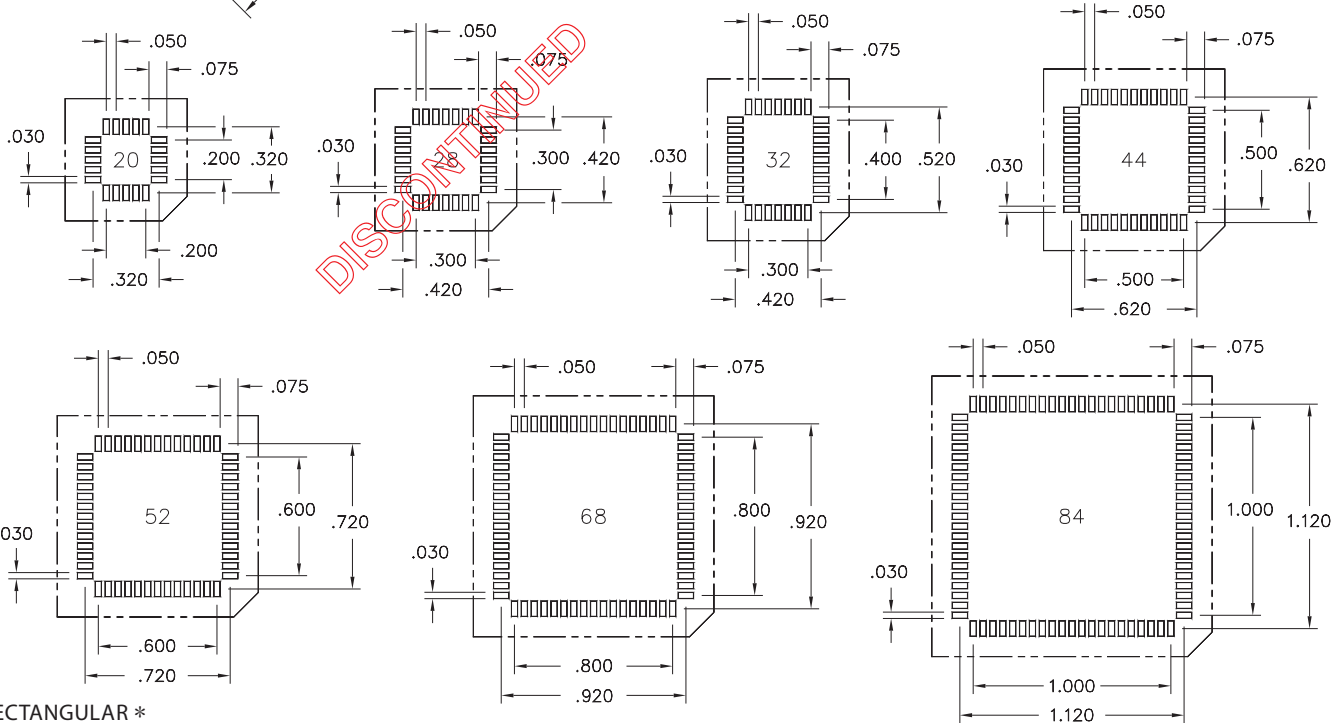
SERIES 540 • SURFACE MOUNT



- Note: Not end stackable
- Designed for JEDEC type devices
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads
- Contacts are plated with 150 μ tin
- The insulator is molded PPS (Ryton R-4)
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PCB LAYOUT FOR SURFACE MOUNT



RECTANGULAR *

Number of Contacts	Ordering Information	- A1 -	- A2 -	- C1 -	- C2 -	- E -	- H -	Qty. per Tube	Tape Width mm	Qty. per Reel
20	540-44-020-17-40000X	0.200	0.200	0.585	0.585	0.657	0.180	34	24	490
28	540-44-028-17-40000X	0.300	0.300	0.685	0.685	0.799	0.180	29	32	400
32 *	540-44-032-17-40000X *	0.300	0.400	0.670	0.770	0.885	0.148	26	32	400
44	540-44-044-17-40000X	0.500	0.500	0.885	0.885	1.082	0.180	22	44	250
52	540-44-052-17-40000X	0.600	0.600	1.000	1.000	1.224	0.180	20	44	250
68	540-44-068-17-40000X	0.800	0.800	1.202	1.202	1.507	0.180	16	44	220
84	540-44-084-17-40000X	1.000	1.000	1.400	1.400	1.791	0.180	14	56	200
Packaging Codes: X = 0 (Tubes) X = 4 (Tape & Reel)										





WWW.MILL-MAX.COM

IO SOCKETS



SERIES 896, 897 • UNIVERSAL SERIAL BUS 3.0 • SOCKETS

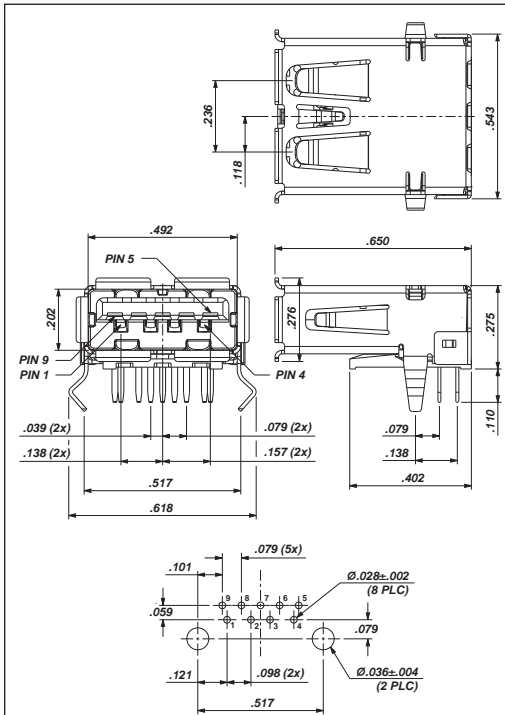


FIG. 1

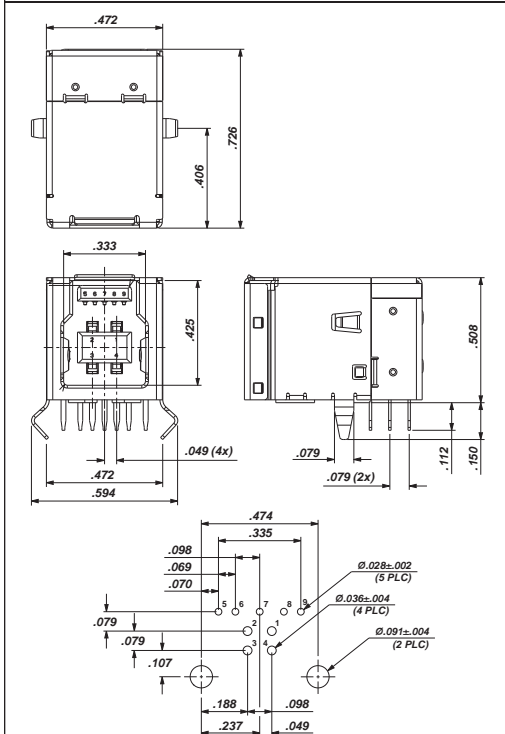


FIG. 2

- USB 3.0 receptacles for through-hole mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully backwards compatible with USB 2.0
- 10X faster than USB 2.0 and provides optimized power efficiency
- Packaged in trays:
896-46-009-90-300000 - 100 pieces per tray
897-46-009-90-300000 - 80 pieces per tray



ORDERING INFORMATION

FIG. 1	USB 3.0 Type A Receptacle, Single, Through-Hole
	896-46-009-90-300000
FIG. 2	USB 3.0 Type B Receptacle, Single, Through-Hole
	897-46-009-90-300000

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
 Contacts: Copper Alloy, Gold Flash over PdNi
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0



Ratings:

Voltage: 30VAC (rms)
 Current: 1.5A PWR/GND pins
 All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max. for power and ground pins
 50mΩ max. for all others
 Insulation resistance: 100MΩ min.
 Dielectric withstanding voltage: 100VAC at sea level
 Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. VII, letter D
 Physical shock: No discontinuity >1μs per EIA 364-27, condition H
 Durability: 5000 cycles min. per EIA 364-09
 Mating force: 35 Newtons max. per EIA 364-13
 Unmating force: Initial - 10 Newtons min. per EIA 364-13
 After test - 8 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
 Humidity per EIA 364-31
 Temperature life per EIA 364-17, method A
 Solderability per EIA 364-52, category 2

SERIES 896, 897 • UNIVERSAL SERIAL BUS • SOCKETS

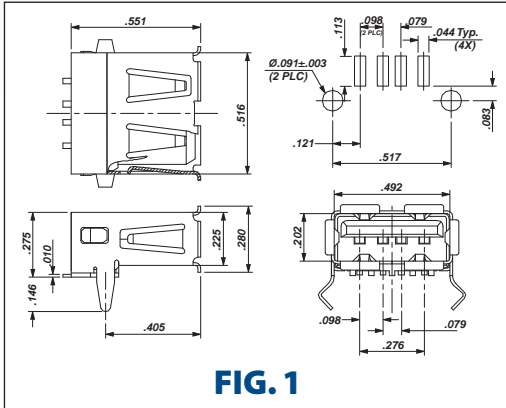


FIG. 1

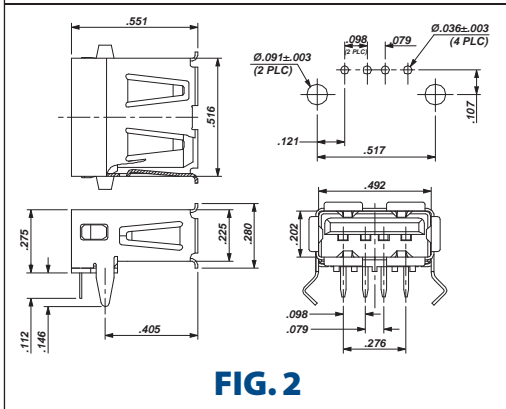


FIG. 2

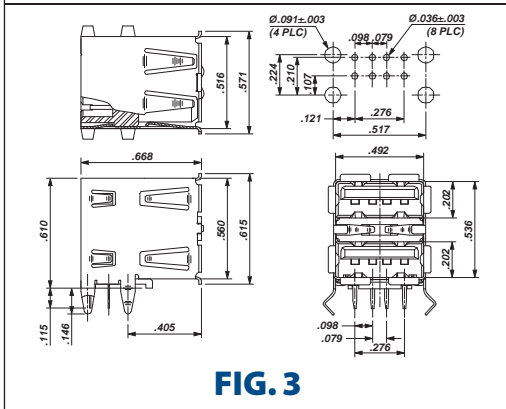


FIG. 3

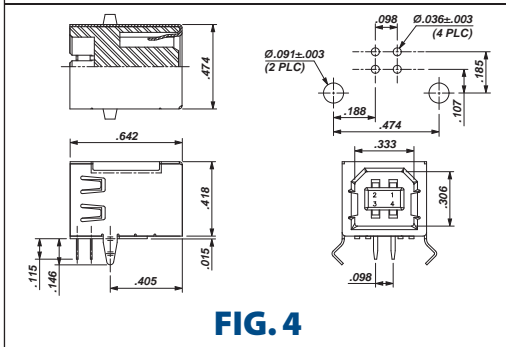


FIG. 4

- USB receptacles for through-hole and surface mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully compatible with USB 1.0 and 2.0 specifications
- Passes 16MHz signal attenuation per ASTM-D-4566
- Packaged in trays, 150 pieces per tray



ORDERING INFORMATION

FIG. 1	Type A Receptacle, Single, Surface Mount
	896-43-004-00-000000
FIG. 2	Type A Receptacle, Single, Through-Hole
	896-43-004-90-000000
FIG. 3	Type A Receptacle, Double, Through-Hole
	896-43-008-90-000000
FIG. 4	Type B Receptacle, Single, Through-Hole
	897-43-004-90-000000

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
 Current: 1A max. per contact for 30°C temperature rise
 All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max.
 Insulation resistance: 1000MΩ min.
 Dielectric withstanding voltage: 750VAC at sea level
 Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A
 Physical shock: No discontinuity >1μs per EIA 364-27, condition H
 Durability: 1500 cycles min. per EIA 364-09
 Mating force: 35 Newtons max. per EIA 364-13
 Unmating force: 10 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
 Humidity per EIA 364-31, method II, condition A
 Temperature life per EIA 364-17, condition 3, method A



SERIES 897 • UNIVERSAL SERIAL BUS 3.0 MICRO-B • SURFACE MOUNT SOCKETS

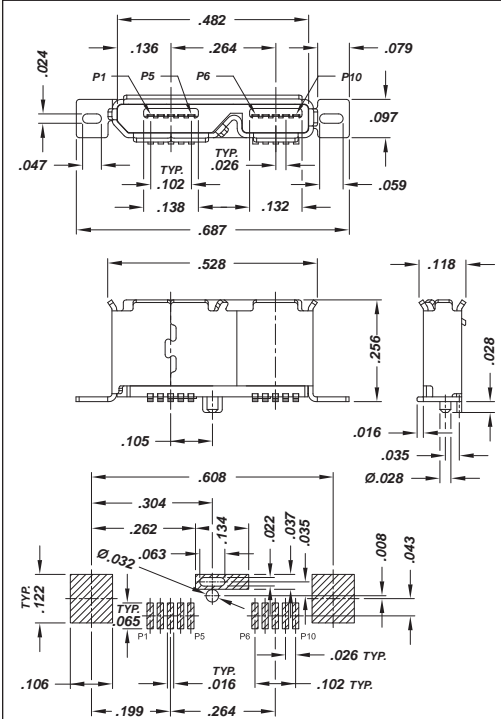


FIG. 1

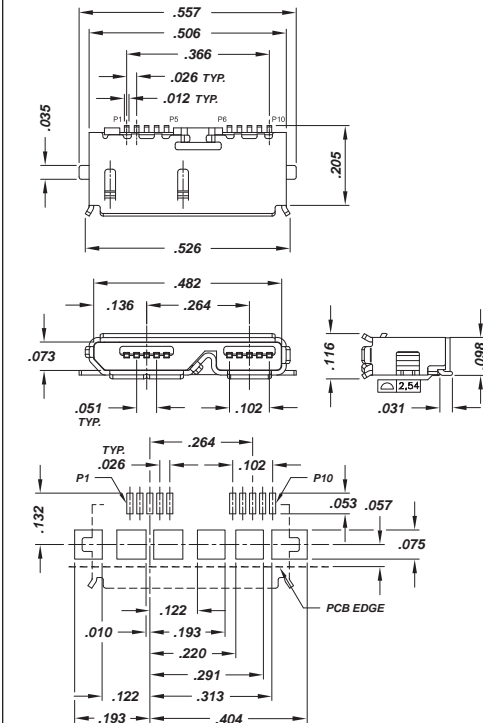


FIG. 2

- USB 3.0 Micro-B receptacles for surface mount
- Reduced mounting space
- Fully shielded
- Fully backwards compatible with USB 2.0
- 10X faster than USB 2.0 and provides optimized power efficiency
- Smaller and lighter than existing USB connectors, for portable & handheld devices
- Packaged on Tape and Reel:
897-10-010-00-300002 - 900 pieces per reel
897-10-010-40-300002 - 1,500 pieces per reel



ORDERING INFORMATION

FIG. 1	Micro Type B Receptacle, Single, Vertical Surface Mount
	897-10-010-00-300002
FIG. 2	Micro Type B Receptacle, Single, Surface Mount
	897-10-010-40-300002

Technical Specifications

Materials:

Terminals: Copper Alloy, Gold Flash over Ni
Contacts: Copper Alloy, 15 μ" Gold-Plated over Ni
Shell material: Stainless Steel, Nickel-Plated
Insulator material: High temperature LCP thermoplastic rated UL94V-0



Ratings:

Voltage: 30VAC (rms)
Current: 1.5A (Pin 1 and 5), .25A (other pins)
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max. (Pin 1 and 5)
50mΩ max. (other pins)
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC for 1 minute at sea level

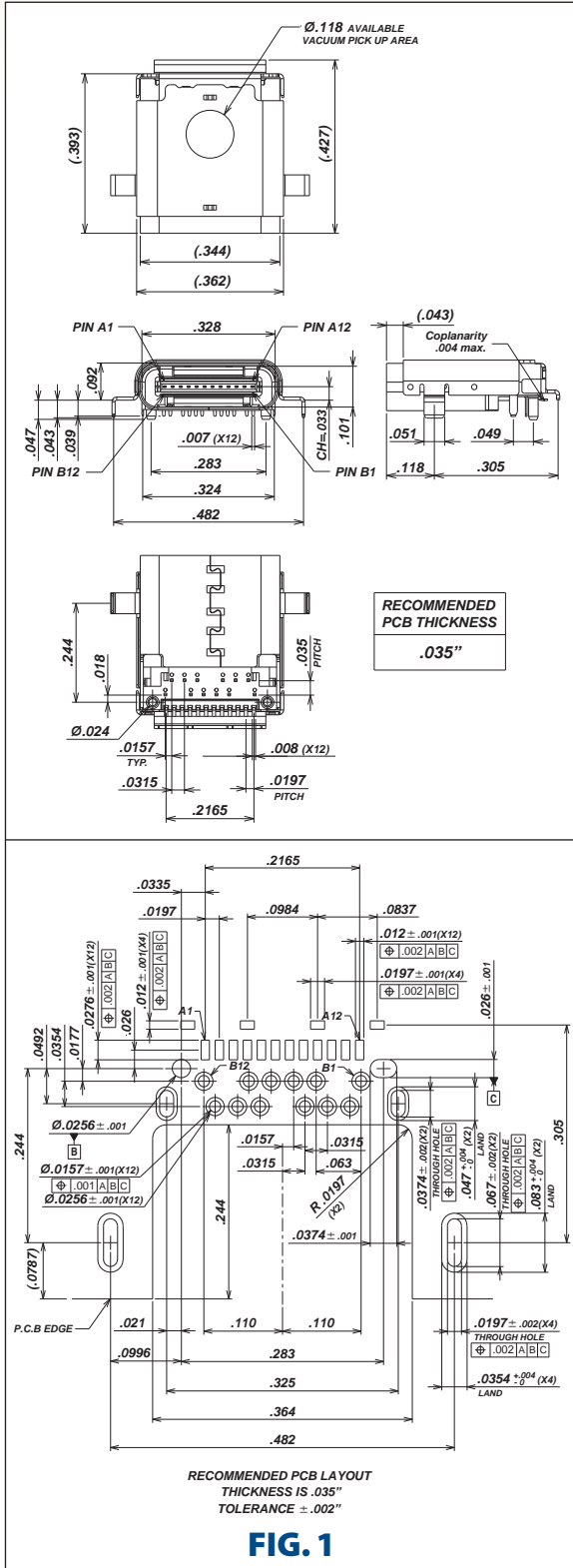
Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A
Durability: 10,000 cycles max. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 10 Newtons min. per EIA 364-13
After test - 8 Newtons min. per EIA 364-13

Environmental:

Operating Temperature Range: -40°C to +85°C
Humidity per EIA 364-31, method II, condition A
Temperature Life per EIA 364-17, condition 3, method A
Solderability per EIA 364-52, category 2 (260°C for 3 seconds)

SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • MID-MOUNT RECEPTACLE



- USB 3.1 Mid-Mount, Hybrid Layout
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive & Home Entertainment



ORDERING INFORMATION

FIG. 1	Mid-Mount Type C Receptacle, Hybrid Layout
	898-43-024-90-310000
(Tape & Reel Packaged, 900 parts per 13" reel)	

Technical Specifications

Materials:

- Terminals: Copper Alloy, Tin-Plated
- Contacts: Copper Alloy, 30 μ" Gold-Plated
- Casing and Shield: Stainless Steel
- Insulator material: High temperature thermoplastic rated UL94V-0



General Specifications:

- Temperature Range:
- Operating: -55°C to +85°C
- Nominal: +20°C

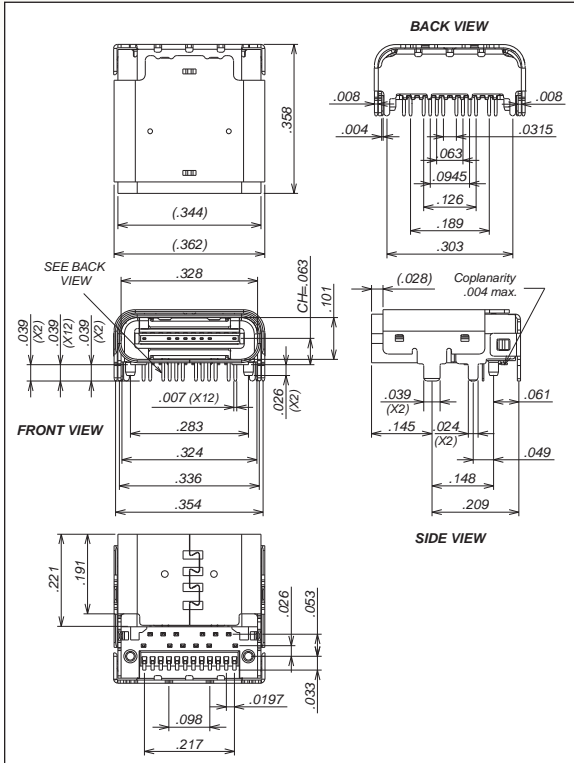
Electrical:

- Voltage: 50VAC (rms)
- LLCR: 40mΩ (initial), Δ10mΩ (after)
- Dielectric Strength: 100VAC
- Insulation resistance: 100MΩ min.
- Current Rating: VBUS and GND contacts rated @ 1.25A each, paralleled for a total of 5A

Mechanical:

- Durability: 10,000 cycles
- Insertion force: 20 Newtons max.
- Extraction force: 8 Newtons min., 20 Newtons max.

SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • TOP MOUNT RECEPTACLE



- USB 3.1 Top Mount, Hybrid Layout
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive & Home Entertainment



ORDERING INFORMATION

FIG. 1	Top Mount Type C Receptacle, Hybrid Layout
	898-73-024-90-310001
(Tape & Reel Packaged, 550 parts per 13" reel)	

Technical Specifications



Materials:

- Terminals: Copper Alloy, Tin-Plated
- Contacts: Copper Alloy, 30 μ m Gold-Plated
- Casing and Shield: Stainless Steel
- Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

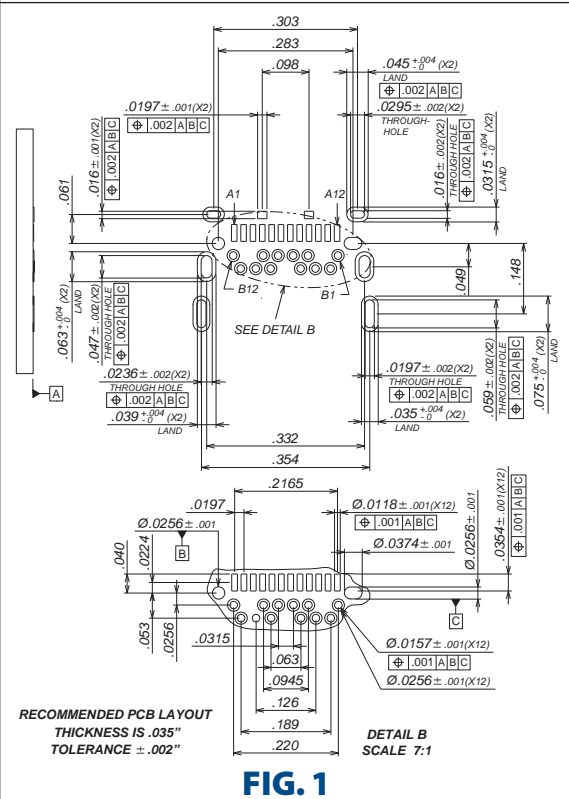
- Temperature Range:
- Operating: -55°C to +85°C
- Nominal: +20°C

Electrical:

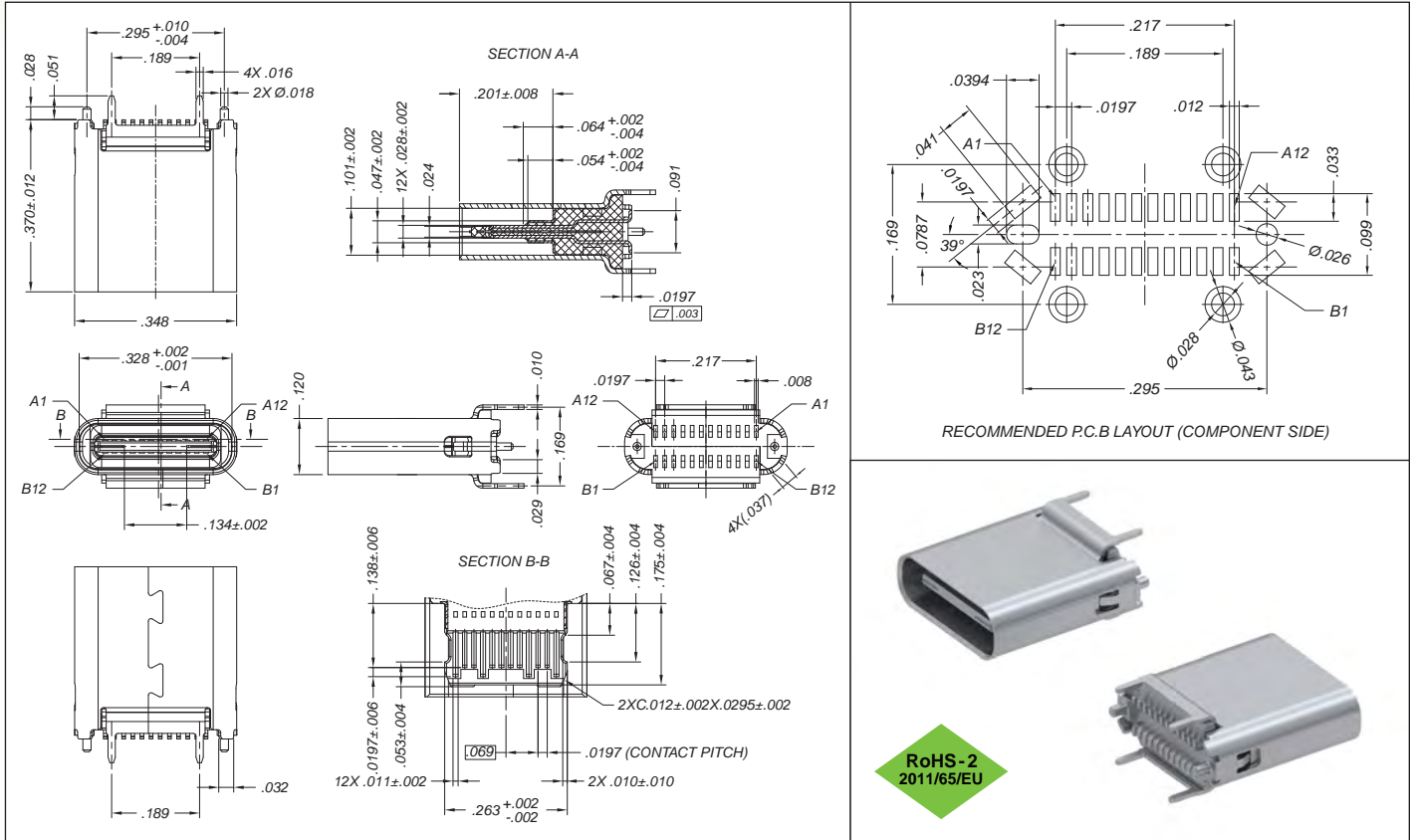
- Voltage: 50VAC (rms)
- LLCR: 40m Ω (initial), Δ 10m Ω (after)
- Dielectric Strength: 100VAC
- Insulation resistance: 100M Ω min.
- Current Rating: VBUS and GND contacts rated @ 1.25A each, paralleled for a total of 5A

Mechanical:

- Durability: 10,000 cycles
- Insertion force: 20 Newtons max.
- Extraction force: 8 Newtons min., 20 Newtons max.



SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • VERTICAL SURFACE MOUNT



Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
 Contacts: Copper Alloy, 30 μ" Gold-Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

Temperature Range:
 Operating: -40°C to +85°C
 Nominal: +20°C

Electrical:

Voltage: 50VAC (rms)
 LLCR: 40mΩ max. (initial), Δ10mΩ (Test cond. 20mV, 100mA)
 Dielectric Strength: 100VAC
 Insulation resistance: 100MΩ min.
 Current Rating: 5A for VBUS pin, 1.25A for VCONN pin

Mechanical:

Durability: 10,000 cycles
 Insertion force: 5-20 Newtons
 Extraction force: 8-20 Newtons after test

ORDERING INFORMATION

Vertical Surface Mount Type C Receptacle

898-43-024-00-310002

(Packaged in trays: 100 pieces per tray)

- USB 3.1 Vertical Surface mount, Type C
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive and Home Entertainment

SERIES 896, 897 • MINI UNIVERSAL SERIAL BUS • SURFACE MOUNT SOCKETS

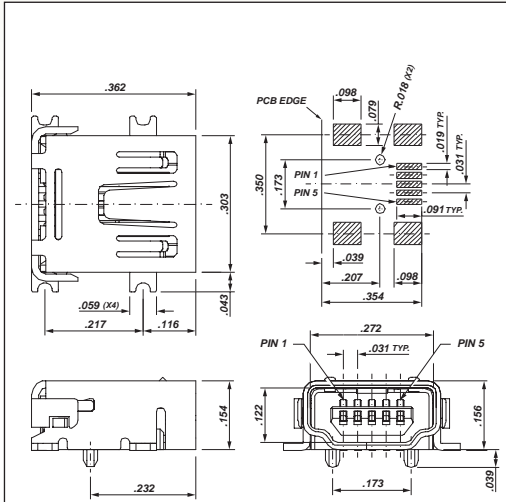


FIG. 1

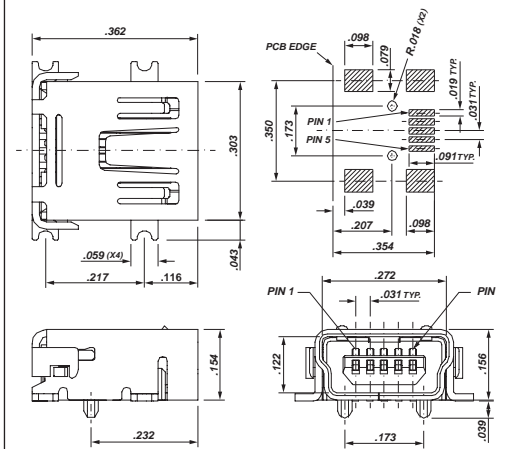


FIG. 2

- Mini USB receptacles for surface mount
- 5 Pin (one ID Pin), 0.8mm pitch, mini USB connector
- Reduced mounting space
- Fully Shielded
- Fully compliant with current USB 2.0 specifications
- Smaller and lighter than standard USB connectors for portable & handheld devices
- Packaged on Tape and Reel:
896-43-005-00-100001 - 800 pieces per reel
897-43-005-00-100001 - 700 pieces per reel



ORDERING INFORMATION

FIG. 1	Mini Type A Receptacle, Single, Surface Mount
	896-43-005-00-100001
FIG. 2	Mini Type B Receptacle, Single, Surface Mount
	897-43-005-00-100001

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin Plated
 Contacts: Copper Alloy, 30 μ" Gold Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0



Ratings:

Voltage: 30VAC (rms)
 Current: 1A max. per contact for 30°C temperature rise
 All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 50mΩ max.
 Insulation resistance: 100MΩ min.
 Dielectric withstanding voltage: 100VAC at sea level
 Capacitance: 2pF max.

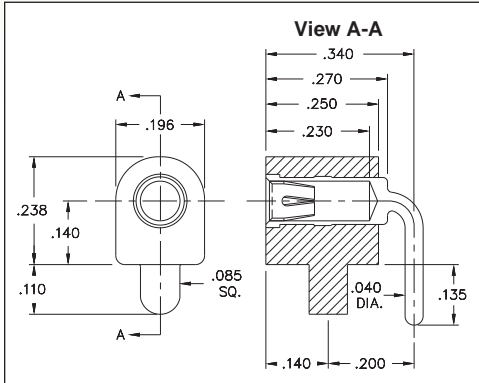
Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A
 Physical shock: No discontinuity >1μs per EIA 364-27, condition H
 Durability: 5000 cycles min. per EIA 364-09
 Mating force: 35 Newtons max. per EIA 364-13
 Unmating force: Initial - 7 Newtons min. per EIA 364-13
 After test - 3 Newtons min. per EIA 364-13
 Cable pull-out force per EIA 364-38

Environmental:

Thermal shock per EIA 364-32, condition I
 Humidity per EIA 364-31, method II, condition A
 Temperature life per EIA 364-17, condition 3, method A
 Solderability per EIA 364-52, category 2

SERIES 395...3XX • RIGHT ANGLE SOCKET • TEST POINT



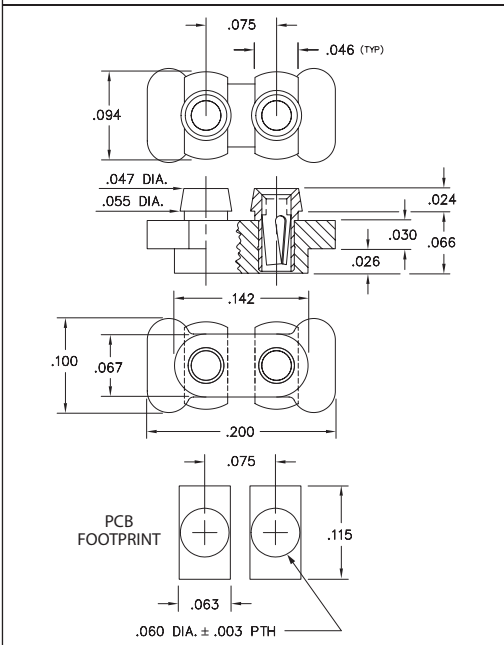
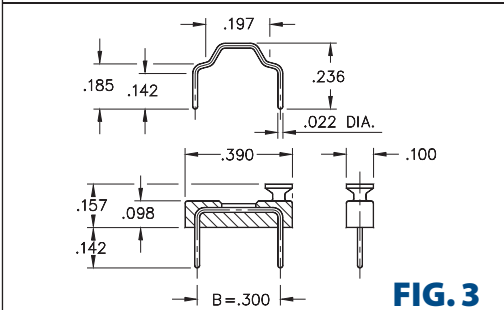
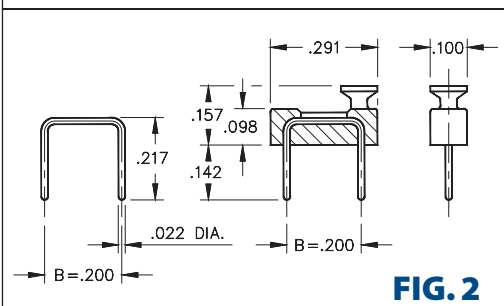
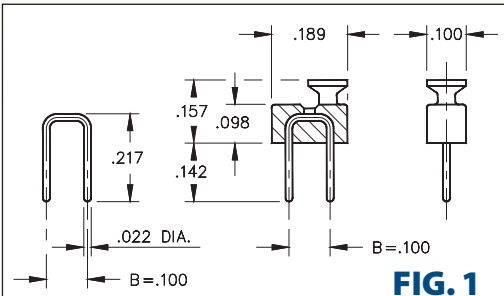
- Available to accept 3 pin sizes: 1, 1.5, & 2mm
- Uses high temperature PCT polyester insulator
- Standard insulator color is black
- For Electrical, Mechanical and Environmental Data, see page 264 for details



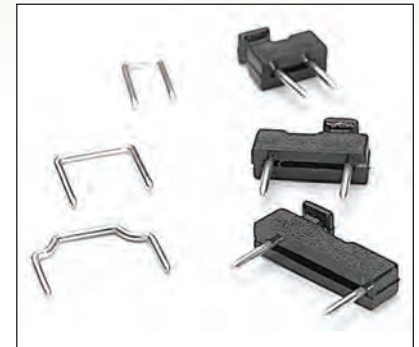
Pin Size	ORDERING INFORMATION						
1.0mm	395-XX-101-34-340000						
1.5mm	395-XX-101-03-380000						
2.0mm	395-XX-101-07-350000						
<p>RECOMMENDED MOUNTING HOLES</p> <p>XX=Plating Code See Below</p> <p style="text-align: right; color: green; font-weight: bold;">RoHS-2 2011/65/EU</p>							
SPECIFY PLATING CODE XX =	13 ◆		93				
Sleeve (Pin)	10 μ" Au		200 μ" Sn/Pb				
Contact (Clip)	30 μ" Au		30 μ" Au				

IO SOCKETS

SERIES 388, 999 • MALE SHORTING JUMPERS & MICROPHONE SOCKETS



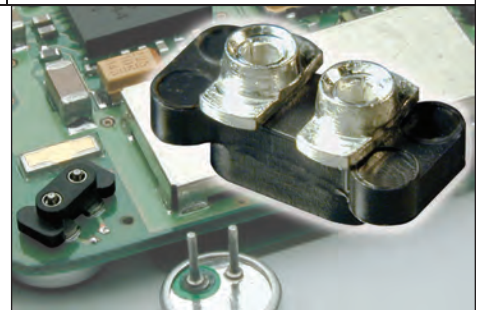
- Male shorting jumpers are available with or without insulator and have .022" diameter pins with .100", .200" or .300" center spacing
- Insulator materials are not high temperature
- For Electrical, Mechanical & Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG. 1	Male Shorting Jumper .100" Spacing	
	Color / Style	Plating 10 μ" Au
	Black	999-11-210-10-000000
	Not Insulated	999-11-110-10-000000
FIG. 2	Male Shorting Jumper .200" Spacing	
	Color / Style	Plating 10 μ" Au
	Black	999-11-220-10-000000
	Not Insulated	999-11-112-10-000000
FIG. 3	Male Shorting Jumper .300" Spacing	
	Color / Style	Plating 10 μ" Au
	Black	999-11-230-10-000000
	Not Insulated	999-11-113-10-000000

- Series 388 microphone socket is a bottom entry socket for microphones having Ø.018" pins on .075" centers
- Designed to be surface mount and intrusive reflow soldered
- Series 388 uses MM #8874 pins. See page 159 for details
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Insulator is high temperature Nylon 46, rated UL 94 V-0



Ordering Information Microphone Socket

	388-XX-102-11-740800 (Discrete socket)					
	Plating Code 388-XX-102-11-740799 (Tape and Reel) (Supplied on 12mm wide carrier tape per EIA-481: 6,500 per 13" reel)					
SPECIFY PLATING CODE XX=				99		44
Sleeve (Pin)				200 μ" Sn/Pb		200 μ" Sn
Contact (Clip)				200 μ" Sn/Pb		200 μ" Sn





WWW.MILL-MAX.COM

PIN RECEPTACLES



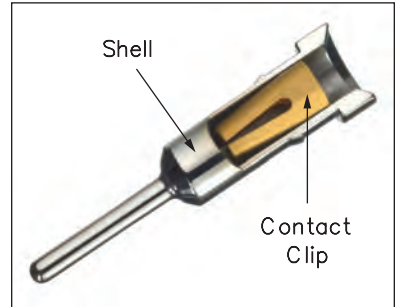


WWW.MILL-MAX.COM

The basic component used for making electrical connections in a wide array of electronic equipment is the pin receptacle. The Mill-Max pin receptacle provides a highly reliable, low resistance electrical path to terminate the pins of a device or discrete wires to a PCB or other mating apparatus such as cables, modules or other pins and wires. Assembled into sockets i.e. DIP, SIP, PGA, etc. or used discretely, receptacles make devices and modules pluggable for repair and replacement. The machined shell or housing of pin receptacles is available in various styles depending on the application, e.g. low profile, elevated, press-fit, SMT. The terminal end of pin receptacles has many variations: a round solder tail, a press-fit tail, a surface mount base, crimp barrel, soldercup, swage feature or no tail.



Inside every Mill-Max receptacle is a contact clip. A contact clip is a conductive, multi-finger, progressive die stamping. The standard material is beryllium copper and for high temperature applications, beryllium nickel is used. Both materials are heat treated to achieve optimal spring characteristics & durability. The contact clip engages, scores and holds the mated pin making an electrical and gas tight connection at 3, 4 or 6 points of contact, depending on the selected contact. Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.



Mill-Max currently offers over 39 styles of contacts to engage pins from .008" to .102" in diameter. A convenient contact selector chart is located on page 248 showing the different specifications of each contact.



Pin receptacles can be utilized as discrete connectors for the plugging and unplugging of components on PC boards. They can be utilized individually or in random arrays where the usage is small. They can be handled and loaded manually in preparation for soldering or, with a different style shell, for press-fitting. When the requirement is for volume placement of receptacles, socket carriers or tape and reel packaging are tremendous labor-saving solutions for our customers.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloys 360/385: .062/.072/.078/.093/.125/.156/.187/.250 diameters

PHOSPHOR BRONZE Alloy 544: .062/.072/.078 diameters

TELLURIUM COPPER Alloy 145: .079/.093/.125/.156 diameters

Mill-Max will gladly quote application specific products. Please complete the specification sheet on page 247 or send us your own drawings. We assure you a fast response.



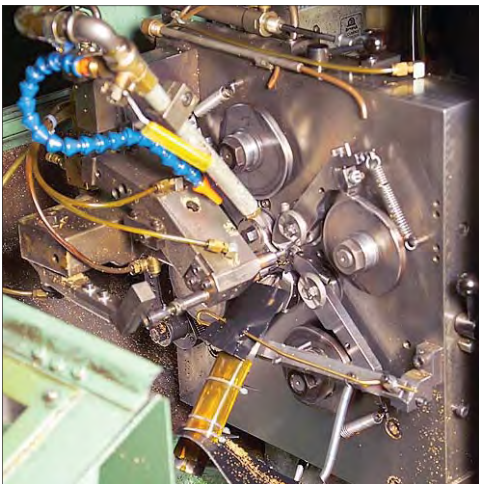
CUSTOM MACHINING CAPABILITY

DON'T SEE QUITE WHAT YOU'RE LOOKING FOR IN THE PIN & RECEPTACLE SECTION OF THE CATALOG?

Mill-Max's unique high-speed precision-machining capability enables us to provide custom-designed pins or receptacles tailored to meet your specific requirement.

With over 200 high-speed turning machines on our premises in Oyster Bay, NY, Mill-Max is readily equipped to provide custom pins, terminals and receptacles to your exacting specifications.

Moreover, our in-house, state-of-the-art plating equipment allows us to plate your custom pin with a selection of industry standard finishes. Initial quantities are typically shipped in 5-6 weeks.



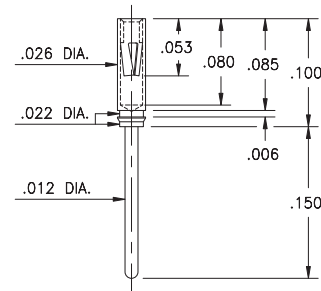
PIN RECEPTACLES

**FOR .008" - .013" DIAMETER PINS (#04 CONTACT)
AND .012" - .017" DIAMETER PINS (#10 CONTACT)
(SEE SPECIFIC CONTACT RANGE ON PAGE 250)**

8210

8210-0-15-15-04-27-04-0

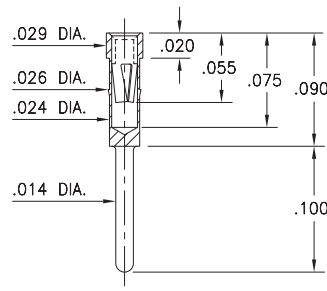
Press-fit in .024/.027 stepped hole



0439

0439-0-15-15-04-27-04-0

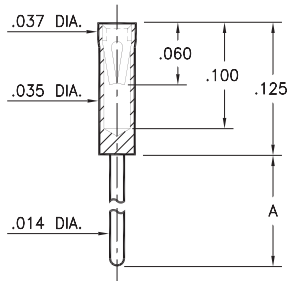
Press-fit in .025 mounting hole



X464

X464-X-15-XX-10-XX-04-0

Solder mount in .016 min. mounting hole

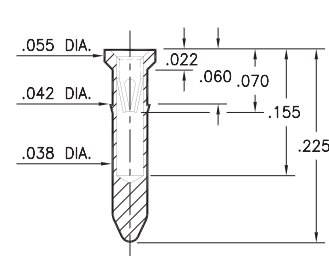


Basic Part Number	Length A
0464-0	.125
0464-1	.250
6464-0	.275

9225

9225-0-15-XX-10-XX-10-0

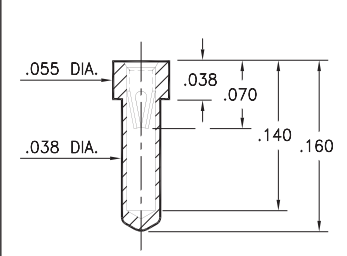
Press-fit in .039 mounting hole



0529

0529-0-15-XX-10-XX-10-0

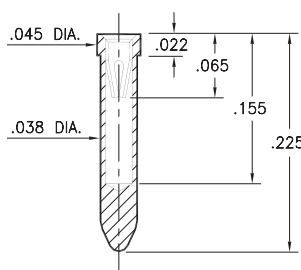
.040 min. mounting hole



8947

8947-0-15-XX-10-XX-10-0

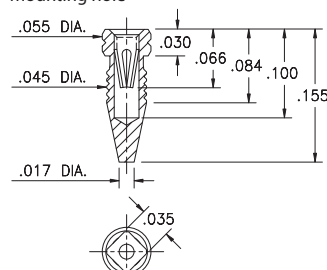
Solder mount in .040 min. mounting hole



4993

4993-0-15-15-10-27-10-0

Compliant press-fit in .041 - .043 Dia. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

**#04 or #10 CONTACT (DATA ON PAGE 250)
(CONTACTS #04 & #10 NOT INTERCHANGEABLE)**



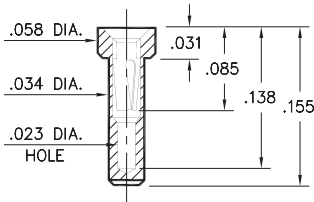
PIN RECEPTACLES

**FOR .015" - .020" DIAMETER PINS (#11 CONTACT)
AND .015" - .022" DIAMETER PINS (#21 CONTACT)
(SEE SPECIFIC CONTACT RANGE ON PAGE 251)**

0548

0548-0-15-XX-21-XX-10-0

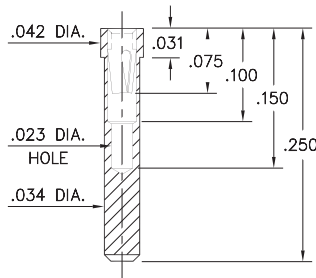
Solder mount in .036 min. mounting hole



8975

8975-0-15-XX-21-XX-10-0

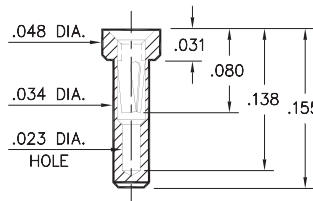
Solder mount in .036 min. mounting hole



3016

3016-0-15-XX-21-XX-10-0

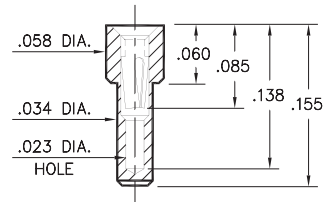
Solder mount in .036 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 13" reel
See page 194.2 for Tape & Reel details



9548

9548-0-15-XX-21-XX-10-0

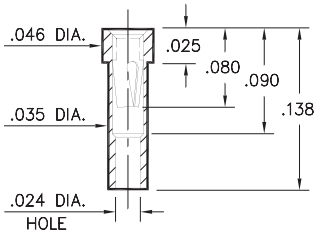
Solder mount in .036 min. mounting hole



8637

8637-0-15-XX-21-XX-10-0

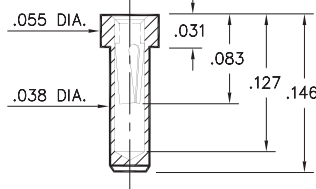
Solder mount in .037 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
See page 194.2 for Tape & Reel details



1407

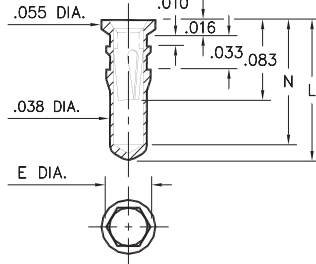
1407-0-15-XX-11-XX-10-0

Solder mount in .040 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 13" reel
See page 194.1 for Tape & Reel details



0553/4553/8553 X553-X-15-XX-X1-XX-10-0

Also available on 16mm wide carrier tape:
1,580 parts per 13" reel
See page 194.1 for Tape & Reel details



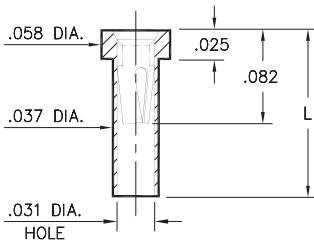
Hex press-fit in .041 plated through-hole
for Part Numbers **0553-X** and **8553-0** ONLY
Hex press-fit in .042 plated through-hole
for Part Number **4553-0** ONLY

Basic Part Number	Hex Dia. E	Length L	Depth N
0553-1	.044	.140	.124
0553-2	.044	.170	.154
0553-3	.044	.282	.266
4553-0	.045	.170	.154
8553-0	.044	.245	.229

0566

0566-X-15-XX-21-XX-10-0

Solder mount in .039 min. mounting hole

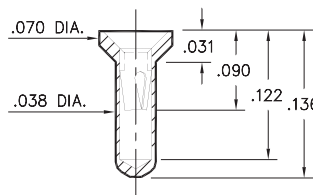


Basic Part Number	Length L
0566-1	.083
0566-2	.138

0442

0442-0-15-XX-11-XX-10-0

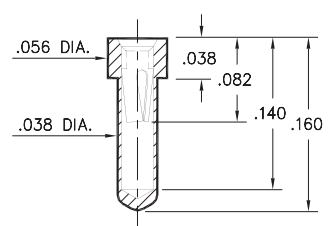
Solder mount in .040 min. mounting hole



0554

0554-0-15-XX-21-XX-10-0

Solder mount in .040 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)



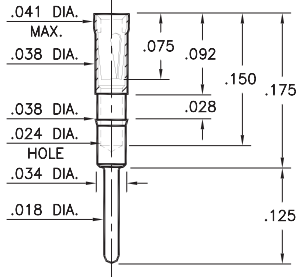
PIN RECEPTACLES

**FOR .015" - .018" DIAMETER PINS (#09 CONTACT)
FOR .015" - .020" DIAMETER PINS (#11 CONTACT)
AND .015" - .022" DIAMETER PINS (#21 CONTACT)**

0467

0467-0-15-XX-21-XX-04-0

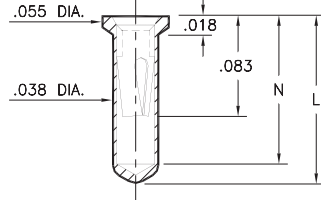
Press-fit in .037 mounting hole



0552

0552-X-15-XX-X1-XX-10-0

Solder mount in .040 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 13" reel
See page 194.2 for Tape & Reel details

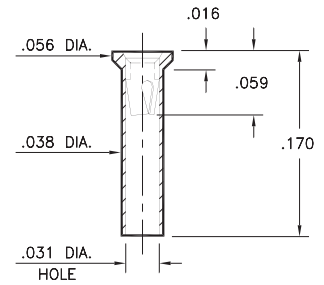


Basic Part Number	Length L	Depth N
0552-1	.136	.120
0552-2	.170	.150

5522

5522-0-15-XX-XX-XX-10-0

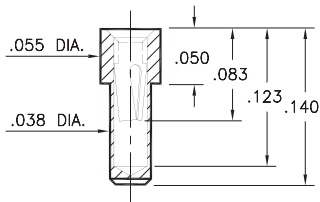
Solder mount in .040 min. mounting hole



0569

0569-0-15-XX-X1-XX-10-0

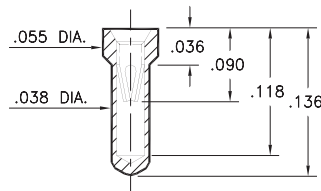
Solder mount in .040 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
See page 194.2 for Tape & Reel details



6023

6023-0-15-XX-21-XX-10-0

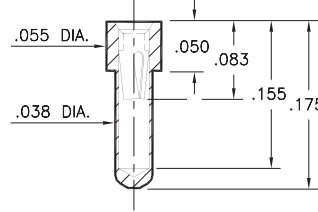
Solder mount in .040 min. mounting hole



6214

6214-0-15-XX-21-XX-10-0

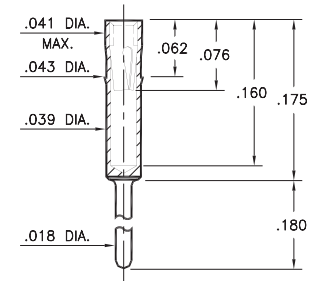
Solder mount in .040 min. mounting hole



2086

2086-0-15-XX-21-XX-04-0

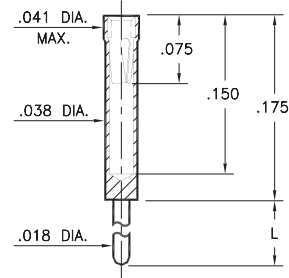
Press-fit in .040 mounting hole



0461

0461-X-15-XX-X1-XX-04-0

Solder mount in .020 min. mounting hole

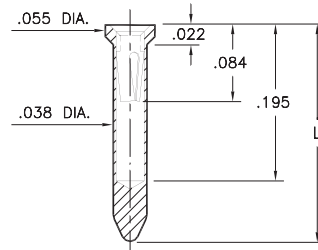


Basic Part Number	Length L
0461-0	.400
0461-1	.275
0461-2	.180
0461-3	.125
0461-4	.060
0461-5	.440

8579

8579-X-15-XX-X1-XX-10-0

Solder mount in .040 min. mounting hole
Also available on 24mm wide carrier tape
See chart for details
See page 194.2 for Tape & Reel details



Basic Part Number	Length L
8579-0	.234
8579-1	.295

T&R Packaging

Basic Part Number	Tape Width	Parts per 13" Reel
8579-0	24mm	1,200
8579-1	24mm	1,000

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#09, #11 or #21 CONTACT (DATA ON PAGES 250 & 251)
(For alternate contact choices, see group A on page 248)



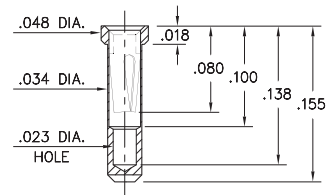
PIN RECEPTACLES

**FOR .015" - .020" DIAMETER PINS (#11 CONTACT)
AND .015" - .022" DIAMETER PINS (#21 CONTACT)
(SEE SPECIFIC CONTACT RANGE ON PAGE 251)**

4716

4716-0-15-XX-21-XX-10-0

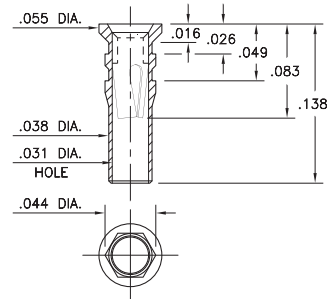
Solder mount in .038 min. mounting hole



6553

6553-0-15-XX-11-XX-10-0

Hex press-fit in .041 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$

Diameters: $\pm .002$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - 15 - XX - X1 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

◆ **80** 200 μ " TIN OVER NICKEL (RoHS)

◆ **15** 10 μ " GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 100 μ " TIN/LEAD OVER NICKEL

◆ **84** 100 μ " TIN OVER NICKEL (RoHS)

◆ **27** 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)

PIN RECEPTACLES

**FOR .015" - .020" DIAMETER PINS (#11 CONTACT)
AND .015" - .022" DIAMETER PINS (#21 CONTACT)
(SEE SPECIFIC CONTACT RANGE ON PAGE 251)**

<p>8467 8467-0-15-XX-21-XX-04-0 Hex press-fit in .036 plated through-hole</p>	<p>6192 6192-0-15-XX-21-XX-04-0 Square press-fit in .032 plated through-hole</p>	<p>9553 9553-0-15-XX-X1-XX-04-0 Hex press-fit in .041 plated through-hole</p>	<p>5531 5531-0-15-XX-21-XX-10-0 Hex press-fit in .041 plated through-hole</p>
<p>7553 7553-0-15-XX-11-XX-10-0 Hex press-fit in .041 plated through-hole</p>	<p>9407 9407-0-15-XX-11-XX-10-0 Solder mount in .040 min. mounting hole</p>	<p>9462 9462-0-15-XX-21-XX-04-0 Hex press-fit in .043 plated through-hole</p>	<p>1147 1147-0-18-XX-21-XX-10-0 Press-fit in .043 min. mounting hole Accepts wire sizes up to .014" dia.</p>
<p>3061 3061-0-19-XX-21-XX-10-0 Wire Crimp Termination. Accepts wire sizes 28 AWG Max. / 32 AWG Min.</p>	<p>0579 0579-0-15-XX-X1-XX-10-0 Press-fit in .040 mounting hole</p>	<p>8874 8874-0-15-XX-11-XX-10-0 Bottom entry surface mount See page 152 for application details</p>	<p>0613 0613-0-15-XX-21-XX-10-0 Press-fit in .047 mounting hole</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - 1X - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 100 μ" TIN/LEAD OVER NICKEL

◆ 84 100 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)



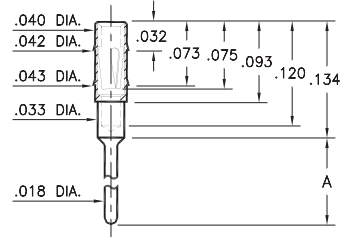
PIN RECEPTACLES

**FOR .015" - .020" DIAMETER PINS (#11 CONTACT)
AND .015" - .022" DIAMETER PINS (#05 & #21 CONTACTS)
(SEE SPECIFIC CONTACT RANGE ON PAGE 251)**

0489

0489-X-15-XX-11-XX-04-0

Press-fit in .041 mounting hole



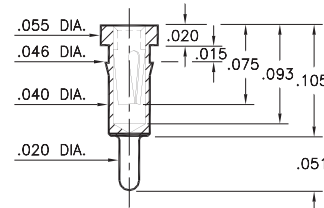
Basic Part Number	Length A
0489-0	.102
0489-1	.199
0489-2	.299

0463

0463-0-15-XX-21-XX-04-0

Press-fit in .043 mounting hole.

Shell is Phosphor Bronze Alloy 544 (B2)

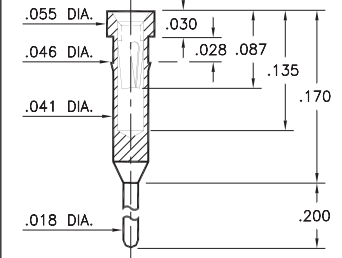


0466

0466-0-15-XX-21-XX-04-0

Press-fit in .043 mounting hole.

Shell is Phosphor Bronze Alloy 544 (B2)

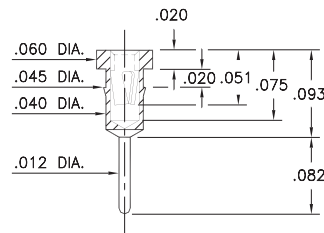


7491

7491-0-15-XX-09-XX-04-0

Press-fit in .042 mounting hole

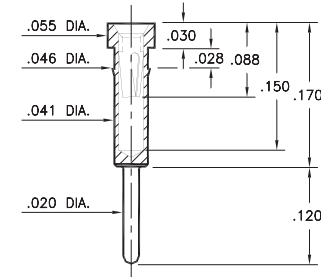
*Contact substitution not recommended



0462

0462-0-15-XX-X1-XX-04-0

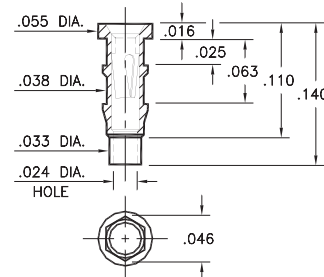
Press-fit in .043 mounting hole



0560

0560-0-15-XX-11-XX-10-0

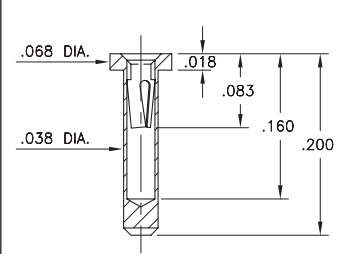
Hex press-fit in .043 plated through-hole



5552

5552-0-15-XX-05-XX-10-0

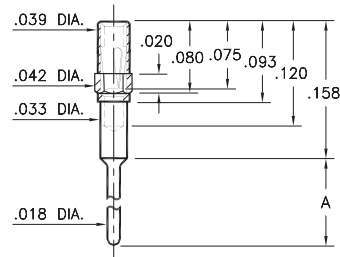
Solder mount in .040 min. mounting hole



4890

4890-X-15-XX-11-XX-04-0

Octagonal press-fit in .041 mounting hole

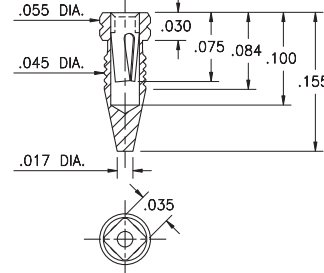


Basic Part Number	Length A
4890-0	.102
4890-1	.199
4890-2	.299

4994

4994-0-15-15-11-27-10-0

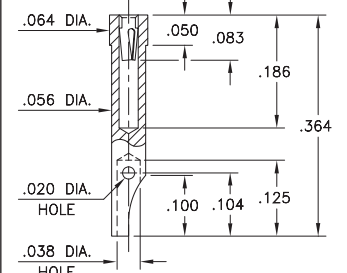
Compliant press-fit in .041 - .044 dia. mounting hole



4485

4485-0-51-XX-21-XX-10-0

Solder mount in .059 min. mounting hole
For wire sizes up to 22 AWG



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#05, #11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)



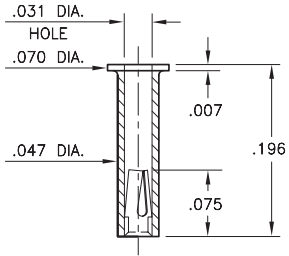
PIN RECEPTACLES

FOR .015" - .022" DIAMETER PINS

6561

6561-0-15-XX-05-XX-10-0

Solder mount in .051 min. mounting hole



<p>6561 6561-0-15-XX-05-XX-10-0 Solder mount in .051 min. mounting hole</p>			

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - XX - XX - 05 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 100 μ" TIN/LEAD OVER NICKEL

◆ 84 100 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#05 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)

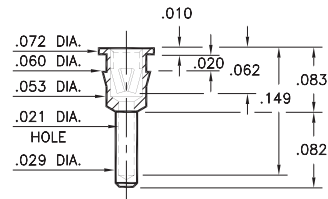
PIN RECEPTACLES

FOR .015" - .022" DIAMETER PINS

0512

0512-0-15-XX-12-XX-04-0

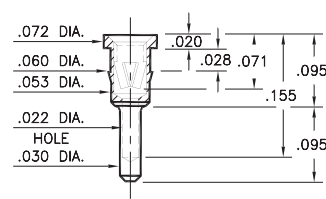
Press-fit in .057 mounting hole



0703

0703-0-15-XX-12-XX-04-0

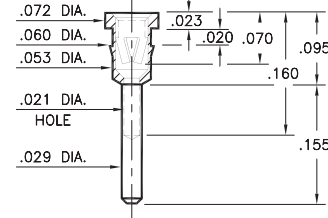
Press-fit in .057 mounting hole



0574

0574-0-15-XX-12-XX-04-0

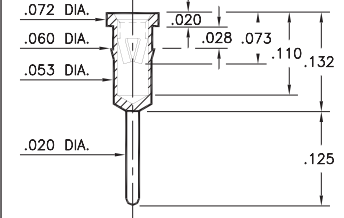
Press-fit in .057 mounting hole



0468 *

0468-0-15-XX-12-XX-04-0

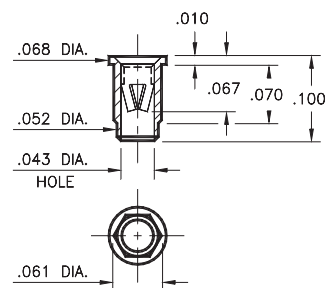
Press-fit in .057 mounting hole



8894 *

8894-0-15-XX-12-XX-10-0

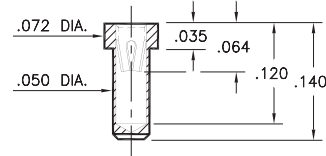
Hex press-fit in .059 plated through-hole



0550 *

0550-0-15-XX-22-XX-10-0

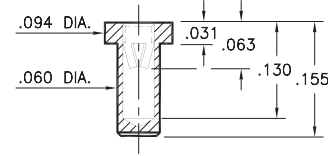
Solder mount in .052 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
See page 194.2 for Tape & Reel details



0671 *

0671-0-15-XX-12-XX-10-0

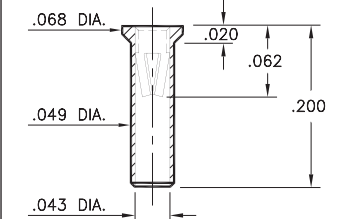
Solder mount in .063 min. mounting hole



0707 *

0707-0-15-XX-12-XX-10-0

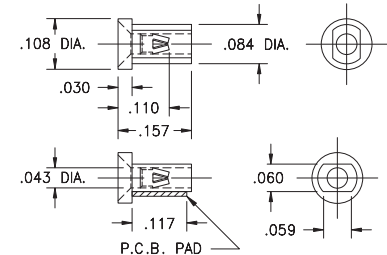
Solder mount in .051 min. mounting hole



5739 *

5739-0-18-XX-12-XX-10-0

Surface mount
Also available on 16mm wide carrier tape:
3,000 parts per 13" reel
See page 194.2 for Tape & Reel details

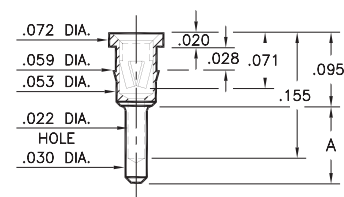


P.C.B. Layout

1534

1534-X-15-XX-12-XX-04-0

Press-fit in .056 mounting hole



Basic Part Number	Length A
1534-0	.095
1534-1	.125

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#12 or #22 CONTACT (DATA ON PAGE 252)

* (Contact may be interchanged with group B or C contact on page 248)



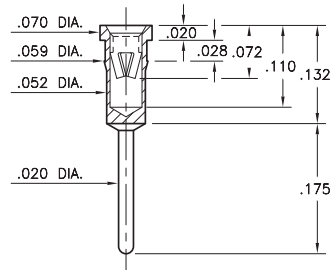
PIN RECEPTACLES

FOR .015" - .022" DIAMETER PINS

9900

9900-0-15-XX-22-XX-04-0

Press-fit in .056 mounting hole



<p>9900 9900-0-15-XX-22-XX-04-0 Press-fit in .056 mounting hole</p>			

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 22 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 100 μ" TIN/LEAD OVER NICKEL

◆ 84 100 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#22 CONTACT (DATA ON PAGE 252)

(For alternate contact choices, see group B on page 248)

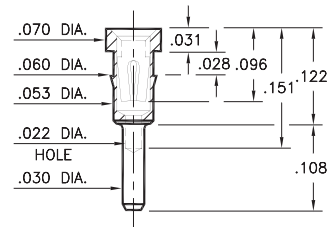
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

0501

0501-0-15-XX-30-XX-04-0

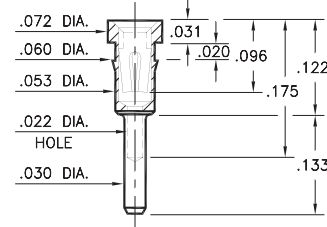
Press-fit in .057 mounting hole



8427

8427-0-15-XX-30-XX-04-0

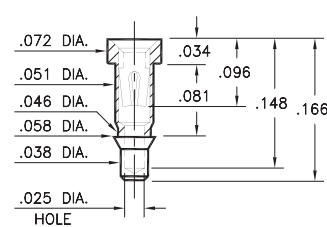
Press-fit in .057 mounting hole



1434

1434-0-15-XX-30-XX-10-0

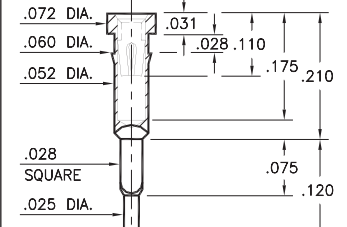
Press-fit in .055 mounting hole



9970

9970-0-15-XX-30-XX-04-0

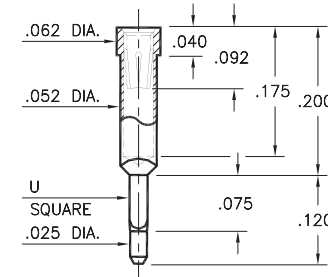
Square press-fit in .032 ± .002 plated through-hole



5970

5970-X-15-XX-32-XX-04-0

Square press-fit for .032 or .039 ± .002 plated through-hole

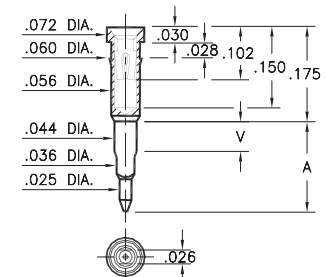


Basic Part Number	U Square	Mounting Hole
5970-1	.028	.032
5970-2	.034	.039

0477/0478

047X-0-18-XX-30-XX-04-0

Solderless press-fit in .038 ± .003 / -.002 plated through-hole (use 1.1mm drill prior to plating)

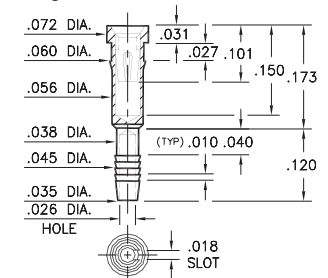


Basic Part Number	Board Thickness	Length V	Length A
0477-0	.062	.075	.175
0478-0	.125	.140	.250

4612

4612-0-31-XX-30-XX-04-0

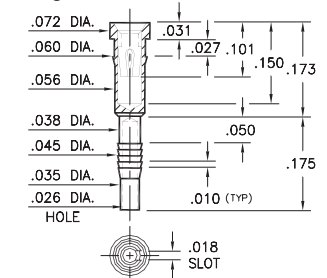
Compliant press-fit in .040 ± .003 plated through-hole. For .060" → .100" thick board



4613

4613-0-31-XX-30-XX-04-0

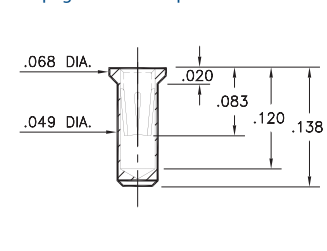
Compliant press-fit in .040 ± .003 plated through-hole. For .090" → .130" thick board



0680

0680-0-15-XX-32-XX-10-0

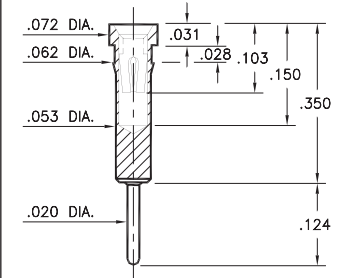
Solder mount in .051 min. mounting hole. Also available on 16mm wide carrier tape: 1,700 parts per 13" reel. See page 194.4 for Tape & Reel details



0149

0149-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± .005

Diameters: ± .002

Angles: ± 2°



ORDER CODE: **XXXX - X - XX - XX - XX - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



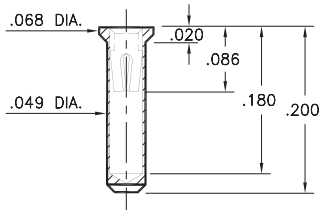
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

0660

0660-0-15-XX-30-XX-10-0

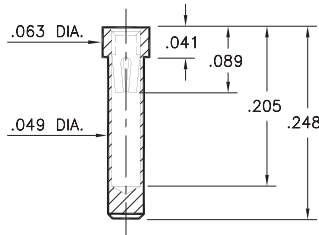
Solder mount in .051 min. mounting hole



0677

0677-0-15-XX-30-XX-10-0

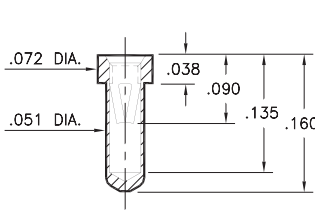
Solder mount in .051 min. mounting hole
Also available on 24mm wide carrier tape:
1,200 parts per 13" reel
Order as: 0677-0-57-XX-30-XX-10-0



0555

0555-0-15-XX-32-XX-10-0

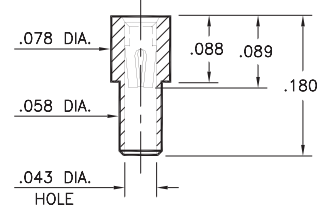
Solder mount in .053 min. mounting hole
Also available on 16mm wide carrier tape:
1,800 parts per 13" reel
See page 194.4 for Tape & Reel details



0558

0558-0-15-XX-30-XX-10-0

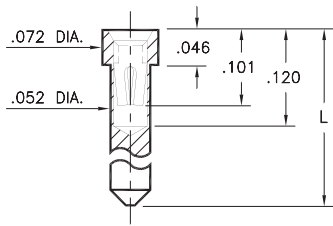
Solder mount in .061 min. mounting hole



0675/0679

067X-0-15-XX-30-XX-10-0

Solder mount in .054 min. mounting hole

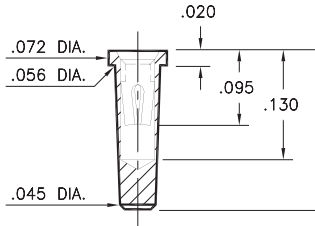


Basic Part Number	Length L
0675-0	.145
0679-0	.203

1065/1066/7065

X06X-0-15-XX-30-XX-10-0

Solder mount in .055 min. mounting hole

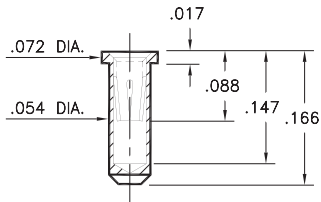


Basic Part Number	Length L
1065-0	.190
1066-0	.160
7065-0	.181

0682

0682-0-15-XX-32-XX-10-0

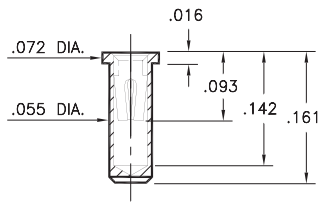
Solder mount in .056 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 13" reel
See page 194.4 for Tape & Reel details



0667

0667-0-15-XX-30-XX-10-0

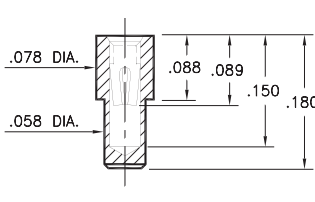
Solder mount in .057 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
See page 194.3 for Tape & Reel details



0665

0665-0-15-XX-30-XX-10-0

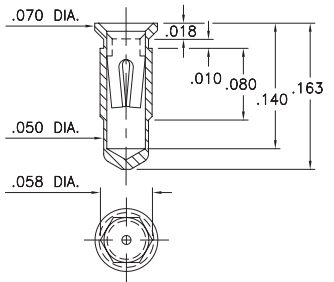
Solder mount in .061 min. mounting hole
Also available on 16mm wide carrier tape:
1,580 parts per 13" reel
See page 194.3 for Tape & Reel details



4286

4286-0-15-XX-30-XX-10-0

Hex press-fit in .055 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 100 μ" TIN/LEAD OVER NICKEL

◆ 84 100 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)

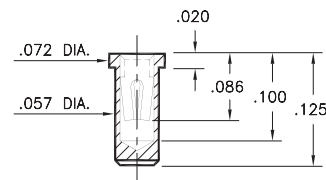


PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

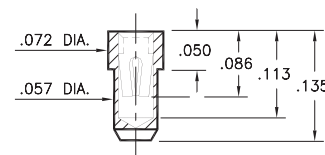
0669

0669-0-15-XX-30-XX-10-0
Solder mount in .060 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
See page 194.3 for Tape & Reel details



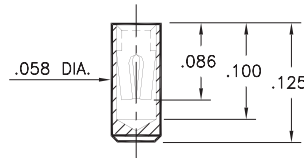
0670

0670-0-15-XX-30-XX-10-0
Solder mount in .060 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
See page 194.3 for Tape & Reel details



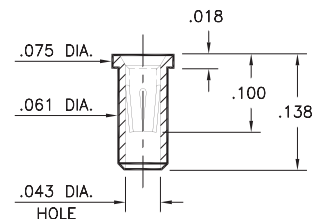
0673

0673-0-15-XX-30-XX-10-0
Surface mount



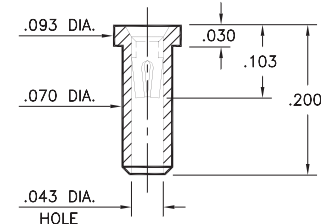
0666

0666-0-15-XX-32-XX-10-0
Solder mount in .064 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
See page 194.4 for Tape & Reel details



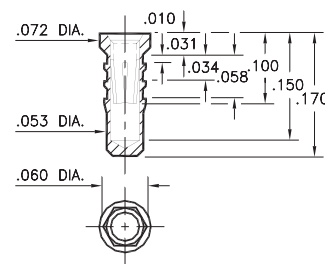
0341

0341-0-15-XX-30-XX-10-0
Solder mount in .073 mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 13" reel
See page 194.3 for Tape & Reel details



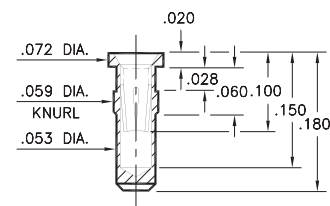
0252

0252-0-15-XX-32-XX-10-0
Hex press-fit in .057 plated through-hole



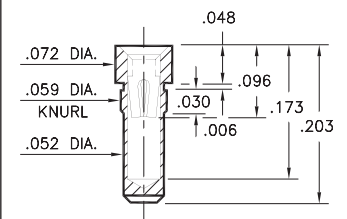
0678

0678-0-15-XX-32-XX-10-0
Press-fit in .057 mounting hole



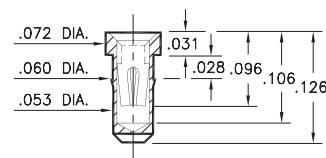
0676

0676-0-15-XX-30-XX-10-0
Press-fit in .057 mounting hole



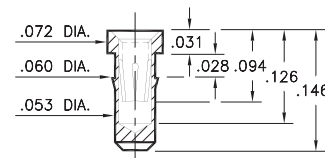
0697

0697-0-15-XX-30-XX-10-0
Press-fit in .057 mounting hole



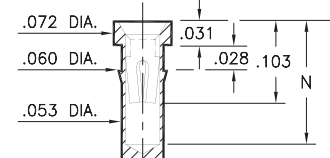
0668

0668-0-15-XX-30-XX-10-0
Press-fit in .057 mounting hole



0253/1033

XXX3-0-15-XX-30-XX-10-0
Press-fit in .057 mounting hole



Basic Part Number	Length L	Depth N
0253-0	.173	.148
1033-0	.203	.162

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ " TIN/LEAD OVER NICKEL
- ◆ 84 100 μ " TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



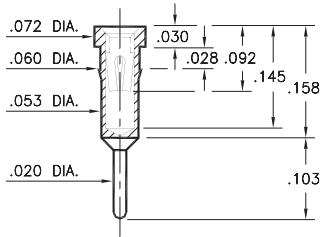
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

4011

4011-0-15-XX-30-XX-04-0

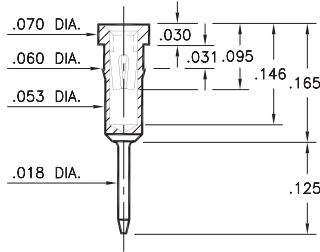
Press-fit in .057 mounting hole



1801

1801-0-15-XX-30-XX-04-0

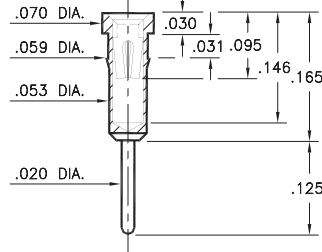
Press-fit in .057 mounting hole.
Shell is Phosphor Bronze Alloy 544 (B2)



1001

1001-0-15-XX-3X-XX-04-0

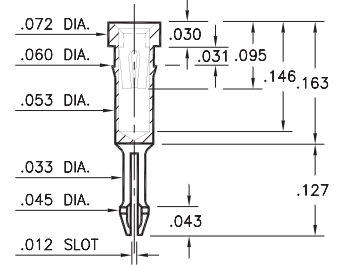
Press-fit in .057 mounting hole



0156

0156-0-18-XX-30-XX-04-0

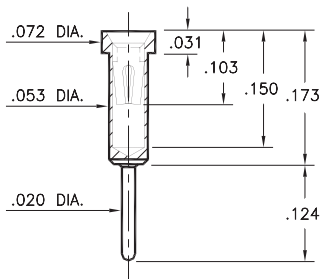
Self-retention socket pin .038 - .043 hole prior to soldering



0255

0255-0-15-XX-30-XX-04-0

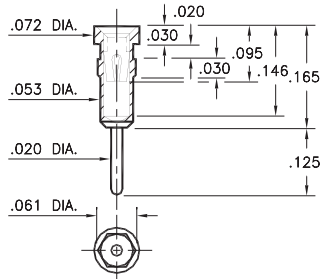
Solder mount in .022 min. mounting hole



1109

1109-0-15-XX-30-XX-04-0

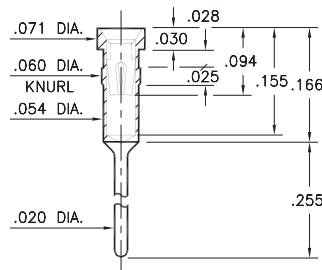
Hex press-fit in .057 plated through-hole



3013

3013-0-15-XX-32-XX-04-0

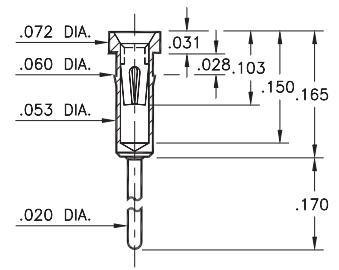
Press-fit in .057 mounting hole



0134

0134-0-15-XX-3X-XX-04-0

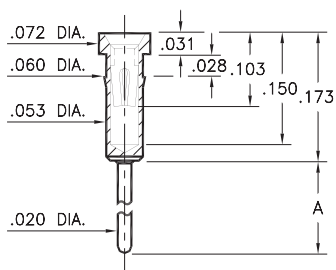
Press-fit in .057 mounting hole



0132/0135

013X-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

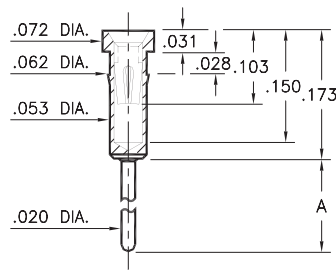


Basic Part Number	Length A
0132-0	.273
0135-0	.183

0133/0147

01XX-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole



Basic Part Number	Length A
0133-0	.382
0147-0	.563

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



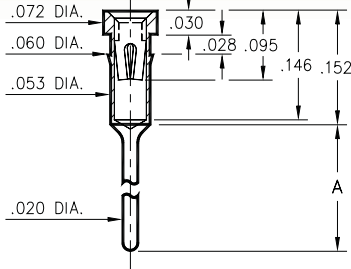
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

1005/1013/8898

XXXX-0-15-XX-3X-XX-04-0

Press-fit in .057 mounting hole
Annealed brass shell for auto-clinching *



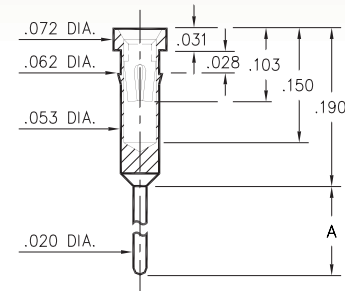
Basic Part Number	Length A
1005-0	.138
1013-0	.165
8898-0	.224

* NOTE: 8898 is not annealed & not suitable for auto-clinching

0145/0146

014X-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

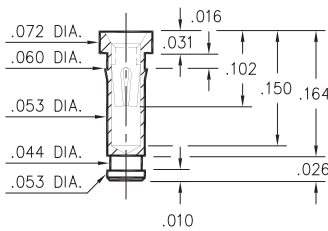


Basic Part Number	Length A
0145-0	.300
0146-0	.410

4378

4378-0-15-XX-30-XX-10-0

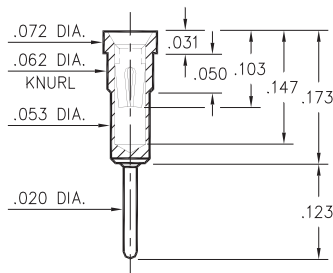
Press-fit in .057 mounting hole



0556

0556-0-15-XX-30-XX-04-0

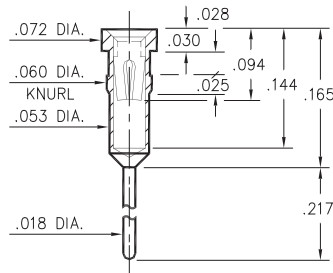
Press-fit in .059 mounting hole



1103

1103-0-15-XX-30-XX-04-0

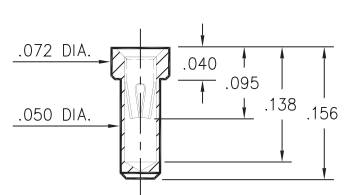
Press-fit in .057 mounting hole



9234

9234-0-15-XX-30-XX-10-0

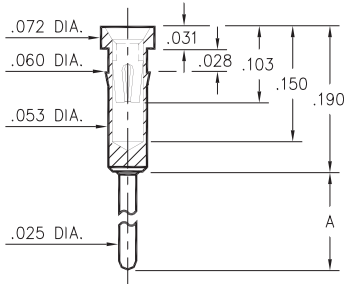
Solder mount in .052 min. mounting hole



0136/37/38/39/41/48/52

01XX-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

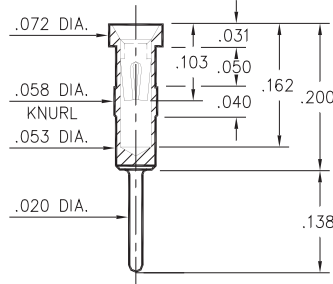


Basic Part Number	Length A
0136-0	1.215
0137-0	.560
0138-0	.210
0139-0	.635
0141-0	.700
0148-0	.455
0152-0	.410

0447

0447-0-15-XX-30-XX-04-0

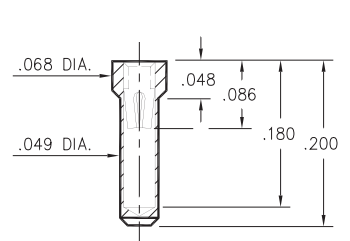
Press-fit in .056 mounting hole



5660

5660-0-15-XX-30-XX-10-0

Solder mount in .051 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



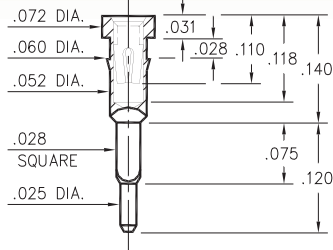
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

7132

7132-0-15-XX-30-XX-04-0

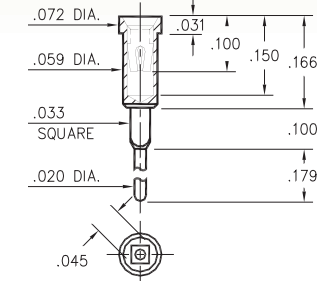
Square press-fit for .032 ± .002 plated through-hole



8445

8445-0-15-XX-30-XX-04-0

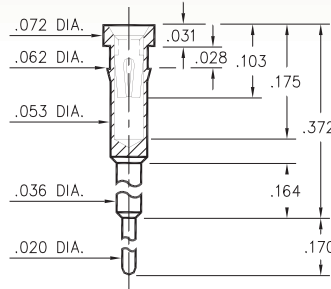
Square press-fit for .039 ± .002 plated through-hole



1038

1038-0-15-XX-30-XX-04-0

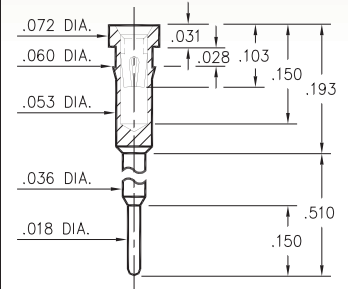
Press-fit in .059 mounting hole



1261

1261-0-15-XX-30-XX-04-0

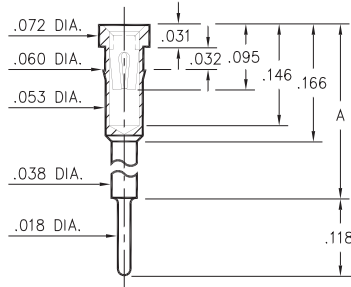
Press-fit in .057 mounting hole



0153

0153-X-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

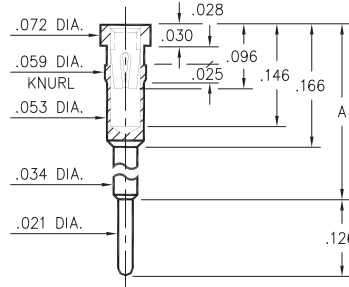


Basic Part Number	Height A
0153-1	.236
0153-2	.315
0153-3	.402
0153-4	.472
0153-5	.594
0153-6	.699

1602/1610

16XX-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

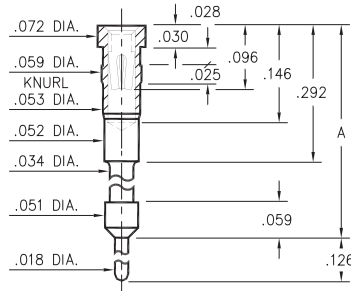


Basic Part Number	Height A
1602-0	.441
1610-0	.642

0903/0904

090X-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

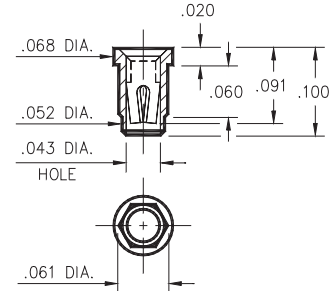


Basic Part Number	Height A
0903-0	.841
0904-0	1.141

8252

8252-0-15-XX-30-XX-10-0

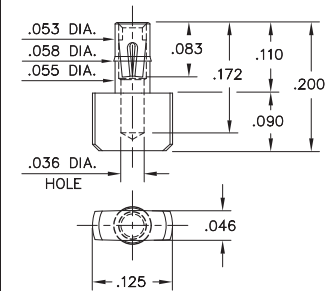
Press-fit in .057 plated through-hole



4078

4078-0-15-XX-30-XX-40-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2°



ORDER CODE: **XXXX - X - 15 - XX - 30 - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



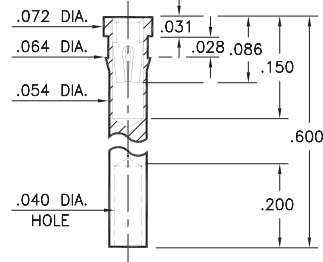
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

1707

1707-0-19-XX-30-XX-10-0

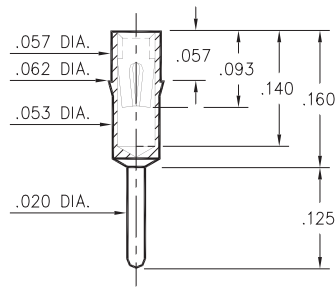
Press-fit in .061 mounting hole
Wire Crimp Termination. Accepts wire sizes 22 AWG Max. / 24 AWG Min.



0240

0240-0-15-XX-30-XX-04-0

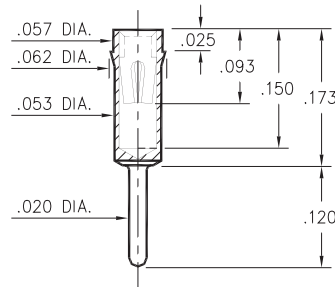
Press-fit in .059 mounting hole



0307

0307-0-15-XX-30-XX-04-0

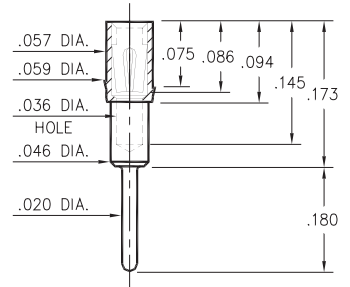
Press-fit in .059 mounting hole



1753

1753-0-15-XX-30-XX-04-0

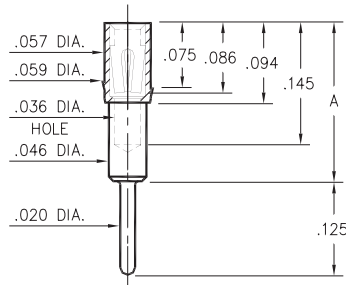
Press-fit in .057 mounting hole



1705/1706/1762

17XX-0-15-XX-3X-XX-04-0

Press-fit in .057 mounting hole

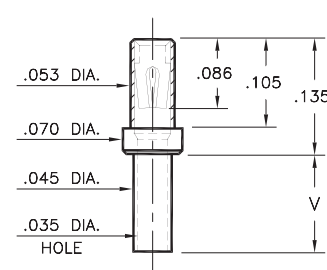


Basic Part Number	Height A
1705-0	.165
1706-0	.218
1762-0	.300

0672

0672-X-15-XX-30-XX-10-0

Swage mount in .049 hole

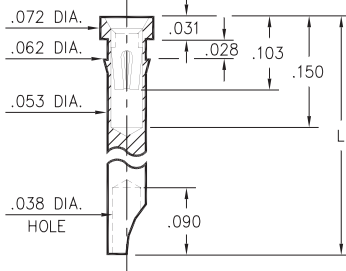


Basic Part Number	Board Thickness	Length V
0672-1	.031	.052
0672-2	.062	.084
0672-3	.094	.115
0672-4	.125	.146

1024/1104

1XX4-0-18-XX-30-XX-10-0

Press-fit in .059 mounting hole
Accepts wire sizes up to .028" dia.

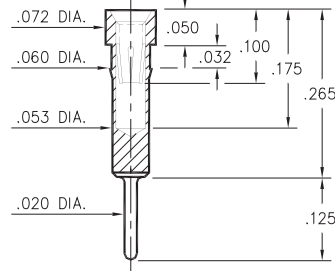


Basic Part Number	Length L
1024-0	.290
1104-0	.450

0498

0498-0-15-XX-35-XX-04-0

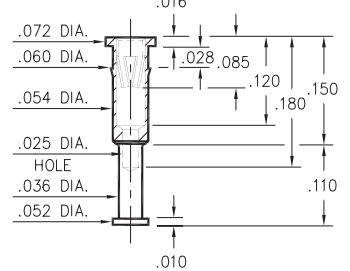
Press-fit in .057 mounting hole



8131

8131-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: **XXXX - X - 1X - XX - XX - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #35 CONTACT (DATA ON PAGE 253 & 254)

(For alternate contact choices, see groups B and C on page 248)



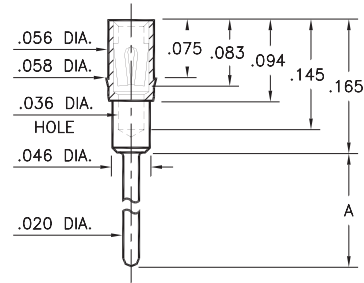
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

1802/3802/4030/8866

XXXX-0-15-XX-43-XX-04-0

Press-fit in .057 mounting hole

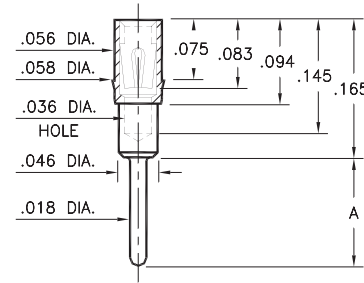


Basic Part Number	Length A
1802-0	.125
3802-0	.165
8866-0	.775
4030-0	.815

1803/1805/1808/3805

XXXX-0-15-XX-XX-XX-04-0

Press-fit in .057 mounting hole

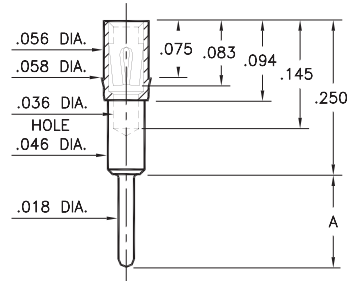


Basic Part Number	Length A
1808-0	.100
1803-0	.145
1805-0	.213
3805-0	.393

1804/1806

180X-0-15-XX-43-XX-04-0

Press-fit in .057 mounting hole

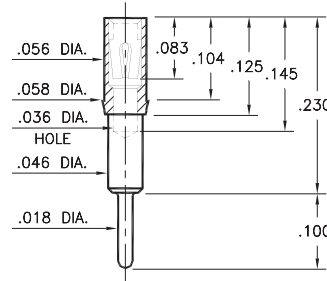


Basic Part Number	Length A
1804-0	.080
1806-0	.115

1807

1807-0-15-XX-43-XX-04-0

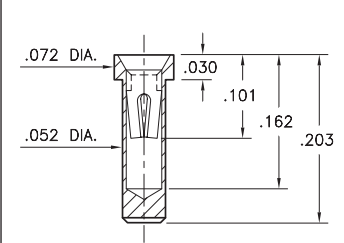
Press-fit in .057 mounting hole



4728

4728-15-XX-30-XX-10-0

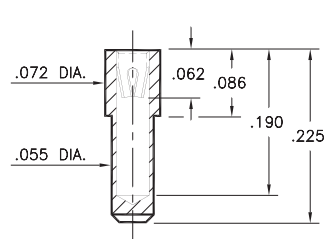
Solder mount in .054 min. mounting hole



8830

8830-15-XX-22-XX-10-0

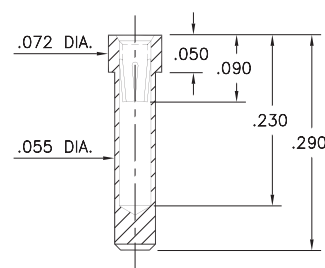
Solder mount in .057 min. mounting hole



8363

8363-0-15-XX-35-XX-10-0

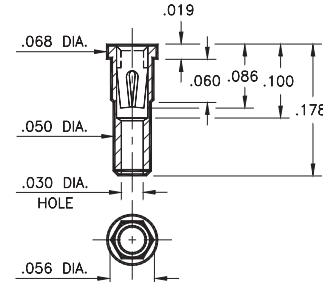
Solder mount in .057 min. mounting hole



4622

4622-0-15-XX-30-XX-10-0

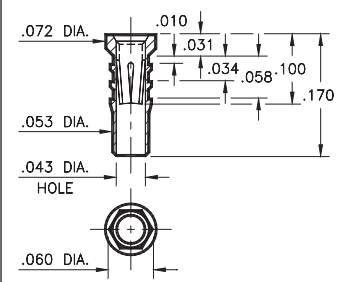
Hex press-fit in .053 plated through-hole



6252

6252-0-15-XX-32-XX-10-0

Hex press-fit in .057 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#22, #30, #32 or #43 CONTACT (DATA ON PAGES 252, 253 & 254)

(For alternate contact choices, see groups B and C on page 248)



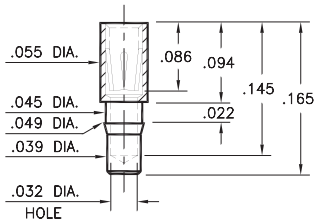
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

0385

0385-0-15-XX-43-XX-10-0

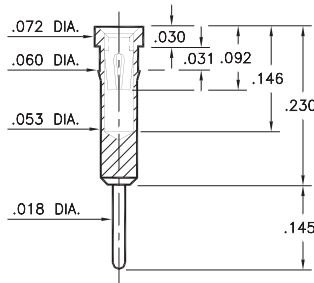
Press-fit in .046 mounting hole



4001

4001-0-15-XX-43-XX-04-0

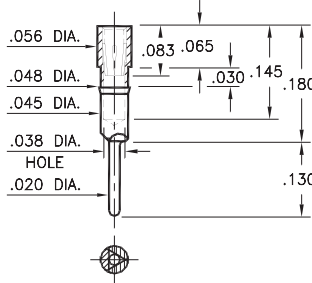
Press-fit in .057 mounting hole



1782

1782-0-15-XX-43-XX-04-0

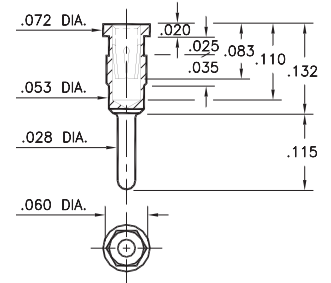
Press-fit in .045 mounting hole



5960

5960-0-15-XX-43-XX-04-0

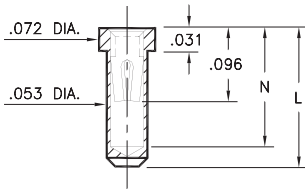
Hex press-fit in .057 plated through-hole



1401/3185

XXXX-0-15-XX-30-XX-10-0

Solder mount in .055 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
See page 194.3 for Tape & Reel details

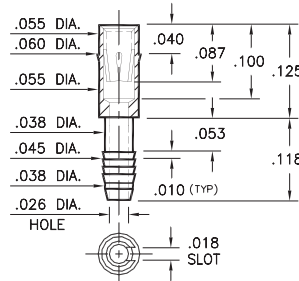


Basic Part Number	Length L	Depth N
1401-0	.165	.145
3185-0	.130	.109

4310

4310-0-31-XX-43-XX-04-0

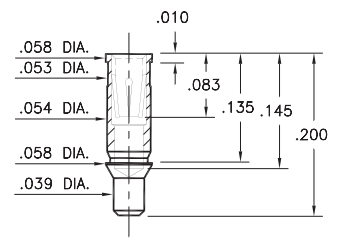
Compliant press-fit in .040 ± .003 plated through-hole. For .090" → .130" thick board



1385

1385-0-15-XX-43-XX-10-0

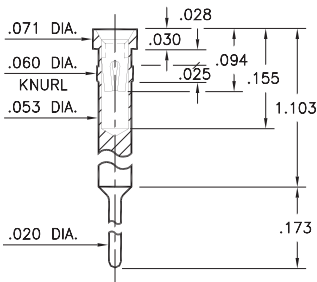
Surface mount



3018

3018-0-15-XX-30-XX-04-0

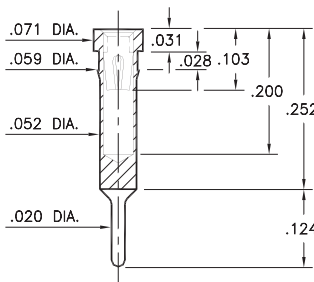
Press-fit in .057 mounting hole



8852

8852-0-15-XX-30-XX-04-0

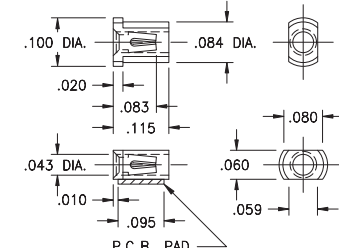
Press-fit in .056 mounting hole



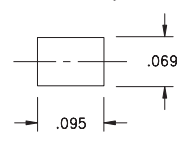
3907

3907-0-18-XX-30-XX-10-0

Surface mount
Also available on 12mm wide carrier tape:
4,000 parts per 13" reel
See page 194.4 for Tape & Reel details



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30, #35 or #43 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see groups B and C on page 248)



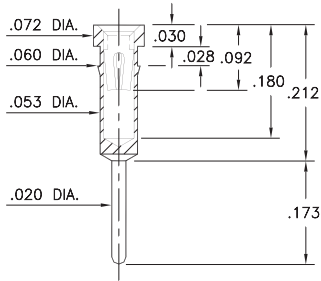
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS

8964

8964-0-15-XX-30-XX-04-0

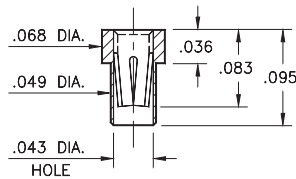
Press-fit in .057 mounting hole



5342

5342-0-15-XX-35-XX-10-0

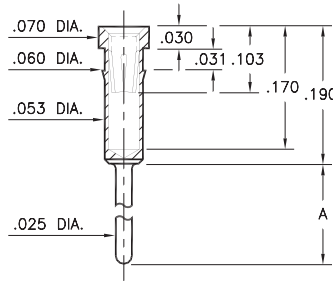
Solder mount in .051 min. mounting hole
Also available on 8mm wide carrier tape:
6,000 parts per 13" reel
See page 194.4 for Tape & Reel details



8857

8857-X-15-XX-32-XX-04-0

Press-fit in .057 mounting hole

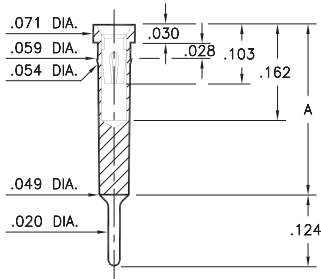


Basic Part Number	Length A
8857-0	.311
8857-1	.448
8857-2	.589
8857-3	.731
8857-4	.871

8862/8877

88XX-0-15-XX-30-XX-04-0

Press-fit in .056 mounting hole

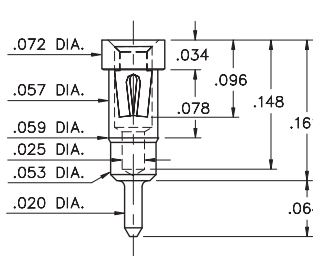


Basic Part Number	Length A
8862-0	.300
8877-0	.350

1334

1334-0-15-XX-30-XX-04-0

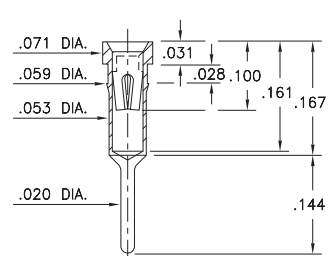
Press-fit in .057 mounting hole



8855

8855-0-15-XX-30-XX-34-0

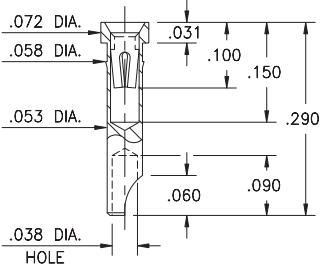
Press-fit in .057 mounting hole



2954

2954-0-18-XX-30-XX-10-0

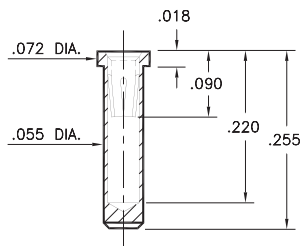
Press-fit in .057 mounting hole
Accepts wire sizes up to .028" dia.



9363

9363-0-15-XX-35-XX-10-0

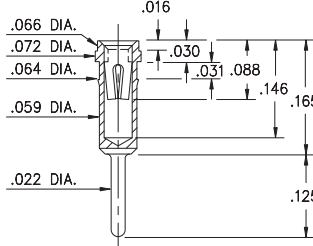
Solder mount in .057 min. mounting hole



1023

1023-0-15-XX-30-XX-04-0

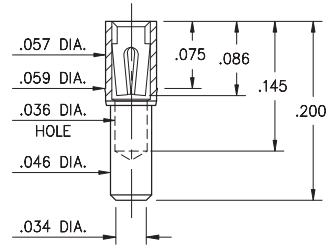
Press-fit in .061 mounting hole



1701

1701-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30, #32 or #35 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see groups B and C on page 248)



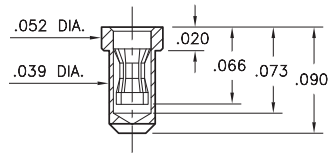
PIN RECEPTACLES

FOR .018" - .023" DIAMETER PINS

0507

0507-0-15-XX-31-XX-10-0

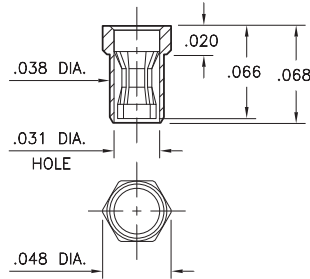
Solder mount in .042 min. mounting hole
Also available on 16mm wide carrier tape:
3,000 parts per 13" reel
See page 194.5 for Tape & Reel details



0531

0531-0-15-XX-31-XX-10-0

Hex press-fit in .045 plated through-hole
(Top or Bottom entry capable)



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: 05XX - 0 - 15 - XX - 31 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

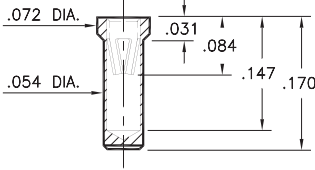
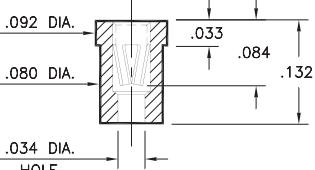
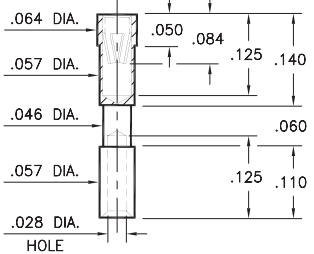
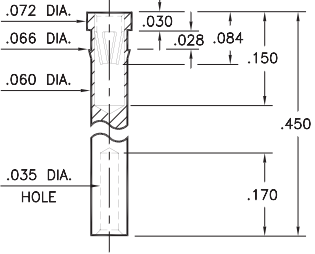
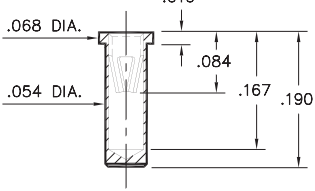
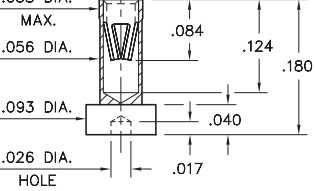
SELECT CONTACT:

#31 CONTACT

(For alternate contact choices, see group A on page 248)

PIN RECEPTACLES

FOR .020" - .032" DIAMETER PINS

<p>0338 0338-0-15-XX-15-XX-10-0 Solder mount in .057 min. mounting hole Also available on 16mm wide carrier tape: 1,700 parts per 13" reel See page 194.6 for Tape & Reel details</p> 	<p>0378 0378-0-15-XX-15-XX-10-0 Solder mount in .082 min. mounting hole</p> 	<p>6002 6002-0-19-XX-15-XX-10-0 Solder mount in .059 min. mounting hole Wire Termination. Accepts wire sizes 26 AWG Max. / 30 AWG Min.</p> 	<p>7009 7009-0-19-XX-15-XX-10-0 Press-fit in .063 min. mounting hole Wire Termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.</p> 
<p>0339 0339-0-15-XX-15-XX-10-0 Solder mount in .057 min. mounting hole Also available on 24mm wide carrier tape: 1,540 parts per 13" reel See page 194.6 for Tape & Reel details</p> 	<p>5200 5200-0-19-XX-15-27-10-0 Surface mount on a .103" dia. P.C.B. pad</p> 		

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 15 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#15 CONTACT (DATA ON PAGE 254)

(For alternate contact choices, see group K on page 248)



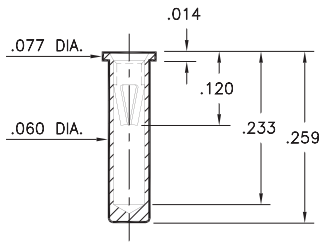
PIN RECEPTACLES

FOR .022" - .032" DIAMETER PINS

0295

0295-0-15-XX-06-XX-10-0

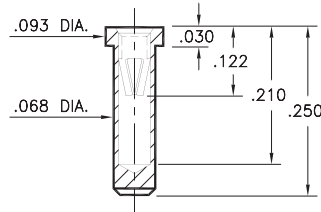
Solder mount in .063 min. mounting hole
Also available on 12mm wide carrier tape:
1,000 parts per 13" reel
See page 194.7 for Tape & Reel details



0292

0292-0-15-XX-06-XX-10-0

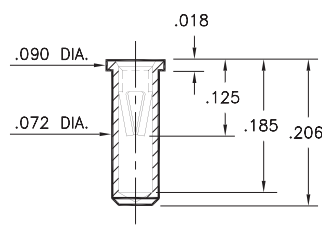
Solder mount in .071 min. mounting hole



0294

0294-0-15-XX-06-XX-10-0

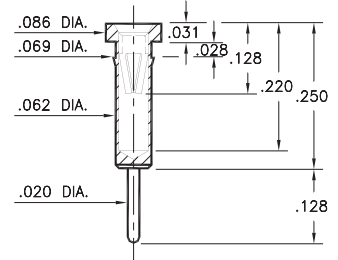
Solder mount in .076 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 13" reel
See page 194.7 for Tape & Reel details



0398

0398-0-15-XX-06-XX-04-0

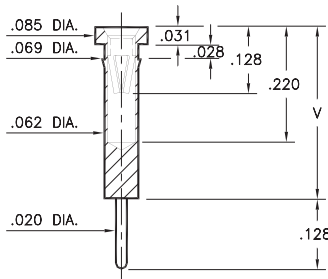
Press-fit in .066 mounting hole



0397

0397-X-15-XX-06-XX-04-0

Press-fit in .066 mounting hole

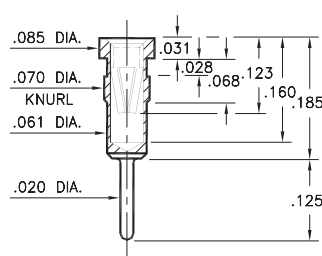


Basic Part Number	Length V
0397-0	.353
0397-1	.333
0397-2	.413

0297

0297-0-15-XX-06-XX-04-0

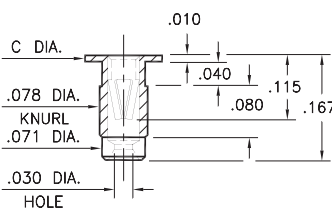
Press-fit in .067 mounting hole



9019/9039

90X9-0-19-XX-06-XX-10-0

Press-fit in .075 mounting hole



Basic Part Number	Head Dia. C
9019-0	.125
9039-0	.100

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 06 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06 CONTACT (DATA ON PAGE 255)

(For alternate contact choices, see group D on page 248)



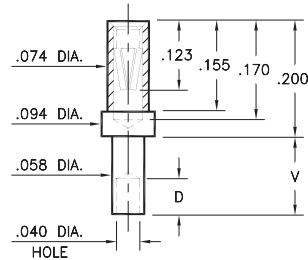
PIN RECEPTACLES

FOR .022" - .032" DIAMETER PINS

0326

0326-X-19-XX-06-XX-10-0

Swage mount in .060 hole

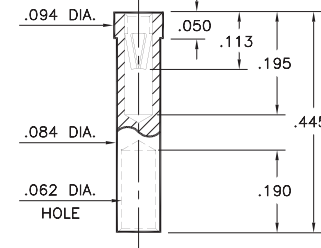


Basic Part Number	Board Thickness	Length V	Depth D
0326-1	.031	.062	.040
0326-2	.062	.094	.062
0326-3	.094	.125	.062
0326-4	.125	.156	.062

5295

5295-0-19-XX-06-XX-10-0

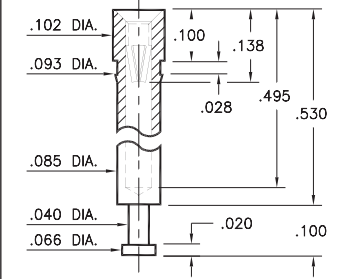
Solder mount in .086 min. mounting hole
Wire Crimp Termination. Accepts wire sizes 18 AWG Max. / 22 AWG Min.



0396

0396-0-15-XX-06-XX-10-0

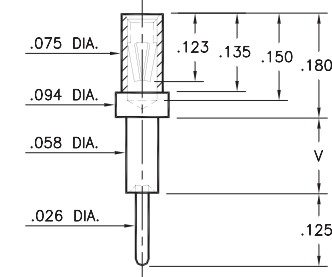
Press-fit in .090 mounting hole



0298

0298-X-15-XX-06-XX-10-0

Swage mount in .060 hole

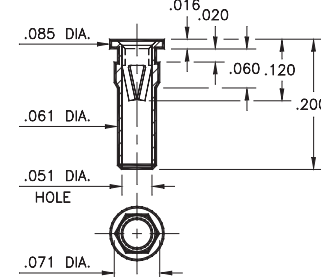


Basic Part Number	Board Thickness	Length V
0298-1	.031	.051
0298-2	.062	.082
0298-3	.094	.113
0298-4	.125	.145

9293

9293-0-15-XX-06-XX-10-0

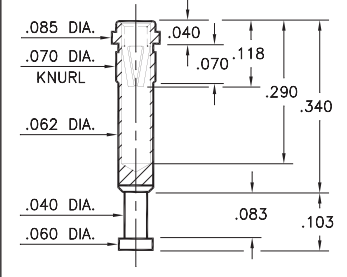
Hex press-fit in .067 plated through-hole



8864

8864-0-15-XX-06-XX-10-0

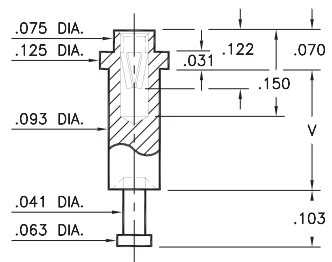
Press-fit in .067 mounting hole



0664

0664-X-15-XX-06-XX-10-0

Swage mount in .096 hole



Basic Part Number	Board Thickness	Length V
0664-1	.094	.125
0664-2	.125	.156
0664-3	.188	.219

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - 1X - XX - 06 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06 CONTACT (DATA ON PAGE 255)

(For alternate contact choices, see group D on page 248)



PIN RECEPTACLES

FOR .022" - .034" DIAMETER PINS AND .025" SQUARE PINS

<p>0291 0291-0-15-XX-16-XX-10-0 Hex press-fit in .067 plated through-hole</p>	<p>0293 0293-0-15-XX-16-XX-10-0 Press-fit in .067 mounting hole</p>	<p>0287 0287-0-15-XX-16-XX-10-0 Solder mount in .065 min. mounting hole Also available on 8mm wide carrier tape: 3,250 parts per 13" reel See page 194.8 for Tape & Reel details</p>	<p>0285 0285-0-15-XX-16-XX-10-0 Solder mount in .065 min. mounting hole</p>
<p>0284 0284-0-15-XX-16-XX-10-0 Solder mount in .070 min. mounting hole</p>	<p>8114 8114-0-15-XX-16-XX-04-0 Press-fit from underside of pc board into .065 mounting hole</p>	<p>0407 0407-0-15-XX-16-XX-04-0 Press-fit in .066 mounting hole</p>	<p>0415 0415-0-15-XX-16-XX-10-0 Solder mount in .063 min. mounting hole Also available on 24mm wide carrier tape: 1,500 parts per 13" reel See page 194.8 for Tape & Reel details</p>
<p>0303 0303-0-19-XX-16-XX-10-0 Press-fit in .067 mounting hole Wire Crimp Termination. Accepts wire sizes 26 AWG Max. / 30 AWG Min.</p>	<p>0306 0306-0-19-XX-16-XX-10-0 Wire Crimp Termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.</p>	<p>0273 0273-0-15-XX-16-XX-10-0 Press-fit in .078 mounting hole</p>	<p>7520 7520-0-15-XX-16-XX-10-0 Press-fit in .066 mounting hole</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 16 - XX - XX - 0

BASIC PART #

- SPECIFY SHELL FINISH:**
- 01 200 μ" TIN/LEAD OVER NICKEL
 - ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
 - ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

- SPECIFY CONTACT FINISH:**
- 01 200 μ" TIN/LEAD OVER NICKEL
 - ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
 - ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#16 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



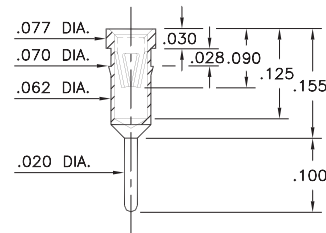
PIN RECEPTACLES

FOR .022" - .034" DIAMETER PINS AND .025" SQUARE PINS

9808

9808-0-15-XX-16-XX-04-0

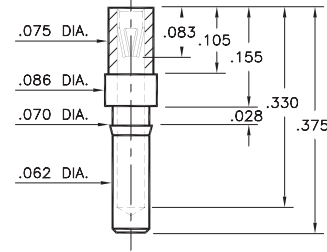
Press-fit in .067 mounting hole



9101

9101-0-15-XX-16-XX-10-0

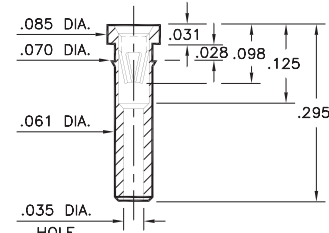
Press-fit in .067 mounting hole



5650

5650-0-19-XX-16-XX-10-0

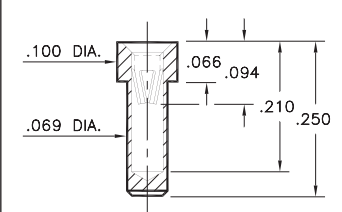
Press-fit in .067 mounting hole



8679

8679-0-15-XX-16-XX-10-0

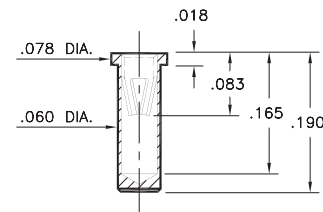
Solder mount in .071 min. mounting hole



6021

6021-0-15-XX-16-XX-10-0

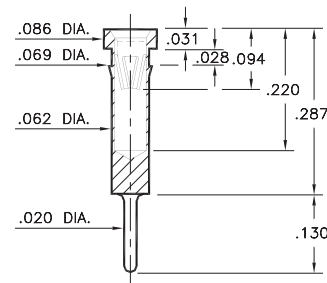
Solder mount in .062 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 13" reel
See page 194.8 for Tape & Reel details



1873

1873-0-15-XX-16-XX-04-0

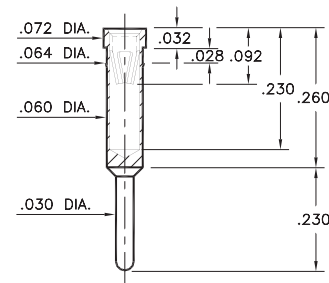
Press-fit in .066 mounting hole



8827

8827-0-15-XX-16-XX-04-0

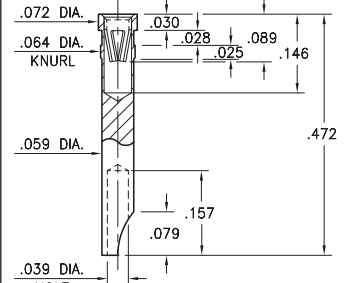
Press-fit in .061 mounting hole



5070

5070-0-18-XX-16-XX-10-0

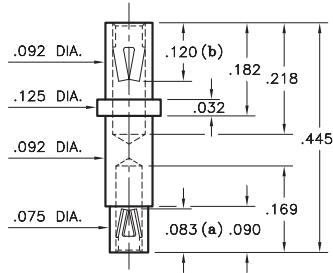
Press-fit in .061 mounting hole



7620

7620-0-34-XX-16-XX-10-0

Double Ended Receptacle. See chart for Contact number & acceptance ranges



Contact Number	Acceptance Range
----------------	------------------

(a) #16	.022 - .034 and .025 □
(b) #34	.032 - .046

(Data on Page 258)

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 16 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#16 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)

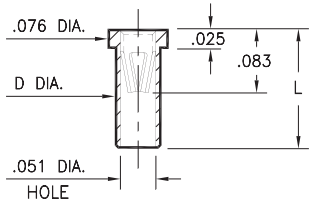


PIN RECEPTACLES

FOR .025" - .037" DIAMETER PINS AND .025" SQUARE PINS

0305

0305-X-15-XX-47-XX-10-0
Solder mount in .059/.061 mounting hole
Also available on 8mm or 24mm wide carrier tape: See chart for details
See page 194.9 for Tape & Reel details



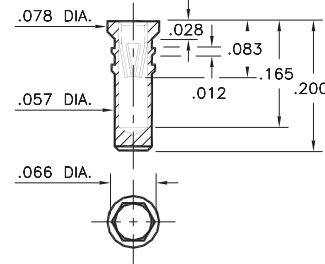
Basic Part Number	Length L	Dia. D
0305-0	.095	.056
0305-1	.105	.058
0305-2	.155	.058

T&R Packaging

Basic Part Number	Tape Width	Parts per 13" Reel
0305-0	8mm	6,000
0305-1	8mm	6,000
0305-2	24mm	1,500

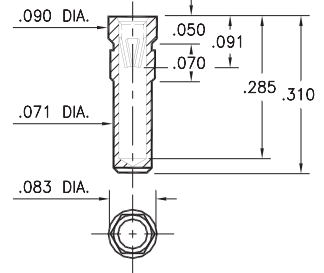
0279

0279-0-15-XX-47-XX-10-0
Hex press-fit in .062 plated through-hole



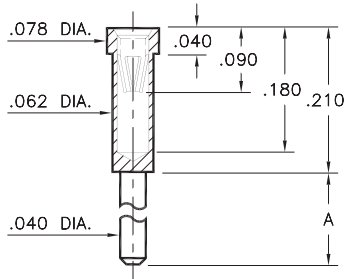
0330

0330-0-15-XX-47-XX-10-0
Hex press-fit in .079 plated through-hole



0300/8300

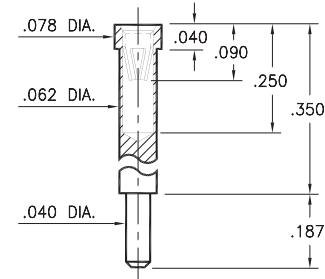
X300-X-15-XX-47-XX-10-0
Solder mount in .042 min. mounting hole



Basic Part Number	Length A
0300-1	.110
0300-2	.187
8300-0	.140

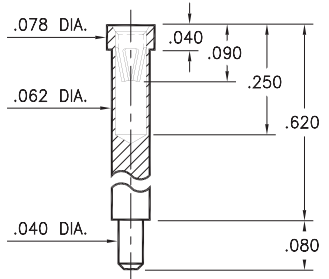
0301

0301-1-15-XX-47-XX-10-0
Solder mount in .042 min. mounting hole



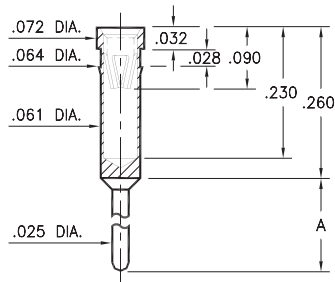
0309

0309-2-15-XX-47-XX-10-0
Solder mount in .042 min. mounting hole



0399

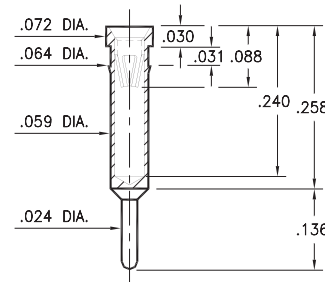
0399-X-15-XX-47-XX-04-0
Press-fit in .062 mounting hole



Basic Part Number	Length A
0399-0	.230
0399-1	.180

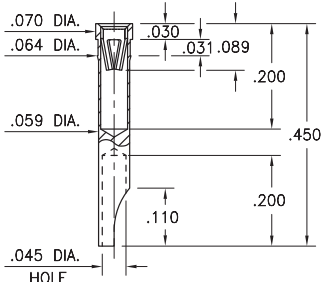
1304

1304-0-15-XX-47-XX-04-0
Press-fit in .061 mounting hole



1134

1134-0-18-15-47-27-10-0
Press-fit in .061 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#47 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



COMPLIANT TAIL PINS & RECEPTACLES

DESIGNED FOR A SECURE PRESS-FIT IN STANDARD PLATED THROUGH-HOLES

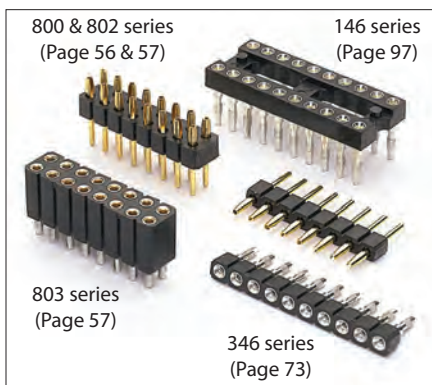
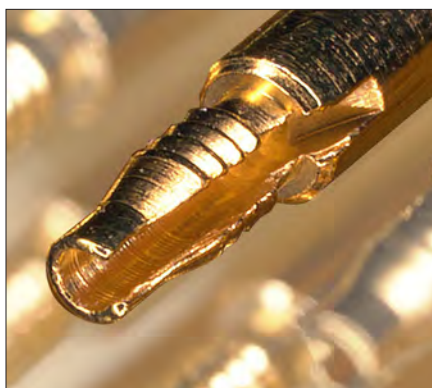
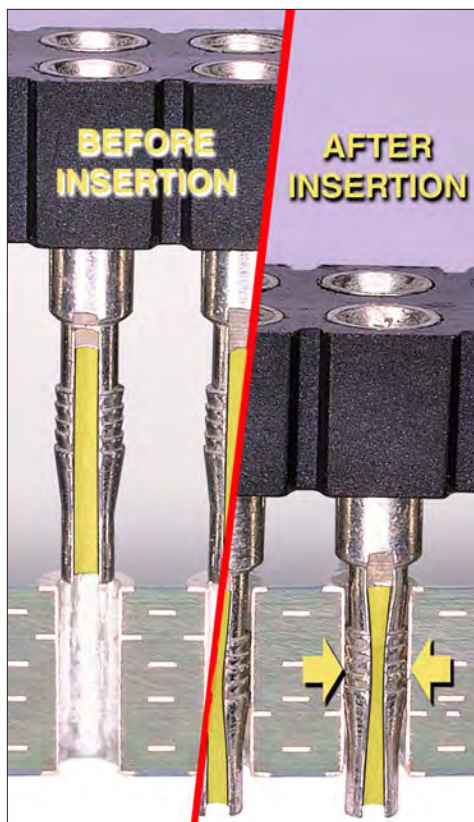
The unique compliant pin design is characterized by a hollow and slotted tail that closes down and conforms to the size of the plated through-hole, thus preventing damage. In addition, the combination of slotted tail and a series of fine serrations make a reliable gas-tight connection with the plating inside the hole.

Mill-Max offers sockets, headers and discrete pins and receptacles with compliant tail or barrel features to address a broad range of applications where press-fitting is the desired solution over soldering. Mill-Max compliant tail sockets are available in dual-in-line packages (Series 146) and single and double row strips (Series 346 and 446, respectively).

For higher current and more rugged applications, Mill-Max has single row (Series 800) and double row (Series 802) interconnects and mating sockets, single row (Series 801) and double row (Series 803). Multi-layer boards can be stacked by mating these pin headers with sockets containing highly reliable six-finger inner contacts that accept .030" diameter round pins as well as .025" square pins.

Both compliant tail sockets and interconnects are available in two tail lengths, one for .060"-.100" thick panels and another for .090"-.130" thick panels.

Discrete pins (P/N's 5601, 5602 & 2617) and receptacles (P/N's 4993 & 4994) are useful for single location requirements or for non-standard layouts. The receptacles are low profile. The 4993 accepts leads from .012" - .017" and 4994 accepts leads from .015" - .020".



PIN RECEPTACLES

FOR .025" - .037" DIAMETER PINS AND .025" SQUARE PINS

<p>1305 1305-0-15-XX-47-XX-04-0 Press-fit in .061 mounting hole</p>	<p>1306 1306-0-15-XX-47-XX-04-0 Press-fit in .061 mounting hole</p>	<p>7305 7305-0-15-XX-47-XX-10-0 Solder mount in .060 min. mounting hole Also available on 8mm wide carrier tape: 6,000 parts per 13" reel See page 194.9 for Tape & Reel details</p>	<p>0400 0400-0-15-XX-47-XX-04-0 Press-fit in .067 mounting hole</p>
<p>0335 0335-0-15-XX-47-XX-04-0 Hex press-fit in .064 plated through-hole</p>	<p>4614 4614-0-31-XX-47-XX-04-0 Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board</p>	<p>4615 4615-0-31-XX-47-XX-04-0 Compliant press-fit in .040 ± .003 plated hole. For .090" → .130" thick board</p>	<p>7614 7614-0-31-XX-47-XX-04-0 Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board</p>
<p>8401 8401-0-15-XX-47-XX-04-0 Hex press-fit in .063 plated through-hole</p>	<p>2400 2400-0-15-XX-47-XX-04-0 Press-fit in .066 mounting hole</p>	<p>6857 6857-0-15-XX-47-XX-10-0 Press-fit in .062 mounting hole</p>	<p>9393 9393-0-15-XX-47-XX-10-0 Press-fit in .067 mounting hole</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#47 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



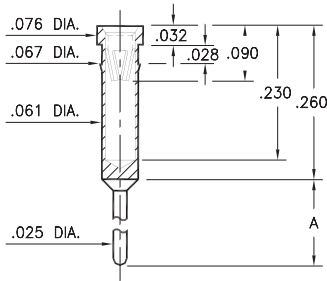
PIN RECEPTACLES

FOR .025" - .037" DIAMETER PINS AND .025" SQUARE PINS

0401/6401

X401-0-15-XX-47-XX-04-0

Press-fit in .064 mounting hole

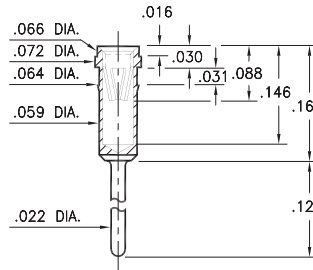


Basic Part Number	Length A
0401-0	.340
6401-0	.540

1303

1303-0-15-XX-47-XX-04-0

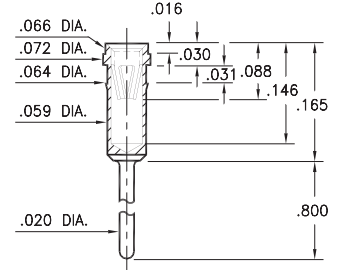
Press-fit in .061 mounting hole



8303

8303-0-15-XX-47-XX-04-0

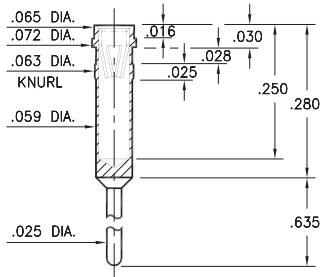
Press-fit in .061 mounting hole



4095

4095-0-15-XX-47-XX-04-0

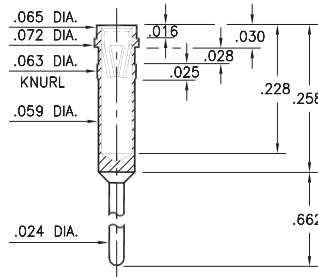
Press-fit in .061 mounting hole



4014

4014-0-15-XX-47-XX-04-0

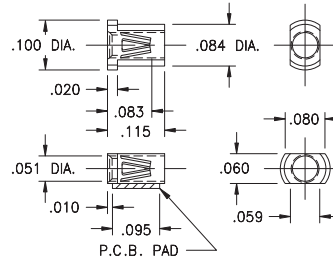
Press-fit in .061 mounting hole



8806

8806-0-18-XX-47-XX-40-0

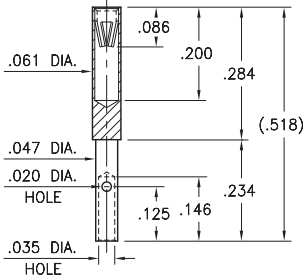
Surface mount
Also available on 12mm wide carrier tape:
4,000 parts per 13" reel
See page 194.9 for Tape & Reel details



0722

0722-0-33-XX-47-XX-10-0

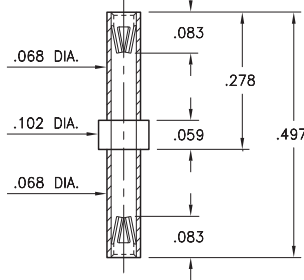
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 28 AWG Min.



6839

6839-0-40-XX-47-XX-10-0

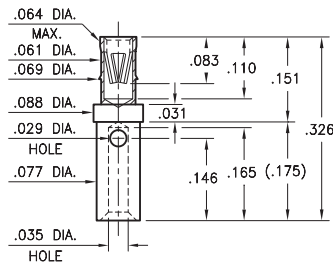
Double Ended Receptacle



6368

6368-0-33-XX-47-XX-10-0

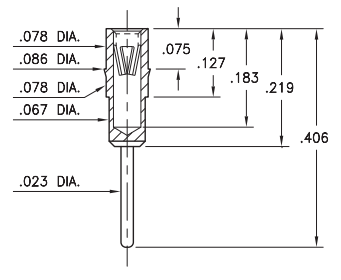
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



4119

4119-0-15-XX-47-XX-04-0

Press-fit in .083 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#47 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



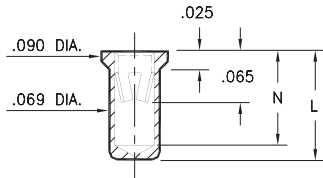
PIN RECEPTACLES

FOR .037" - .043" DIAMETER PINS

0331/9353

X3XX-0-15-XX-18-XX-10-0

Solder mount in .071 min. mounting hole
Also available on 24mm wide carrier tape:
1,000 parts per 13" reel
See page 194.10 for Tape & Reel details

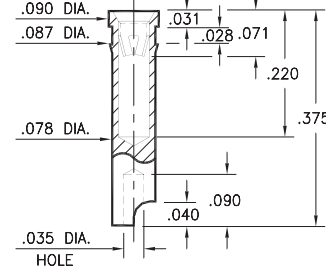


Basic Part Number	Length L	Depth N
0331-0	.150	.127
9353-0	.170	.147

7405

7405-0-18-XX-18-XX-10-0

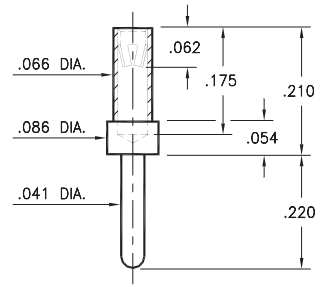
Press-fit in .084 mounting hole
Accepts wire sizes up to .025" dia.



3450

3450-0-15-XX-18-XX-04-0

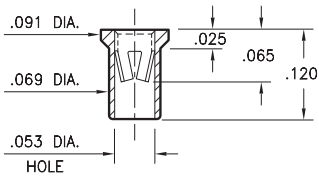
Solder mount in .043 min. mounting hole



7406

7406-0-15-XX-18-XX-10-0

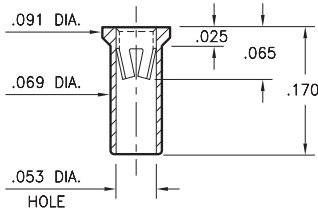
Solder mount in .071 min. mounting hole
Also available on 16mm wide carrier tape:
2,200 parts per 13" reel
See page 194.10 for Tape & Reel details



9354

9354-0-15-XX-18-XX-10-0

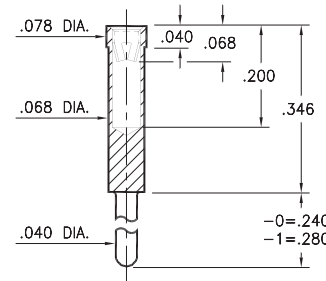
Solder mount in .071 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 13" reel
See page 194.10 for Tape & Reel details



0319

0319-X-15-XX-18-XX-04-0

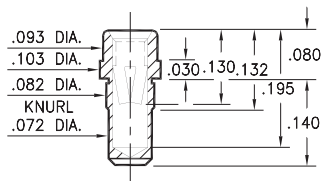
Solder mount in .042 min. mounting hole



9357

9357-0-15-XX-18-XX-10-0

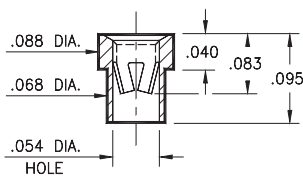
Press-fit in .078 mounting hole



3520

3520-0-15-XX-18-XX-10-0

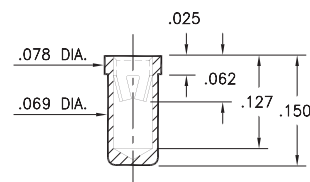
Solder mount in .070 min. mounting hole



8331

8331-0-15-XX-18-XX-10-0

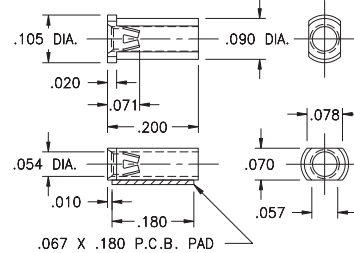
Solder mount in .071 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 13" reel
See page 194.10 for Tape & Reel details



6628

6628-0-18-XX-18-XX-10-0

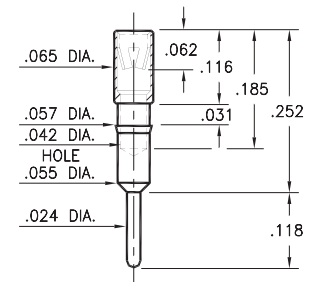
Surface mount
Also available on 12mm wide carrier tape:
3,700 parts per 13" reel
See page 194.10 for Tape & Reel details



1313

1313-0-15-XX-18-XX-04-0

Press-fit in .056 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 18 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#18 CONTACT (DATA ON PAGE 257)

(For alternate contact choices, see group L on page 248)



PIN RECEPTACLES

FOR .037" - .043" DIAMETER PINS

<p>4314 4314-0-19-XX-18-XX-10-0 Wire crimp termination. Accepts wire sizes up to 24 AWG</p>	<p>4401 4401-0-15-XX-18-XX-04-0 Press-fit in .079 mounting hole</p>		

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ± 2°



ORDER CODE: XXXX - 0 - 15 - XX - 18 - XX - XX - 0

BASIC PART # **SPECIFY SHELL FINISH:** **SPECIFY CONTACT FINISH:**

01 200 μ" TIN/LEAD OVER NICKEL 01 200 μ" TIN/LEAD OVER NICKEL
 ◆ 80 200 μ" TIN OVER NICKEL (RoHS) ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
 ◆ 15 10 μ" GOLD OVER NICKEL (RoHS) ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:
#18 CONTACT (DATA ON PAGE 257)
 (For alternate contact choices, see group L on page 248)

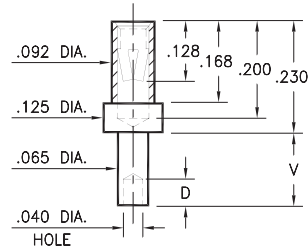
PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS

0344

0344-X-19-XX-34-XX-10-0

Swage mount in .067 hole

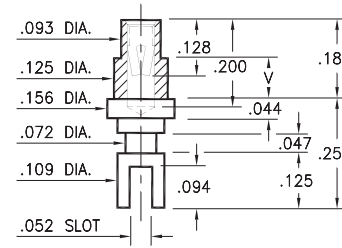


Basic Part Number	Board Thickness	Length V	Depth D
0344-1	.031	.062	.040
0344-2	.062	.094	.062
0344-3	.094	.125	.062
0344-4	.125	.156	.062

0349

0349-X-31-XX-34-XX-10-0

Swage mount in .129 hole

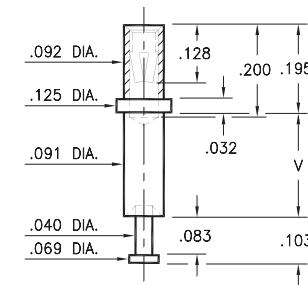


Basic Part Number	Board Thickness	Length V
0349-2	.062	.094
0349-3	.094	.125
0349-4	.125	.156

0323

0323-X-15-XX-34-XX-10-0

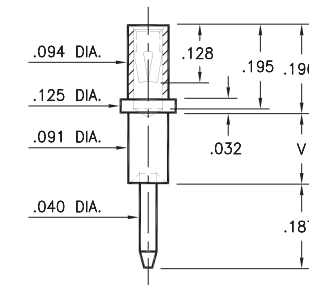
Swage mount in .094 hole



0324

0324-X-15-XX-34-XX-10-0

Swage mount in .094 hole

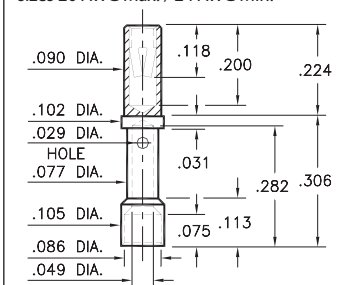


Basic Part Number	Board Thickness	Length V
032X-1	.031	.062
032X-2	.062	.094
032X-3	.094	.125
032X-4	.125	.156
032X-5	.188	.219

0348

0348-0-33-XX-34-XX-10-0

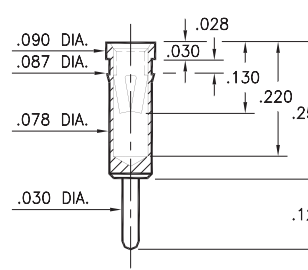
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



0405

0405-0-15-XX-34-XX-04-0

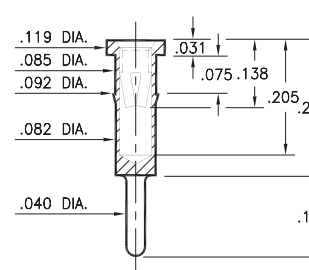
Press-fit in .084 mounting hole



0336

0336-0-15-XX-34-XX-04-0

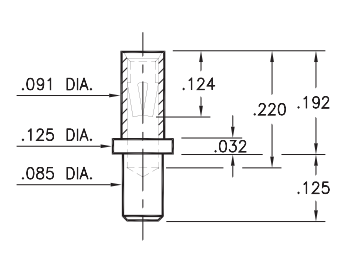
Press-fit in .089 mounting hole



0322

0322-0-15-XX-34-XX-10-0

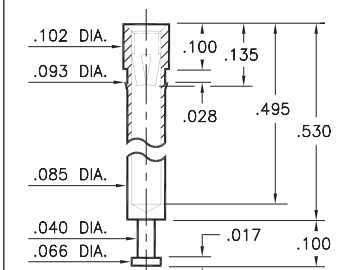
Solder mount in .089 min. mounting hole



0325

0325-0-15-XX-34-XX-10-0

Press-fit in .090 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ±2°



ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)

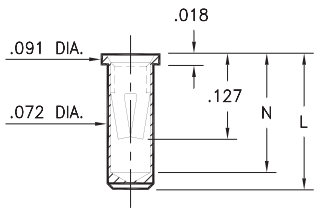


PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS

0327/0351/0373

03XX-0-15-XX-34-XX-10-0
Solder mount in .075 min. mounting hole
Also available on 12mm or 24mm wide carrier tape: See chart for details
See page 194.11 for Tape & Reel details



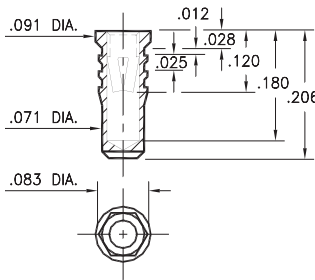
Basic Part Number	Length L	Depth N
0327-0	.206	.180
0351-0	.226	.200
0373-0	.270	.241

T&R Packaging

Basic Part Number	Tape Width	Parts per 13" Reel
0327-0	12mm	1,400
0351-0	24mm	1,100
0373-0	24mm	1,000

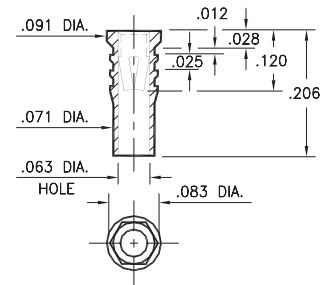
0328

0328-0-15-XX-34-XX-10-0
Hex press-fit in .079 plated through-hole



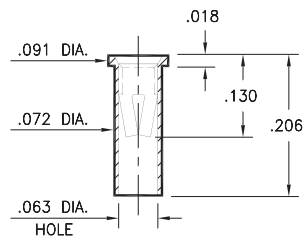
0334

0334-0-15-XX-34-XX-10-0
Hex press-fit in .079 plated through-hole



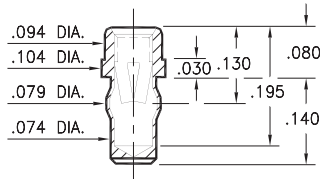
0312

0312-0-15-XX-34-XX-10-0
Solder mount in .075 min. mounting hole
Also available on 12mm wide carrier tape: 1,400 parts per 13" reel
See page 194.11 for Tape & Reel details



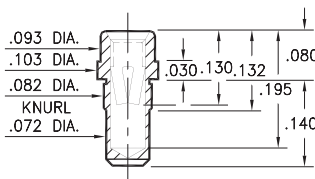
0333

0333-0-42-XX-34-XX-10-0
Press-fit in .076 mounting hole



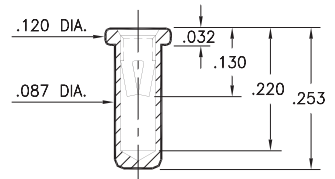
0357

0357-0-15-XX-34-XX-10-0
Press-fit in .078 mounting hole



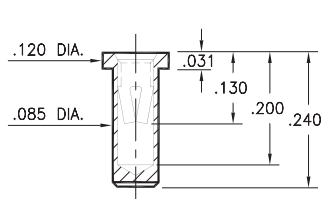
0317

0317-0-15-XX-34-XX-04-0
Solder mount in .091 min. mounting hole



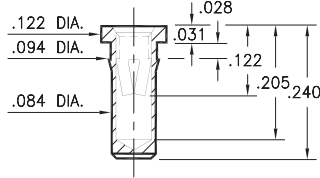
0340

0340-0-15-XX-34-XX-10-0
Solder mount in .087 min. mounting hole
Also available on 24mm wide carrier tape: 1,250 parts per 13" reel
See page 194.11 for Tape & Reel details



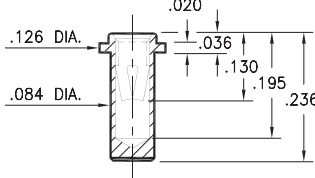
0345

0345-0-15-XX-34-XX-10-0
Press-fit in .089 mounting hole



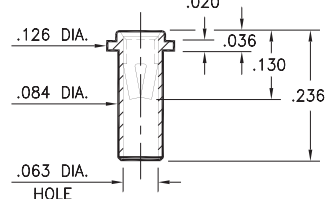
0316

0316-0-15-XX-34-XX-10-0
Solder mount in .087 min. mounting hole



0314

0314-0-15-XX-34-XX-10-0
Solder mount in .087 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 34 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS

<p>0359 0359-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole</p>	<p>0358 0358-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole</p>	<p>0360 0360-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole</p>	<p>0343 0343-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole</p>
<p>0356 0356-0-15-XX-34-XX-10-0 Solder mount in .102 min. mounting hole Also available on 24mm wide carrier tape: 1,100 parts per 13" reel See page 194.11 for Tape & Reel details</p>	<p>6659 6659-0-15-XX-34-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>0347 0347-0-15-XX-34-XX-10-0 Solder mount in .120 min. mounting hole</p>	<p>0329 0329-0-15-XX-34-XX-10-0 Solder mount in .075 min. mounting hole. "Knock out" bottom</p>
<p>0814 0814-0-15-XX-34-XX-04-0 Solder mount in .082 min. mounting hole</p>	<p>5059 5059-0-15-XX-34-XX-04-0 Press-fit in .090 mounting hole</p>	<p>8360 8360-0-15-XX-34-XX-10-0 Press-fit in .087 mounting hole</p>	<p>9359 9359-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ±2°



ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



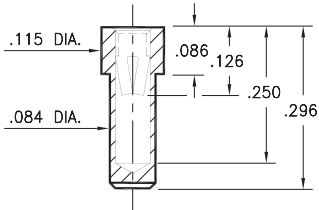
PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS

8838

8838-0-15-XX-34-XX-10-0

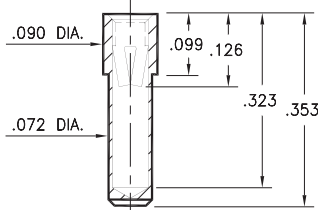
Solder mount in .086 min. mounting hole



3100

3100-0-15-XX-34-XX-10-0

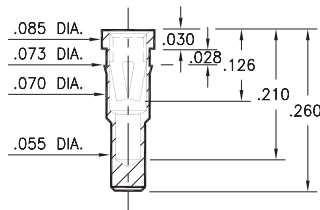
Solder mount in .074 min. mounting hole



8853

8853-0-15-XX-34-XX-10-0

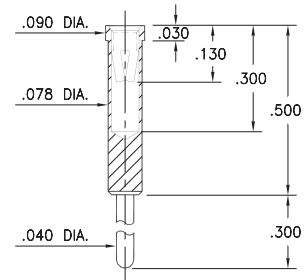
Press-fit in .071 mounting hole



6800

6800-0-15-XX-34-XX-04-0

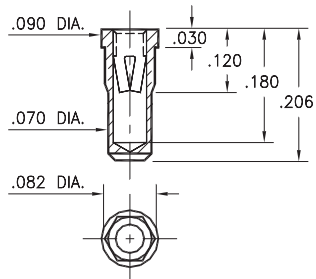
Solder mount in .080 min. mounting hole



0739

0739-0-15-XX-34-XX-10-0

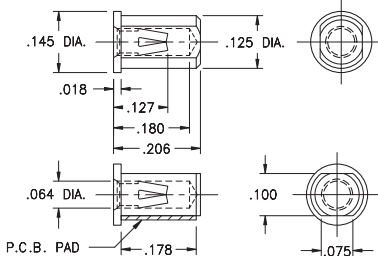
Hex press-fit in .078 plated through-hole



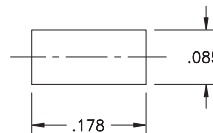
8206

8206-0-15-XX-34-XX-40-0

Surface mount, board edge
Also available on 16mm wide carrier tape:
Packaged Vertically 1,400 parts per 13" reel
See page 194.11 for Tape & Reel details



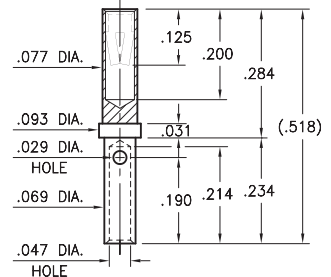
P.C.B. Layout



0720

0720-0-33-XX-34-XX-10-0

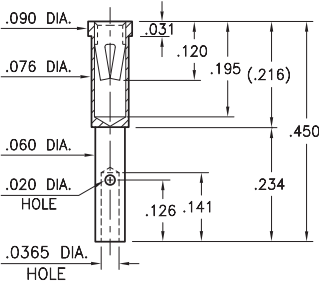
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



4130

4130-0-33-XX-34-XX-10-0

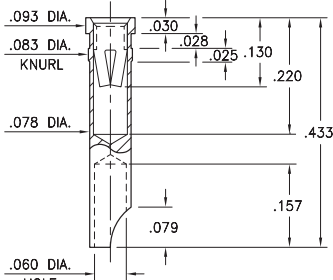
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



5084

5084-0-18-XX-34-XX-10-0

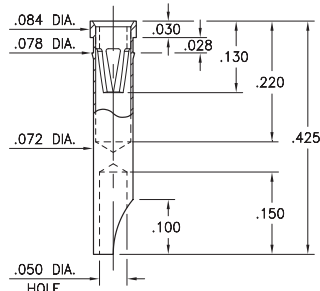
Press-fit in .081 mounting hole



0740

0740-0-18-XX-34-XX-10-0

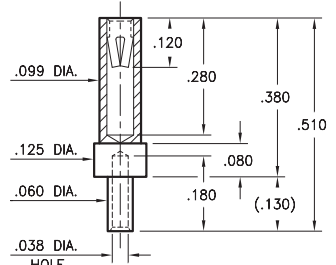
Press-fit in .075 mounting hole
For wire sizes up to 20 AWG



8731

8731-0-19-XX-34-XX-10-0

Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: **XXXX - X - XX - XX - 34 - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



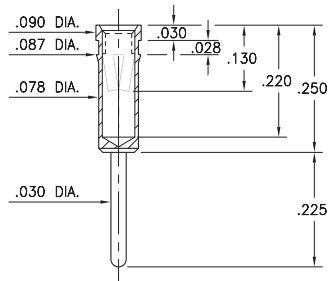
PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS

8369

8369-0-15-XX-34-XX-04-0

Press-fit in .084 mounting hole



<p>8369 8369-0-15-XX-34-XX-04-0 Press-fit in .084 mounting hole</p>			

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - 0 - 15 - XX - 34 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)

LOOSE PINS & RECEPTACLES ON T&R

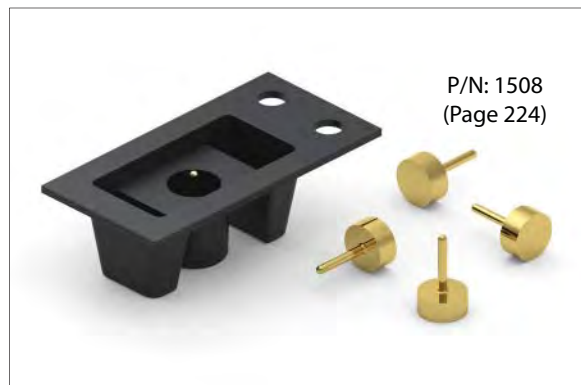
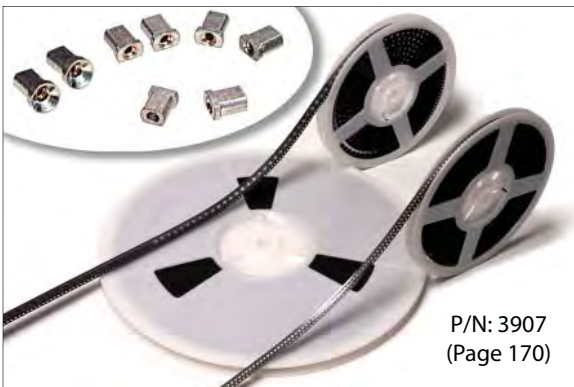
LOOSE PINS & RECEPTACLES FOR AUTOMATED 'PICK & PLACE' ASSEMBLY

Mill-Max offers receptacles (discrete sockets) on carrier tape per EIA-481 to feed automated 'pick & place' assembly equipment. Our standard reel size is 13".

Two types of pins and receptacles are available on carrier tape: surface mount, flat types, which sit on the surface of the PCB where the pin or component lead plugs-in parallel to the PCB; and through-hole types where the lead plugs-in perpendicular to the PCB. Through-hole pins and receptacles are intrusive reflow soldered*.

In addition, open bottom through-hole receptacles are available loaded with our Organic Fibre Plug® barrier which prevents solder paste or flux from contaminating the spring contact. After soldering, the OFP® barrier is pushed out of the receptacle when the device is plugged in.

*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated-through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated-through-holes and achieve solder joints as reliable as wave soldering. The OFP® barrier prevents solder paste from being picked up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.



PIN RECEPTACLES

FOR .040" - .050" DIAMETER PINS (#02 CONTACT)
FOR .040" - .060" DIAMETER PINS (#03 CONTACT)

<p>0355 0355-0-15-XX-02-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>0354 0354-0-15-XX-02-XX-10-0 Pentagonal press-fit in .104 min. plated through-hole</p>	<p>3490 3490-0-15-XX-02-XX-10-0 Press-fit in .091 mounting hole</p>	<p>3808 3808-0-15-XX-02-XX-10-0 Press-fit in .090 mounting hole</p>
<p>9184 9184-0-15-XX-02-XX-40-0 Bottom entry, surface mount .092 min. plated through-hole Also available on carrier tape, See page 194.12 for Tape & Reel details</p>	<p>9222 9222-2-15-XX-02-XX-40-0 Bottom entry, surface mount .082 min. plated through-hole Also available on carrier tape, See page 194.12 for Tape & Reel details</p>	<p>4064 4064-0-18-XX-03-XX-40-0 Surface mount Also available on 16mm wide carrier tape: 2,400 parts per 13" reel See page 194.13 for Tape & Reel details</p> <p>P.C.B. Layout</p>	

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#02 or #03 CONTACT (DATA ON PAGE 259)
 (For alternate contact choices, see group F on page 248)



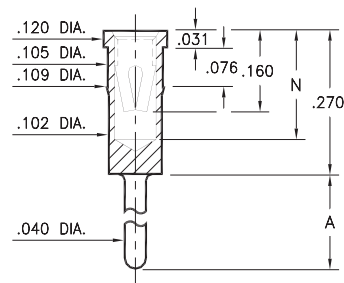
PIN RECEPTACLES

FOR .040" - .060" DIAMETER PINS (#03 CONTACT)
FOR .059" - .063" DIAMETER PINS (#42 CONTACT)

0433/8433

X433-0-15-XX-03-XX-04-0

Press-fit in .106 mounting hole

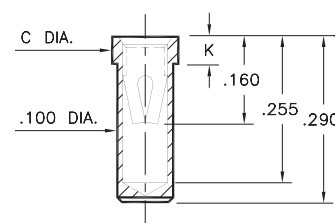


Basic Part Number	Length A	Depth N
0433-0	.120	.205
8433-0	.315	.230

0435/0436

043X-0-15-XX-03-XX-10-0

Solder mount in .102 min. mounting hole
 Also available on 24mm wide carrier tape:
 950 parts per 13" reel
 See page 194.13 for Tape & Reel details

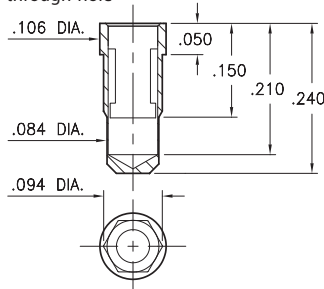


Basic Part Number	Dia. C	Length K
0435-0	.118	.050
0436-0	.125	.070

0342

0342-0-15-XX-42-XX-10-0

Hex press-fit in .090±.002 plated through-hole

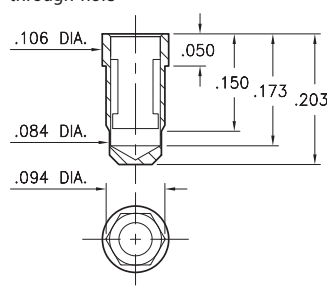


- 0342 receptacle uses Mill-Max's new #42 Contact. This receptacle will accept the $\varnothing.061 \pm .002$ power pins of ¼ brick DC/DC converters.
- #42 contact can be ordered in standard receptacles that use #03 contact; or it can be specified as the spring element inside custom made receptacles.

6342

6342-0-15-XX-42-XX-10-0

Hex press-fit in .090±.002 plated through-hole

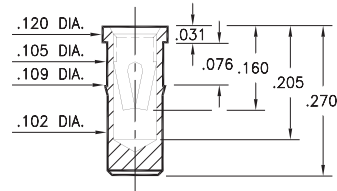


- 6342 receptacle uses Mill-Max's new #42 Contact. This receptacle will accept the $\varnothing.061 \pm .002$ power pins of ¼ brick DC/DC converters.
- #42 contact can be ordered in standard receptacles that use #03 contact; or it can be specified as the spring element inside custom made receptacles.

0434

0434-0-15-XX-03-XX-10-0

Press-fit in .106 mounting hole



Mechanical Data #42 Contact:

Insertion/Extraction Force with a $\varnothing.061$ (nominal) pin:

First Cycle		2nd & Subsequent Cycles	
Insertion Force	Extraction Force	Insertion Force	Extraction Force
20N	6N	10N	6N

Compliance Test (the "spring back" characteristic of the contact to accept $\varnothing.059$ small pin after insertion of a $\varnothing.063$ large pin) :

Initial Cycle with $\varnothing.059$ pin		Second Cycle with $\varnothing.063$ pin		Third Cycle with $\varnothing.059$ pin	
Ins. Force	Ext. Force	Ins. Force	Ext. Force	Ins. Force	Ext. Force
18N	6N	22N	7N	3N	2N

(Insertion/Extraction Forces are in Newtons and measured with polished steel gage pins having elliptical shaped tips).

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$

Diameters: $\pm .002$

Angles: $\pm 2^\circ$



ORDER CODE: **XXXX - X - XX - XX - XX - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#03 or #42 CONTACT (DATA ON PAGE 259)



PIN RECEPTACLES

**FOR .048" - .064" DIAMETER PINS (#13 CONTACT)
FOR .045" - .065" DIAMETER PINS (#23 CONTACT)**

<p>0364 0364-0-15-XX-13-XX-10-0 Solder mount in .100 min. mounting hole Also available on 16mm wide carrier tape: 1,300 parts per 13" reel See page 194.13 for Tape & Reel details</p>	<p>0363 0363-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>0365 0365-0-15-XX-23-XX-10-0 Hex press-fit in .105 plated through-hole Also available on 16mm wide carrier tape: 1,200 parts per 13" reel See page 194.14 for Tape & Reel details</p>	<p>0366 0366-0-15-XX-13-XX-10-0 Press-fit in .109 mounting hole</p>
<p>0372 0372-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole Also available on 24mm wide carrier tape: 950 parts per 13" reel See page 194.14 for Tape & Reel details</p>	<p>0362 0362-0-15-XX-X3-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>0367 0367-0-15-XX-23-XX-10-0 Square press-fit in .040 plated through-hole</p>	<p>9324 9324-0-15-XX-23-XX-04-0 Press-fit in .106 mounting hole</p>
<p>0492 0492-0-15-XX-13-XX-04-0 Press-fit in .106 mounting hole</p>	<p>0381 0381-0-15-XX-23-XX-10-0 Press-fit in .104 mounting hole</p>	<p>4034 4034-0-15-XX-23-XX-04-0 Press-fit in .109 mounting hole</p>	<p>3044 3044-0-15-XX-23-XX-04-0 Solder mount in .104 min. mounting hole</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#13 or #23 CONTACT (DATA ON PAGE 260)

(For alternate contact choices, see group G on page 248)



PIN RECEPTACLES

FOR .048" - .064" DIAMETER PINS (#13 CONTACT)
FOR .045" - .065" DIAMETER PINS (#23 CONTACT)

<p>0496 0496-0-15-XX-23-XX-10-0 Press-fit in .106 mounting hole</p>	<p>0368 0368-0-33-XX-13-XX-10-0 Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.</p>	<p>8067 8067-0-19-XX-13-XX-10-0 Wire Termination. Accepts wire sizes 24 AWG Max. / 28 AWG Min.</p>	<p>1105 1105-0-15-XX-13-XX-04-0 Press-fit in .080 mounting hole</p>
<p>8730 8730-0-19-XX-23-XX-10-0 Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.</p>	<p>3667 3667-0-19-XX-23-XX-10-0 Wire crimp termination. Accepts wire sizes 18 AWG Max. / 22 AWG Min.</p>	<p>9372 9372-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>4582 4582-0-15-XX-23-XX-10-0 Square press-fit in .040 plated through-hole</p>
<p>5834 5834-0-15-XX-23-XX-10-0 Press-fit in .107 mounting hole</p>	<p>9401 9401-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole Also available on 24mm wide carrier tape: 1,100 parts per 13" reel See page 194.14 for Tape & Reel details</p>	<p>9801 9801-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole Also available on 16mm wide carrier tape: 1,200 parts per 13" reel See page 194.14 for Tape & Reel details</p>	<p>8829 8829-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole Also available on 24mm wide carrier tape: 950 parts per 13" reel See page 194.14 for Tape & Reel details</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: $\pm .005$
 Diameters: $\pm .002$
 Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ m TIN/LEAD OVER NICKEL
- ◆ 80 200 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ m TIN/LEAD OVER NICKEL
- ◆ 80 200 μ m TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#13 or #23 CONTACT (DATA ON PAGE 260)

(For alternate contact choices, see group G on page 248)



PIN RECEPTACLES

**FOR .048" - .064" DIAMETER PINS (#13 CONTACT)
FOR .045" - .065" DIAMETER PINS (#23 CONTACT)**

<p>8365 8365-0-15-XX-13-XX-10-0 Hex press-fit in .106 plated through-hole</p>	<p>8996 8996-0-31-XX-13-XX-04-0 Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board</p>	<p>9064 9064-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole Also available on 16mm wide carrier tape: 1,300 parts per 13" reel See page 194.14 for Tape & Reel details</p>	<p>9280 9280-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole</p>
<p>8347 8347-0-15-XX-13-XX-10-0 Solder mount in .109 min. mounting hole</p>	<p>4900 4900-0-19-XX-23-XX-10-0 Swage mount in .067 hole</p>	<p>0716 0716-0-33-XX-23-XX-10-0 Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.</p>	<p>0760 0760-0-18-XX-13-XX-10-0 Press-fit in .106 mounting hole For wire sizes up to 16 AWG</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#13 or #23 CONTACT (DATA ON PAGE 260)
(For alternate contact choices, see group G on page 248)



PIN RECEPTACLES

FOR .065" - .082" DIAMETER PINS

<p>0394 0394-0-15-XX-07-XX-10-0 Solder mount in .120 min. mounting hole</p>	<p>0393 0393-0-15-XX-07-XX-10-0 Solder mount in .144 min. mounting hole</p>	<p>0391 0391-0-15-XX-07-XX-10-0 Solder mount in .159 min. mounting hole</p>	<p>9016 9016-0-15-XX-07-XX-10-0 Press-fit in .131 mounting hole</p>
<p>0493 0493-0-15-XX-07-XX-10-0 Press-fit in .144 mounting hole</p>	<p>0490 0490-0-15-XX-07-XX-04-0 Press-fit in .144 mounting hole</p>	<p>0616 0616-0-18-XX-07-XX-10-0 Press-fit in .144 mounting hole Accepts wire sizes up to .035" dia.</p>	<p>0387 0387-0-15-XX-07-XX-04-0 Solder mount in .063 min. mounting hole</p>
<p>0370 0370-0-19-XX-07-XX-10-0 Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.</p>	<p>4040 4040-0-19-XX-07-XX-10-0 Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.</p>	<p>0491 0491-0-19-XX-07-XX-04-0 For horizontal wire termination</p>	<p>9214 9214-0-15-XX-07-XX-10-0 Solder mount in .083 min. mounting hole</p>

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
 Diameters: ±.002
 Angles: ± 2°



ORDER CODE: XXXX - X - 1X - XX - 07 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#07 CONTACT (DATA ON PAGE 261)

(For alternate contact choices, see group H on page 248)



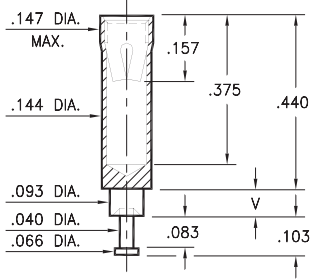
PIN RECEPTACLES

FOR .065" - .082" DIAMETER PINS

0395

0395-X-15-XX-07-XX-10-0

Swage mount in .096 hole

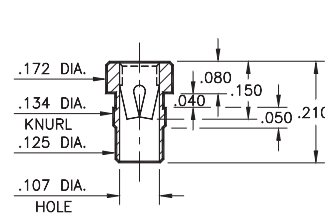


Basic Part Number	Board Thickness	Length V
0395-1	.031	.062
0395-2	.062	.094
0395-3	.094	.125
0395-4	.125	.156
0395-5	.188	.219

8016

8016-0-15-XX-07-XX-10-0

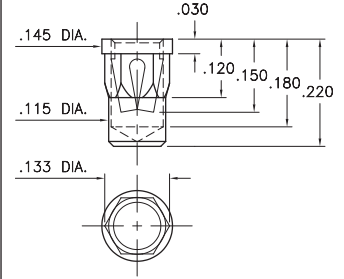
Press-fit in .131 mounting hole



0350

0350-0-15-XX-07-XX-10-0

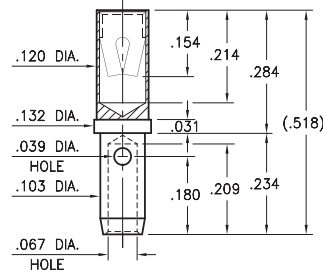
Hex press-fit in .129±.002 plated through-hole



0714

0714-0-33-XX-07-XX-10-0

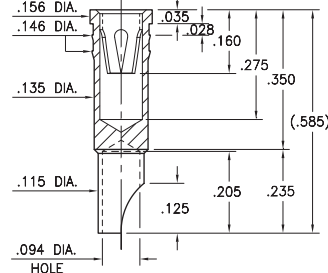
Wire crimp termination. Accepts wire sizes 14 AWG Max. / 16 AWG Min.



0778

0778-0-18-XX-07-XX-10-0

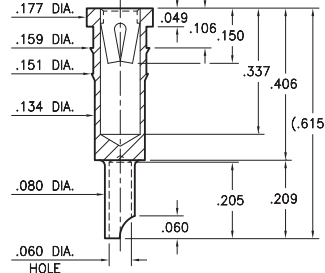
Press-fit in .143 mounting hole
Accepts wire sizes up to 14 AWG



9177

9177-0-18-XX-07-XX-10-0

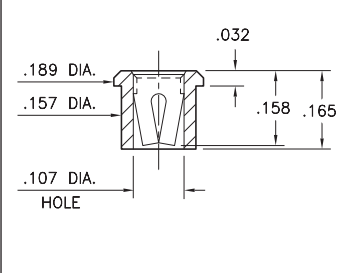
Press-fit in .151 mounting hole
Accepts wire sizes up to 16 AWG



5391

5391-0-15-XX-07-XX-10-0

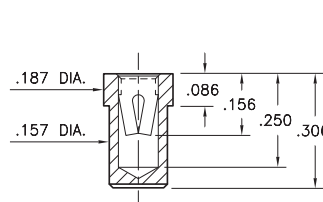
Solder mount in .159 min. mounting hole



8837

8837-0-15-XX-14-XX-10-0

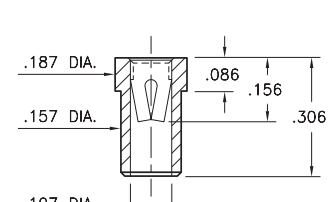
Solder mount in .159 min. mounting hole



9837

9837-0-15-XX-14-XX-10-0

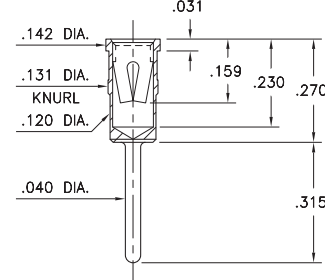
Solder mount in .159 min. mounting hole



8994

8994-0-15-XX-07-XX-04-0

Press-fit in .128 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#07 or #14 CONTACT (DATA ON PAGE 261)

(For alternate contact choices, see group H on page 248)



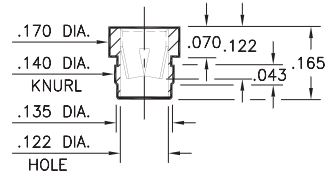
PIN RECEPTACLES

FOR .084" - .102" DIAMETER PINS

0388

0388-0-15-XX-08-XX-10-0

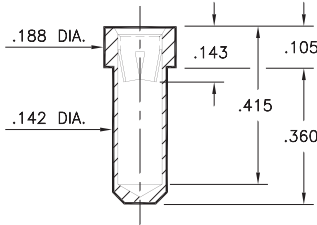
Press-fit in .138 mounting hole



0390

0390-0-15-XX-08-XX-10-0

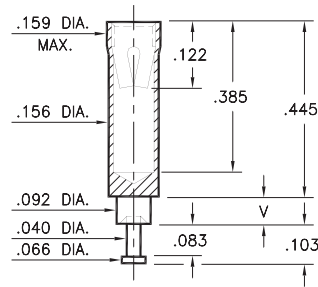
Solder mount in .144 min. mounting hole



0389

0389-X-15-XX-08-XX-10-0

Swage mount in .094 hole

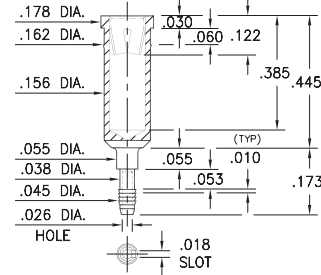


Basic Part Number	Board Thickness	Length V
0389-2	.062	.094
0389-3	.094	.125
0389-4	.125	.156

8963

8963-0-31-XX-08-XX-04-0

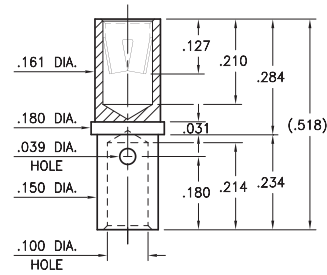
Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board



0712

0712-0-33-XX-08-XX-10-0

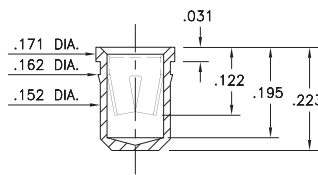
Wire crimp termination. Accepts wire sizes 12 AWG Max. / 14 AWG Min.



5493

5493-0-15-XX-08-XX-10-0

Press-fit in .158 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ± .005

Diameters: ± .002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 08 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#08 CONTACT (DATA ON PAGE 262)



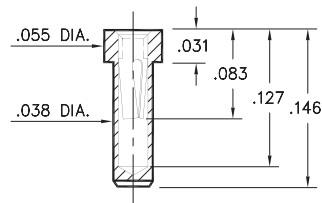
PIN RECEPTACLES

**FOR .015" - .020" DIAMETER PINS (#11 CONTACT)
FOR .015" - .022" DIAMETER PINS (#21 CONTACT)
RECEPTACLES ON TAPE & REEL PACKAGING**

1407

1407-0-15-XX-11-XX-10-0

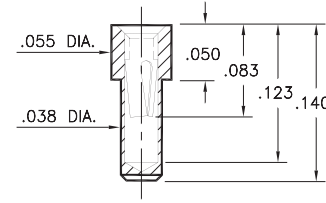
Solder mount in .040 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 13" reel
Order as: 1407-0-57-XX-11-XX-10-0



0569

0569-0-15-XX-X1-XX-10-0

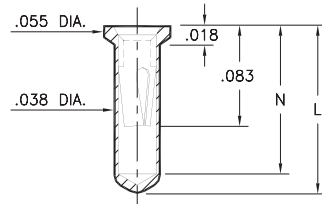
Solder mount in .040 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
Order as: 0569-0-57-XX-X1-XX-10-0



0552

0552-X-15-XX-X1-XX-10-0

Solder mount in .040 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 13" reel
Order as: 0552-X-57-XX-X1-XX-10-0

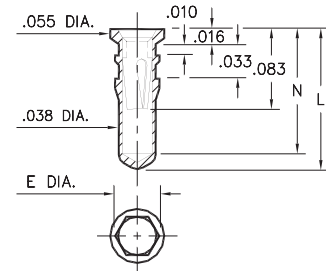


Basic Part Number	Length L	Depth N
0552-1	.136	.120
0552-2	.170	.150

0553

0553-X-15-XX-X1-XX-10-0

Also available on 16mm wide carrier tape:
1,580 parts per 13" reel
Order as: 0553-2-57-XX-11-XX-10-0

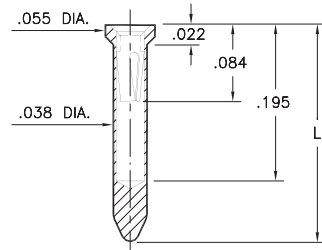


Basic Part Number	Hex Dia. E	Length L	Depth N
0553-1	.044	.140	.124
0553-2	.044	.170	.154
0553-3	.044	.282	.266

8579

8579-X-15-XX-X1-XX-10-0

Solder mount in .040 min. mounting hole
Also available on 24mm wide carrier tape:
See chart for Tape & Reel Qtys.
Order as: 8579-X-57-XX-X1-XX-10-0



Basic Part Number	Length L
8579-0	.234
8579-1	.295

T&R Packaging

Basic Part Number	Tape Width	Parts per 13" Reel
8579-0	24mm	1,200
8579-1	24mm	1,000

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)

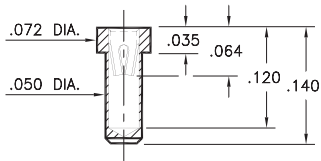
PIN RECEPTACLES

**FOR .015" - .022" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING**

0550 *

0550-0-15-XX-22-XX-10-0

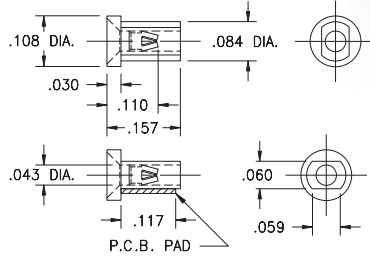
Solder mount in .052 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
Order as: 0550-0-57-XX-22-XX-10-0



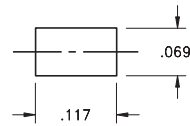
5739

5739-0-18-XX-12-XX-10-0

Surface mount
Also available on 16mm wide carrier tape:
3,000 parts per 13" reel
Order as: 5739-0-58-XX-12-XX-10-0



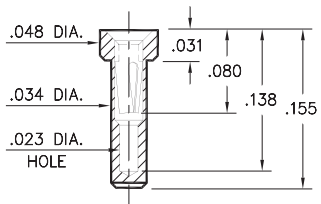
P.C.B. Layout



3016

3016-0-15-XX-21-XX-10-0

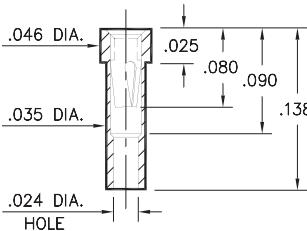
Solder mount in .036 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 13" reel
Order as: 3016-0-57-XX-21-XX-10-0



8637

8637-0-15-XX-21-XX-10-0

Solder mount in .037 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
Order as: 8637-0-57-XX-21-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#12, #21 or #22 CONTACT (DATA ON PAGE 251 & 252)

(Contact may be interchanged with group A, B & C contact on page 248)

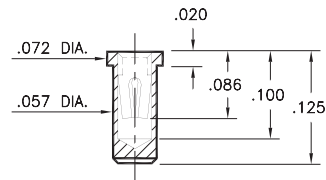
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0669

0669-0-15-XX-30-XX-10-0

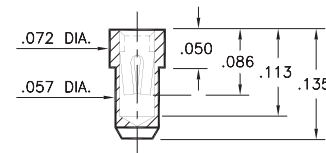
Solder mount in .060 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
Order as: 0669-0-57-XX-30-XX-10-0



0670

0670-0-15-XX-30-XX-10-0

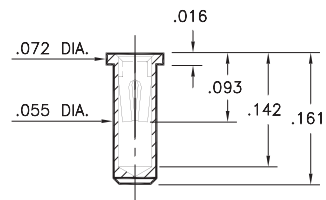
Solder mount in .060 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
Order as: 0670-0-57-XX-30-XX-10-0



0667

0667-0-15-XX-30-XX-10-0

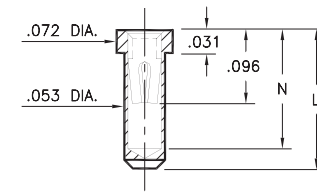
Solder mount in .057 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
Order as: 0667-0-57-XX-30-XX-10-0



1401/3185

XXXX-0-15-XX-30-XX-10-0

Solder mount in .055 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
Order as: XXXX-0-57-XX-30-XX-10-0

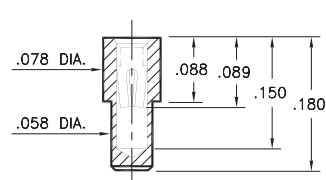


Basic Part Number	Length L	Depth N
1401-0	.165	.145
3185-0	.130	.109

0665

0665-0-15-XX-30-XX-10-0

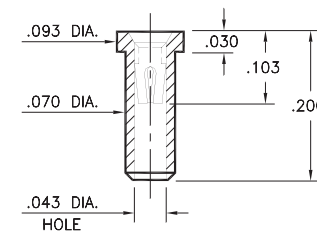
Solder mount in .061 min. mounting hole
Also available on 16mm wide carrier tape:
1,580 parts per 13" reel
Order as: 0665-0-57-XX-30-XX-10-0



0341

0341-0-15-XX-30-XX-10-0

Solder mount in .073 mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 13" reel
Order as: 0341-0-57-XX-30-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ " TIN/LEAD OVER NICKEL
- ◆ 84 100 μ " TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see group B & C on page 248)

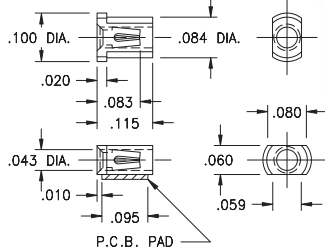
PIN RECEPTACLES

FOR .015" - .025" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

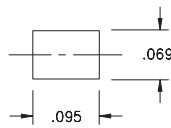
3907

3907-0-18-XX-30-XX-10-0

Surface mount
Also available on 12mm wide carrier tape:
4,000 parts per 13" reel
Order as: 3907-0-58-XX-30-XX-10-0



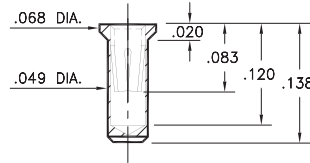
P.C.B. Layout



0680

0680-0-15-XX-32-XX-10-0

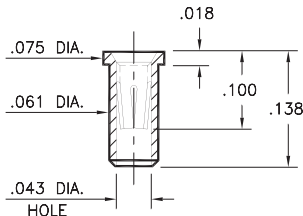
Solder mount in .051 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
Order as: 0680-0-57-XX-32-XX-10-0



0666

0666-0-15-XX-32-XX-10-0

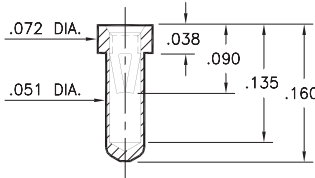
Solder mount in .064 min. mounting hole
Also available on 16mm wide carrier tape:
2,000 parts per 13" reel
Order as: 0666-0-57-XX-32-XX-10-0



0555

0555-0-15-XX-32-XX-10-0

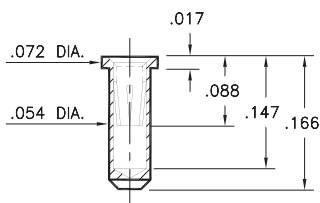
Solder mount in .053 min. mounting hole
Also available on 16mm wide carrier tape:
1,800 parts per 13" reel
Order as: 0555-0-57-XX-32-XX-10-0



0682

0682-0-15-XX-32-XX-10-0

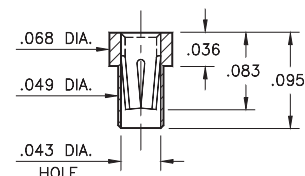
Solder mount in .056 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 13" reel
Order as: 0682-0-57-XX-32-XX-10-0



5342

5342-0-15-XX-35-XX-10-0

Solder mount in .051 min. mounting hole
Also available on 8mm wide carrier tape:
6,000 parts per 13" reel
Order as: 5342-0-57-XX-35-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30, #32 or #35 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see group B & C on page 248)

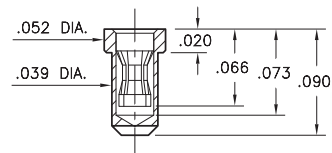
PIN RECEPTACLES

**FOR .018" - .023" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING**

0507

0507-0-15-XX-31-XX-10-0

Solder mount in .042 min. mounting hole
Also available on 16mm wide carrier tape:
3,000 parts per 13" reel
Order as: 0507-0-57-XX-31-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#31 CONTACT

(For alternate contact choices, see group A on page 248)

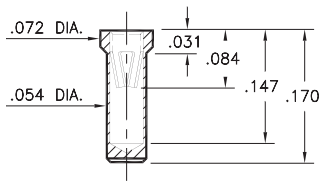
PIN RECEPTACLES

**FOR .020" - .032" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING**

0338

0338-0-15-XX-15-XX-10-0

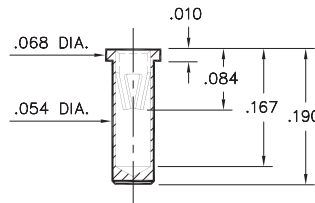
Solder mount in .057 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel
Order as: 0338-0-57-XX-15-XX-10-0



0339

0339-0-15-XX-15-XX-10-0

Solder mount in .057 min. mounting hole
Also available on 24mm wide carrier tape:
1,540 parts per 13" reel
Order as: 0339-0-57-XX-15-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#15 CONTACT (DATA ON PAGE 254)

(For alternate contact choices, see group K on page 248)

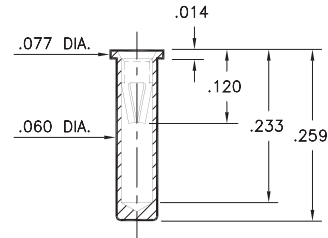
PIN RECEPTACLES

FOR .022" - .032" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0295

0295-0-15-XX-06-XX-10-0

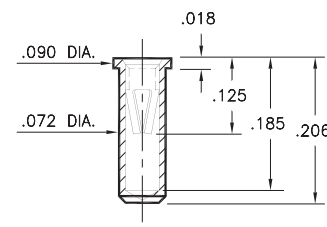
Solder mount in .063 min. mounting hole
Also available on 12mm wide carrier tape:
1,000 parts per 13" reel
Order as: 0295-0-57-XX-06-XX-10-0



0294

0294-0-15-XX-06-XX-10-0

Solder mount in .076 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 13" reel
Order as: 0294-0-57-XX-06-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06 CONTACT (DATA ON PAGE 255)

(For alternate contact choices, see group D on page 248)

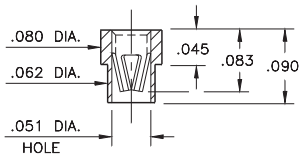
PIN RECEPTACLES

**FOR .022" - .034" DIAMETER PINS AND .025" SQUARE PINS
RECEPTACLES ON TAPE & REEL PACKAGING**

0287

0287-0-15-XX-16-XX-10-0

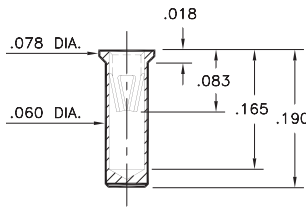
Solder mount in .065 min. mounting hole
Also available on 8mm wide carrier tape:
3,250 parts per 13" reel
Order as: 0287-0-57-XX-16-XX-10-0



0415

0415-0-15-XX-16-XX-10-0

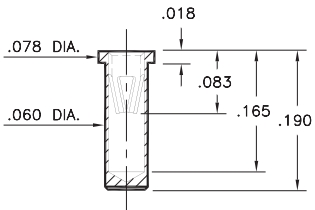
Solder mount in .063 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 13" reel
Order as: 0415-0-57-XX-16-XX-10-0



6021

6021-0-15-XX-16-XX-10-0

Solder mount in .062 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 13" reel
Order as: 6021-0-57-XX-16-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#16 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)

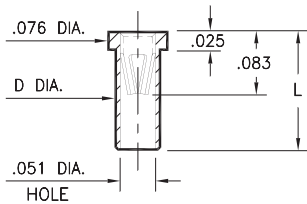
PIN RECEPTACLES

**FOR .025" - .037" DIAMETER PINS AND .025" SQUARE PINS
RECEPTACLES ON TAPE & REEL PACKAGING**

0305

0305-X-15-XX-47-XX-10-0

Solder mount in .059/.061 mounting hole
Also available on 8mm or 24mm wide carrier tape: See chart for details
Order as: 0305-X-57-XX-47-XX-10-0



Basic Part Number	Length L	Dia. D
0305-0	.095	.056
0305-1	.105	.058
0305-2	.155	.058

T&R Packaging

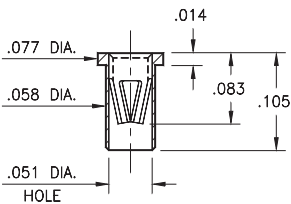
Basic Part Number	Tape Width	Parts per 13" Reel
0305-0	8mm	6,000
0305-1	8mm	6,000
0305-2	24mm	1,500



7305

7305-0-15-XX-47-XX-10-0

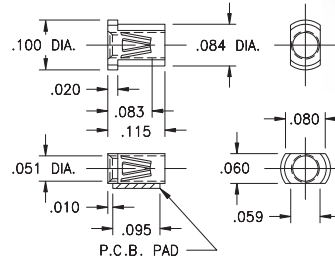
Solder mount in .060 min. mounting hole
Also available on 8mm wide carrier tape: 6,000 parts per 13" reel
Order as: 7305-0-57-XX-47-XX-10-0



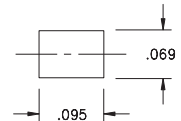
8806

8806-0-18-XX-47-XX-40-0

Surface mount
Also available on 12mm wide carrier tape: 4,000 parts per 13" reel
Order as: 8806-0-58-XX-47-XX-10-0



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART # →

SPECIFY SHELL FINISH: →

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH: →

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#47 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)

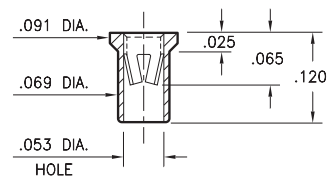
PIN RECEPTACLES

FOR .037" - .043" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

7406

7406-0-15-XX-18-XX-10-0

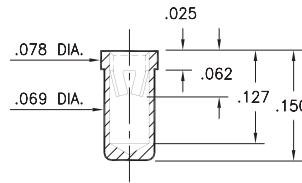
Solder mount in .071 min. mounting hole
Also available on 16mm wide carrier tape:
2,200 parts per 13" reel
Order as: 7406-0-57-XX-18-XX-10-0



8331

8331-0-15-XX-18-XX-10-0

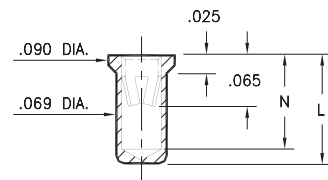
Solder mount in .071 min. mounting hole
Also available on 16mm wide carrier tape:
1,900 parts per 13" reel
Order as: 8331-0-57-XX-18-XX-10-0



0331/9353

X3XX-0-15-XX-18-XX-10-0

Solder mount in .071 min. mounting hole
Also available on 24mm wide carrier tape:
1,000 parts per 13" reel
Order as: X3XX-0-57-XX-18-XX-10-0

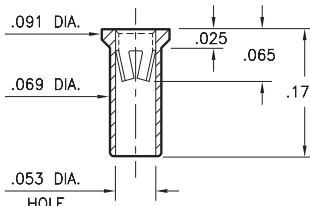


Basic Part Number	Length L	Depth N
0331-0	.150	.127
9353-0	.170	.147

9354

9354-0-15-XX-18-XX-10-0

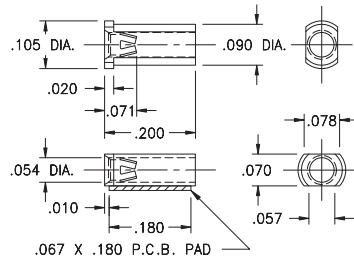
Solder mount in .071 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 13" reel
Order as: 9354-0-57-XX-18-XX-10-0



6628

6628-0-18-XX-18-XX-10-0

Surface mount
Also available on 12mm wide carrier tape:
3,700 parts per 13" reel
Order as: 6628-0-58-XX-18-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#18 CONTACT (DATA ON PAGE 257)

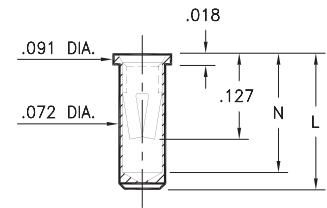
(For alternate contact choices, see group L on page 248)

PIN RECEPTACLES

FOR .032" - .046" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

0327/0351/0373

03XX-0-15-XX-34-XX-10-0
Solder mount in .075 min. mounting hole
Also available on 12mm or 24mm wide carrier tape: See chart for details
Order as: 03XX-0-57-XX-34-XX-10-0



Basic Part Number	Length L	Depth N
0327-0	.206	.180
0351-0	.226	.200
0373-0	.270	.241

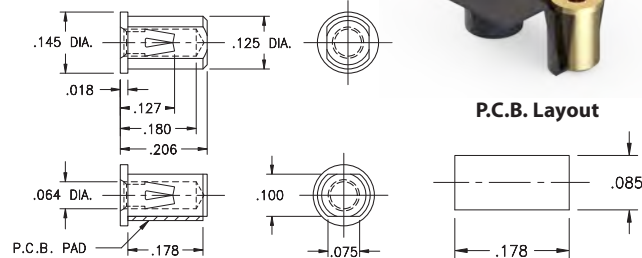
T&R Packaging

Basic Part Number	Tape Width	Parts per 13" Reel
0327-0	12mm	1,400
0351-0	24mm	1,100
0373-0	24mm	1,000



8206

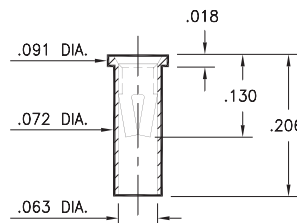
8206-0-15-XX-34-XX-40-0
Surface mount, board edge
Also available on 16mm wide carrier tape:
Packaged Vertically 1,400 parts per 13" reel
Order as: 8206-0-57-XX-34-XX-40-0



P.C.B. Layout

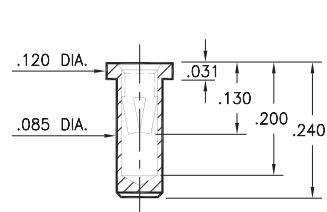
0312

0312-0-15-XX-34-XX-10-0
Solder mount in .075 min. mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 13" reel
Order as: 0312-0-57-XX-34-XX-10-0



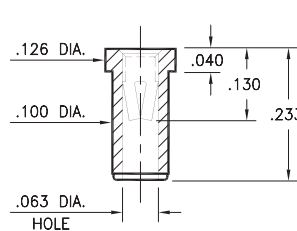
0340

0340-0-15-XX-34-XX-10-0
Solder mount in .087 min. mounting hole
Also available on 24mm wide carrier tape:
1,250 parts per 13" reel
Order as: 0340-0-57-XX-34-XX-10-0



0356

0356-0-15-XX-34-XX-10-0
Solder mount in .102 min. mounting hole
Also available on 24mm wide carrier tape:
1,100 parts per 13" reel
Order as: 0356-0-57-XX-34-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Dimensions: Inches
Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)

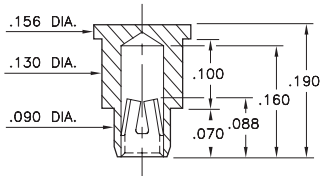
PIN RECEPTACLES

FOR .040" - .050" DIAMETER PINS
RECEPTACLES ON TAPE & REEL PACKAGING

9184

9184-0-15-XX-02-XX-40-0

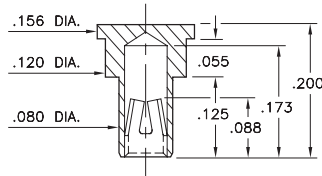
Bottom entry, surface mount
.092 min. plated through-hole
Also available on carrier tape,
Order as: 9184-0-57-XX-02-XX-40-0



9222

9222-2-15-XX-02-XX-40-0

Bottom entry, surface mount
.082 min. plated through-hole
Also available on carrier tape,
Order as: 9222-2-57-XX-02-XX-40-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#02 CONTACT (DATA ON PAGE 259)

(For alternate contact choices, see group F on page 248)

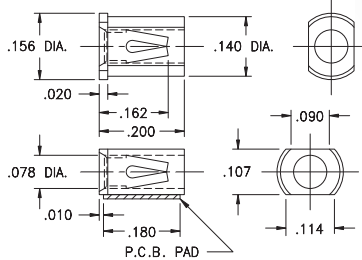
PIN RECEPTACLES

FOR .040" - .060" DIAMETER PINS (#03 CONTACT)
FOR .048" - .064" DIAMETER PINS (#13 CONTACT)
RECEPTACLES ON TAPE & REEL PACKAGING

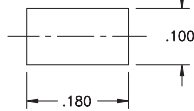
4064

4064-0-18-XX-03-XX-40-0

Surface mount
 Also available on 16mm wide carrier tape:
 2,400 parts per 13" reel
 Order as: 4064-0-58-XX-03-XX-40-0



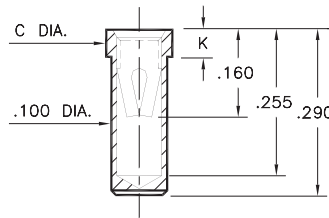
P.C.B. Layout



0435/0436

043X-0-15-XX-03-XX-10-0

Solder mount in .102 min. mounting hole
 Also available on 24mm wide carrier tape:
 950 parts per 13" reel
 Order as: 0435-0-57-XX-03-XX-10-0

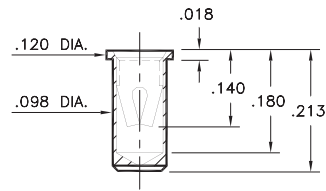


Basic Part Number	Dia. C	Length K
0435-0	.118	.050
0436-0	.125	.070

0364

0364-0-15-XX-13-XX-10-0

Solder mount in .100 min. mounting hole
 Also available on 16mm wide carrier tape:
 1,300 parts per 13" reel
 Order as: 0364-0-57-XX-13-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
 Diameters: $\pm .002$
 Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART # \swarrow

SPECIFY SHELL FINISH: \swarrow

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH: \swarrow

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#03 or #13 CONTACT (DATA ON PAGE 259 - 260)

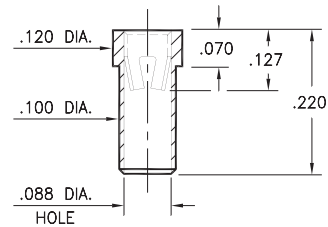
PIN RECEPTACLES

**FOR .048" - .064" DIAMETER PINS (#13 CONTACT)
FOR .045" - .065" DIAMETER PINS (#23 CONTACT)
RECEPTACLES ON TAPE & REEL PACKAGING**

9064

9064-0-15-XX-13-XX-10-0

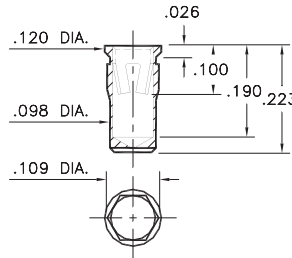
Solder mount in .102 min. mounting hole
Also available on 16mm wide carrier tape:
1,300 parts per 13" reel
Order as: 9064-0-57-XX-13-XX-10-0



0365

0365-0-15-XX-23-XX-10-0

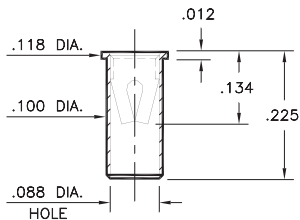
Hex press-fit in .105 plated through-hole
Also available on 16mm wide carrier tape:
1,200 parts per 13" reel
Order as: 0365-0-57-XX-23-XX-10-0



0372

0372-0-15-XX-13-XX-10-0

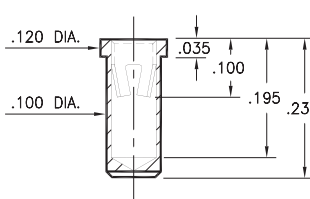
Solder mount in .102 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 13" reel
Order as: 0372-0-57-XX-13-XX-10-0



9401

9401-0-15-XX-23-XX-10-0

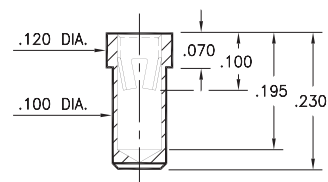
Solder mount in .102 min. mounting hole
Also available on 24mm wide carrier tape:
1,100 parts per 13" reel
Order as: 9401-0-57-XX-23-XX-10-0



9801

9801-0-15-XX-23-XX-10-0

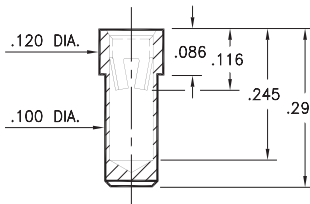
Solder mount in .102 min. mounting hole
Also available on 16mm wide carrier tape:
1,200 parts per 13" reel
Order as: 9801-0-57-XX-23-XX-10-0



8829

8829-0-15-XX-23-XX-10-0

Solder mount in .102 min. mounting hole
Also available on 24mm wide carrier tape:
950 parts per 13" reel
Order as: 8829-0-57-XX-23-XX-10-0



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 200 μ" TIN/LEAD OVER NICKEL

◆ 80 200 μ" TIN OVER NICKEL (RoHS)

◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#13 or #23 CONTACT (DATA ON PAGE 260)

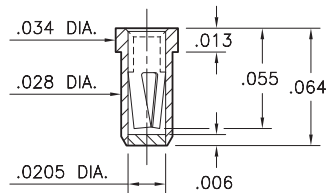
(For alternate contact choices, see group G on page 248)

PIN RECEPTACLES

PIN RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER (SEE SPECIFIC CONTACT RANGE ON PAGES 250, 251 & 253)

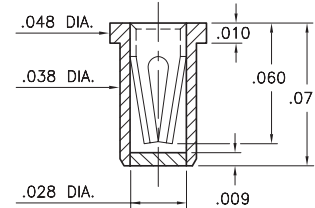
4428

4428-0-XX-XX-04-XX-10-0
Solder mount in $\varnothing .032$ " max. PTH
#04 Contact for $\varnothing .008$ " - $.013$ " pins
Also available on 16mm wide carrier tape:
3,400 parts per 13" reel



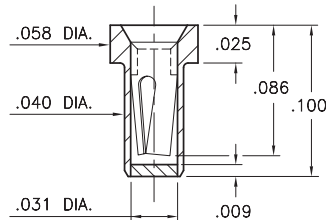
5359

5359-0-XX-XX-10-XX-10-0
Solder mount in $\varnothing .043$ " $\pm .003$ " PTH
#10 Contact for $\varnothing .012$ " - $.017$ " pins
Also available on 16mm wide carrier tape:
3,000 parts per 13" reel



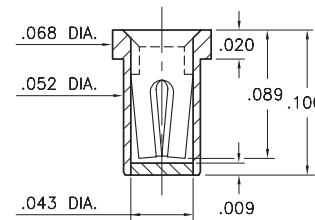
0577

0577-0-XX-XX-21-XX-10-0
Solder mount in $\varnothing .045$ " $\pm .003$ " PTH
#21 Contact for $\varnothing .015$ " - $.022$ " pins
Also available on 12mm wide carrier tape:
3,000 parts per 13" reel



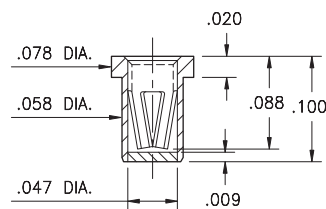
4015

4015-0-XX-XX-30-XX-10-0
Solder mount in $\varnothing .057$ " $\pm .003$ " PTH
#30 Contact for $\varnothing .015$ " - $.025$ " pins
Also available on 8mm wide carrier tape:
5,500 parts per 13" reel



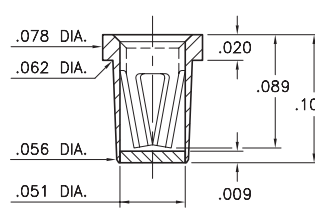
0337

0337-0-XX-XX-15-XX-10-0
Solder mount in $\varnothing .066$ " $\pm .003$ " PTH
#15 Contact for $\varnothing .020$ " - $.032$ " pins
Also available on 8mm wide carrier tape:
6,000 parts per 13" reel



4280

4280-0-XX-XX-16-XX-10-0
Solder mount in $\varnothing .067$ " $\pm .003$ " PTH
#16 Contact for $\varnothing .022$ " - $.034$ " pins
Also available on 8mm wide carrier tape:
6,000 parts per 13" reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Solder Barrier: Organic Fibre Plug®
Dimensions: Inches
Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:

- 43 Discrete Receptacles
- 67 Supplied on 13" Reels

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- 80 200 μ " TIN OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 27 30 μ " GOLD OVER NICKEL (RoHS)
- 02 100 μ " TIN/LEAD OVER NICKEL
- 84 100 μ " TIN OVER NICKEL (RoHS)

CONTACT:

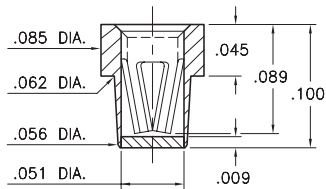
#04, #10, #15, #16, #21 or #30 CONTACT (DATA ON PAGES 250, 251 & 253)

PIN RECEPTACLES

PIN RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER (SEE SPECIFIC CONTACT RANGE ON PAGES 254 - 262)

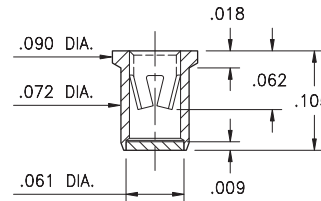
5280

5280-0-XX-XX-16-XX-40-0
Solder mount in $\varnothing .067" \pm .003"$ PTH
#16 Contact for $\varnothing .022" - .034"$ pins
Also available on 16mm wide carrier tape:
2,200 parts per 13" reel



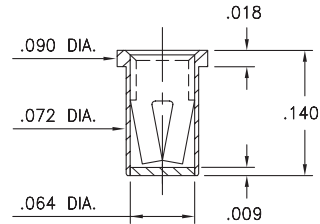
0332

0332-0-XX-XX-18-XX-10-0
Solder mount in $\varnothing .079" \pm .003"$ PTH
#18 Contact for $\varnothing .037" - .043"$ pins
Also available on 16mm wide carrier tape:
2,200 parts per 13" reel



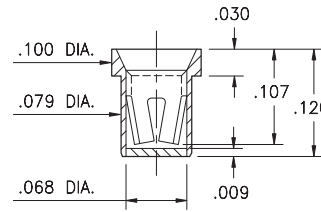
0479

0479-0-XX-XX-34-XX-10-0
Solder mount in $\varnothing .077" \pm .003"$ PTH
#34 Contact for $\varnothing .032" - .046"$ pins
Also available on 16mm wide carrier tape:
2,200 parts per 13" reel



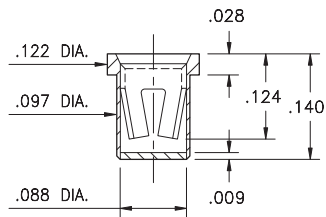
0375

0375-0-XX-XX-02-XX-10-0
Solder mount in $\varnothing .087" \pm .003"$ PTH
#02 Contact for $\varnothing .040" - .050"$ pins
Also available on 12mm wide carrier tape:
4,500 parts per 13" reel



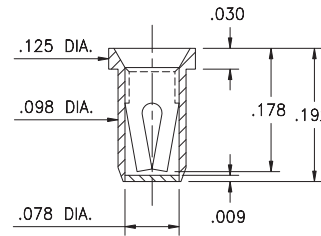
0384

0384-0-XX-XX-23-XX-10-0
Solder mount in $\varnothing .105" \pm .003"$ PTH
#23 Contact for $\varnothing .045" - .065"$ pins
Also available on 12mm wide carrier tape:
2,000 parts per 13" reel



0353

0353-0-XX-XX-03-XX-10-0
Solder mount in $\varnothing .106" \pm .003"$ PTH
#03 Contact for $\varnothing .040" - .060"$ pins
Also available on 12mm wide carrier tape:
1,300 parts per 13" reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Solder Barrier: Organic Fibre Plug®
Dimensions: Inches
Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:

- 43 Discrete Receptacles
- 67 Supplied on 13" Reels

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- 80 200 μ " TIN OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 27 30 μ " GOLD OVER NICKEL (RoHS)
- 02 100 μ " TIN/LEAD OVER NICKEL
- 80 200 μ " TIN OVER NICKEL (RoHS)

CONTACT:

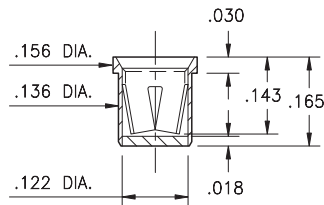
#02, #03, #16, #18, #23, or #34 CONTACT (DATA ON PAGES 254 - 262)

PIN RECEPTACLES

PIN RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER (SEE SPECIFIC CONTACT RANGE ON PAGES 256 - 262)

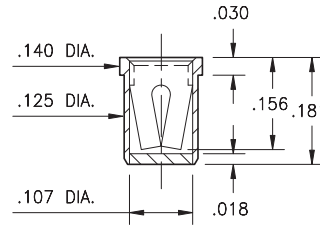
0321

0321-0-XX-XX-08-XX-10-0
Solder mount in $\varnothing .144" \pm .003"$ PTH
#08 Contact for $\varnothing .084" - .102"$ pins
Also available on 16mm wide carrier tape:
1,700 parts per 13" reel



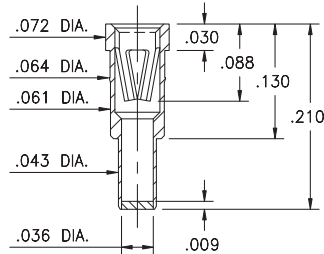
0376

0376-0-XX-XX-07-XX-10-0
Solder mount in $\varnothing .133" \pm .003"$ PTH
#07 Contact for $\varnothing .065" - .082"$ pins
Also available on 16mm wide carrier tape:
1,500 parts per 13" reel



3435

3435-0-XX-XX-47-XX-04-0
Solder mount in $\varnothing .046" \pm .003"$ PTH
#47 Contact for $\varnothing .025" - .037"$ and $.025"$ square pins. Also available on 24mm wide carrier tape: 1,400 parts per 13" reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Solder Barrier: Organic Fibre Plug®
Dimensions: Inches
Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:

- 43 Discrete Receptacles
- 67 Supplied on 13" Reels

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- ◆ 27 30 μ " GOLD OVER NICKEL (RoHS)
- 02 100 μ " TIN/LEAD OVER NICKEL
- ◆ 84 100 μ " TIN OVER NICKEL (RoHS)

CONTACT:

#07, #08 or #47 CONTACT (DATA ON PAGES 256-262)

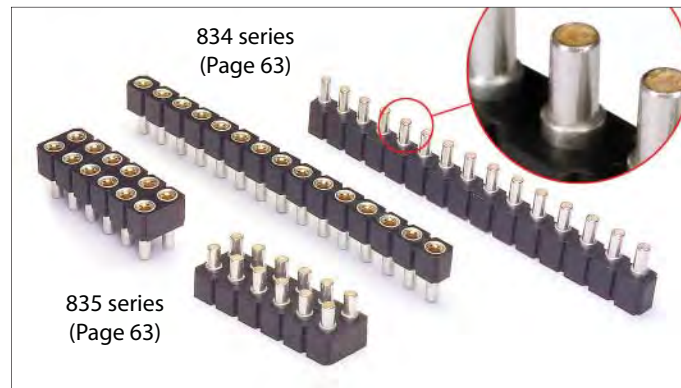
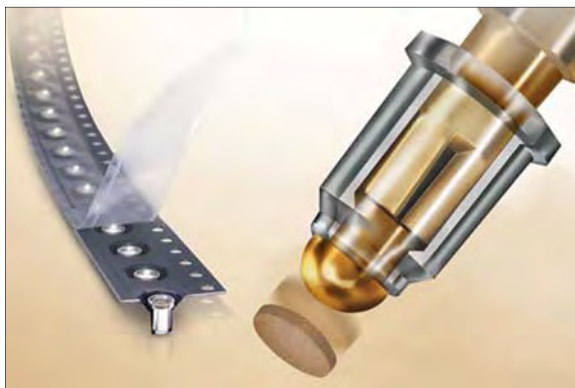
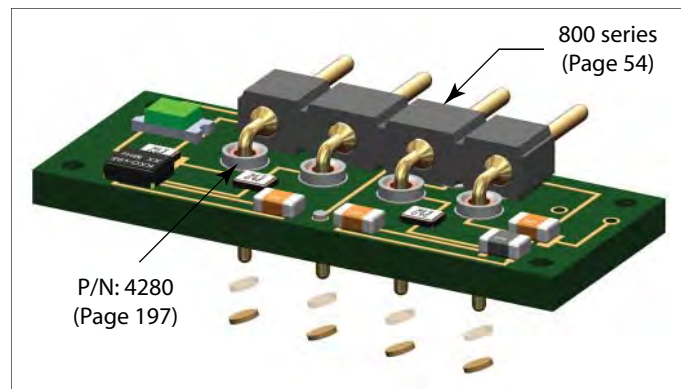
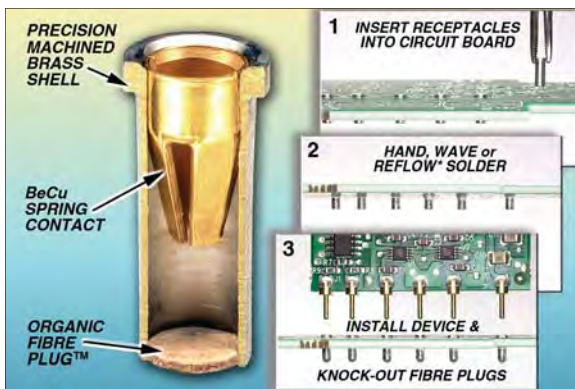
ORGANIC FIBRE PLUG® RECEPTACLES

RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER

Mill-Max's organic fibre plug (OFP®) solder barrier receptacles are discrete sockets for through-hole soldering into printed circuit boards. These open bottom receptacles are fitted with organic fibre plugs to prevent solder paste or flux from contaminating the internal contact during the pick & place and soldering process. When the device/mating lead is plugged into the receptacle, the OFP® is knocked out allowing the mating lead to pass through the fingers of the internal contact and make a reliable electrical connection.

OFP® receptacles are available to accommodate pin diameters from .008" - .102" (See pages 196 & 197 for the full line of standard OFP® receptacles). Packaging options are bulk or tape & reel (Per EIA- 481), standard reel size is 13". The advantage of tape & reel packaging is it allows these through-hole components to be placed simultaneously with surface mount parts on pick 'n place assembly lines -- eliminating the need to hand place the receptacles in an additional manufacturing step. The OFP® barrier permits the sockets to be vacuum picked from the tape prior to placement in the circuit board.

The knock-out-bottom feature enables these sockets to be made relatively short compared to many similar receptacles. The reduced length means minimal protrusion through the PCB. The open bottom receptacle design eliminates the need to trim long device leads that would otherwise bottom out in a closed design.



PIN RECEPTACLES

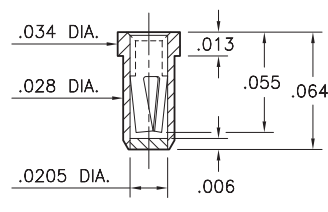
PIN RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER (SEE SPECIFIC CONTACT RANGE ON PAGES 250, 251 & 253)

- These through-hole (tubular) receptacles are designed for hand, wave or reflow* soldering. The **ORGANIC FIBRE PLUG®** barrier prevents solder paste or flux from contaminating the spring contact.
- After soldering, the **OFP®** barrier is pushed out of the receptacle when the device is plugged in.
- All parts are available as discrete receptacles or supplied on carrier tape per EIA-481 to feed industry standard pick and place machines.

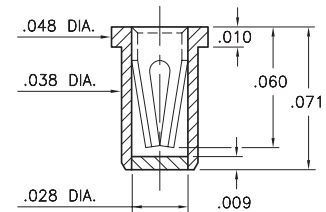
*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The **OFP®** barrier prevents solder paste from being picked-up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.



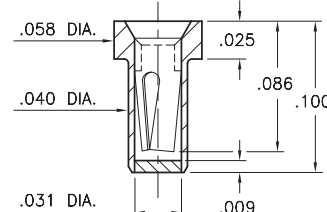
4428
4428-0-XX-XX-04-XX-10-0
Solder mount in $\varnothing .032"$ max. PTH
#04 Contact for $\varnothing .008"$ - $.013"$ pins
Also available on 16mm wide carrier tape:
See page 194.15 for Tape & Reel details



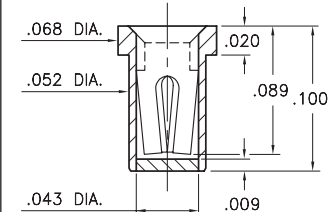
5359
5359-0-XX-XX-10-XX-10-0
Solder mount in $\varnothing .043" \pm .003"$ PTH
#10 Contact for $\varnothing .012"$ - $.017"$ pins
Also available on 16mm wide carrier tape:
See page 194.15 for Tape & Reel details



0577
0577-0-XX-XX-21-XX-10-0
Solder mount in $\varnothing .045" \pm .003"$ PTH
#21 Contact for $\varnothing .015"$ - $.022"$ pins
Also available on 12mm wide carrier tape:
See page 194.15 for Tape & Reel details



4015
4015-0-XX-XX-30-XX-10-0
Solder mount in $\varnothing .057" \pm .003"$ PTH
#30 Contact for $\varnothing .015"$ - $.025"$ pins
Also available on 8mm wide carrier tape:
See page 194.15 for Tape & Reel details



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard
Contact Material: Beryllium Copper Alloy 172, HT
Solder Barrier: Organic Fibre Plug®
Dimensions: Inches
Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:

- 43 Discrete Receptacles
- 67 Supplied on 13" Reels

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- 80 200 μ " TIN OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 27 30 μ " GOLD OVER NICKEL (RoHS)
- 02 100 μ " TIN/LEAD OVER NICKEL
- 84 100 μ " TIN OVER NICKEL (RoHS)

CONTACT:

#04, #10, #21 or #30 CONTACT (DATA ON PAGES 250, 251 & 253)

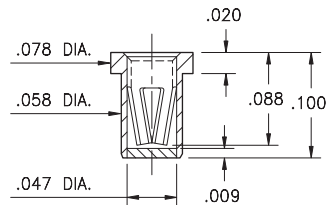


PIN RECEPTACLES

PIN RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER (SEE SPECIFIC CONTACT RANGE ON PAGES 254 - 262)

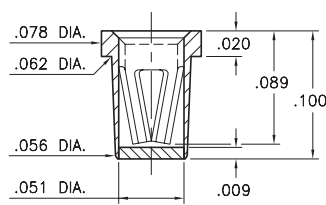
0337

0337-0-XX-XX-15-XX-10-0
Solder mount in $\varnothing .066" \pm .003"$ PTH
#15 Contact for $\varnothing .020" - .032"$ pins
Also available on 8mm wide carrier tape:
See page 194.15 for Tape & Reel details



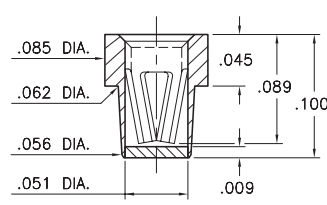
4280

4280-0-XX-XX-16-XX-10-0
Solder mount in $\varnothing .067" \pm .003"$ PTH
#16 Contact for $\varnothing .022" - .034"$ pins
Also available on 8mm wide carrier tape:
See page 194.15 for Tape & Reel details



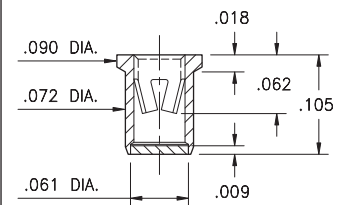
5280

5280-0-XX-XX-16-XX-40-0
Solder mount in $\varnothing .067" \pm .003"$ PTH
#16 Contact for $\varnothing .022" - .034"$ pins
Also available on 16mm wide carrier tape:
See page 194.16 for Tape & Reel details



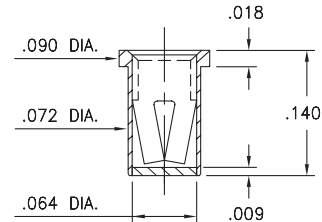
0332

0332-0-XX-XX-18-XX-10-0
Solder mount in $\varnothing .079" \pm .003"$ PTH
#18 Contact for $\varnothing .037" - .043"$ pins
Also available on 16mm wide carrier tape:
See page 194.16 for Tape & Reel details



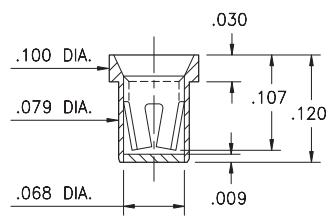
0479

0479-0-XX-XX-34-XX-10-0
Solder mount in $\varnothing .077" \pm .003"$ PTH
#34 Contact for $\varnothing .032" - .046"$ pins
Also available on 16mm wide carrier tape:
See page 194.16 for Tape & Reel details



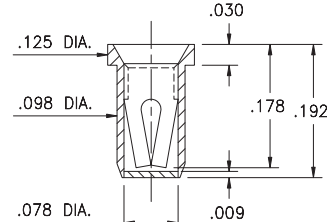
0375

0375-0-XX-XX-02-XX-10-0
Solder mount in $\varnothing .087" \pm .003"$ PTH
#02 Contact for $\varnothing .040" - .050"$ pins
Also available on 12mm wide carrier tape:
See page 194.16 for Tape & Reel details



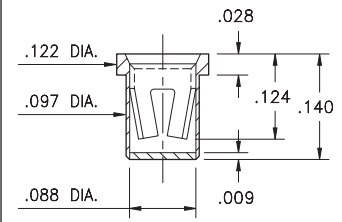
0353

0353-0-XX-XX-03-XX-10-0
Solder mount in $\varnothing .106" \pm .003"$ PTH
#03 Contact for $\varnothing .040" - .060"$ pins
Also available on 12mm wide carrier tape:
See page 194.16 for Tape & Reel details



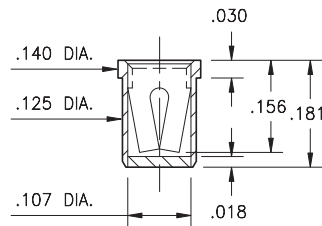
0384

0384-0-XX-XX-23-XX-10-0
Solder mount in $\varnothing .105" \pm .003"$ PTH
#23 Contact for $\varnothing .045" - .065"$ pins
Also available on 12mm wide carrier tape:
See page 194.16 for Tape & Reel details



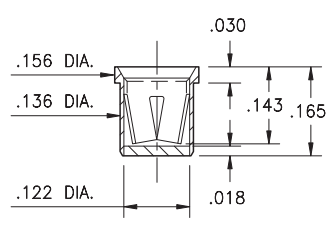
0376

0376-0-XX-XX-07-XX-10-0
Solder mount in $\varnothing .133" \pm .003"$ PTH
#07 Contact for $\varnothing .065" - .082"$ pins
Also available on 16mm wide carrier tape:
See page 194.17 for Tape & Reel details



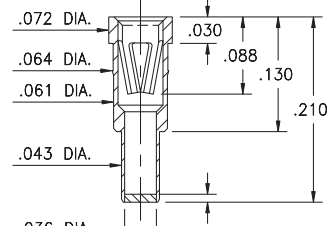
0321

0321-0-XX-XX-08-XX-10-0
Solder mount in $\varnothing .144" \pm .003"$ PTH
#08 Contact for $\varnothing .084" - .102"$ pins
Also available on 16mm wide carrier tape:
See page 194.17 for Tape & Reel details



3435

3435-0-XX-XX-47-XX-04-0
Solder mount in $\varnothing .046" \pm .003"$ PTH
#47 Contact for $\varnothing .025" - .037"$ & $\varnothing .025"$ pins
Also available on 24mm wide carrier tape:
See page 194.17 for Tape & Reel details



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:

43 Discrete Receptacles

67 Supplied on 13" Reels

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

◆ 80 200 μ " TIN OVER NICKEL (RoHS) **CONTACT:**

#02, #07, #08, #15, #16, #18, #23, #34 or #47 CONTACT (DATA ON PAGES 254 - 262)

SPECIFY CONTACT FINISH:

◆ 27 30 μ " GOLD OVER NICKEL (RoHS)

02 100 μ " TIN/LEAD OVER NICKEL

◆ 80 200 μ " TIN OVER NICKEL (RoHS)



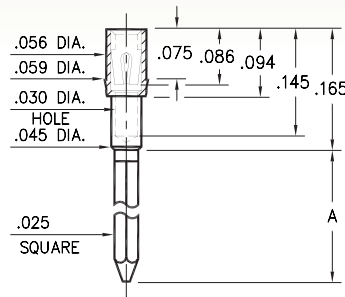
WRAPOST RECEPTACLES

FOR .015" - .025" DIAMETER PINS

1702/1703

170X-X-15-XX-30-XX-02-0

Press-fit in .057 mounting hole

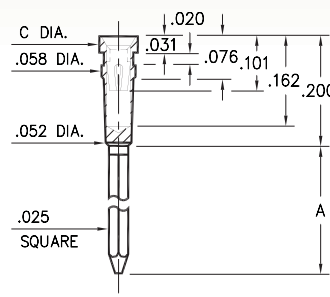


Basic Part Number	# of Wraps	Length A
1702-2	2	.370
1703-3	3	.510

0038 ⇨ 0040/0066 ⇨ 0068

00XX-X-17-XX-30-XX-02-0

Press-fit in .057 mounting hole

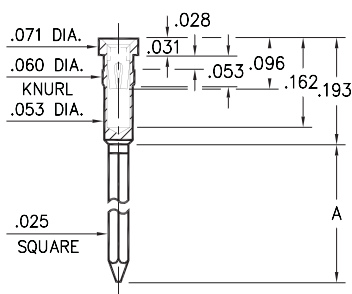


Basic Part #	# of Wraps	Length A	Dia. C
0040-1	1	.260	.072
0039-2	2	.360	
0038-3	3	.500	
0068-1	1	.260	.062
0067-2	2	.360	
0066-3	3	.500	

0086/0088/0089

008X-X-17-XX-3X-XX-02-0

Press-fit in .057 mounting hole

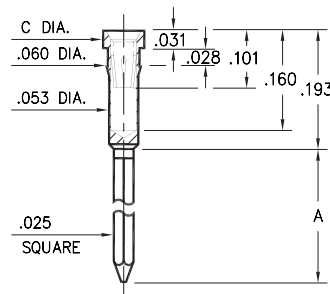


Basic Part Number	# of Wraps	Length A
0089-2	2	.370
0088-3	3	.510
0086-4	4	.630

1030 ⇨ 1036

103X-X-17-XX-3X-XX-02-0

Press-fit in .057 mounting hole

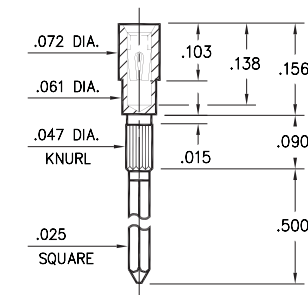


Basic Part #	# of Wraps	Length A	Dia. C
1032-1	1	.260	.072
1031-2	2	.360	
1030-3	3	.510	
1036-1	1	.260	.062
1035-2	2	.360	
1034-3	3	.510	

1045

1045-3-17-XX-30-XX-02-0

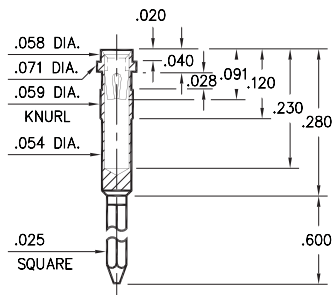
Press-fit in .043 mounting hole



1040

1040-3-17-XX-30-XX-02-0

Press-fit in .056 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART # →

SPECIFY SHELL FINISH: →

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH: →

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



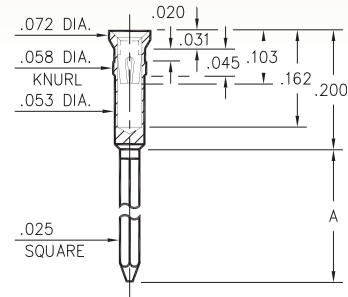
WRAPOST RECEPTACLES

FOR .015" - .025" DIAMETER PINS

0444

0444-X-17-XX-30-XX-02-0

Press-fit in .056 mounting hole

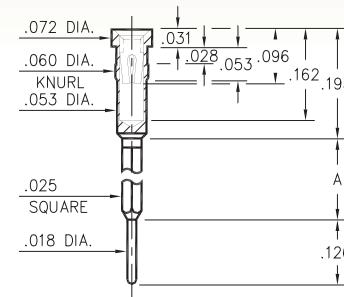


Basic Part Number	# of Wraps	Length A
0444-1	1	.260
0444-2	2	.370
0444-3	3	.505

2601 ⇔ 2603

260X-0-17-XX-30-XX-02-0

Press-fit in .057 mounting hole

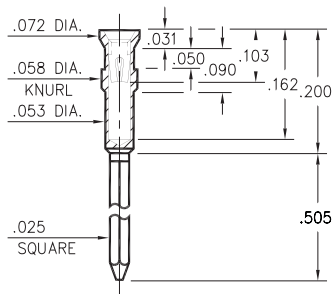


Basic Part Number	# of Wraps	Length A
2601-0	1	.232
2602-0	2	.350
2603-0	3	.468

0445

0445-3-17-XX-30-XX-02-0

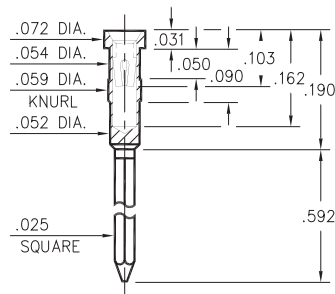
Press-fit in .056 mounting hole



1047

1047-3-17-XX-30-XX-02-0

Press-fit in .056 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - 17 - XX - 30 - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 100 μ" TIN/LEAD OVER NICKEL
- ◆ 84 100 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



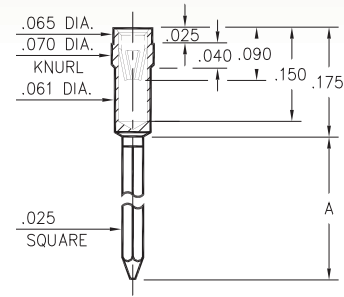
WRAPOST RECEPTACLES

FOR .022" - .032" DIAMETER PINS (#06 CONTACT)
FOR .022" - .034" DIAMETER PINS (#16 CONTACT)

2297

2297-X-17-XX-16-XX-02-0

Press-fit in .067 mounting hole

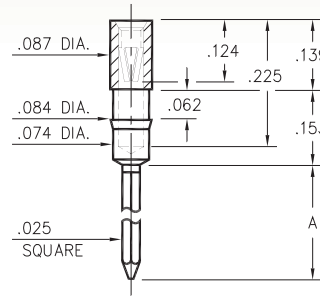


Basic Part Number	# of Wraps	Length A
2297-2	2	.370
2297-3	3	.430

0280

0280-X-17-XX-06-XX-02-0

Press-fit in .081 mounting hole

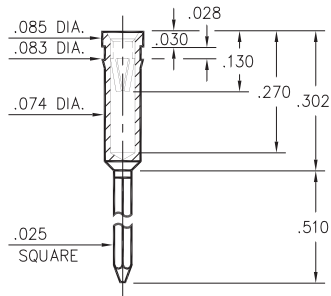


Basic Part Number	# of Wraps	Length A
0280-2	2	.360
0280-3	3	.510

0281

0281-3-17-XX-06-XX-02-0

Press-fit in .080 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ±2°



ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART # →

SPECIFY SHELL FINISH: →

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH: →

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06 or #16 CONTACT (DATA ON PAGES 255 & 256)
 (For alternate contact choices, see group D on page 248)



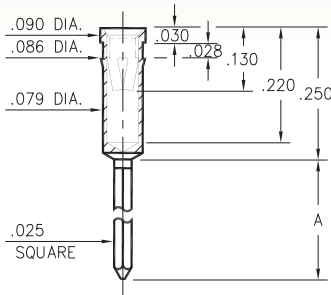
WRAPOST RECEPTACLES

FOR .032" - .046" DIAMETER PINS

1052/1053

105X-X-17-XX-34-XX-02-0

Press-fit in .083 mounting hole

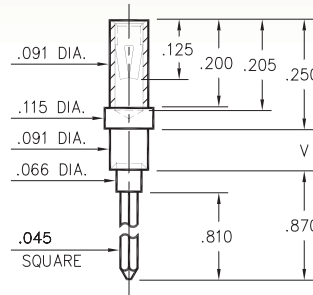


Basic Part Number	# of Wraps	Length A
1053-2	2	.360
1052-3	3	.515

0383

0383-X-17-XX-34-XX-02-0

Swage mount in .094 hole

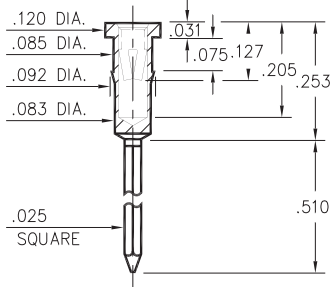


Basic Part Number	Board Thickness	Length V
0383-1	.062	.094
0383-2	.094	.125
0383-3	.125	.156

0382

0382-3-17-XX-34-XX-02-0

Press-fit in .089 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Inches

Tolerances On: Lengths: ±.005

Diameters: ±.002

Angles: ± 2°



ORDER CODE: XXXX - X - 17 - XX - 34 - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 27 30 μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)





WWW.MILL-MAX.COM

MALE PCB PINS





WWW.MILL-MAX.COM

MILL-MAX PRINTED CIRCUIT PINS ARE MACHINED INDIVIDUAL PINS USED FOR VARIOUS PLUG-IN APPLICATIONS AND ARE FUNCTIONALLY THE DYNAMIC BUILDING BLOCKS WITHIN AN INTERCONNECT SYSTEM.

Mill-Max offers a variety of pins in a broad range of diameters as well as turret, slotted, bifurcated (forked), soldercup and wrapost style pins. They are commonly fastened to printed circuit boards or other housings by being press-fit, swaged (riveted) or soldered.

PCB pins serve not only as a conductive path for an electrical circuit, but provide strength to an assembly module as a mechanical interface. Mill-Max Mfg. Corp. has developed thousands of state-of-the-art "basic pin" designs, featuring pin barrel geometries for our customers who require outside-the-box solutions to their interconnect needs.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

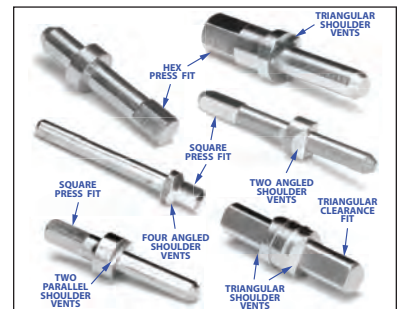
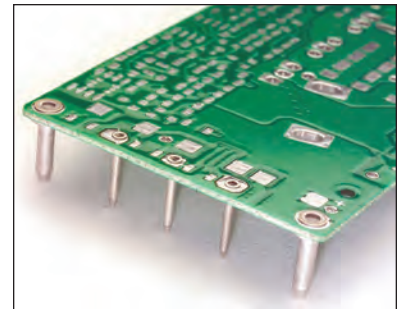
BRASS Alloy 360, 1/2 hard: .062/.072/.078/.093/.125/.156/.187/.250 diameters

PHOSPHOR BRONZE Alloy 544: .062/.072/.078 diameters

TELLURIUM COPPER Alloy 145: .079/.093/.125/.156 diameters

Mill-Max will gladly quote application specific products. Please complete the specification sheet on page **247** or send us your own drawings.

We assure you a fast response.



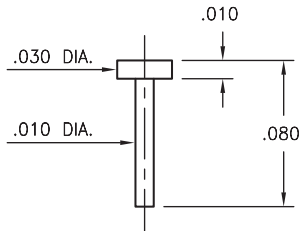
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

4184

4184-0-00-XX-00-00-33-0

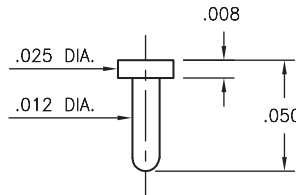
Solder mount in .014 mounting hole



9050

9050-0-00-XX-00-00-33-0

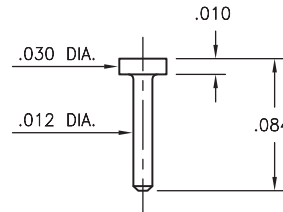
Solder mount in .016 mounting hole



4353

4353-0-00-XX-00-00-33-0

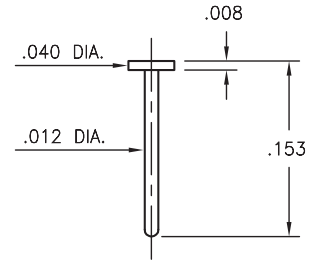
Solder mount in .016 mounting hole



9083

9083-0-00-XX-00-00-38-0

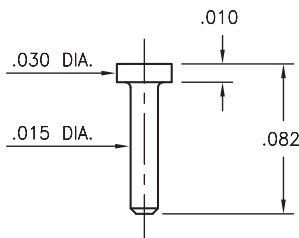
Solder mount in .016 mounting hole



4825

4825-0-00-XX-00-00-33-0

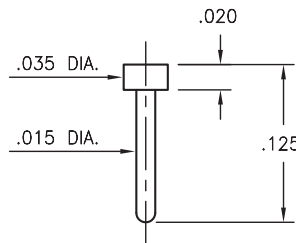
Solder mount in .019 mounting hole
Also available on 16mm wide carrier tape:
3,250 parts per 13" reel.
See page 224.1 for Tape & Reel details



4689

4689-0-00-XX-00-00-33-0

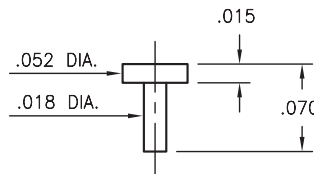
Solder mount in .019 mounting hole



4361

4361-0-00-XX-00-00-33-0

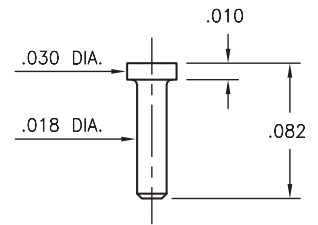
Solder mount in .022 mounting hole



4288

4288-0-00-XX-00-00-33-0

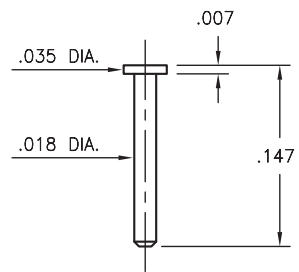
Solder mount in .022 mounting hole



4068

4068-0-00-XX-00-00-33-0

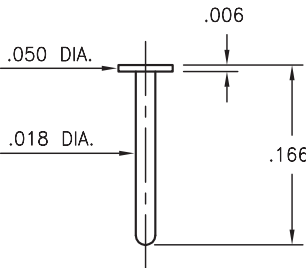
Solder mount in .022 mounting hole



9113

9113-0-00-XX-00-00-38-0

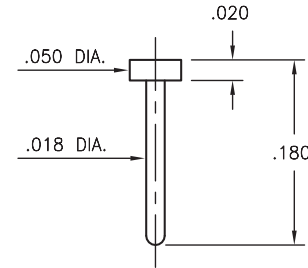
Solder mount in .022 mounting hole



9137

9137-0-00-XX-00-00-38-0

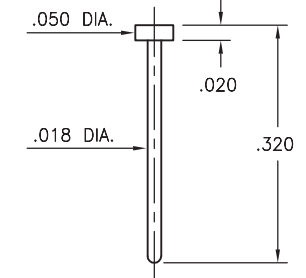
Solder mount in .022 mounting hole



5137

5137-0-00-XX-00-00-38-0

Solder mount in .022 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

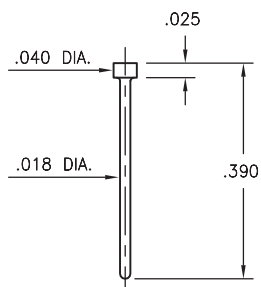
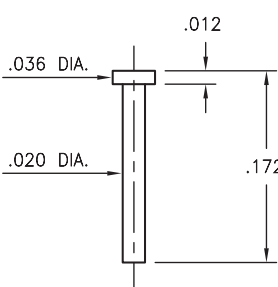
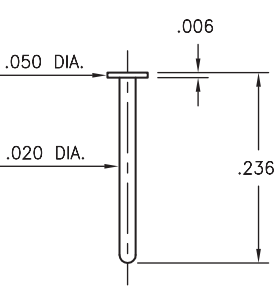
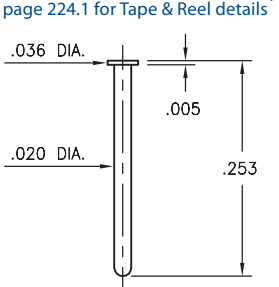
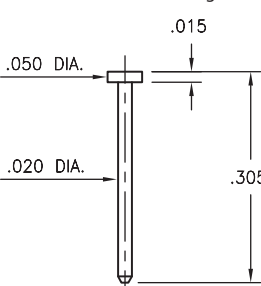
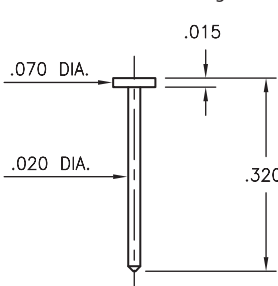
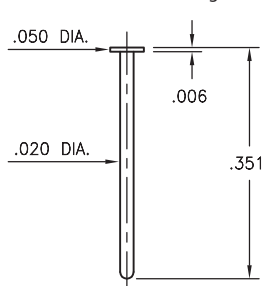
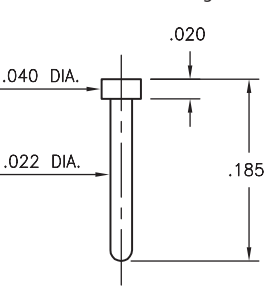
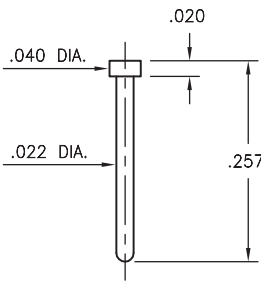
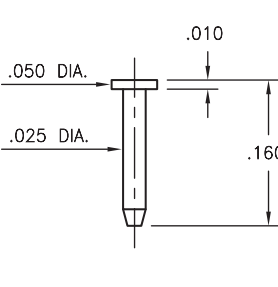
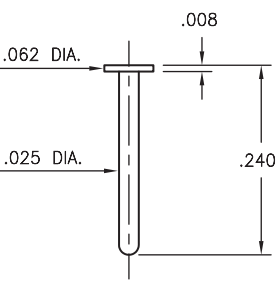
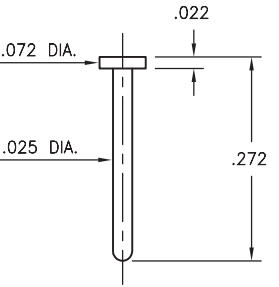
SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ " GOLD OVER NICKEL (RoHS)



MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

<p>4209 4209-0-00-XX-00-00-33-0 Solder mount in .022 mounting hole</p> 	<p>5063 5063-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole</p> 	<p>4965 4965-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole</p> 	<p>6547 6547-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole Also available on 24mm wide carrier tape: See page 224.1 for Tape & Reel details</p> 
<p>4071 4071-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole</p> 	<p>8808 8808-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole</p> 	<p>4964 4964-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole</p> 	<p>9185 9185-0-00-XX-00-00-33-0 Solder mount in .026 mounting hole</p> 
<p>8257 8257-0-00-XX-00-00-33-0 Solder mount in .026 mounting hole</p> 	<p>5035 5035-0-00-XX-00-00-33-0 Solder mount in .029 mounting hole</p> 	<p>5240 5240-0-00-XX-00-00-33-0 Solder mount in .029 mounting hole</p> 	<p>2650 2650-0-00-XX-00-00-33-0 Solder mount in .029 mounting hole</p> 

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART # →

← **SPECIFY PIN FINISH:**

- 01** 200 μ " TIN/LEAD OVER NICKEL
- ◆ **80** 200 μ " TIN OVER NICKEL (RoHS)
- ◆ **15** 10 μ " GOLD OVER NICKEL (RoHS)
- ◆ **21** 20 μ " GOLD OVER NICKEL (RoHS)
- ◆ **34** 50 μ " GOLD OVER NICKEL (RoHS)



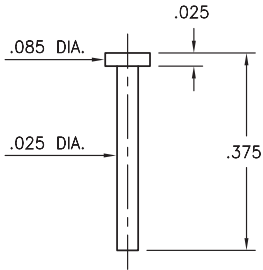
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

5062

5062-0-00-XX-00-00-33-0

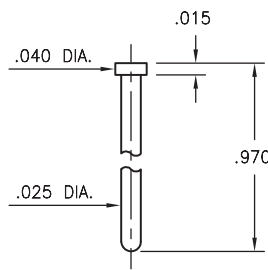
Solder mount in .029 mounting hole



8451

8451-0-00-XX-00-00-33-0

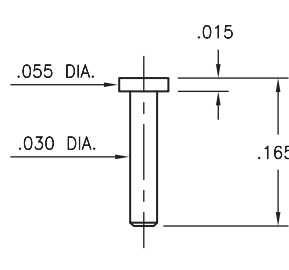
Solder mount in .029 mounting hole



6477

6477-0-00-XX-00-00-38-0

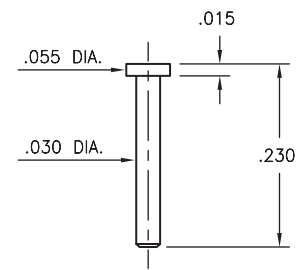
Solder mount in .034 mounting hole



4477

4477-0-00-XX-00-00-33-0

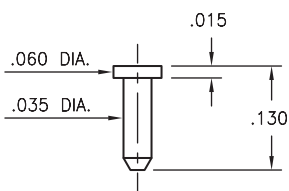
Solder mount in .034 mounting hole



4268

4268-0-00-XX-00-00-33-0

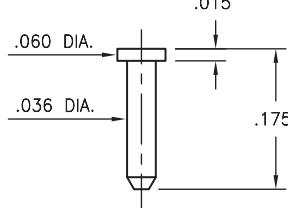
Solder mount in .039 mounting hole



9086

9086-0-00-XX-00-00-33-0

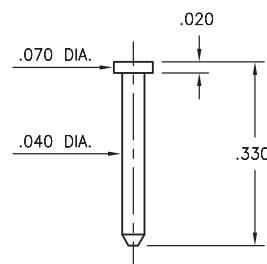
Solder mount in .040 mounting hole



8330

8330-0-00-XX-00-00-38-0

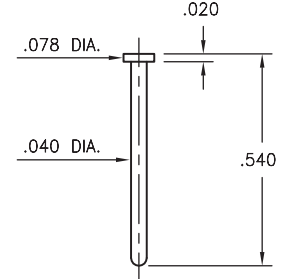
Solder mount in .044 mounting hole



9228

9228-0-00-XX-00-00-38-0

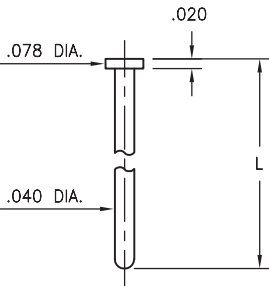
Solder mount in .044 mounting hole



6095

6095-X-00-XX-00-00-38-0

Solder mount in .044 mounting hole

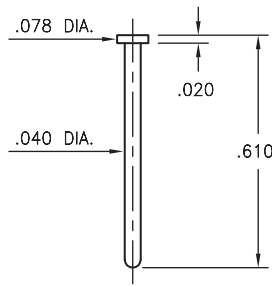


Basic Part Number	Length L
6095-0	.580
6095-1	.475

6092

6092-0-00-XX-00-00-33-0

Solder mount in .044 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

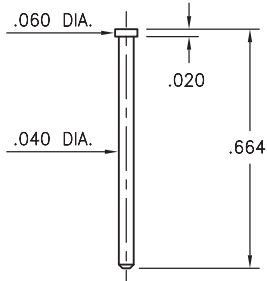
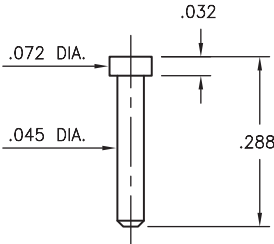
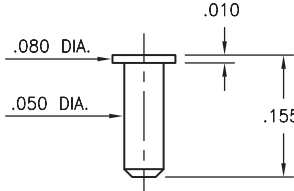
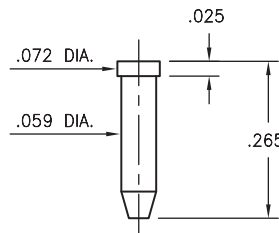
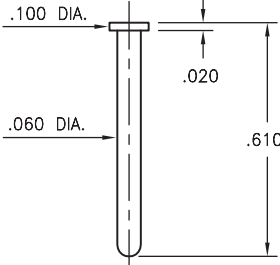
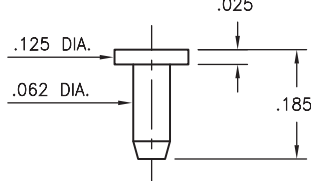
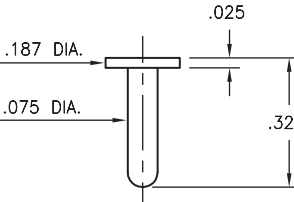
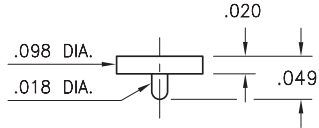
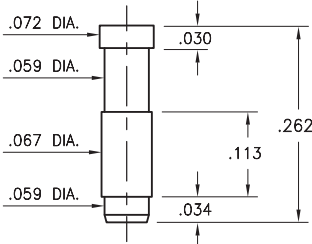
SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ " GOLD OVER NICKEL (RoHS)



MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

<p>1179 1179-0-00-XX-00-00-33-0 Solder mount in .044 mounting hole</p> 	<p>9872 9872-0-00-XX-00-00-33-0 Solder mount in .049 mounting hole</p> 	<p>2381 2381-0-00-XX-00-00-33-0 Solder mount in .054 mounting hole Also available on 16mm wide carrier tape: 1,800 parts per 13" reel. See page 224.1 for Tape & Reel details</p> 	<p>9265 9265-0-00-XX-00-00-38-0 Solder mount in .063 mounting hole Also available on 16mm wide carrier tape: 1,170 parts per 13" reel. See page 224.1 for Tape & Reel details</p> 
<p>6142 6142-0-00-XX-00-00-33-0 Solder mount in .064 mounting hole</p> 	<p>9022 9022-0-00-XX-00-00-33-0 Solder mount in .066 mounting hole Also available on 24mm wide carrier tape: 1,500 parts per 13" reel. See page 224.1 for Tape & Reel details</p> 	<p>8086 8086-0-00-XX-00-00-33-0 Solder mount in .079 mounting hole</p> 	<p>4541 4541-0-00-XX-00-00-03-0 Solder mount in .022 mounting hole</p> 
<p>1980 1980-0-00-00-XX-00-03-0 Surface mount, Target Connector Also available on carrier tape: 1,450 parts per 13" reel. Order as: 319-10-1XX-40-080001</p> 			

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ " GOLD OVER NICKEL (RoHS)

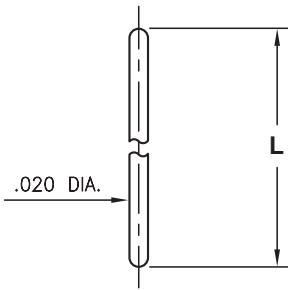


MALE PCB PINS

STRAIGHT PINS

3320

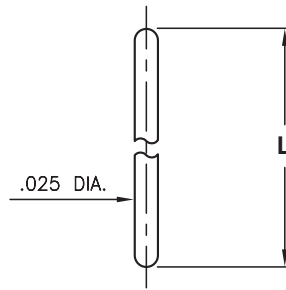
3320-X-00-XX-00-00-03-0



Basic Part Number	Length L
3320-0	.250
3320-1	.500

3325/6527

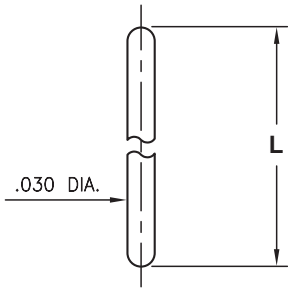
XXXX-X-00-XX-00-00-03-0



Basic Part Number	Length L
3325-0	.250
3325-1	.500
3325-2	.750
6527-0	.420

3330

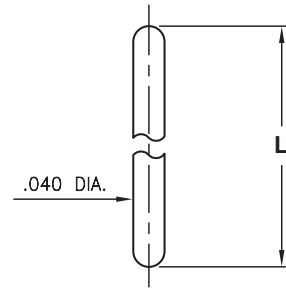
3330-X-00-XX-00-00-03-0



Basic Part Number	Length L
3330-0	.250
3330-1	.500
3330-2	.750

3340

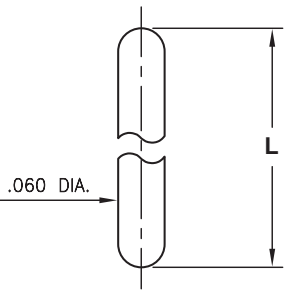
3340-X-00-XX-00-00-03-0



Basic Part Number	Length L
3340-0	.250
3340-1	.500
3340-2	.750

3560

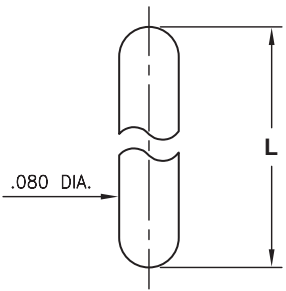
3560-X-00-XX-00-00-03-0



Basic Part Number	Length L
3560-0	.250
3560-1	.500
3560-2	.750

3580

3580-X-00-XX-00-00-03-0



Basic Part Number	Length L
3580-0	.250
3580-1	.500
3580-2	.750

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART # →

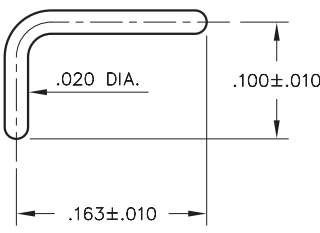
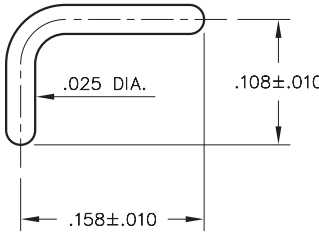
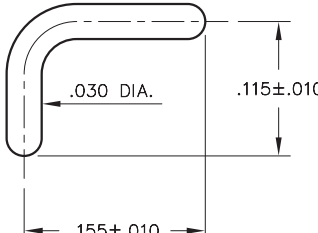
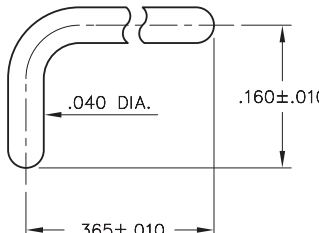
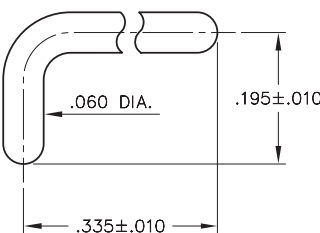
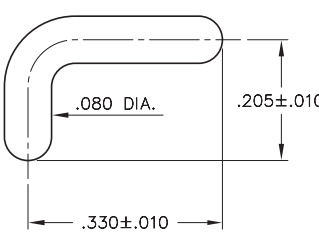
← **SPECIFY PIN FINISH:**

- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)



MALE PCB PINS

RIGHT ANGLE PINS

<p>3720 3720-0-14-XX-00-00-03-0 Right Angle Bent Pin</p> 	<p>3725 3725-0-14-XX-00-00-03-0 Right Angle Bent Pin</p> 	<p>3730 3730-0-14-XX-00-00-03-0 Right Angle Bent Pin</p> 	<p>3740 3740-0-14-XX-00-00-03-0 Right Angle Bent Pin</p> 
<p>3760 3760-0-14-XX-00-00-03-0 Right Angle Bent Pin</p> 	<p>3780 3780-0-14-XX-00-00-03-0 Right Angle Bent Pin</p> 		

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: 37XX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART # →

→ **SPECIFY PIN FINISH:**

- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)



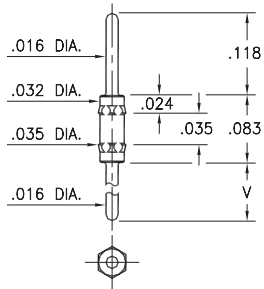
MALE PCB PINS

PRINTED CIRCUIT PINS

4006

4006-X-00-XX-00-00-03-0

Hex press-fit in .034 mounting hole

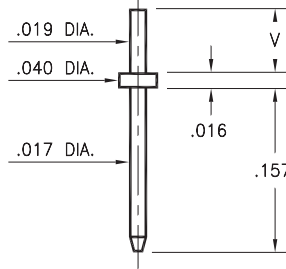


Basic Part Number	Length V
4006-0	.118
4006-1	.188
4006-2	.288

3121

3121-X-00-XX-00-00-08-0

Solder mount in .023 mounting hole
Material is annealed.

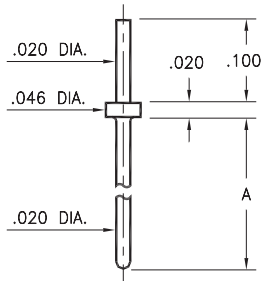


Basic Part Number	Substrate Thickness	Length V
3121-1	.025	.061
3121-2	.040	.075

3128

3128-X-00-XX-00-00-08-0

Solder mount in .024 min. mounting hole

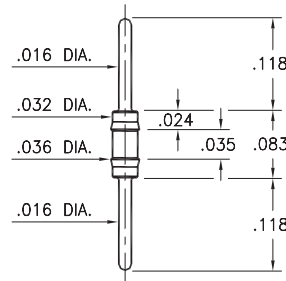


Basic Part Number	Length A
3128-1	.250
3128-2	.425
3128-3	.525
3128-4	.550
3128-5	.930

3006

3006-0-00-XX-00-00-03-0

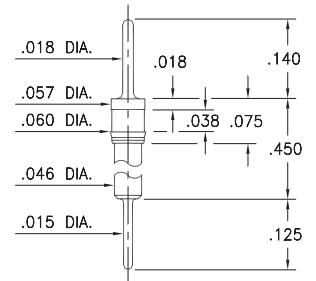
Press-fit in .034 mounting hole



8885

8885-0-00-XX-00-00-03-0

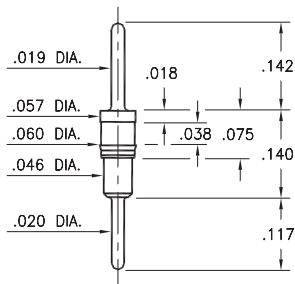
Press-fit in .057 mounting hole



6218

6218-0-00-XX-00-00-03-0

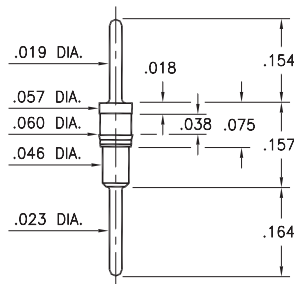
Press-fit in .057 mounting hole



5012

5012-0-00-XX-00-00-03-0

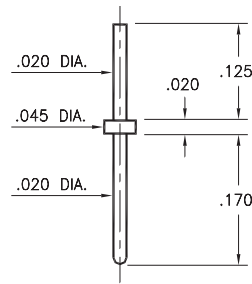
Press-fit in .057 mounting hole



9081

9081-0-00-XX-00-00-08-0

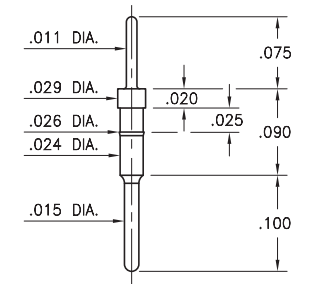
Solder mount in .024 mounting hole



3039

3039-0-00-15-00-00-03-0

Press-fit in .025 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ m TIN/LEAD OVER NICKEL
- ◆ 80 200 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ m GOLD OVER NICKEL (RoHS)



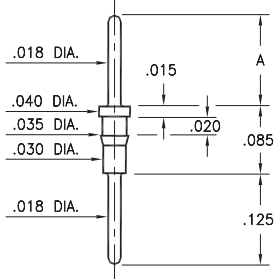
MALE PCB PINS

PRINTED CIRCUIT PINS

8685/9036

XXXX-0-00-XX-00-00-03-0

Press-fit in .033 mounting hole
Pin material is Phosphor Bronze 544 (B2)

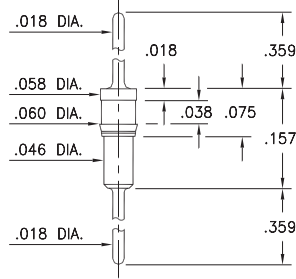


Basic Part Number	Length A
8685-0	.125
9036-0	.175

9051

9051-0-00-XX-00-00-03-0

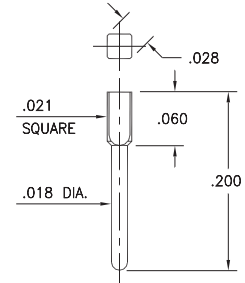
Press-fit in .057 mounting hole



8969

8969-0-05-XX-00-00-03-0

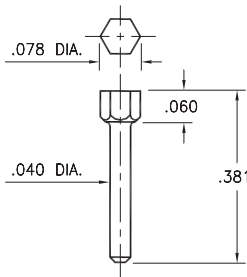
Square press-fit in .023 plated through-hole
(Use .7mm drill prior to plating)



8979

8979-0-00-XX-00-00-03-0

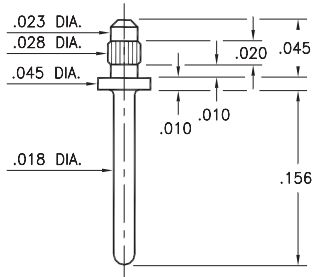
Hex press-fit in .074 plated through-hole



9159

9159-0-00-XX-00-00-03-0

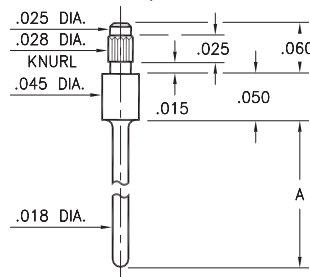
Press-fit in .026 mounting hole



3155/5155

X155-0-00-XX-00-00-03-0

Press-fit in .026 mounting hole
Pin material is Phosphor Bronze 544 (B2)

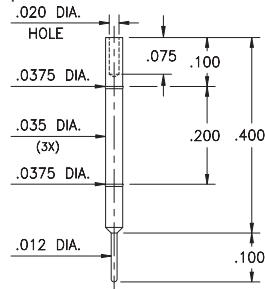


Basic Part Number	Length A
3155-0	.180
5155-0	.130

4194

4194-0-00-XX-00-00-08-0

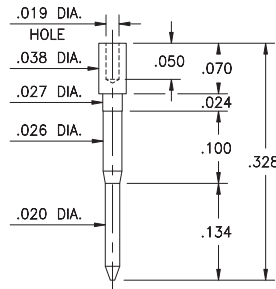
Wire crimp termination & press-fit in .036 hole
Accepts wire sizes 30 AWG Max. / 36 AWG Min.



5556

5556-0-00-XX-00-00-38-0

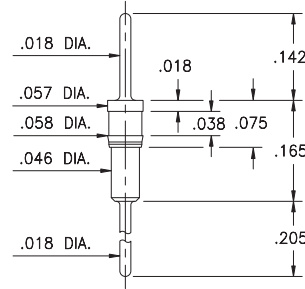
Wire crimp termination. Accepts wire sizes 30 AWG Max. / 36 AWG Min.



3790

3790-0-00-XX-00-00-03-0

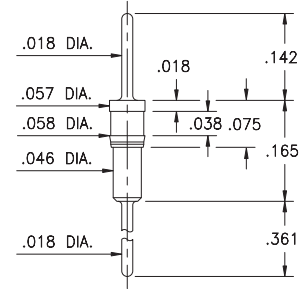
Press-fit in .057 mounting hole



3796

3796-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



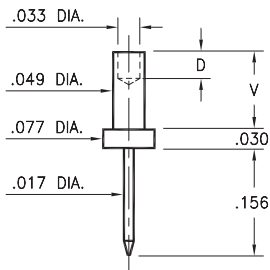
MALE PCB PINS

PRINTED CIRCUIT PINS

3116

3116-X-00-XX-00-00-08-0

Swage mount in .052 hole

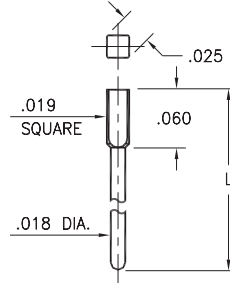


Basic Part Number	Board Thickness	Length V	Depth D
3116-1	.031	.051	.035
3116-2	.062	.082	.062
3116-3	.094	.113	.062
3116-4	.125	.145	.062

X435

X435-X-05-XX-00-00-03-0

Square press-fit in .022 plated through-hole

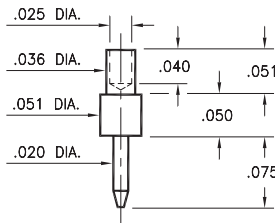


Basic Part Number	Length L
5435-0	.303
5435-1	.200
5435-2	.413
6435-0	.280

3135

3135-1-00-XX-00-00-08-0

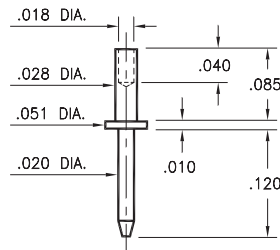
Swage mount in .040 hole
For .031 thick board



3210

3210-2-00-XX-00-00-08-0

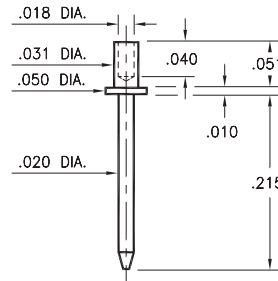
Swage mount in .031 hole
For .062 thick board



3129

3129-1-00-XX-00-00-08-0

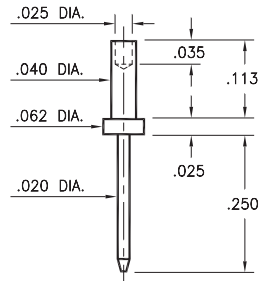
Swage mount in .035 hole
For .031 thick board



3147

3147-3-00-XX-00-00-08-0

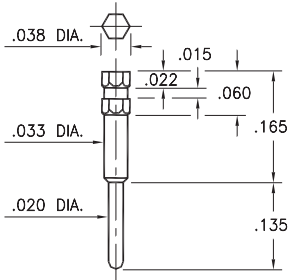
Swage mount in .043 hole
For .094 thick board



4366

4366-0-00-XX-00-00-03-0

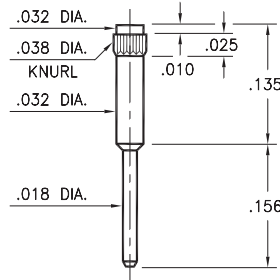
Hex press-fit in .034 plated through-hole



1267

1267-0-00-XX-00-00-03-0

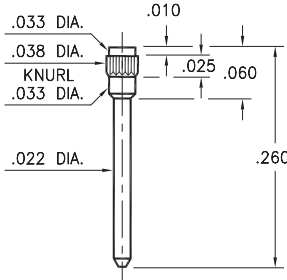
Press-fit in .035 mounting hole



7827

7827-0-00-XX-00-00-03-0

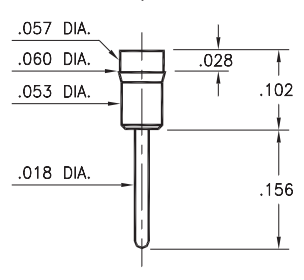
Press-fit in .035 mounting hole



1130

1130-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole
Pin material is Phosphor Bronze 544 (B2)



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



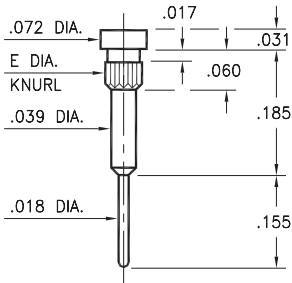
MALE PCB PINS

PRINTED CIRCUIT PINS

1067

1067-X-00-XX-00-00-03-0

Press-fit in .042/.055 mounting hole

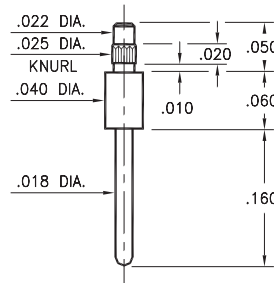


Basic Part Number	Knurl Dia. E	Mounting Hole
1067-1	.058	.055
1067-2	.045	.042

3158

3158-0-00-XX-00-00-03-0

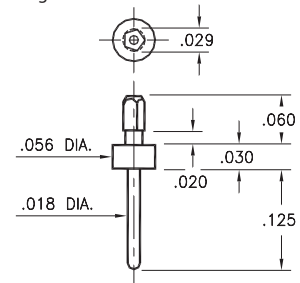
Press-fit in .023 mounting hole



9000

9000-0-00-XX-00-00-03-0

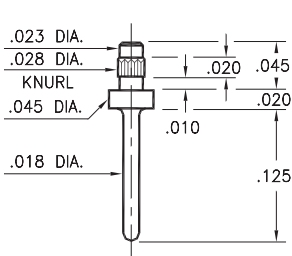
Pentagonal press-fit in .025 plated through-hole



3157

3157-0-00-XX-00-00-03-0

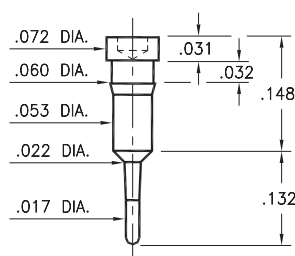
Press-fit in .026 mounting hole



0915

0915-0-00-XX-00-00-03-0

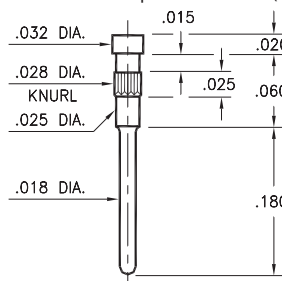
Press-fit in .057 mounting hole



3154

3154-0-00-XX-00-00-03-0

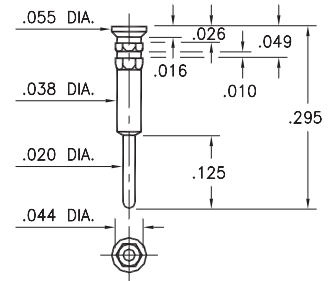
Press-fit in .026 mounting hole
Pin material is Phosphor Bronze 544 (B2)



0542

0542-0-00-XX-00-00-03-0

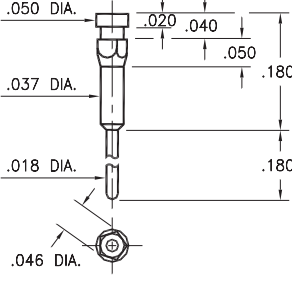
Hex press-fit in .039 plated through-hole



0522

0522-0-00-XX-00-00-03-0

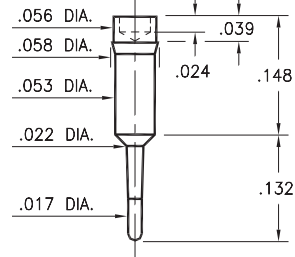
Pentagonal press-fit in .042 plated through-hole



0952

0952-0-00-XX-00-00-03-0

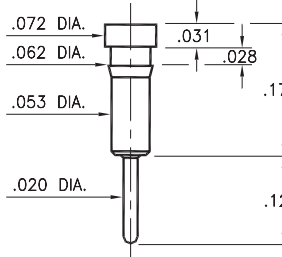
Press-fit in .056 mounting hole



0257

0257-0-00-XX-00-00-03-0

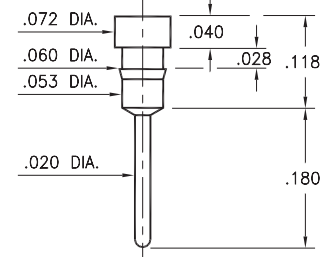
Press-fit in .059 mounting hole



8940

8940-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ m TIN/LEAD OVER NICKEL
- 80 200 μ m TIN OVER NICKEL (RoHS)
- 15 10 μ m GOLD OVER NICKEL (RoHS)
- 21 20 μ m GOLD OVER NICKEL (RoHS)
- 34 50 μ m GOLD OVER NICKEL (RoHS)



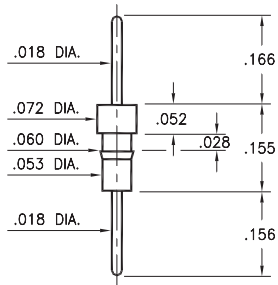
MALE PCB PINS

PRINTED CIRCUIT PINS

0504/0505

050X-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

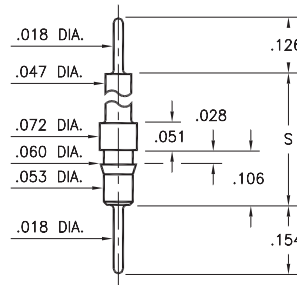


Basic Part Number	Pin Material
0504-0	Phosphor Bronze 544
0505-0	Brass 360

5510/5511

551X-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

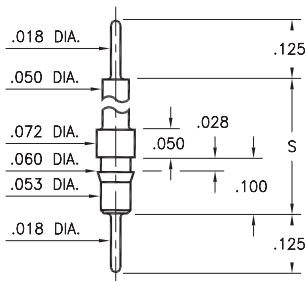


Basic Part Number	Standoff Height S
5510-0	.331
5511-0	.606

4259

4259-X-00-XX-00-00-03-0

Press-fit in .057 mounting hole

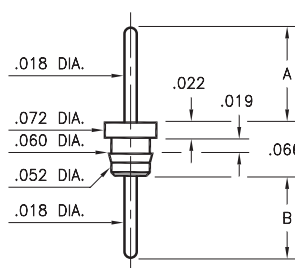


Basic Part Number	Standoff Height S
4259-1	.210
4259-2	.335
4259-3	.585
4259-4	.835

X516

X516-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

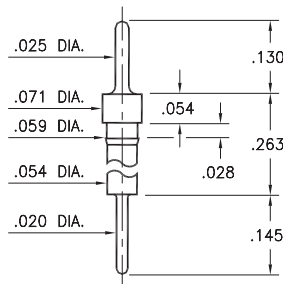


Basic Part Number	Pin Length A	Pin Length B
3516-0	.125	.108
4516-0	.135	.118

8859

8859-0-00-XX-00-00-03-0

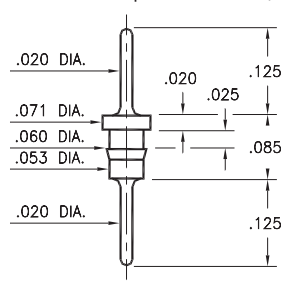
Press-fit in .056 mounting hole



6585

6585-0-00-XX-00-00-03-0

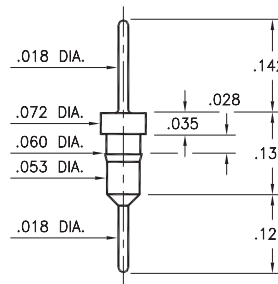
Press-fit in .057 mounting hole
Pin material is Phosphor Bronze 544 (B2)



3404

3404-0-00-XX-00-00-03-0

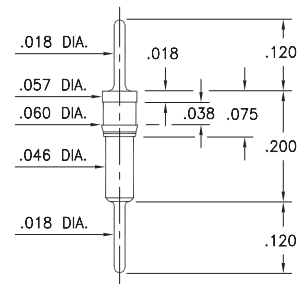
Press-fit in .057 mounting hole



9218

9218-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



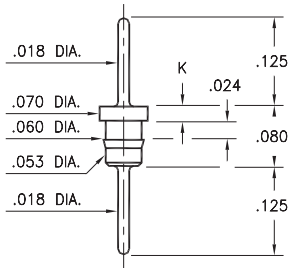
MALE PCB PINS

PRINTED CIRCUIT PINS

1752/6458

XXXX-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

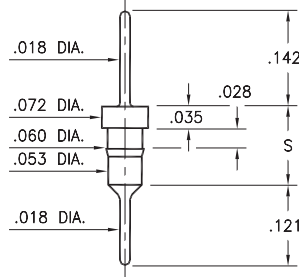


Basic Part Number	Length K
1752-0	.020
6458-0	.035

3413/8404

X4XX-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

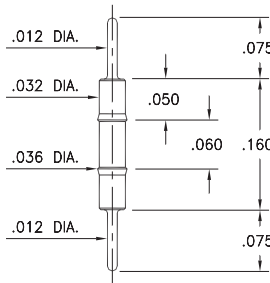


Basic Part Number	Length S
3413-0	.118
8404-0	.131

9075

9075-0-00-XX-00-00-03-0

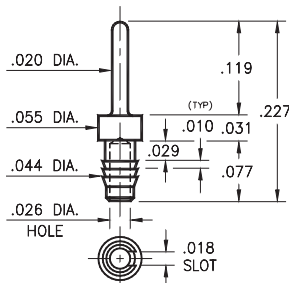
Press-fit in .034 mounting hole



2617

2617-0-01-XX-00-00-03-0

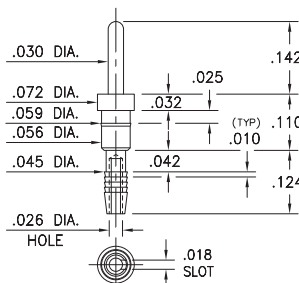
Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board



5607

5607-0-01-XX-00-00-03-0

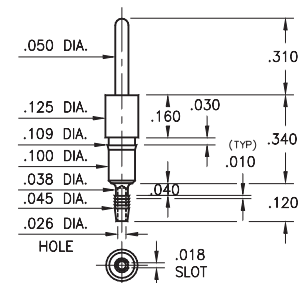
Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board



8995

8995-0-01-XX-00-00-03-0

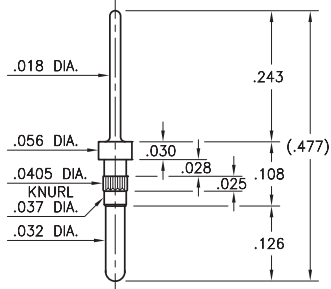
Compliant press-fit in .040 ± .003 plated hole. For .060" → .100" thick board



5065

5065-0-00-26-00-00-03-0

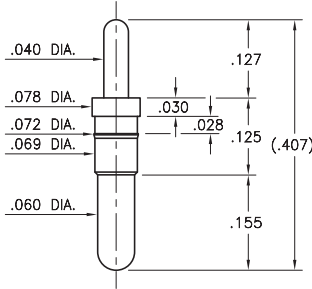
Press-fit in .037 mounting hole



3501

3501-0-00-15-00-00-03-0

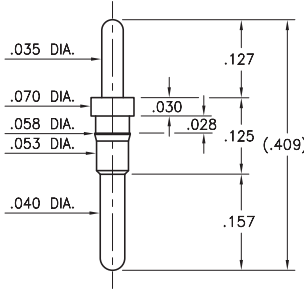
Press-fit in .070 mounting hole



3502

3502-0-00-15-00-00-03-0

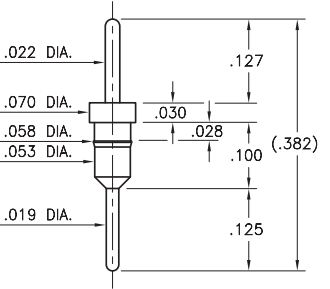
Press-fit in .056 mounting hole



3503

3503-0-00-15-00-00-03-0

Press-fit in .056 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



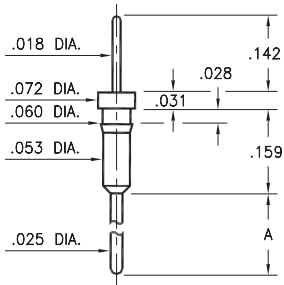
MALE PCB PINS

PRINTED CIRCUIT PINS

3409

3409-X-00-XX-00-00-03-0

Press-fit in .057 mounting hole



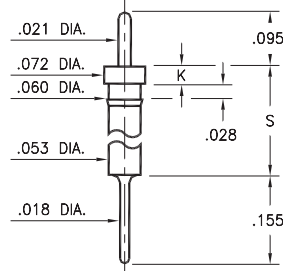
Basic Part Number	Pin Length A
3409-1	.210
3409-2	.420

0315

0315-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

Pin material is Phosphor Bronze 544 (B2)

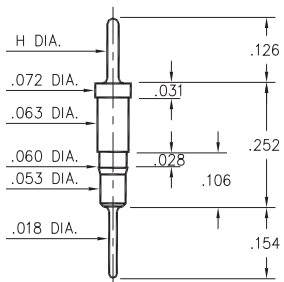


Basic Part Number	Head Height K	Standoff Height S
0315-0	.030	.190
0315-1	.040	.430

5503/5509

550X-X-00-XX-00-00-03-0

Press-fit in .057 mounting hole

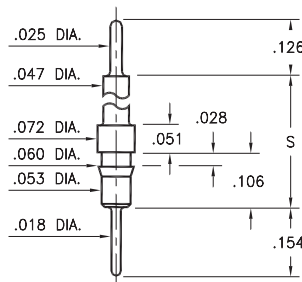


Basic Part Number	Pin Diameter H
5503-0	.025
5509-0	.018

5504/5505

550X-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

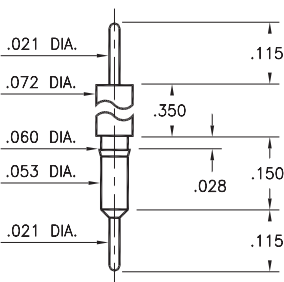


Basic Part Number	Standoff Height S
5504-0	.331
5505-0	.606

3406

3406-0-00-XX-00-00-03-0

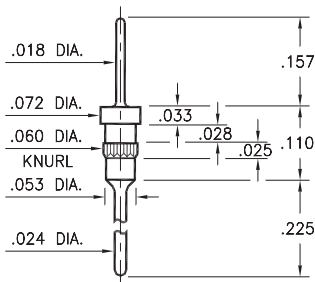
Press-fit in .057 mounting hole



5011

5011-0-00-XX-00-00-03-0

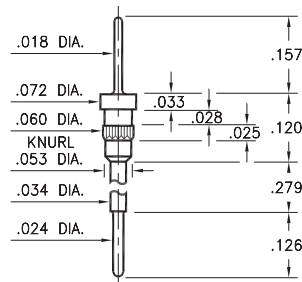
Press-fit in .057 mounting hole



5113

5113-0-00-XX-00-00-03-0

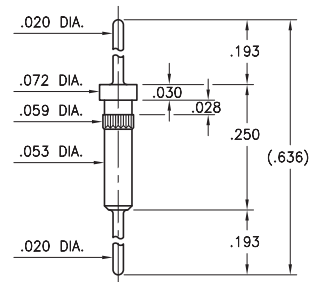
Press-fit in .057 mounting hole



3900

3900-0-00-15-00-00-03-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



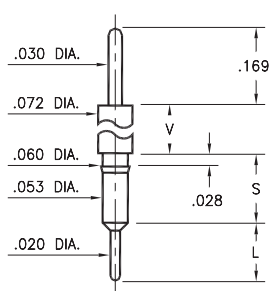
MALE PCB PINS

PRINTED CIRCUIT PINS

3400 ⇨ 3402/3405/3410

34XX-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

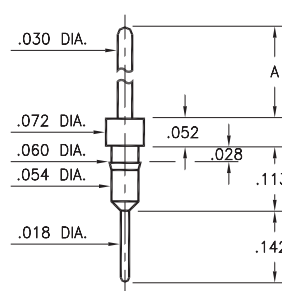


Basic Part Number	Shoulder Height V	Length S	Length L
3402-0	.052	.138	.121
3401-0	.100	.136	.125
3405-0	.169	.146	.115
3400-0	.461	.145	.115
3410-0	.934	.136	.124

3411

3411-X-00-XX-00-00-03-0

Press-fit in .057 mounting hole

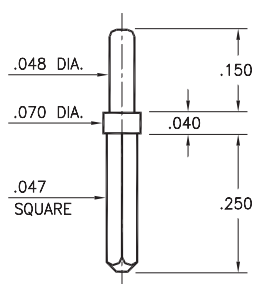


Basic Part Number	Pin Length A
3411-0	.417
3411-1	.217

0600

0600-0-05-XX-00-00-01-0

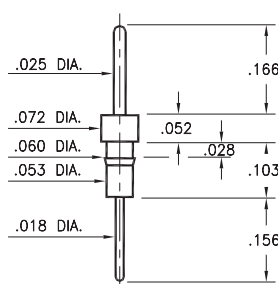
Solder mount .052 mounting hole



0290

0290-0-00-XX-00-00-03-0

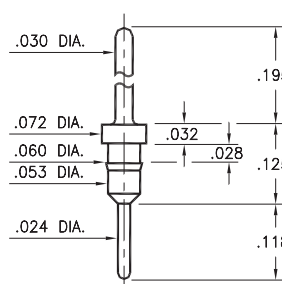
Press-fit in .057 mounting hole



7007

7007-0-00-XX-00-00-03-0

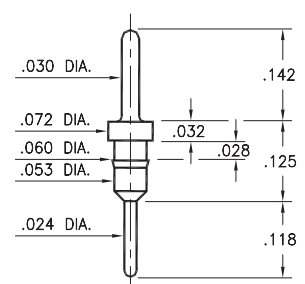
Press-fit in .057 mounting hole



5016

5016-0-00-XX-00-00-03-0

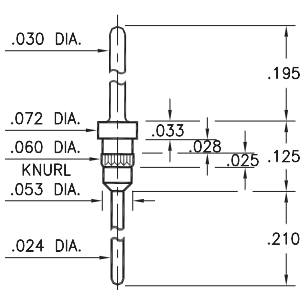
Press-fit in .057 mounting hole



5005

5005-0-00-XX-00-00-03-0

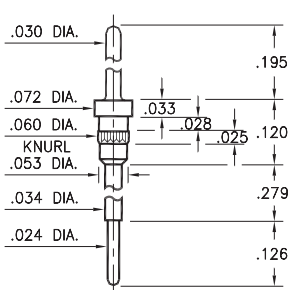
Press-fit in .057 mounting hole



5107

5107-0-00-XX-00-00-03-0

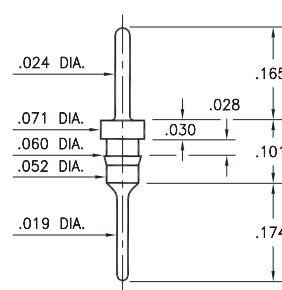
Press-fit in .057 mounting hole



8919

8919-0-00-XX-00-00-03-0

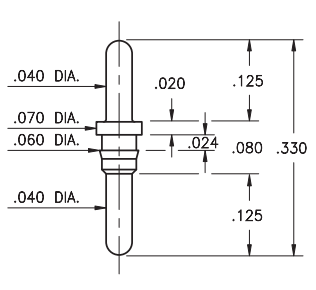
Press-fit in .057 mounting hole



3077

3077-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



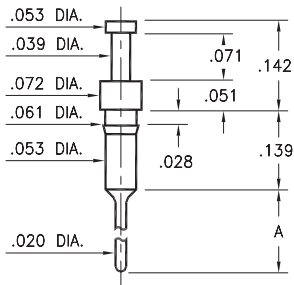
MALE PCB PINS

PRINTED CIRCUIT PINS

3408

3408-X-00-XX-00-00-03-0

Press-fit in .057 mounting hole

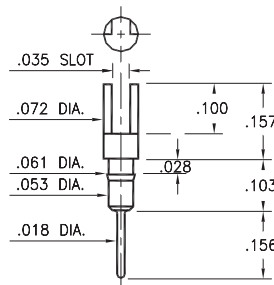


Basic Part Number	Pin Length A
3408-1	.121
3408-2	.181

0270/0282

02XX-0-01-XX-00-00-03-0

Press-fit in .057 mounting hole

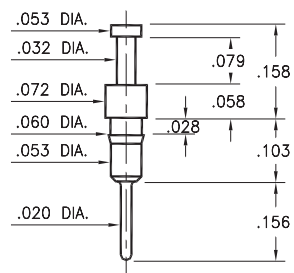


Basic Part Number	Pin Material
0270-0	Phosphor Bronze 544 Brass 360
0282-0	

0700

0700-0-00-XX-00-00-03-0

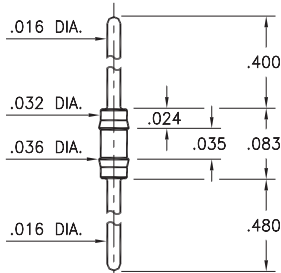
Press-fit in .057 mounting hole



8006

8006-0-00-XX-00-00-03-0

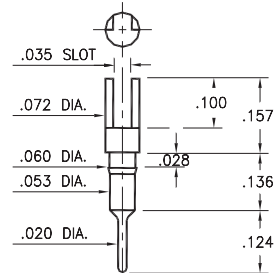
Press-fit in .034 mounting hole



0265

0265-0-01-XX-00-00-03-0

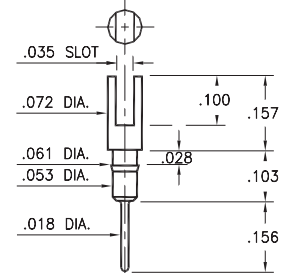
Press-fit in .057 mounting hole



0272

0272-0-01-XX-00-00-03-0

Press-fit in .057 mounting hole

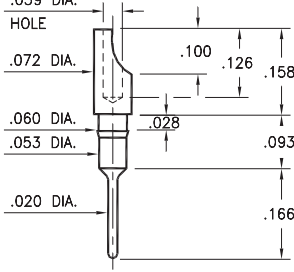


8000

8000-0-01-XX-00-00-03-0

Press-fit in .057 mounting hole

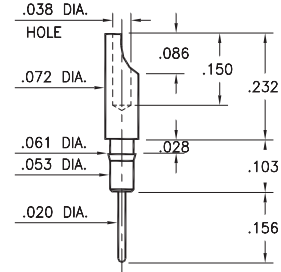
For wire sizes up to 22 AWG



0275

0275-0-01-XX-00-00-03-0

Press-fit in .057 mounting hole
Pin material is Phosphor Bronze 544 (B2)
For wire sizes up to 22 AWG

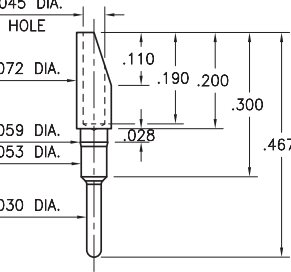


1107

1107-0-01-15-00-00-03-0

Press-fit in .057 mounting hole

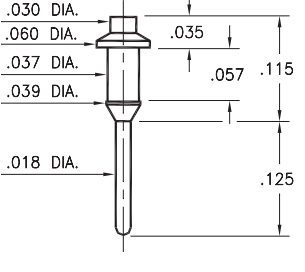
For wire sizes up to 20 AWG



9976

9976-0-00-XX-00-00-03-0

Press-fit in .038 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



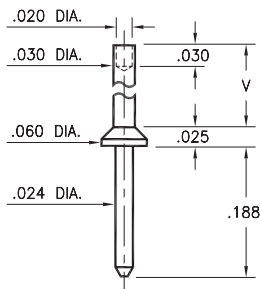
MALE PCB PINS

PRINTED CIRCUIT PINS

3117

3117-X-00-XX-00-00-08-0

Swage mount in .035 hole

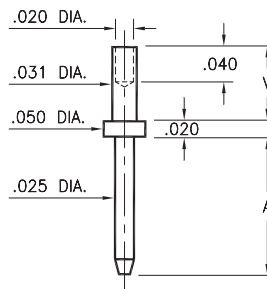


Basic Part Number	Board Thickness	Length V
3117-1	.031	.047
3117-2	.062	.078
3117-3	.094	.110
3117-4	.125	.141

3114/3115

311X-X-00-XX-00-00-08-0

Swage mount in .035 mounting hole

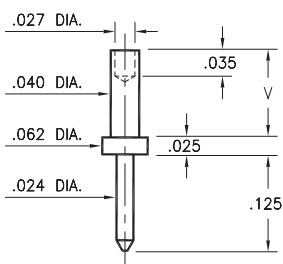


Basic Part Number	Board Thickness	Length A	Length V
3114-1	.031	.150	.051
3114-2	.062	.150	.082
3115-1	.031	.300	.051
3115-2	.062	.300	.082

3112

3112-X-00-XX-00-00-08-0

Swage mount in .043 hole

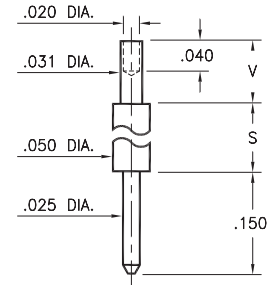


Basic Part Number	Board Thickness	Length V
3112-1	.031	.051
3112-2	.062	.082
3112-3	.094	.113

3118/3119

311X-X-00-XX-00-00-08-0

Swage mount in .035 hole

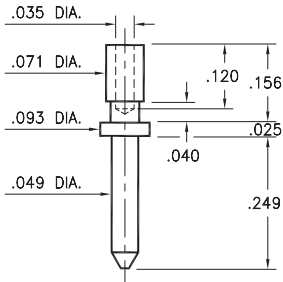


Basic Part Number	Board Thickness	Length S	Length V
3118-1	.031	.170	.051
3118-2	.062	.170	.082
3119-1	.031	.420	.051
3119-2	.062	.420	.082

3139

3139-0-00-XX-00-00-08-0

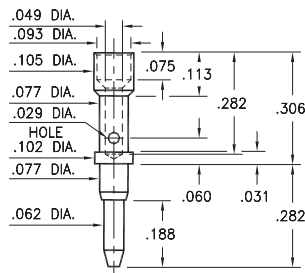
Wire crimp termination. Accepts wire sizes 24 AWG Max. / 28 AWG Min.



3602

3602-0-07-XX-00-00-08-0

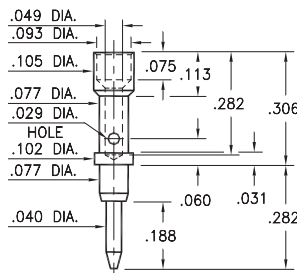
Annealed
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



3603

3603-0-07-XX-00-00-08-0

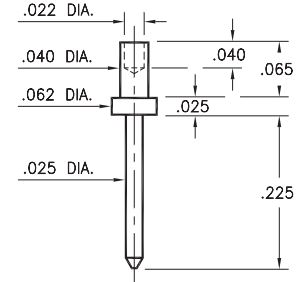
Annealed
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



3131

3131-1-00-XX-00-00-08-0

Swage mount in .043 hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



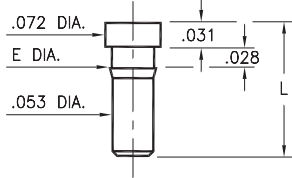
MALE PCB PINS

PRINTED CIRCUIT PINS

0259/0286/1941

XXXX-0-00-XX-00-00-03-0

Press-fit in .057/.059 mounting hole



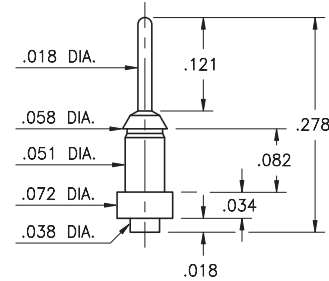
Basic Part Number	Length L	Barb Dia. E	Mounting Hole
0259-0	.173	.062	.059
0286-0	.115	.060	.057
*1941-0	.169	.058	.056

* Flat face Target contact

2956-0

2956-0-00-XX-00-00-03-0

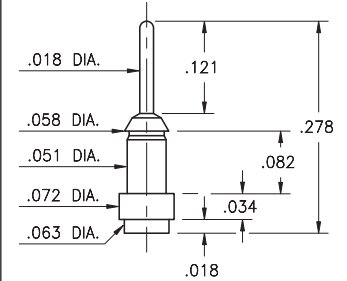
Surface mount



2956-1

2956-1-00-XX-00-00-03-0

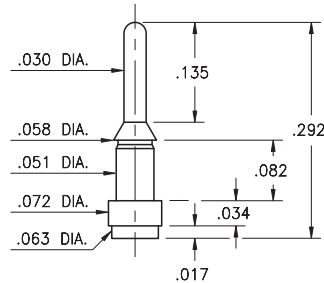
Surface mount



4956-1

4956-1-00-XX-00-00-33-0

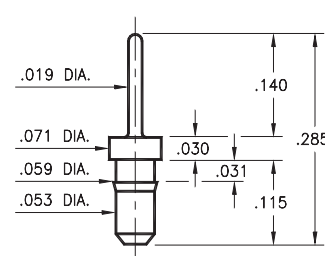
Surface mount



8876

8876-0-00-XX-00-00-03-0

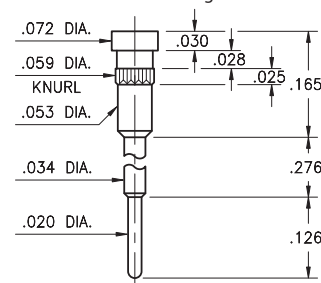
Press-fit in .057 mounting hole



1938

1938-0-00-XX-00-00-03-0

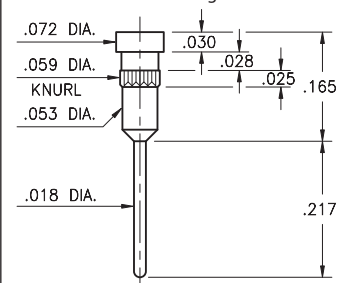
Flat face Target contact, solder Tail
Press-fit in .057 mounting hole



1940

1940-0-00-XX-00-00-03-0

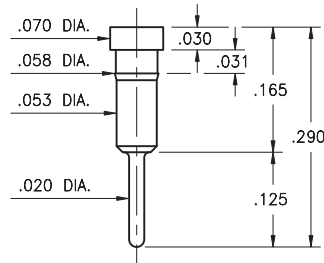
Flat face Target contact, solder Tail
Press-fit in .057 mounting hole



1942

1942-0-00-XX-00-00-03-0

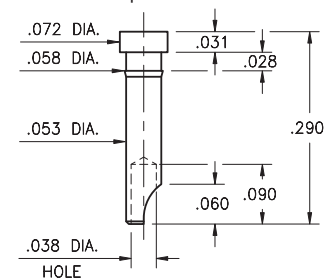
Flat face Target contact, solder Tail
Press-fit in .056 mounting hole



3024

3024-0-01-XX-00-00-03-0

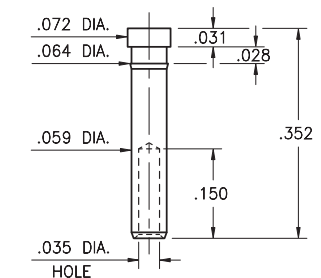
Flat face Target contact, solder cup
Press-fit in .056 mounting hole
For wire sizes up to 22 AWG



3000

3000-0-00-XX-00-00-03-0

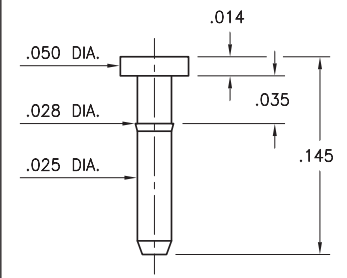
Flat face Target contact, wire termination
Press-fit in .061 mounting hole. Accepts wire sizes 24 AWG Max. / 28 AWG Min.



6430

6430-0-00-XX-00-00-03-0

Press-fit in .025 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



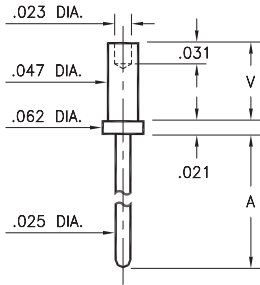
MALE PCB PINS

PRINTED CIRCUIT PINS

3130/3134

31XX-X-00-XX-00-00-08-0

Swage mount in .052 hole

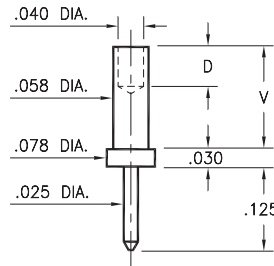


Basic Part Number	Board Thickness	Length A	Length V
3134-1	.031	.079	.051
3134-2	.062	.079	.082
3134-3	.094	.079	.113
3134-4	.125	.079	.145
3130-1	.031	.179	.051
3130-2	.062	.179	.082
3130-3	.094	.179	.113
3130-4	.125	.179	.145

3113

3113-X-00-XX-00-00-08-0

Swage mount in .062 hole

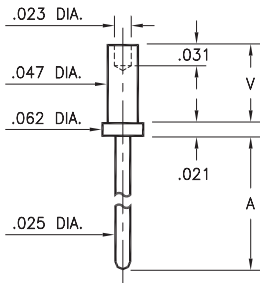


Basic Part Number	Board Thickness	Length V	Depth D
3113-1	.031	.062	.040
3113-2	.062	.094	.062
3113-3	.094	.125	.062
3113-4	.125	.156	.062

3151

3151-X-00-XX-00-00-08-0

Swage mount in .052 hole



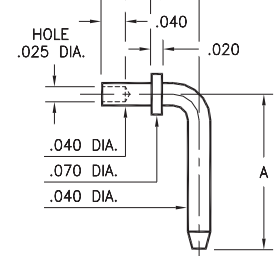
Basic Part Number	Board Thickness	Length A	Length V
3151-1	.031	.479	.051
3151-2	.062	.479	.082
3151-3	.094	.479	.113
3151-4	.125	.479	.145

3301 ⇌ 3304

330X-X-14-XX-00-00-08-0

Specify board thickness

Swage mount in .043 hole



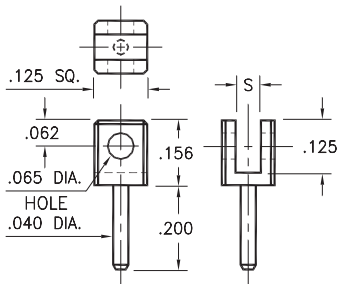
Basic Part Number	Pin Centers A
3301-X	.257
3302-X	.357
3303-X	.375
3304-X	.562

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

3620

3620-X-32-XX-00-00-08-0

Board edge rivet mount.

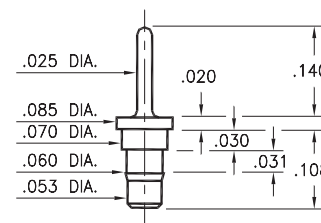


Basic Part Number	Board Thickness	Slot S
3620-1	.031	.047
3620-2	.062	.075

0940

0940-0-00-XX-00-00-03-0

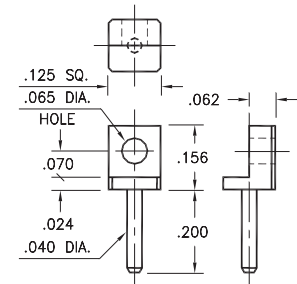
Press-fit in .057 mounting hole



3621

3621-0-32-XX-00-00-08-0

Board edge rivet mount



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



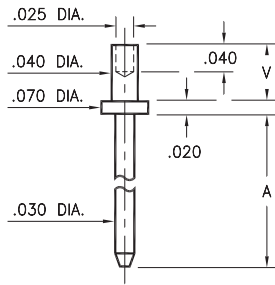
MALE PCB PINS

PRINTED CIRCUIT PINS

3110/3111

311X-X-00-XX-00-00-08-0

Swage mount in .043 hole

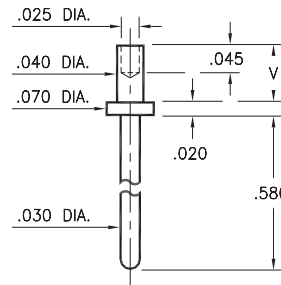


Basic Part Number	Board Thickness	Length A	Length V
3110-1	.031	.150	.051
3110-2	.062	.150	.082
3110-3	.094	.150	.113
3111-1	.031	.300	.051
3111-2	.062	.300	.082
3111-3	.094	.300	.113

3150

3150-X-00-XX-00-00-08-0

Swage mount in .043 mounting hole



Basic Part Number	Board Thickness	Length V
3150-1	.031	.051
3150-2	.062	.082

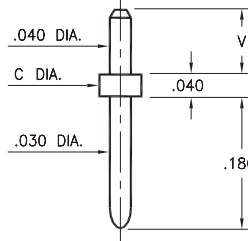
3136/3137

313X-X-00-XX-00-00-08-0

Solder mount in .043 mounting hole

3137-1 is available on 16mm wide carrier tape: 580 parts per 13" reel.

See page 224.1 for Tape & Reel details



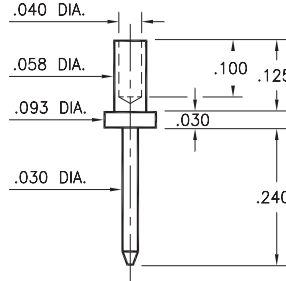
Basic Part Number	Board Thickness	Length V	Flange Dia. C
3136-1	.062	.082	
3136-2	.094	.110	.078
3136-3	.125	.145	
3137-1	.062	.082	
3137-2	.094	.110	.062
3137-3	.125	.145	
3137-4	.156	.185	

3148

3148-3-00-XX-00-00-08-0

Swage mount in .062 hole

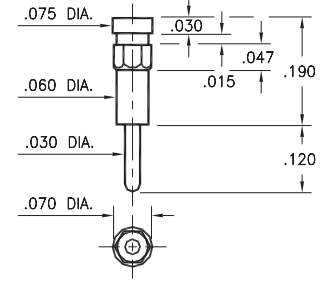
For a .094 thick board



8815

8815-0-00-XX-00-00-03-0

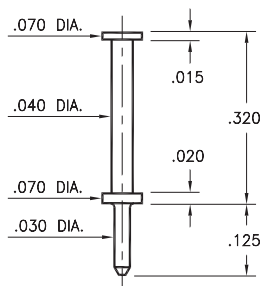
Hex press-fit in .066 plated through-hole



6821

6821-0-00-XX-00-00-08-0

Turret terminal pin

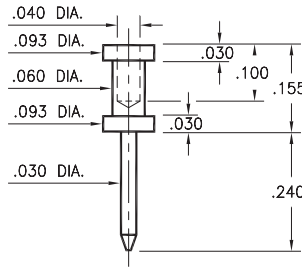


3132

3132-0-00-XX-00-00-08-0

Wire crimp termination, Annealed

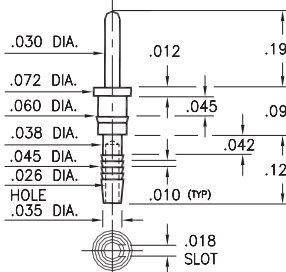
Accepts wire sizes 22 AWG Max. / 24 AWG Min.



5601

5601-0-01-XX-00-00-03-0

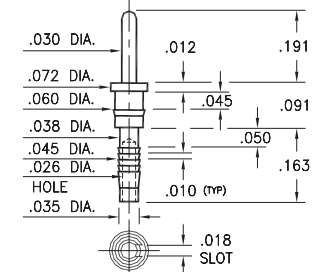
Compliant press-fit in .040 ± .003 plated through-hole. For .060" → .100" thick board



5602

5602-0-01-XX-00-00-03-0

Compliant press-fit in .040 ± .003 plated through-hole. For .090" → .130" thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



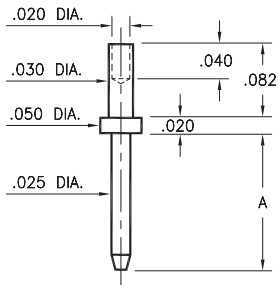
MALE PCB PINS

PRINTED CIRCUIT PINS

3120

3120-X-00-XX-00-00-08-0

Swage mount in .034 hole

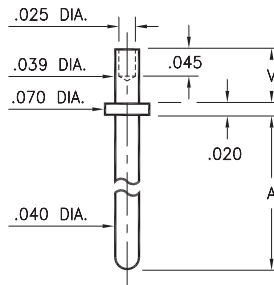


Basic Part Number	Pin Length A
3120-1	.205
3120-2	.250

3122⇔3153

31XX-X-00-XX-00-00-08-0

Swage mount in .043 hole



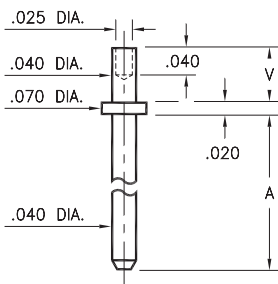
Basic Part Number	Pin Length A
3153-X	.180
3141-X	.230
3122-X	.280
3149-X	.380
3123-X	.580
3140-X	.780
3124-X	.880

-X-	Board Thickness	Length V
1	.031	.051
2	.062	.082

3101⇔3106

310X-X-00-XX-00-00-08-0

Swage mount in .043 hole



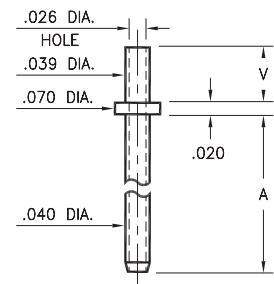
Basic Part Number	Pin Length A
3101-X	.150
3102-X	.188
3103-X	.300
3104-X	.500
3105-X	.750
3106-X	1.000

-X-	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

3221⇔3223

322X-0-00-XX-00-00-08-0

Swage mount in .043 hole



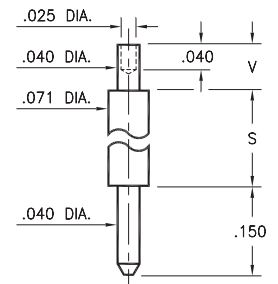
Basic Part Number	Pin Length A
3221-X	.100
3222-X	.150
3223-X	.300

-X-	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

3125/3126

312X-X-00-XX-00-00-08-0

Swage mount in .043 hole



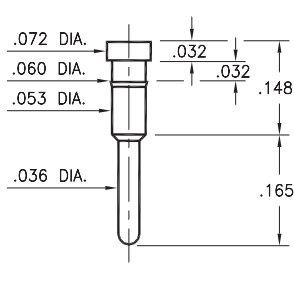
Basic Part Number	Pin Length S
3125-X	.170
3126-X	.420

-X-	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

0995

0995-0-00-XX-00-00-03-0

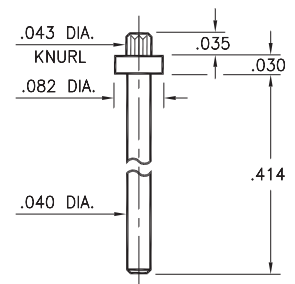
Press-fit in .057 mounting hole



4526

4526-0-00-XX-00-00-03-0

Press-fit in .040 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



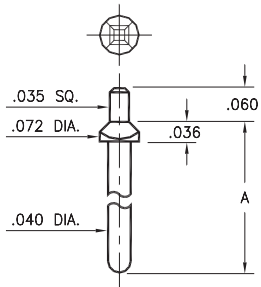
MALE PCB PINS

PRINTED CIRCUIT PINS

8600/8954/8955

8XXX-X-05-XX-00-00-03-0

Square press-fit in .043 plated through-hole

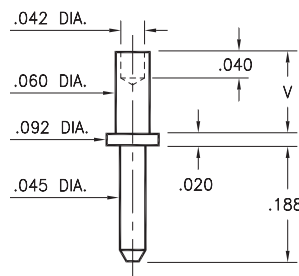


Basic Part Number	Pin Length A
8600-0	.400
8600-1	.850
8600-2	1.200
8954-0	.136
8955-0	.655

3159

3159-X-00-XX-00-00-08-0

Swage mount in .064 hole

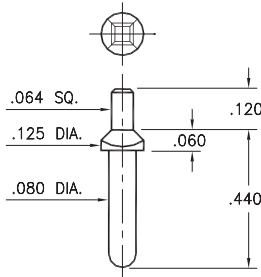


Basic Part Number	Board Thickness	Length V
3159-1	.031	.062
3159-2	.062	.094
3159-3	.094	.125
3159-4	.125	.156

8952

8952-0-05-XX-00-00-03-0

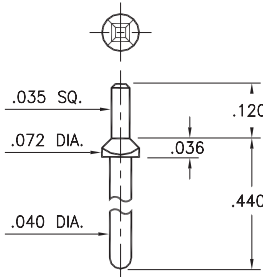
Square press-fit in .087 plated through-hole



8953

8953-0-05-XX-00-00-03-0

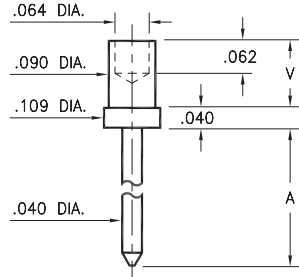
Square press-fit in .047 plated through-hole



3230

3230-X-00-XX-00-00-08-0

Swage mount in .094 hole



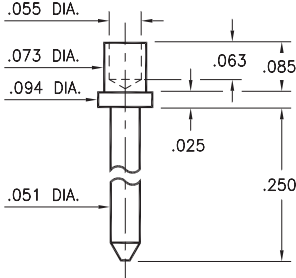
Basic Part Number	Board Thickness	Length A	Length V
3230-1	.031	.202	.065
3230-2	.062	.228	.095
3230-3	.094	.258	.125
3230-4	.125	.288	.155

3146

3146-2-00-XX-00-00-08-0

Swage mount in .076 hole

For a .062 thick board

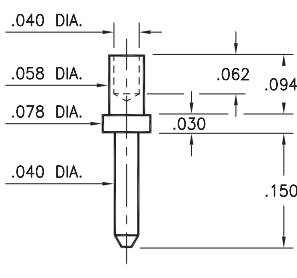


3142

3142-2-00-XX-00-00-08-0

Swage mount in .062 hole

For a .062 thick board

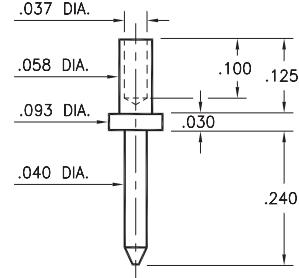


3232

3232-3-00-XX-00-00-08-0

Swage mount in .062 hole

For a .094 thick board

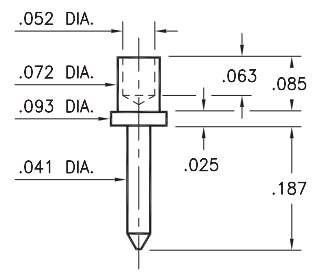


3145

3145-2-00-XX-00-00-08-0

Swage mount in .076 hole

For a .062 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ " GOLD OVER NICKEL (RoHS)



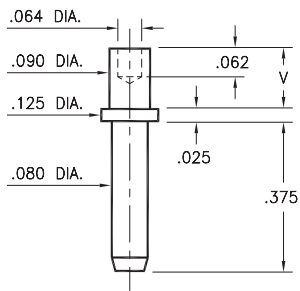
MALE PCB PINS

PRINTED CIRCUIT PINS

3231

3231-X-00-XX-00-00-08-0

Swage mount in .094 hole

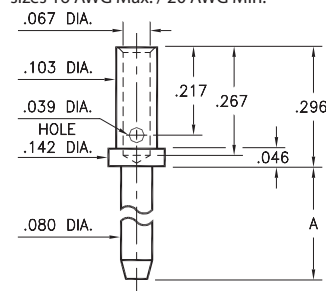


Basic Part Number	Board Thickness	Length V
3231-2	.062	.094
3231-3	.094	.125
3231-4	.125	.156

3609

3609-X-07-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.

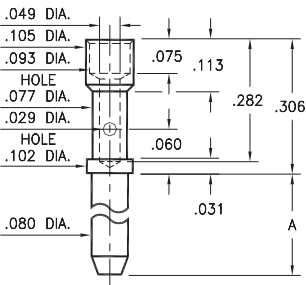


Basic Part Number	Pin Length A
3609-1	.200
3609-2	.375
3609-3	.500

3601

3601-X-07-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.

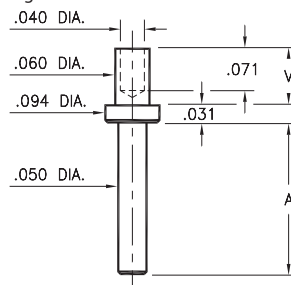


Basic Part Number	Pin Length A
3601-1	.200
3601-2	.375
3601-3	.500

3133/3138/3152

31XX-X-00-XX-00-00-08-0

Specify board thickness
Swage mount in .064 hole



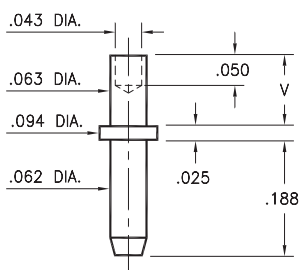
Basic Part Number	Pin Length A
3152-X	.094
3133-X	.219
3138-X	.282

- X -	Board Thickness	Length V
1	.031	.063
2	.062	.094
3	.094	.125
4	.125	.156

3144

3144-X-00-XX-00-00-08-0

Swage mount in .067 hole

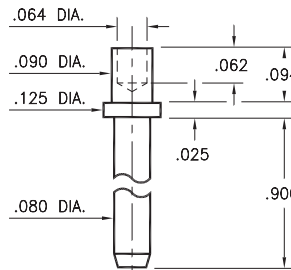


Basic Part Number	Board Thickness	Length V
3144-1	.031	.053
3144-2	.062	.084
3144-3	.094	.115

3233

3233-2-00-XX-00-00-08-0

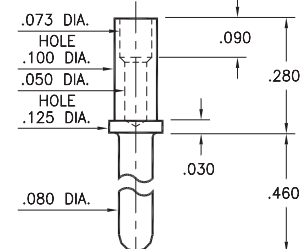
Swage mount in .094 hole
For a .062 thick board



0520

0520-0-00-XX-00-00-03-0

Annealed
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



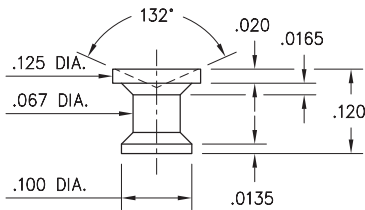
MALE PCB PINS

PRINTED CIRCUIT PINS

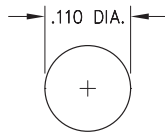
1943

1943-0-00-15-00-00-03-0

Concave face Target contact, surface mount
Also available on 16mm wide carrier tape:
2,200 parts per 13" reel.
See page 224.2 for Tape & Reel details



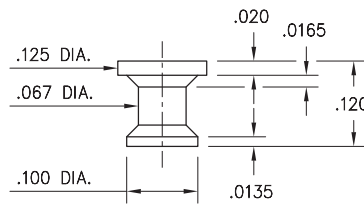
P.C.B. Layout



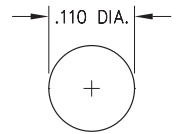
1944

1944-0-00-15-00-00-03-0

Flat face Target contact, surface mount
Also available on 16mm wide carrier tape:
2,200 parts per 13" reel.
See page 224.2 for Tape & Reel details



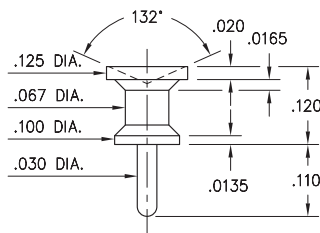
P.C.B. Layout



1945

1945-0-00-15-00-00-03-0

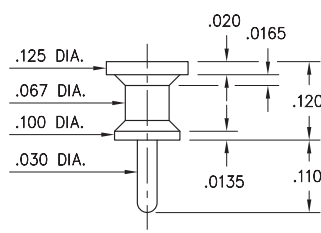
Concave face Target contact, solder Tail



1946

1946-0-00-15-00-00-03-0

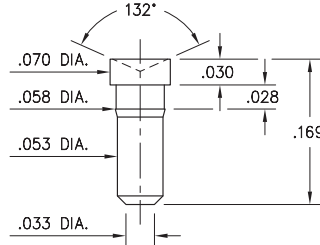
Flat face Target contact, solder Tail



1947

1947-0-00-15-00-00-03-0

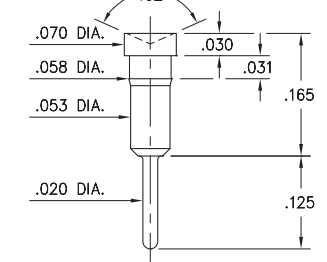
Concave face Target contact, surface mount
Press-fit in .056 mounting hole



1948

1948-0-00-15-00-00-03-0

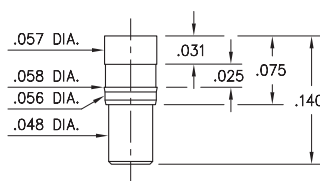
Concave face Target contact, Solder Tail
Press-fit in .056 mounting hole



1949

1949-0-00-15-00-00-03-0

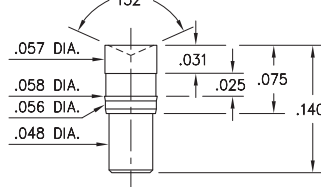
Flat face Target contact, surface mount
Press-fit in .056 mounting hole



1950

1950-0-00-15-00-00-03-0

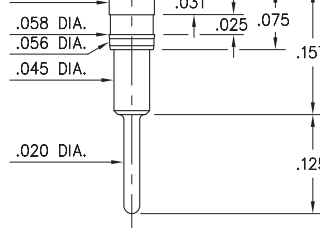
Concave face Target contact, surface mount
Press-fit in .056 mounting hole



1951

1951-0-00-15-00-00-03-0

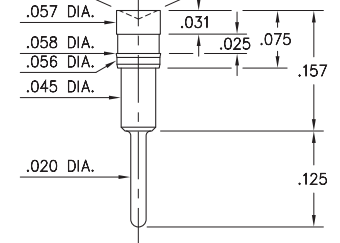
Flat face Target contact, Solder Tail
Press-fit in .056 mounting hole



1952

1952-0-00-15-00-00-03-0

Concave face Target contact, solder Tail
Press-fit in .056 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: 194X - 0 - 00 - 15 - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

◆ 15 10 μ " GOLD OVER NICKEL (RoHS)



MALE PCB PINS

PRINTED CIRCUIT PINS

<p>1958 1958-0-00-15-00-00-03-0 Concave face Target contact, solder Tail Press-fit in .057 mounting hole</p>	<p>1960 1960-0-00-15-00-00-03-0 Concave face Target contact, solder Tail Press-fit in .057 mounting hole</p>	<p>1831 1831-1-00-15-00-00-03-0 Concave face Target contact, solder Tail Hex press-fit in .034 mounting hole</p>	<p>1931 1931-1-00-15-00-00-03-0 Flat face Target contact, solder Tail Hex press-fit in .034 mounting hole</p>
<p>1953 1953-0-00-XX-00-00-03-0 Flat face Target contact, surface mount Press-fit in .056 mounting hole</p>	<p>1954 1954-0-00-XX-00-00-03-0 Flat face Target contact, surface mount Press-fit in .056 mounting hole</p>	<p>1955 1955-0-00-15-00-00-03-0 Concave face Target contact, surface mount Press-fit in .056 mounting hole</p>	<p>1957 1957-0-00-15-00-00-03-0 Concave face Target contact, surface mount Press-fit in .056 mounting hole</p>
<p>1933 1933-0-00-XX-00-00-03-0 Flat face Target contact, solder Tail Press-fit in .034 mounting hole</p>	<p>1935 1935-0-00-XX-00-00-03-0 Flat face Target contact, surface mount Press-fit in .034 mounting hole</p>	<p>1934 1934-0-00-15-00-00-03-0 Concave face Target contact, solder Tail Press-fit in .034 mounting hole</p>	<p>1936 1936-0-00-15-00-00-03-0 Concave face Target contact, surface mount Press-fit in .034 mounting hole</p>

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - 03 - 0

BASIC PART # →

SPECIFY PIN FINISH:

- 01 200 μ m TIN/LEAD OVER NICKEL
- ◆ 80 200 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ m GOLD OVER NICKEL (RoHS)



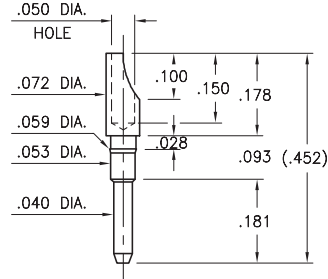
MALE PCB PINS

PRINTED CIRCUIT PINS

1140

1140-0-01-XX-00-00-03-0

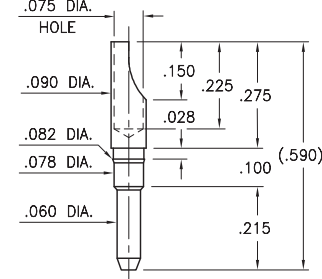
Press-fit in .057 mounting hole
For wire sizes up to 20 AWG



1160

1160-0-01-XX-00-00-03-0

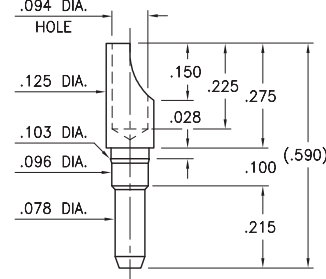
Press-fit in .080 mounting hole
For wire sizes up to 16 AWG



1178

1178-0-01-XX-00-00-03-0

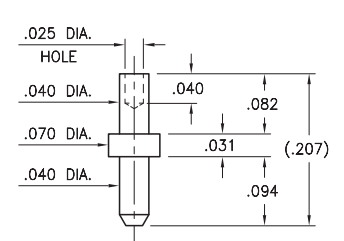
Press-fit in .100 mounting hole
For wire sizes up to 14 AWG



4658

4658-0-00-XX-00-00-08-0

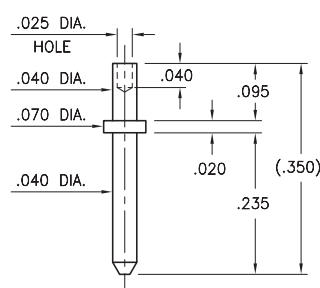
Swage mount .043 mounting hole



4275

4275-0-00-XX-00-00-08-0

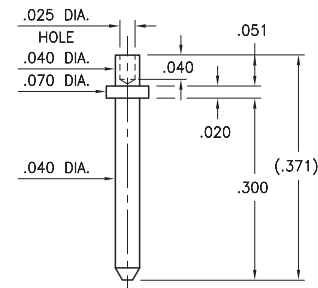
Swage mount .043 mounting hole



9103

9103-0-00-XX-00-00-08-0

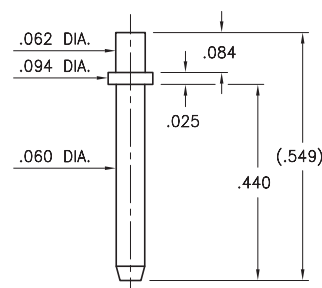
Swage mount .043 mounting hole



4357

4357-0-00-XX-00-00-03-0

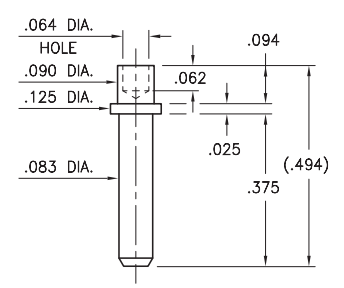
Solder mount .064 mounting hole



9242

9242-0-00-XX-00-00-08-0

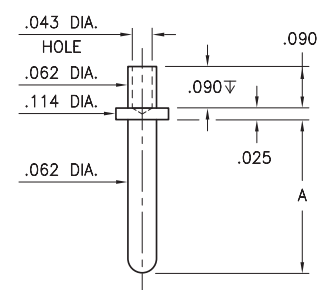
Swage mount .094 mounting hole



4639/4717

4XXX-0-00-XX-00-00-08-0

Swage mount .065 mounting hole

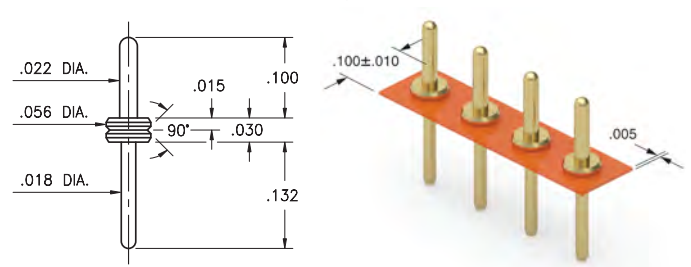


Basic Part Number	Pin Length A
4639-0	.432
4717-0	.332

3169

3169-0-61-15-00-00-03-0

Pins are mounted on a removable Kapton tape carrier at .100" pitch.
Packaged on continuous strip spools of 1,000 pins.
(Contact distributors for other order quantity options.)



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - 0X - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- 80 200 μ" TIN OVER NICKEL (RoHS)
- 15 10 μ" GOLD OVER NICKEL (RoHS)
- 21 20 μ" GOLD OVER NICKEL (RoHS)
- 34 50 μ" GOLD OVER NICKEL (RoHS)



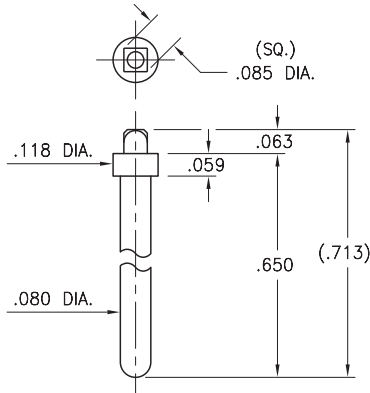
MALE PCB PINS

PRINTED CIRCUIT PINS

5920

5920-0-00-XX-00-00-03-0

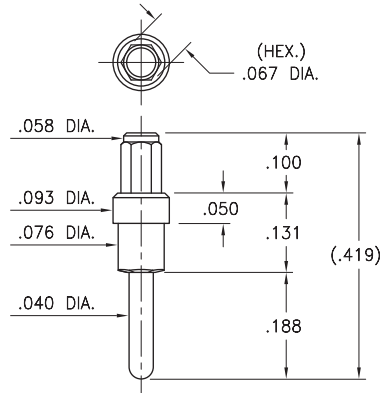
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .086 (2,18mm)



6025

6025-0-00-XX-00-00-03-0

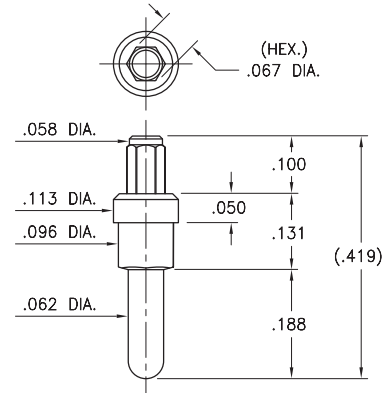
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .068 (1,73mm)



6035

6035-0-00-XX-00-00-03-0

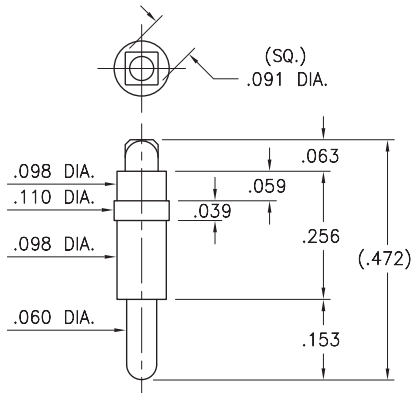
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .068 (1,73mm)



8237

8237-0-05-XX-00-00-03-0

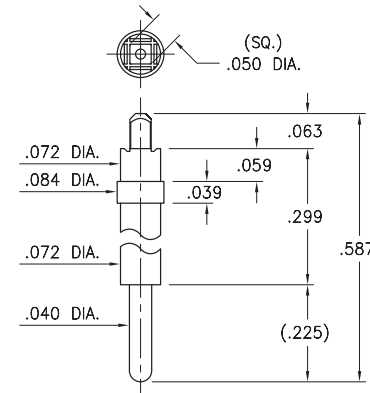
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .092 (2,34mm)



6834

6834-0-00-XX-00-00-03-0

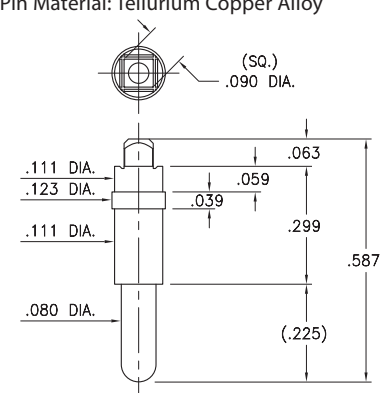
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .0512 (1,3mm)



6835

6835-0-00-XX-00-00-44-0

Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .092 (2,34mm)
* Pin Material: Tellurium Copper Alloy



Recommended drilled hole sizes are prior to plating of the PCB and based on typical copper deposition of .5 - 1 oz. This results in a reduction of hole size by approximately .0015" - .003". Depending on surface plating, typical finished hole sizes are .003" - .005" smaller than drilled hole sizes. The finished hole size tolerance for press-fit applications should be specified as +/- .002"

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted) *

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2°



ORDER CODE: XXXX - 0 - 0X - XX - 00 - 00 - XX - 0

BASIC PART # →

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



MALE PCB PINS

PRINTED CIRCUIT PINS

<p>1959-0 1959-0-00-15-00-00-03-0 Flat face Target contact, surface mount Press-fit in .098 mounting hole</p>	<p>1959-1 1959-1-00-15-00-00-03-0 Concave face Target contact, surface mount Press-fit in .098 mounting hole</p>	<p>1969-0 1969-0-00-15-00-00-03-0 Flat face Target contact, solder Tail Press-fit in .098 mounting hole</p>	<p>1969-1 1969-1-00-15-00-00-03-0 Concave face Target contact, solder Tail Press-fit in .098 mounting hole</p>						
<p>1968-0 1968-0-00-15-00-00-03-0 Flat face Target contact, Press-fit in .097" mounting hole. For wire sizes up to 16AWG</p>	<p>1968-1 1968-1-00-15-00-00-03-0 Concave face Target contact, Press-fit in .097" mounting hole. For wire sizes up to 16AWG</p>	<p>3078 3078-X-00-15-00-00-03-0 Press-fit in .057 mounting hole For wire sizes up to 22 AWG</p> <table border="1" data-bbox="1218 924 1429 1092"> <thead> <tr> <th>Basic Part Number</th> <th>Pin Length A</th> </tr> </thead> <tbody> <tr> <td>3078-0</td> <td>.145</td> </tr> <tr> <td>3078-1</td> <td>.205</td> </tr> </tbody> </table>		Basic Part Number	Pin Length A	3078-0	.145	3078-1	.205
Basic Part Number	Pin Length A								
3078-0	.145								
3078-1	.205								

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - 03 - 0

BASIC PART # \swarrow

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ " GOLD OVER NICKEL (RoHS)



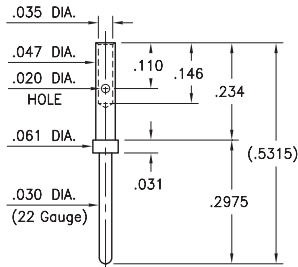
MALE PCB PINS

CRIMP PINS FOR 12-28 AWG WIRE

3922

3922-0-01-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 22 AWG Max. / 28 AWG Min.

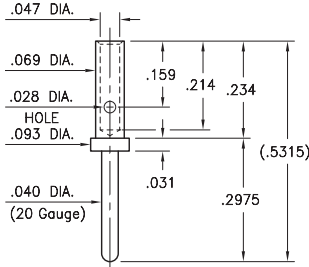


Dimensions per M39029/58-360

3920

3920-0-01-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.

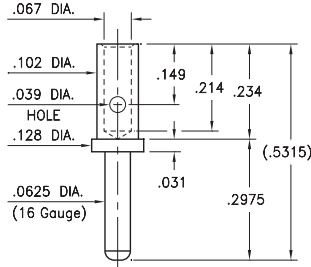


Dimensions per M39029/58-363

3916

3916-0-01-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.

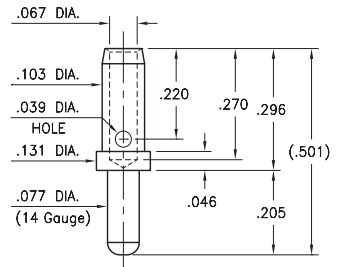


Dimensions per M39029/58-364

3914

3914-0-01-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 14 AWG Max. / 16 AWG Min.

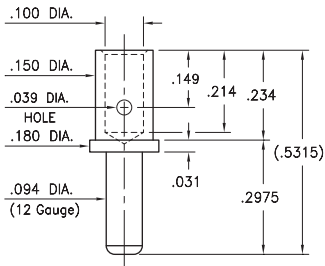


Dimensions per M39029/1-102

3912

3912-0-01-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 12 AWG Max. / 14 AWG Min.



Dimensions per M39029/58-365

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: 39XX - X - 01 - XX - 00 - 00 - 08 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ m TIN/LEAD OVER NICKEL
- ◆ 80 200 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ m GOLD OVER NICKEL (RoHS)



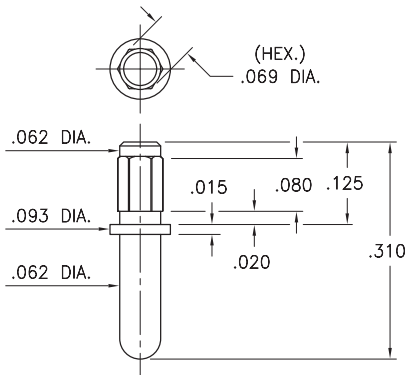
MALE PCB PINS

PRINTED CIRCUIT PINS

3975

3975-0-00-XX-00-00-03-0

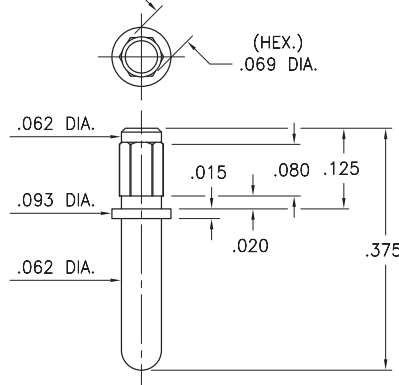
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .070 (1,78mm)



3977

3977-0-00-XX-00-00-03-0

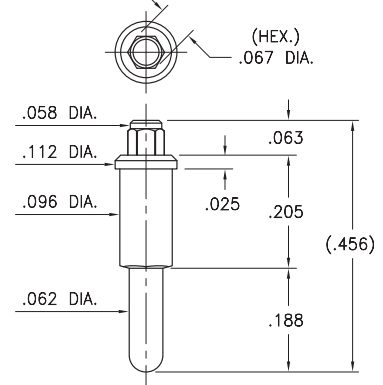
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .070 (1,78mm)



4427

4427-0-00-XX-00-00-03-0

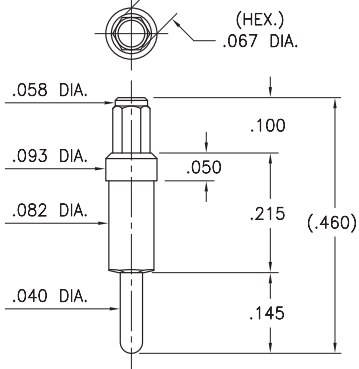
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .068 (1,73mm)



7504

7504-0-00-XX-00-00-03-0

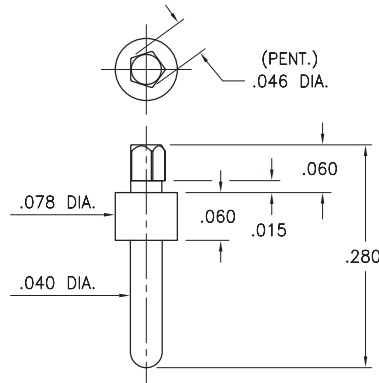
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .068 (1,73mm)



9003

9003-0-00-XX-00-00-03-0

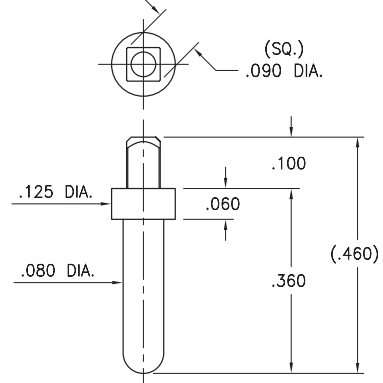
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .047 (1,19mm)



6955

6955-0-05-XX-00-00-03-0

Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .091 (2,31mm)



Recommended drilled hole sizes are prior to plating of the PCB and based on typical copper deposition of .5 - 1 oz. This results in a reduction of hole size by approximately .0015" - .003". Depending on surface plating, typical finished hole sizes are .003" - .005" smaller than drilled hole sizes. The finished hole size tolerance for press-fit applications should be specified as +/- .002"

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - 0 - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



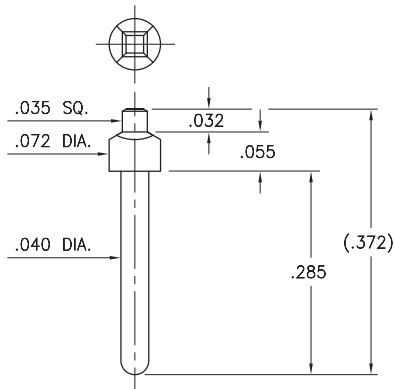
MALE PCB PINS

PRINTED CIRCUIT PINS

1655

1655-0-00-XX-00-00-03-0

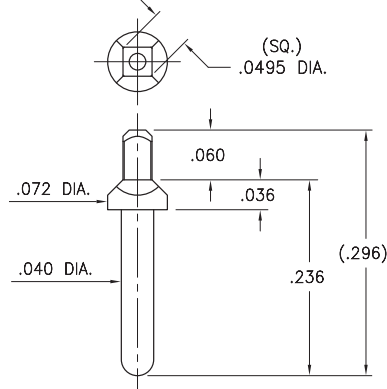
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .0505 (1,28mm)



4219

4219-0-05-XX-00-00-03-0

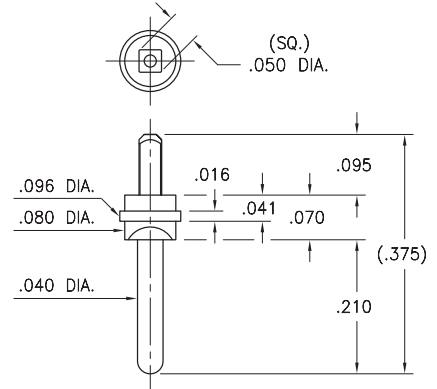
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .0505 (1,28mm)



5459

5459-0-00-XX-00-00-03-0

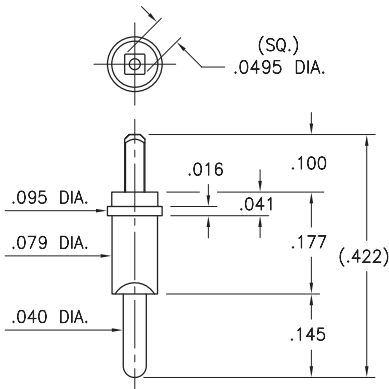
Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .051 (1,3mm)



9061

9061-0-00-XX-00-00-03-0

Solderless press-fit pin for plated through-hole
Recommended drilled hole size: .0505 (1,28mm)



Recommended drilled hole sizes are prior to plating of the PCB and based on typical copper deposition of .5 - 1 oz. This results in a reduction of hole size by approximately .0015" - .003". Depending on surface plating, typical finished hole sizes are .003" - .005" smaller than drilled hole sizes. The finished hole size tolerance for press-fit applications should be specified as +/- .002"

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted) *

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - 0 - 0X - XX - 00 - 00 - 03 - 0

BASIC PART # →

→ **SPECIFY PIN FINISH:**

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)

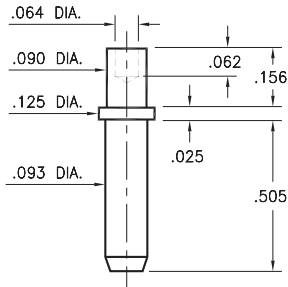
MALE PCB PINS

PRINTED CIRCUIT PINS

5231

5231-0-00-XX-00-00-38-0

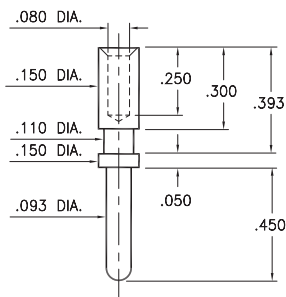
Swage mount in .094 hole
For a .125 thick board



9092

9092-0-00-XX-00-00-38-0

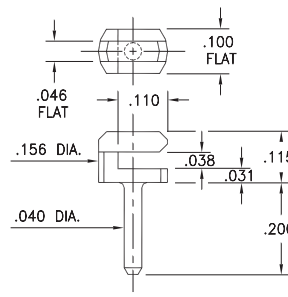
Wire crimp termination up to 14 AWG



7310

7310-0-01-XX-00-00-08-0

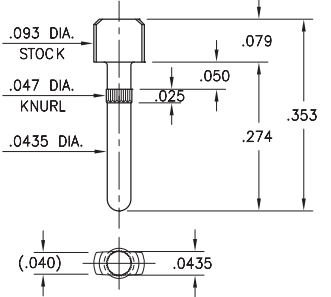
Board edge press-fit



5066

5066-0-00-26-00-00-03-0

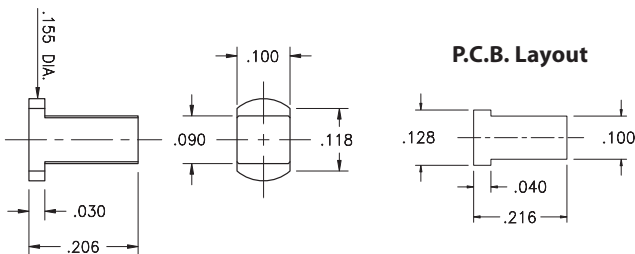
Press-fit in .043 mounting hole



7937

7937-0-00-15-00-00-03-0

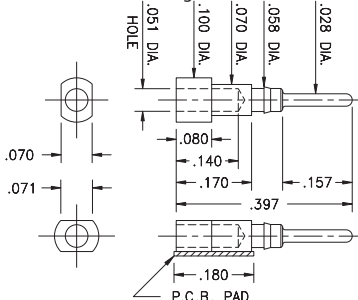
Target contact, horizontal surface mount
Also available on 16mm wide carrier tape:
2,400 parts per 13" reel.
See page 224.2 for Tape & Reel details



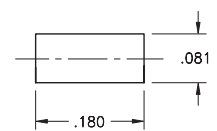
1502

1502-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole



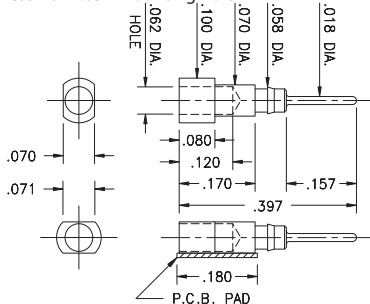
P.C.B. Layout



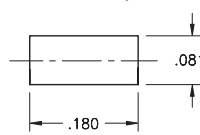
5102

5102-0-00-XX-00-00-33-0

Press-fit in .057 mounting hole



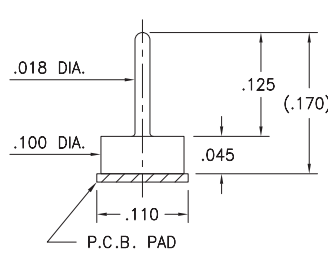
P.C.B. Layout



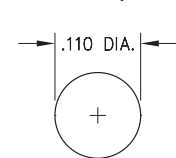
1508

1508-0-00-15-00-00-03-0

Test point, surface mount
Also available on 16mm wide carrier tape:
1,600 parts per 13" reel.
See page 224.2 for Tape & Reel details



P.C.B. Layout



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ" GOLD OVER NICKEL (RoHS)



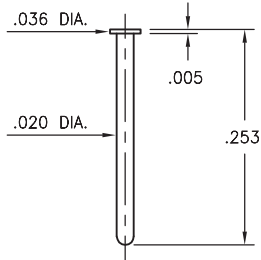
MALE PCB PINS

PINS ON TAPE & REEL PACKAGING

6547

6547-0-57-XX-00-00-33-0

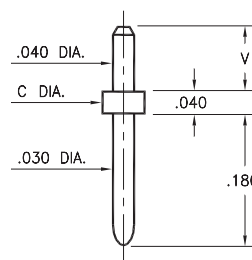
Solder mount in .024 mounting hole
24mm wide X 8mm pitch carrier tape:
1,080 parts per 13" reel.



3137

3137-1-57-XX-00-00-08-0

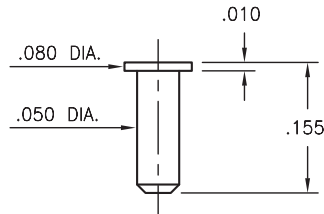
Solder mount in .043 mounting hole
16mm wide X 12mm pitch carrier tape:
580 parts per 13" reel.



2381

2381-0-57-XX-00-00-33-0

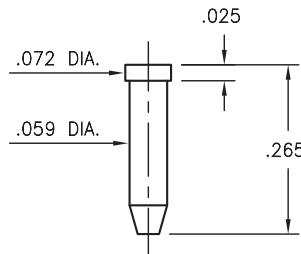
Solder mount in .054 mounting hole
16mm wide X 8mm pitch carrier tape:
1,800 parts per 13" reel.



9265

9265-0-57-XX-00-00-38-0

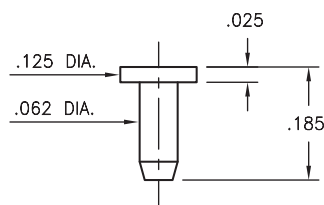
Solder mount in .063 mounting hole
16mm wide X 8mm pitch carrier tape:
1,170 parts per 13" reel.



9022

9022-0-57-XX-00-00-33-0

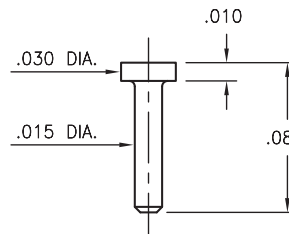
Solder mount in .066 mounting hole
24mm wide X 8mm pitch carrier tape:
1,500 parts per 13" reel.



4825

4825-0-57-XX-00-00-33-0

Solder mount in .019 mounting hole
16mm wide X 8mm pitch carrier tape:
3,250 parts per 13" reel.



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 0X - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ m TIN/LEAD OVER NICKEL
- ◆ 80 200 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 50 μ m GOLD OVER NICKEL (RoHS)



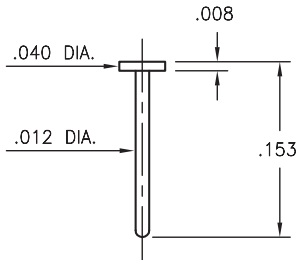
MALE PCB PINS

PINS ON TAPE & REEL PACKAGING

9083

9083-0-57-XX-00-00-38-0

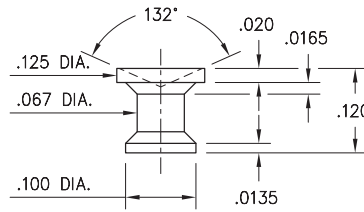
Solder mount in .016 mounting hole
16mm wide X 8mm pitch carrier tape:
1,950 parts per 13" reel.



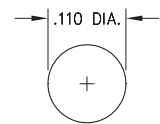
1943

1943-0-57-15-00-00-03-0

Concave face Target contact, surface mount
16mm wide X 8mm pitch carrier tape:
2,200 parts per 13" reel.



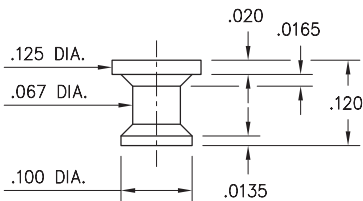
P.C.B. Layout



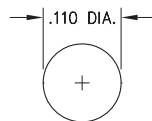
1944

1944-0-57-15-00-00-03-0

Flat face Target contact, surface mount
16mm wide X 8mm pitch carrier tape:
2,200 parts per 13" reel.



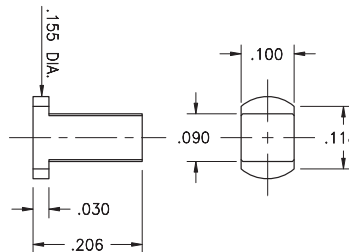
P.C.B. Layout



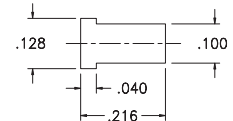
7937

7937-0-58-15-00-00-03-0

Target contact, horizontal surface mount
16mm wide X 8mm pitch carrier tape:
2,400 parts per 13" reel.



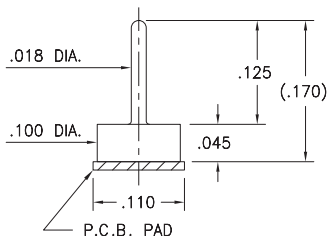
P.C.B. Layout



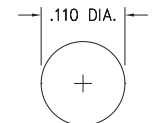
1508

1508-0-57-15-00-00-03-0

Test point, surface mount
16mm wide X 8mm pitch carrier tape:
1,600 parts per 13" reel.



P.C.B. Layout



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

◆ 15 10 μ" GOLD OVER NICKEL (RoHS)



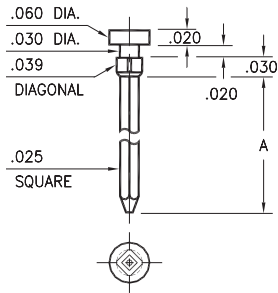
MALE PCB PINS

WRAPOST TERMINALS

5275

5275-X-05-XX-00-00-01-0

Square press-fit in .035 plated through-hole

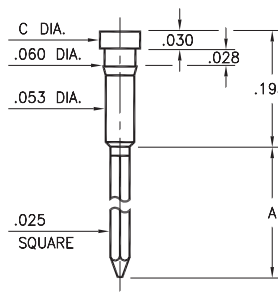


Basic Part Number	# of Wraps	Length A
5275-1	1	.370
5275-2	2	.470
5275-3	3	.610

1010 ⇔ 1012/1020 ⇔ 1022

10XX-X-05-XX-00-00-01-0

Press-fit in .057 mounting hole

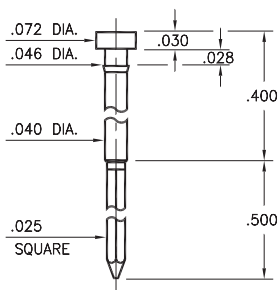


Basic Part Number	# of Wraps	Wrapost Length A	Head Dia. C
1012-1	1	.260	.072
1011-2	2	.360	
1010-3	3	.500	
1022-1	1	.260	.062
1021-2	2	.360	
1020-3	3	.500	

1215

1215-3-05-XX-00-00-01-0

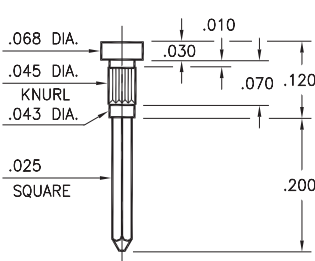
Press-fit in .043 mounting hole



1124

1124-0-05-XX-00-00-01-0

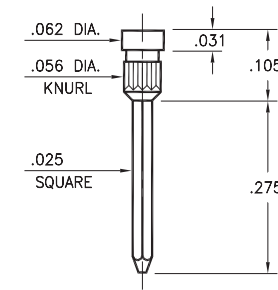
Press-fit in .043 mounting hole



1210

1210-0-05-XX-00-00-01-0

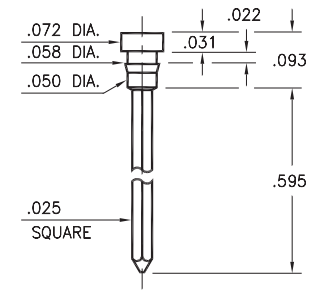
Press-fit in .053 mounting hole



1222

1222-0-05-XX-00-00-01-0

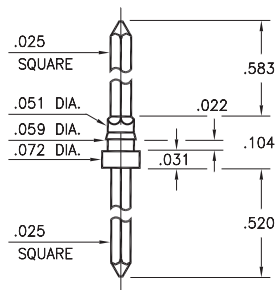
Press-fit in .055 mounting hole



1221

1221-0-05-XX-00-00-01-0

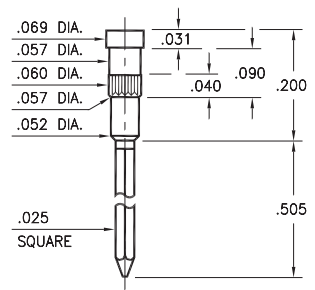
Press-fit in .056 mounting hole



1110

1110-3-05-XX-00-00-01-0

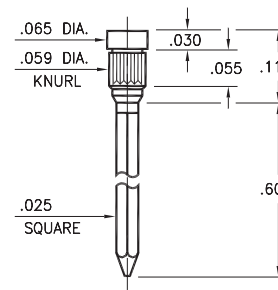
Press-fit in .057 mounting hole



1094

1094-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)



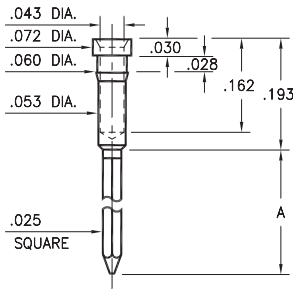
MALE PCB PINS

WRAPOST TERMINALS

1030 → 1032

103X-X-05-XX-00-00-01-0

Press-fit in .057 mounting hole

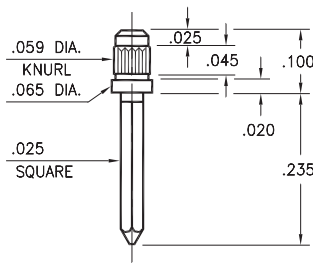


Basic Part Number	# of Wraps	Length A
1032-1	1	.260
1031-2	2	.360
1030-3	3	.500

1216

1216-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole

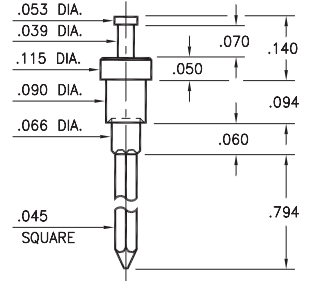


1095

1095-0-05-XX-00-00-01-0

Swage mount in .094 hole

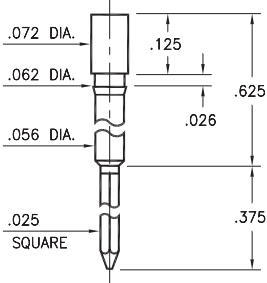
For a .062 thick board



1214

1214-0-05-XX-00-00-01-0

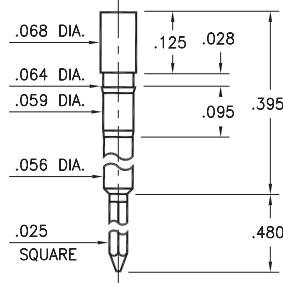
Press-fit in .059 mounting hole



1212

1212-0-05-XX-00-00-01-0

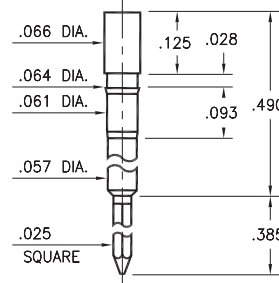
Press-fit in .061 mounting hole



1213

1213-0-05-XX-00-00-01-0

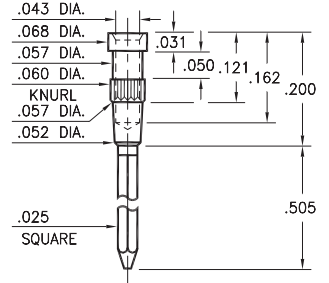
Press-fit in .061 mounting hole



0318

0318-3-05-XX-00-00-01-0

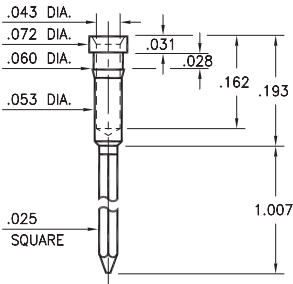
Press-fit in .057 mounting hole



1302

1302-0-05-XX-00-00-01-0

Press-fit in .057 mounting hole

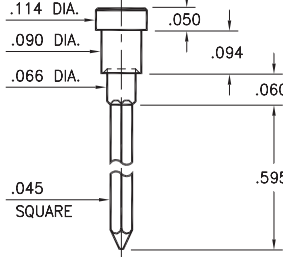


1097

1097-0-05-XX-00-00-01-0

Swage mount in .094 hole

For a .062 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)



MALE PCB PINS

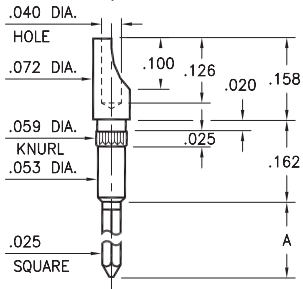
WRAPOST TERMINALS

8301

8301-X-24-XX-00-00-01-0

Press-fit in .057 mounting hole

For wire sizes up to 22 AWG

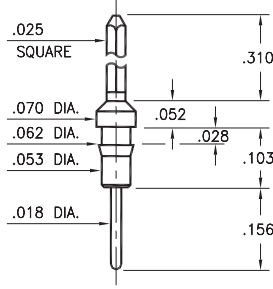


Basic Part Number	# of Wraps	Length A
8301-2	2	.370
8301-3	3	.510

1083

1083-0-05-XX-00-00-01-0

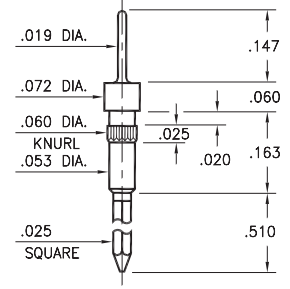
Press-fit in .059 mounting hole



5301

5301-0-05-XX-00-00-01-0

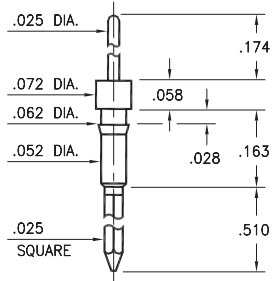
Press-fit in .057 mounting hole



1090

1090-0-05-XX-00-00-01-0

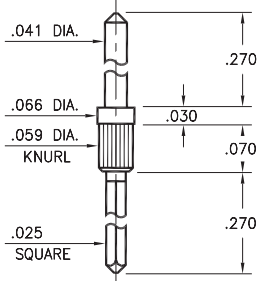
Press-fit in .059 mounting hole



8608

8608-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

BASIC PART # →

→ **SPECIFY PIN FINISH:**

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)



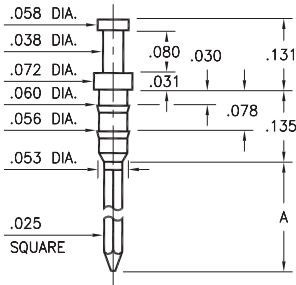
MALE PCB PINS

WRAPOST TERMINALS

1096

1096-X-05-XX-00-00-01-0

Press-fit in .057 mounting hole

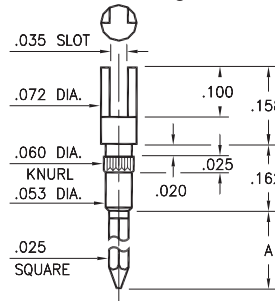


Basic Part Number	# of Wraps	Length A
1096-2	2	.381
1096-3	3	.527

1106

1106-X-23-XX-00-00-01-0

Press-fit in .057 mounting hole

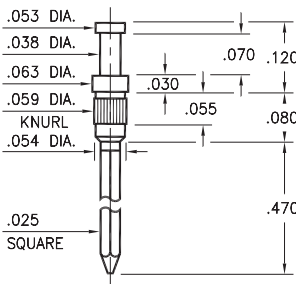


Basic Part Number	# of Wraps	Length A
1106-2	2	.370
1106-3	3	.510

1093

1093-0-05-XX-00-00-01-0

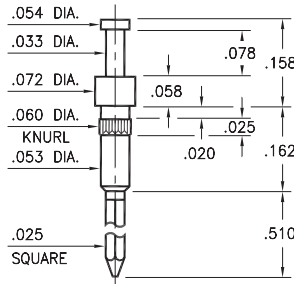
Press-fit in .056 mounting hole



0730

0730-3-05-XX-00-00-01-0

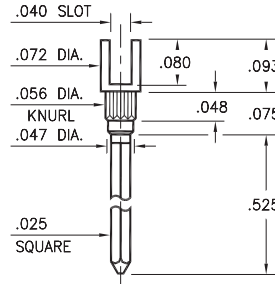
Press-fit in .057 mounting hole



1122

1122-0-22-XX-00-00-01-0

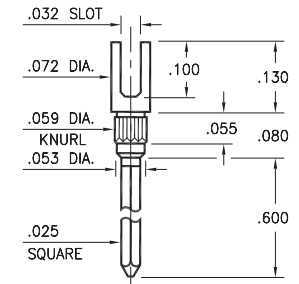
Press-fit in .053 mounting hole



1064

1064-0-23-XX-00-00-01-0

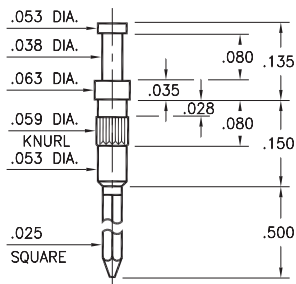
Press-fit in .056 mounting hole



1092

1092-0-05-XX-00-00-01-0

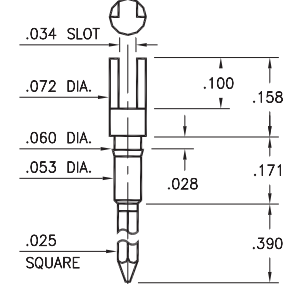
Press-fit in .056 mounting hole



1068

1068-0-23-XX-00-00-01-0

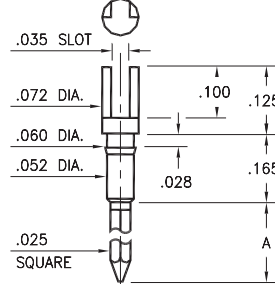
Press-fit in .057 mounting hole



1070 → 1072

107X-X-23-XX-00-00-01-0

Press-fit in .057 mounting hole



Basic Part Number	# of Wraps	Length A
1072-1	1	.260
1071-2	2	.370
1070-3	3	.510

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 15 10 μ" GOLD OVER NICKEL (RoHS)
- ◆ 21 20 μ" GOLD OVER NICKEL (RoHS)



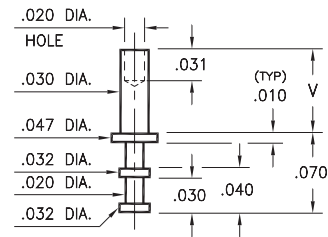
MALE PCB PINS

SOLDER TERMINAL TURRETS

2111

2111-X-00-XX-00-00-07-0

Swage mount in .033 hole

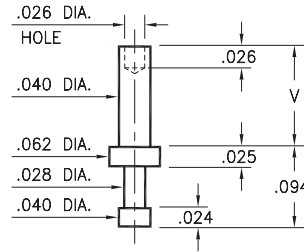


Basic Part Number	Board Thickness	Length V
2111-1	.031	.053
2111-2	.062	.084
2111-3	.094	.115

2113

2113-X-00-XX-00-00-07-0

Swage mount in .043 hole

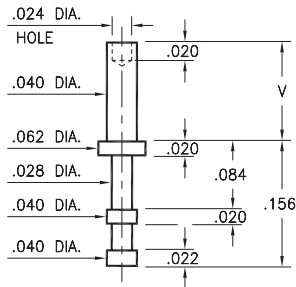


Basic Part Number	Board Thickness	Length V
2113-1	.031	.053
2113-2	.062	.084
2113-3	.094	.115
2113-4	.125	.147

2108

2108-X-00-XX-00-00-07-0

Swage mount in .043 hole

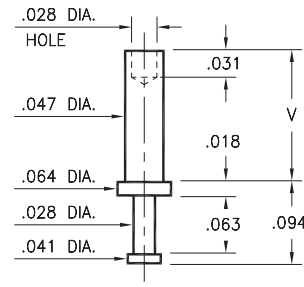


Basic Part Number	Board Thickness	Length V
2108-1	.031	.053
2108-2	.062	.084
2108-3	.094	.115
2108-4	.125	.147

2102

2102-X-00-XX-00-00-07-0

Swage mount in .052 hole

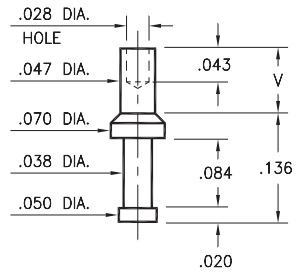


Basic Part Number	Board Thickness	Length V
2102-5	.016	.035
2102-1	.031	.054
2102-2	.062	.084
2102-3	.094	.115
2102-4	.125	.147

2109

2109-X-00-XX-00-00-07-0

Swage mount in .052 hole



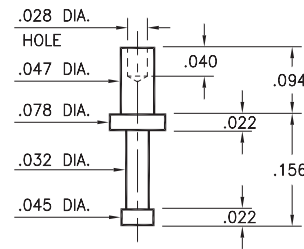
Basic Part Number	Board Thickness	Length V
2109-1	.031	.052
2109-2	.062	.085

2324

2324-2-00-XX-00-00-07-0

Swage mount in .052 hole

For a .062 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



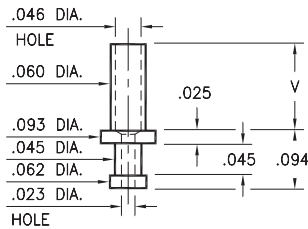
MALE PCB PINS

SOLDER TERMINAL TURRETS

2312

2312-X-00-XX-00-00-07-0

Swage mount in .064 hole

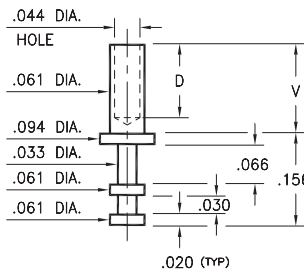


Basic Part Number	Board Thickness	Length V
2312-1	.031	.053
2312-2	.062	.094
2312-3	.094	.115
2312-4	.125	.147

2308

2308-X-00-XX-00-00-07-0

Swage mount in .064 hole

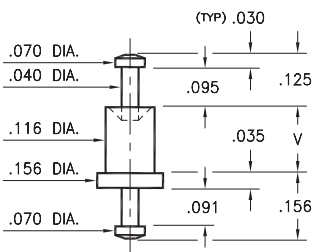


Basic Part Number	Board Thickness	Length V	Depth D
2308-1	.031	.054	.036
2308-2	.062	.084	.066
2308-3	.094	.115	.096
2308-4	.125	.147	.126

2707

2707-X-00-XX-00-00-07-0

Swage mount in .120 hole

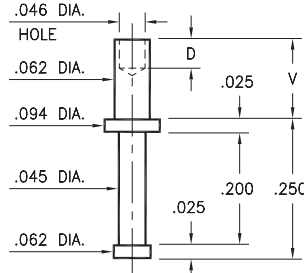


Basic Part Number	Board Thickness	Length V
2707-1	.031	.062
2707-2	.062	.094
2707-3	.094	.125
2707-4	.125	.156

2329

2329-X-00-XX-00-00-07-0

Swage mount in .067 hole

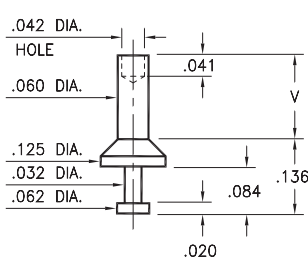


Basic Part Number	Board Thickness	Length V	Depth D
2329-1	.031	.045	.045
2329-2	.062	.094	.062
2329-3	.094	.125	.062
2329-4	.125	.156	.062

2510

2510-X-00-XX-00-00-07-0

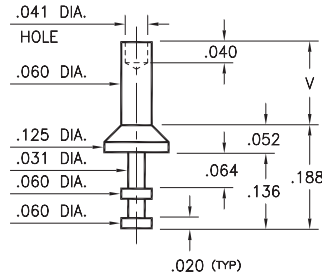
Swage mount in .064 hole



2513

2513-X-00-XX-00-00-07-0

Swage mount in .064 hole



Basic Part Number	Board Thickness	Length V
251X-1	.031	.062
251X-2	.062	.094
251X-3	.094	.125
251X-4	.125	.156

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ " SILVER OVER COPPER (RoHS)
- 50 300 μ " ELECTRO-SOLDER (60/40 SnPb)



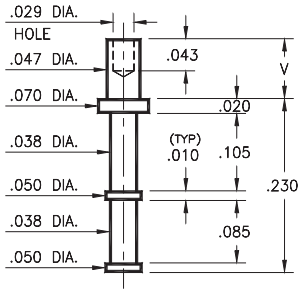
MALE PCB PINS

SOLDER TERMINAL TURRETS

2110

2110-X-00-XX-00-00-07-0

Swage mount in .052 hole

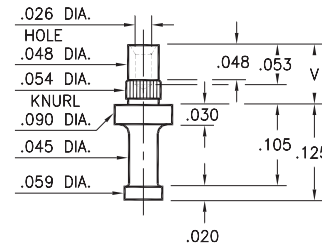


Basic Part Number	Board Thickness	Length V
2110-1	.031	.049
2110-2	.062	.082

2333

2333-X-00-XX-00-00-07-0

Press-fit & swage in .052 mounting hole

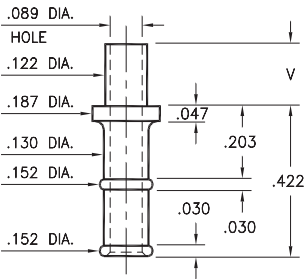


Basic Part Number	Board Thickness	Length V
2333-1	.078	.103
2333-2	.062	.087
2333-3	.047	.072

2821

2821-X-00-XX-00-00-07-0

Swage mount in .125 hole

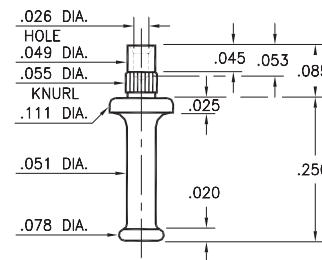


Basic Part Number	Board Thickness	Length V
2821-2	.062	.109
2821-3	.094	.141
2821-4	.125	.172

2533

2533-0-00-XX-00-00-07-0

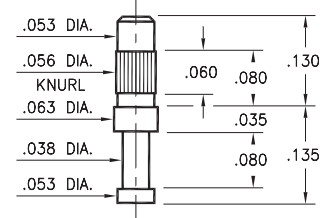
Press-fit & swage in .052 mounting hole
For a .062 thick board



2101

2101-3-00-XX-00-00-07-0

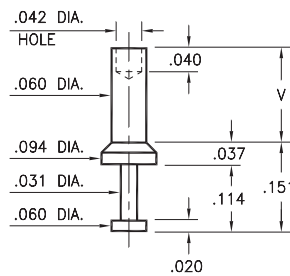
Press-fit in .053 mounting hole
For a .062 to .094 thick board



2316

2316-X-00-XX-00-00-07-0

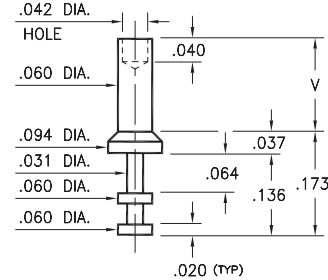
Swage mount in .064 hole



2317

2317-X-00-XX-00-00-07-0

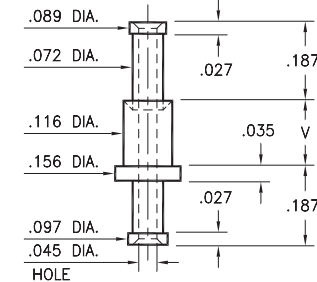
Swage mount in .064 hole



2708

2708-X-00-XX-00-00-07-0

Swage mount in .120 hole



Basic Part Number	Board Thickness	Length V
2XXX-1	.031	.062
2XXX-2	.062	.094
2XXX-3	.094	.125
2XXX-4	.125	.156

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



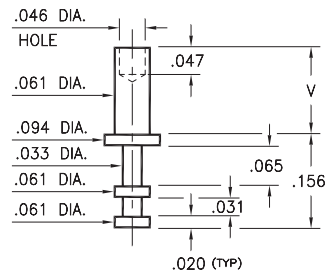
MALE PCB PINS

SOLDER TERMINAL TURRETS

2348

2348-X-00-XX-00-00-07-0

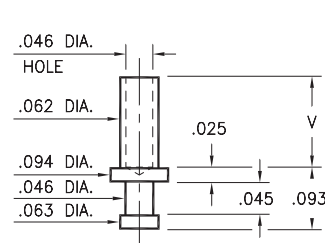
Swage mount in .064 hole



2301

2301-X-00-XX-00-00-07-0

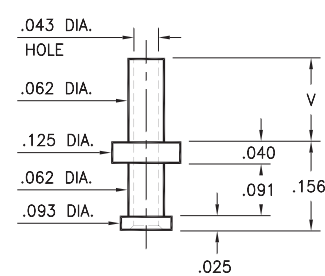
Swage mount in .067 hole



2506

2506-X-00-XX-00-00-07-0

Swage mount in .067 hole

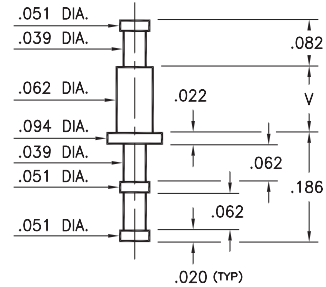


Basic Part Number	Board Thickness	Length V
2XXX-1	.031	.053
2XXX-2	.062	.084
2XXX-3	.094	.115
2XXX-4	.125	.147

2310

2310-X-00-XX-00-00-07-0

Swage mount in .067 hole

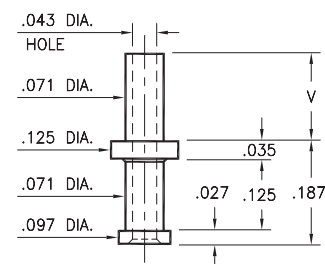


Basic Part Number	Board Thickness	Length V
2310-1	.031	.053
2310-2	.062	.082
2310-3	.094	.113
2310-4	.125	.145

2505

2505-X-00-XX-00-00-07-0

Swage mount in .076 hole

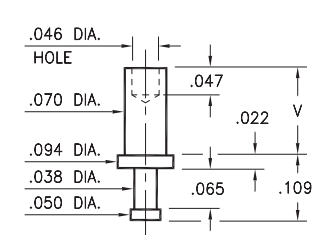


Basic Part Number	Board Thickness	Length V
2505-1	.031	.062
2505-2	.062	.093
2505-3	.094	.125
2505-4	.125	.156

2325

2325-X-00-XX-00-00-07-0

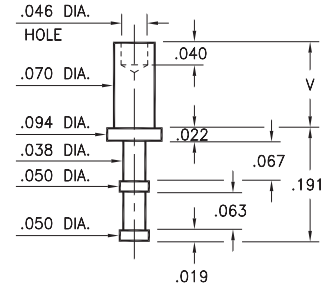
Swage mount in .073 hole



2355

2355-X-00-XX-00-00-07-0

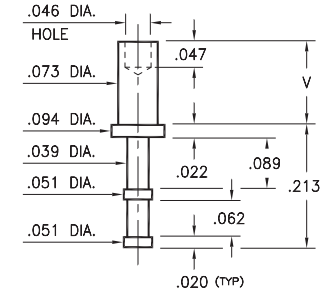
Swage mount in .073 hole



2365

2365-X-00-XX-00-00-07-0

Swage mount in .076 hole



Basic Part Number	Board Thickness	Length V
23X5-1	.031	.053
23X5-2	.062	.084
23X5-3	.094	.115
23X5-4	.125	.147

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



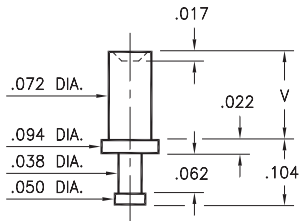
MALE PCB PINS

SOLDER TERMINAL TURRETS

2304

2304-X-00-XX-00-00-07-0

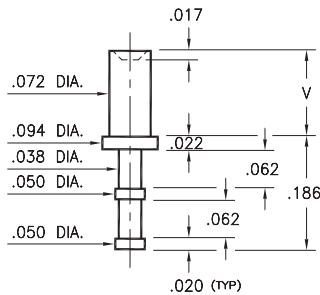
Swage mount in .076 hole



2305

2305-X-00-XX-00-00-07-0

Swage mount in .076 hole

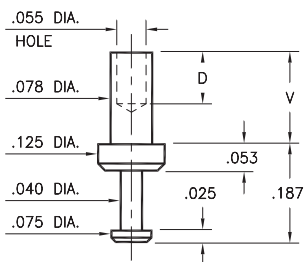


Basic Part Number	Board Thickness	Length V
230X-1	.031	.051
230X-2	.062	.082
230X-3	.094	.113
230X-4	.125	.145

2503

2503-X-00-XX-00-00-07-0

Swage mount in .082 hole

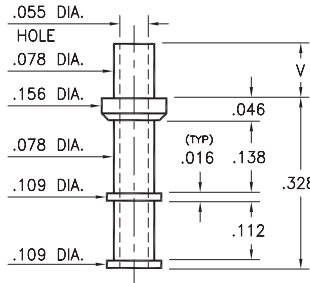


Basic Part Number	Board Thickness	Length V	Depth D
2503-1	.031	.078	.068
2503-2	.062	.109	.098
2503-3	.094	.141	.098
2503-4	.125	.172	.098

2704

2704-X-00-XX-00-00-07-0

Swage mount in .082 hole

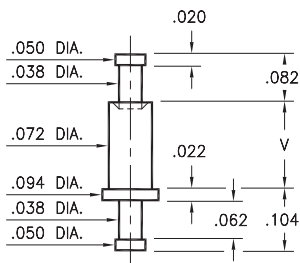


Basic Part Number	Board Thickness	Length V
2704-1	.031	.075
2704-2	.062	.105
2704-3	.094	.135
2704-4	.125	.165

2306

2306-X-00-XX-00-00-07-0

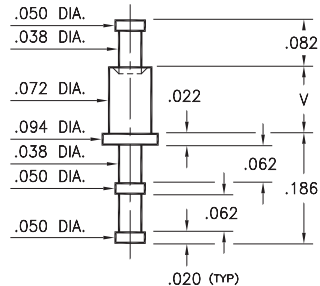
Swage mount in .076 hole



2307

2307-X-00-XX-00-00-07-0

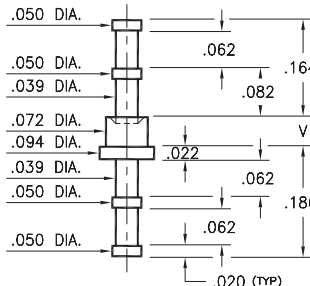
Swage mount in .076 hole



2311

2311-X-00-XX-00-00-07-0

Swage mount in .076 hole



Basic Part Number	Board Thickness	Length V
23XX-1	.031	.051
23XX-2	.062	.082
23XX-3	.094	.113
23XX-4	.125	.145

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



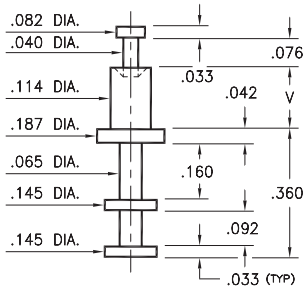
MALE PCB PINS

SOLDER TERMINAL TURRETS

2810

2810-X-00-XX-00-00-07-0

Swage mount in .118 hole

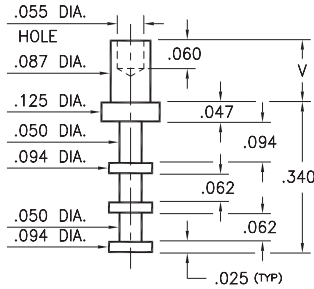


Basic Part Number	Board Thickness	Length V
2810-2	.062	.105
2810-3	.094	.135
2810-4	.125	.165

2524

2524-X-00-XX-00-00-07-0

Swage mount in .092 hole

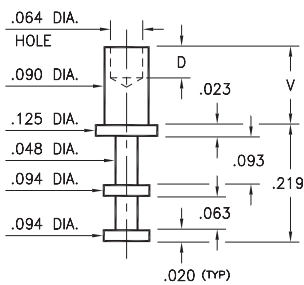


Basic Part Number	Board Thickness	Length V
2524-1	.031	.075
2524-2	.062	.105
2524-3	.094	.135
2524-4	.125	.165

2561

2561-X-00-XX-00-00-07-0

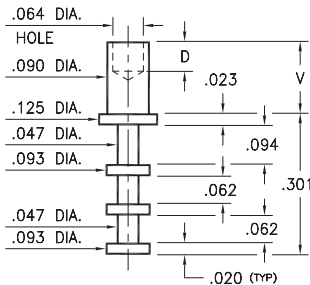
Swage mount in .094 hole



2508

2508-X-00-XX-00-00-07-0

Swage mount in .094 hole

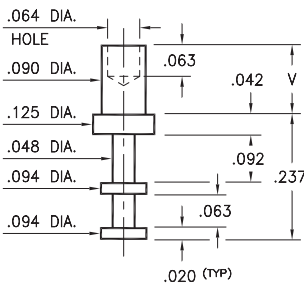


Basic Part Number	Board Thickness	Length V	Depth D
25XX-1	.031	.063	.047
25XX-2	.062	.094	.062
25XX-3	.094	.125	.062
25XX-4	.125	.156	.062

2551

2551-X-00-XX-00-00-07-0

Swage mount in .094 hole

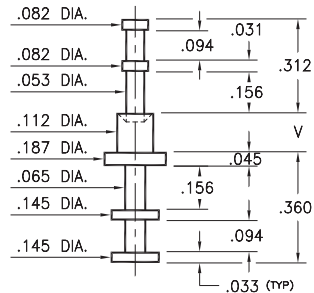


Basic Part Number	Board Thickness	Length V
2551-1	.031	.075
2551-2	.062	.105
2551-3	.094	.135
2551-4	.125	.165

2812

2812-X-00-XX-00-00-07-0

Swage mount in .116 hole



Basic Part Number	Board Thickness	Length V
2812-1	.062	.105
2812-2	.094	.135
2812-3	.125	.165
2812-4	.188	.230

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ " SILVER OVER COPPER (RoHS)
- 50 300 μ " ELECTRO-SOLDER (60/40 SnPb)



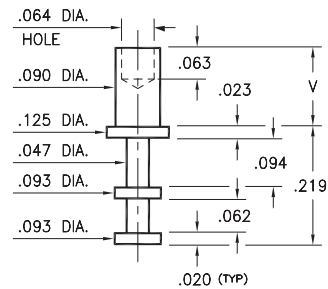
MALE PCB PINS

SOLDER TERMINAL TURRETS

2501

2501-X-00-XX-00-00-07-0

Swage mount in .094 hole

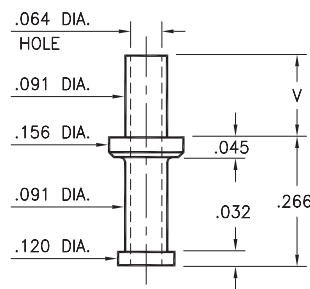


Basic Part Number	Board Thickness	Length V
2501-1	.031	.078
2501-2	.062	.109
2501-3	.094	.140
2501-4	.125	.171

2703

2703-X-00-XX-00-00-07-0

Swage mount in .094 hole

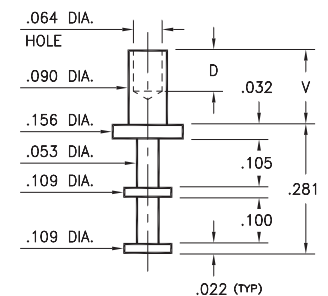


Basic Part Number	Board Thickness	Length V
2703-1	.031	.077
2703-2	.062	.107
2703-3	.094	.137
2703-4	.125	.167

2702

2702-X-00-XX-00-00-07-0

Swage mount in .094 hole

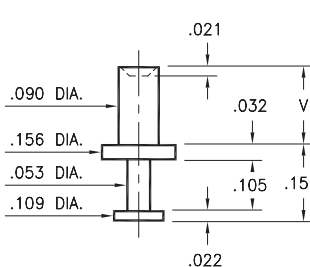


Basic Part Number	Board Thickness	Length V	Depth D
2702-1	.031	.075	.063
2702-2	.062	.105	.093
2702-3	.094	.135	.093
2702-4	.125	.165	.093

2710

2710-X-00-XX-00-00-07-0

Swage mount in .094 hole

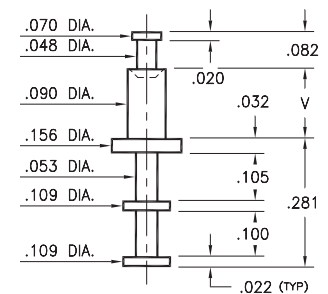


Basic Part Number	Board Thickness	Length V
2710-1	.031	.062
2710-2	.062	.094
2710-3	.094	.125
2710-4	.125	.156

2717

2717-X-00-XX-00-00-07-0

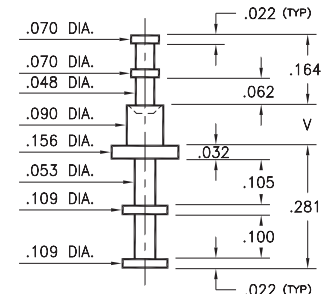
Swage mount in .094 hole



2713

2713-X-00-XX-00-00-07-0

Swage mount in .094 hole



Basic Part Number	Board Thickness	Length V
271X-1	.031	.062
271X-2	.062	.094
271X-3	.094	.125
271X-4	.125	.156

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



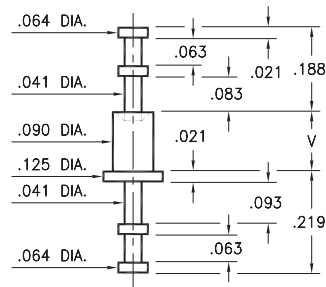
MALE PCB PINS

SOLDER TERMINAL TURRETS

2512

2512-X-00-XX-00-00-07-0

Swage mount in .094 hole

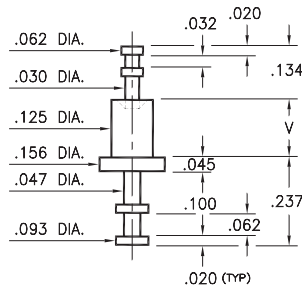


Basic Part Number	Board Thickness	Length V
2512-1	.031	.062
2512-2	.062	.094
2512-3	.094	.125
2512-4	.125	.156

2705

2705-X-00-XX-00-00-07-0

Swage mount in .129 hole

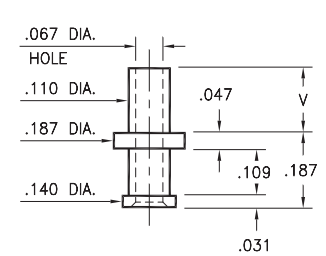


Basic Part Number	Board Thickness	Length V
2705-1	.031	.075
2705-2	.062	.105
2705-3	.094	.135
2705-4	.125	.165

2803

2803-X-00-XX-00-00-07-0

Swage mount in .113 hole

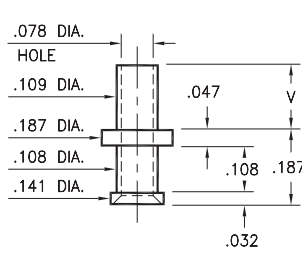


Basic Part Number	Board Thickness	Length V
2803-1	.031	.078
2803-2	.062	.109
2803-3	.094	.140
2803-4	.125	.171

2815

2815-X-00-XX-00-00-07-0

Swage mount in .113 hole

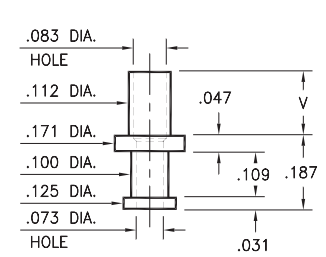


Basic Part Number	Board Thickness	Length V
2815-1	.031	.075
2815-2	.062	.105
2815-3	.094	.135
2815-4	.125	.165

2816

2816-X-00-XX-00-00-07-0

Swage mount in .116 hole

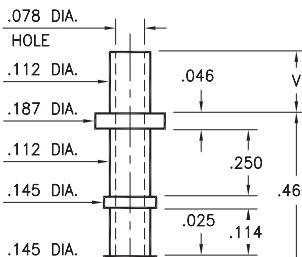


Basic Part Number	Board Thickness	Length V
2816-1	.031	.078
2816-2	.062	.109
2816-3	.094	.141
2816-4	.125	.172

2817

2817-X-00-XX-00-00-07-0

Swage mount in .116 hole



Basic Part Number	Board Thickness	Length V
2817-1	.031	.075
2817-2	.062	.105
2817-3	.094	.135
2817-4	.125	.165

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ " SILVER OVER COPPER (RoHS)
- 50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



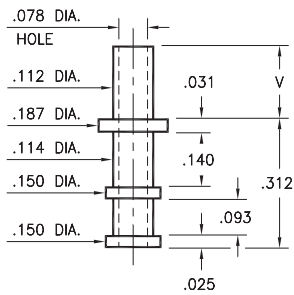
MALE PCB PINS

SOLDER TERMINAL TURRETS

2802

2802-X-00-XX-00-00-07-0

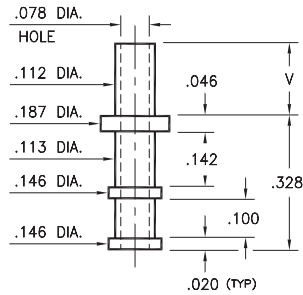
Swage mount in .118 hole



2804

2804-X-00-XX-00-00-07-0

Swage mount in .118 hole

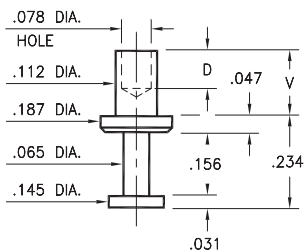


Basic Part Number	Board Thickness	Length V
280X-1	.031	.078
280X-2	.062	.109
280X-3	.094	.140
280X-4	.125	.171

2805

2805-X-00-XX-00-00-07-0

Swage mount in .116 hole

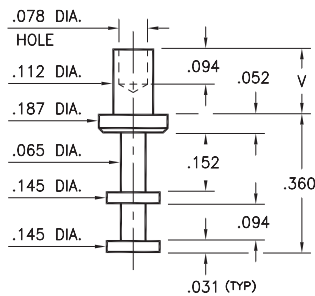


Basic Part Number	Board Thickness	Length V	Depth D
2805-1	.031	.074	.068
2805-2	.062	.105	.098
2805-3	.094	.135	.098
2805-4	.125	.165	.098

2801

2801-X-00-XX-00-00-07-0

Swage mount in .116 hole

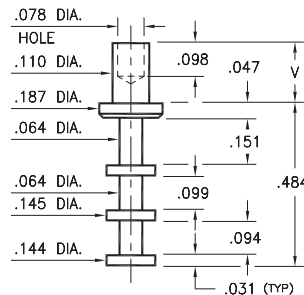


Basic Part Number	Board Thickness	Length V
2801-1	.031	.078
2801-2	.062	.109
2801-3	.094	.141
2801-4	.125	.172
2801-5	.188	.234

2806

2806-X-00-XX-00-00-07-0

Swage mount in .116 hole

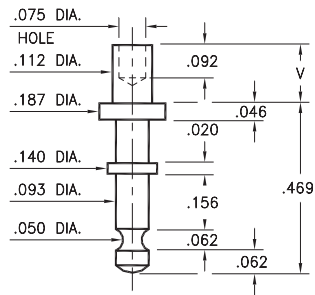


Basic Part Number	Board Thickness	Length V
2806-1	.031	.078
2806-2	.062	.109
2806-3	.094	.141
2806-4	.125	.172

2811

2811-X-00-XX-00-00-07-0

Swage mount in .116 hole



Basic Part Number	Board Thickness	Length V
2811-1	.031	.075
2811-2	.062	.105
2811-3	.094	.135
2811-4	.125	.165

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



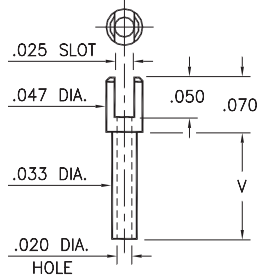
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2104

2104-X-01-XX-00-00-07-0

Swage mount in .036 hole

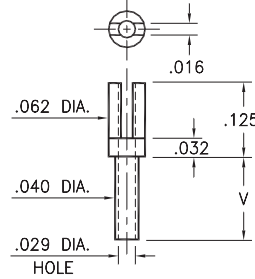


Basic Part Number	Board Thickness	Length V
2104-1	.031	.055
2104-2	.062	.086
2104-3	.094	.117
2104-4	.125	.148

2112

2112-X-01-XX-00-00-07-0

Swage mount in .043 hole

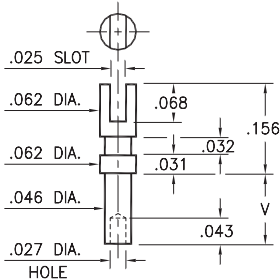


Basic Part Number	Board Thickness	Length V
2112-5	.016	.037
2112-1	.031	.053
2112-2	.062	.084
2112-3	.094	.115
2112-4	.125	.147

2105

2105-X-01-XX-00-00-07-0

Swage mount in .052 hole

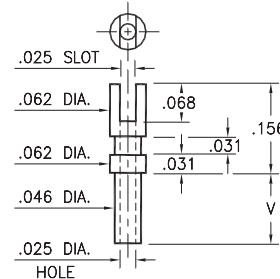


Basic Part Number	Board Thickness	Length V
2105-1	.031	.055
2105-2	.062	.086
2105-3	.094	.117
2105-4	.125	.149

2103

2103-X-01-XX-00-00-07-0

Swage mount in .052 hole

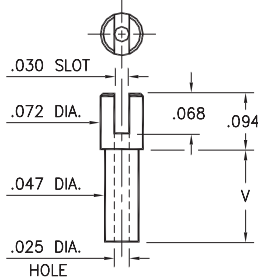


Basic Part Number	Board Thickness	Length V
2103-1	.031	.055
2103-2	.062	.086
2103-3	.094	.117
2103-4	.125	.149

2106

2106-X-01-XX-00-00-07-0

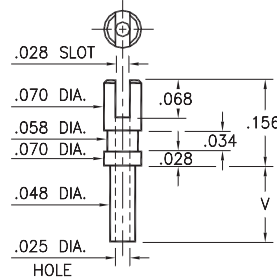
Swage mount in .052 hole



2107

2107-X-01-XX-00-00-07-0

Swage mount in .052 hole



Basic Part Number	Board Thickness	Length V
210X-1	.031	.051
210X-2	.062	.082
210X-3	.094	.113
210X-4	.125	.145

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ±2°



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



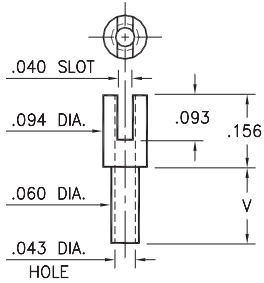
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2303

2303-X-01-XX-00-00-07-0

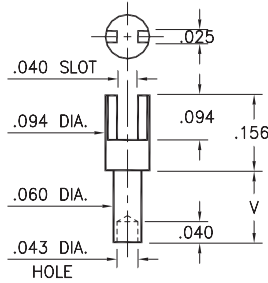
Swage mount in .064 hole



2323

2323-X-01-XX-00-00-07-0

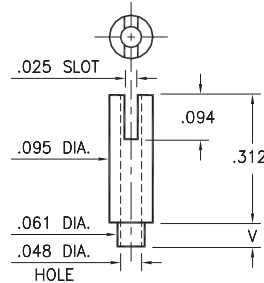
Swage mount in .064 hole



2322

2322-X-01-XX-00-00-07-0

Swage mount in .064 hole

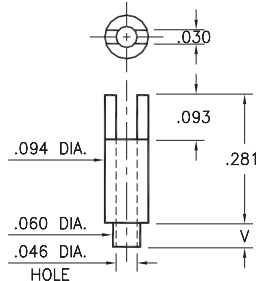


Basic Part Number	Board Thickness	Length V
23XX-1	.031	.053
23XX-2	.062	.084
23XX-3	.094	.115
23XX-4	.125	.147

2320

2320-X-01-XX-00-00-07-0

Swage mount in .064 hole

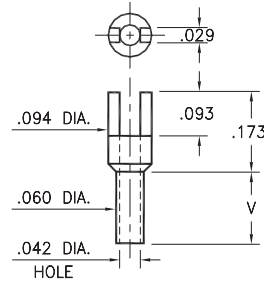


Basic Part Number	Board Thickness	Length V
2320-1	.031	.053
2320-2	.062	.084
2320-3	.094	.115

2328

2328-X-01-XX-00-00-07-0

Swage mount in .064 hole

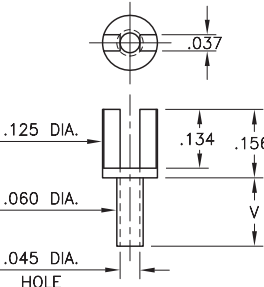


Basic Part Number	Board Thickness	Length V
2328-1	.031	.062
2328-2	.062	.094
2328-3	.094	.125
2328-4	.125	.156

2520

2520-X-01-XX-00-00-07-0

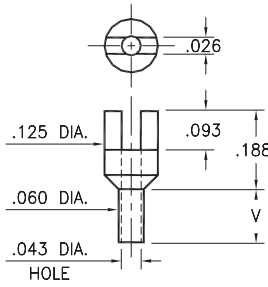
Swage mount in .064 hole



2517

2517-X-01-XX-00-00-07-0

Swage mount in .064 hole



Basic Part Number	Board Thickness	Length V
25XX-1	.031	.062
25XX-2	.062	.094
25XX-3	.094	.125
25XX-4	.125	.156

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

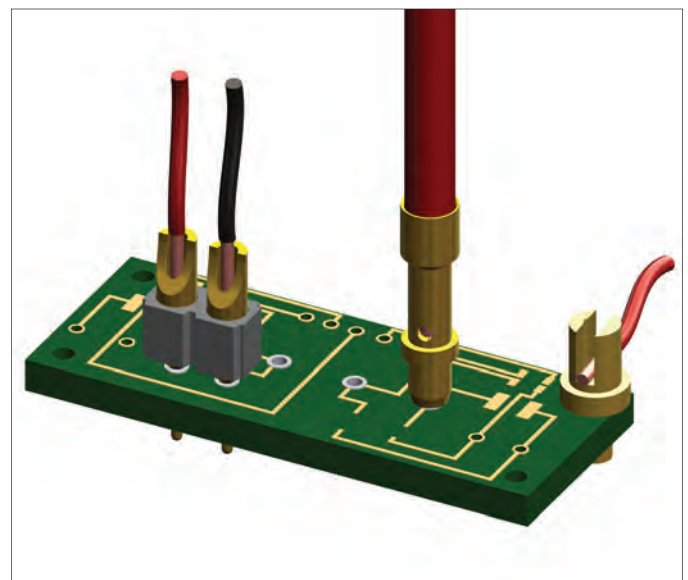
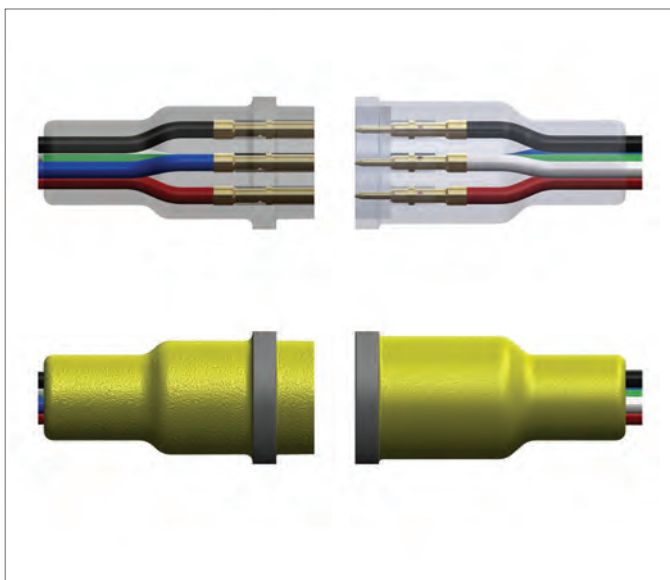
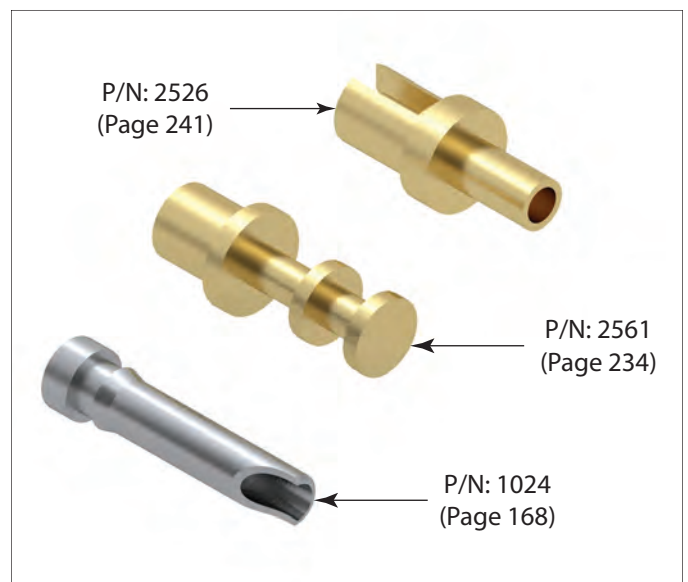
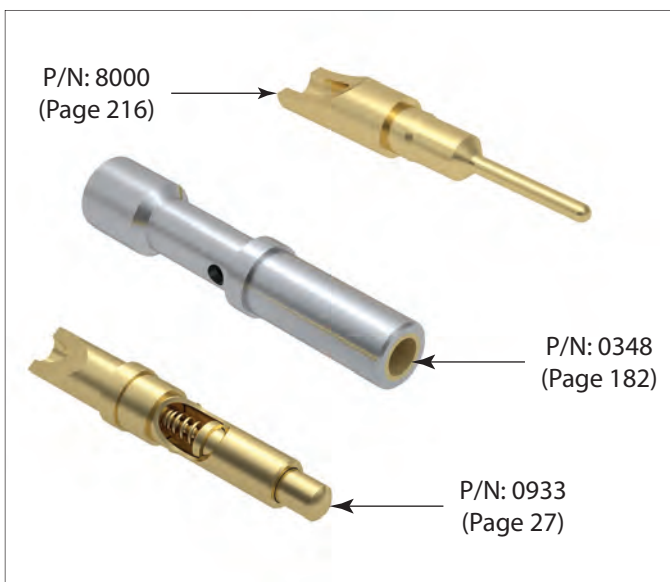
- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ " SILVER OVER COPPER (RoHS)
- 50 300 μ " ELECTRO-SOLDER (60/40 SnPb)



WIRE TERMINATION

LOOSE PINS, RECEPTACLES AND SPRING PINS

Mill-Max manufactures many different types of pins and receptacles for terminating wires. There are solder cup and crimp barrel styles for terminating discrete wires to boards, making up cable assemblies or converting device wires to pluggable pins. We have slotted and turret styles for connecting power and ground wires or for test and jumper applications. Wrapost termination styles are also available for prototyping and test. Along with our wide selection of standard products, custom designs are available by contacting Mill-Max Technical Services.



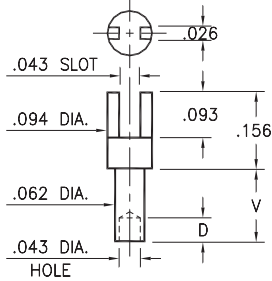
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2315

2315-X-01-XX-00-00-07-0

Swage mount in .067 hole

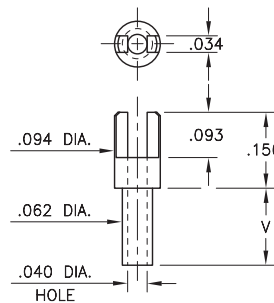


Basic Part Number	Board Thickness	Length V	Depth D
2315-1	.031	.045	.040
2315-2	.062	.094	.062
2315-3	.094	.125	.062
2315-4	.125	.156	.062

2302

2302-X-01-XX-00-00-07-0

Swage mount in .067 hole

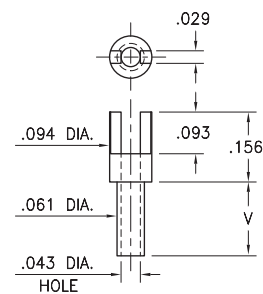


Basic Part Number	Board Thickness	Length V
2302-1	.031	.053
2302-2	.062	.084
2302-3	.094	.115
2302-4	.125	.147

2352

2352-X-01-XX-00-00-07-0

Swage mount in .067 hole

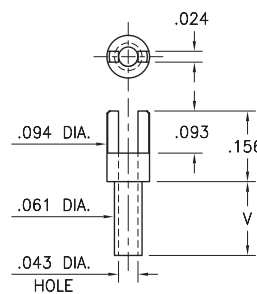


Basic Part Number	Board Thickness	Length V
2352-1	.031	.045
2352-2	.062	.094
2352-3	.094	.125
2352-4	.125	.156

2362

2362-X-01-XX-00-00-07-0

Swage mount in .067 hole

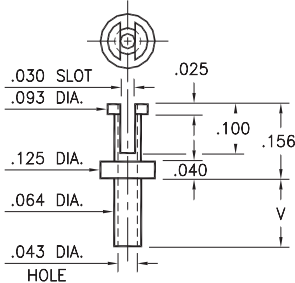


Basic Part Number	Board Thickness	Length V
2362-5	.016	.037
2362-1	.031	.053
2362-2	.062	.084
2362-3	.094	.115
2362-4	.125	.147

2507

2507-X-01-XX-00-00-07-0

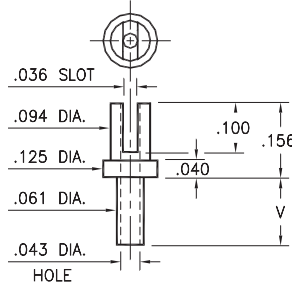
Swage mount in .067 hole



2526

2526-X-01-XX-00-00-07-0

Swage mount in .064 hole



Basic Part Number	Board Thickness	Length V
25XX-1	.031	.053
25XX-2	.062	.084
25XX-3	.094	.115
25XX-4	.125	.147

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ " SILVER OVER COPPER (RoHS)
- 50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



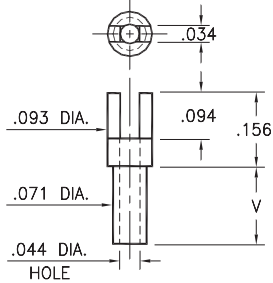
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2314

2314-X-01-XX-00-00-07-0

Swage mount in .076 hole

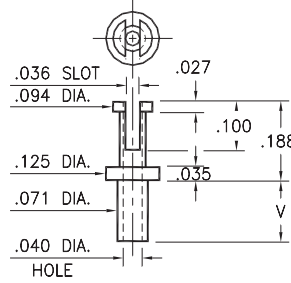


Basic Part Number	Board Thickness	Length V
2314-1	.031	.045
2314-2	.062	.094
2314-3	.094	.125
2314-4	.125	.156

2511

2511-X-01-XX-00-00-07-0

Swage mount in .076 hole

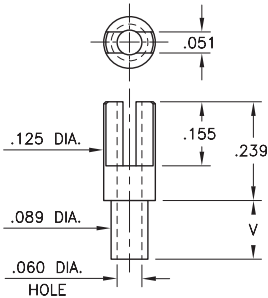


Basic Part Number	Board Thickness	Length V
2511-1	.031	.063
2511-2	.062	.094
2511-3	.094	.125
2511-4	.125	.156

2515

2515-X-01-XX-00-00-07-0

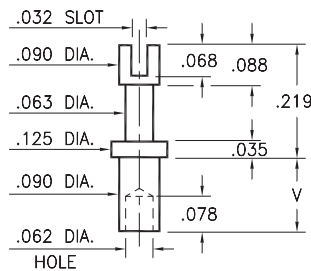
Swage mount in .094 hole



2516

2516-X-01-XX-00-00-07-0

Swage mount in .094 hole

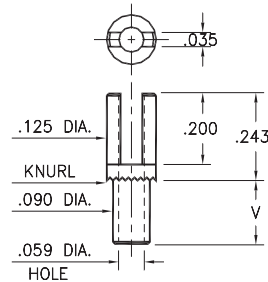


Basic Part Number	Board Thickness	Length V
251X-1	.031	.075
251X-2	.062	.105
251X-3	.094	.135
251X-4	.125	.147

2502

2502-X-01-XX-00-00-07-0

Swage mount in .094 hole



Basic Part Number	Board Thickness	Length V
2502-1	.031	.080
2502-2	.062	.111
2502-3	.094	.143
2502-4	.125	.174

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



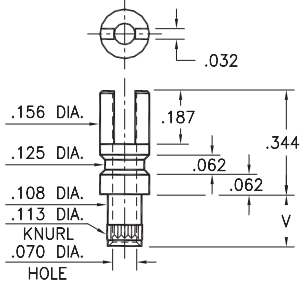
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2715

2715-X-01-XX-00-00-07-0

Swage mount in .116 hole

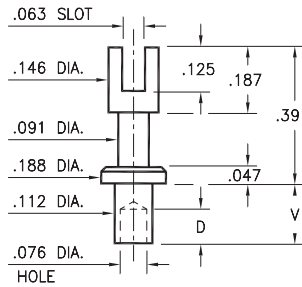


Basic Part Number	Board Thickness	Length V
2715-2	.062	.109
2715-3	.094	.141
2715-4	.125	.172

2809

2809-X-01-XX-00-00-07-0

Swage mount in .116 hole

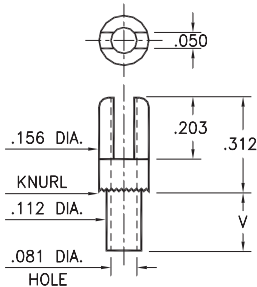


Basic Part Number	Board Thickness	Length V	Depth D
2809-1	.031	.078	.068
2809-2	.062	.109	.098
2809-3	.094	.141	.098
2809-4	.125	.172	.098

2701

2701-X-01-XX-00-00-07-0

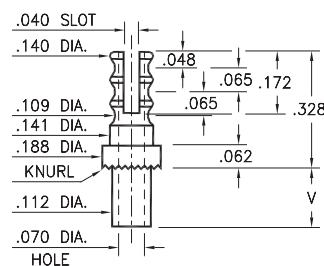
Swage mount in .116 hole



2808

2808-X-01-XX-00-00-07-0

Swage mount in .116 hole

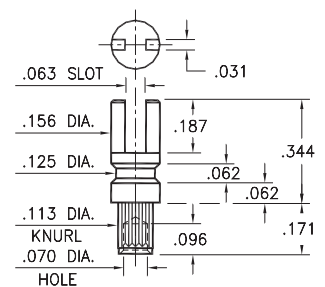


Basic Part Number	Board Thickness	Length V
2XXX-1	.031	.075
2XXX-2	.062	.105
2XXX-3	.094	.135
2XXX-4	.125	.165

2762

2762-4-01-XX-00-00-07-0

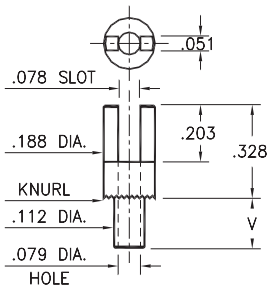
Swage mount in .116 hole
For a .125 thick board



2807

2807-X-01-XX-00-00-07-0

Swage mount in .116 hole

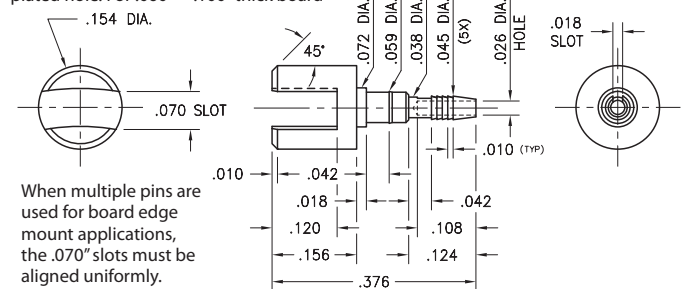


Basic Part Number	Board Thickness	Length V
2807-1	.031	.078
2807-2	.062	.109
2807-3	.094	.140
2807-4	.125	.171

3622

3622-0-32-15-00-00-03-0

Slotted compliant tail press-fit in .040 ± .003 plated hole. For .060" → .100" thick board



When multiple pins are used for board edge mount applications, the .070" slots must be aligned uniformly.

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ± .005
Diameters: ± .002
Angles: ± 2°



ORDER CODE: **XXXX - X - XX - XX - 00 - 00 - 07 - 0**

BASIC PART #

SPECIFY PIN FINISH:

Part #3622 plating ONLY

- 01 200 μ" TIN/LEAD OVER NICKEL
- 15 10 μ" GOLD OVER NICKEL (RoHS)
- 80 200 μ" TIN OVER NICKEL (RoHS)
- 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



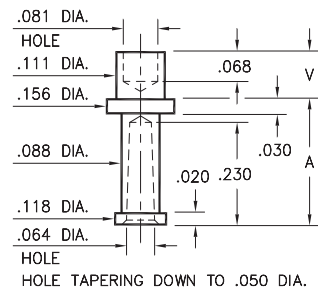
MALE PCB PINS

SOLDER TERMINALS VARIOUS TYPES

2709

2709-X-07-XX-00-00-07-0

Swage mount in .116 hole

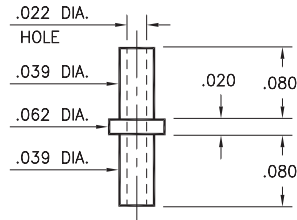


Basic Part Number	Board Thickness	Length V	Length A
2709-2	.062	.109	.281
2709-3	.094	.141	.250

2115

2115-2-00-XX-00-00-07-0

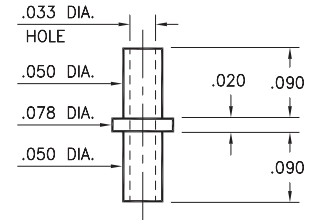
Swage mount in .043 hole
For a .062 thick board



2326

2326-2-00-XX-00-00-07-0

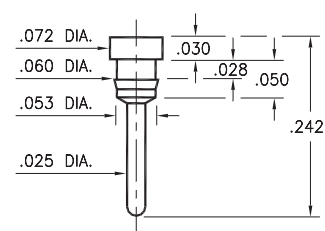
Swage mount in .055 hole
For a .062 thick board



8831

8831-0-00-XX-00-00-03-0

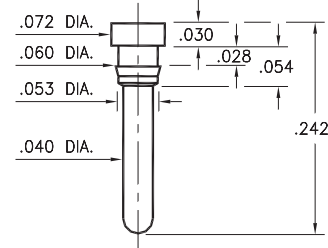
Press-fit in .057 mounting hole



8835

8835-0-00-XX-00-00-03-0

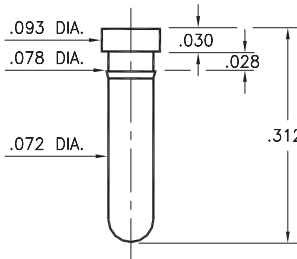
Press-fit in .057 mounting hole



8836

8836-0-00-XX-00-00-03-0

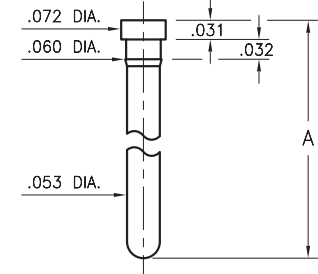
Press-fit in .075 mounting hole



0912/7912

0912-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

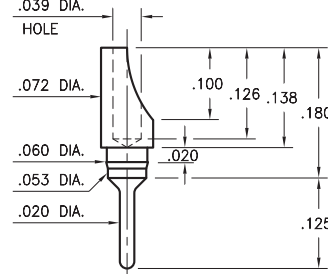


Basic Part Number	Pin Length A
0912-0	.313
7912-0	.510

3080

3080-0-01-XX-00-00-03-0

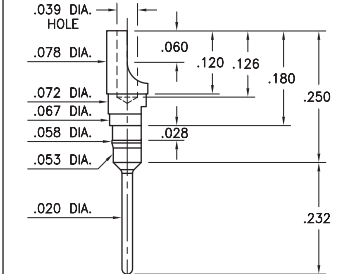
Press-fit in .057 mounting hole
For wire sizes up to 22 AWG



3180

3180-2-01-XX-00-00-03-0

Press-fit in .055 mounting hole
For wire sizes up to 22 AWG



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: ±.005
Diameters: ±.002
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ" TIN/LEAD OVER NICKEL
- ◆ 80 200 μ" TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ" SILVER OVER COPPER (RoHS)
- 50 300 μ" ELECTRO-SOLDER (60/40 SnPb)



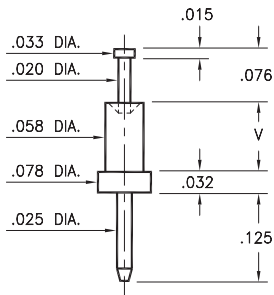
MALE PCB PINS

SOLDER TERMINALS PIN TYPE

2318

2318-X-00-XX-00-00-07-0

Swage mount in .062 hole

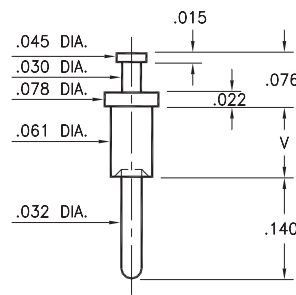


Basic Part Number	Board Thickness	Length V
2318-1	.031	.051
2318-2	.062	.082
2318-3	.094	.113

2309

2309-X-00-XX-00-00-07-0

Swage mount in .064 hole

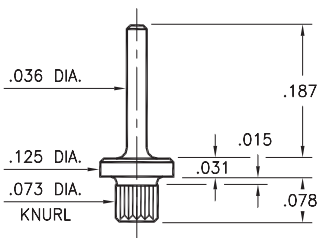


Basic Part Number	Board Thickness	Length V
2309-1	.031	.054
2309-2	.062	.084
2309-3	.094	.115
2309-4	.125	.147

2514

2514-2-00-XX-00-00-07-0

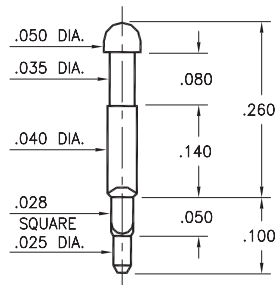
Press-fit in .070 mounting hole



8602

8602-1-00-XX-00-00-07-0

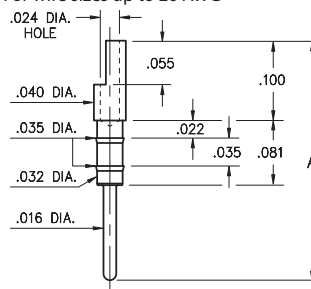
Square press-fit in .032 plated through-hole



3050

3050-X-01-XX-00-00-03-0

Press-fit in .032 mounting hole
For wire sizes up to 26 AWG



Basic Part Number	Pin Length A
3050-0	.303
3050-3	.376

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ " SILVER OVER COPPER (RoHS)
- 50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



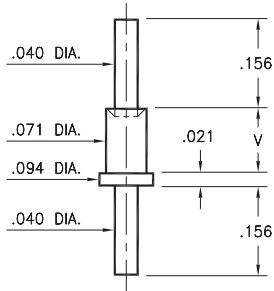
MALE PCB PINS

SOLDER TERMINALS PIN TYPE

2319

2319-X-00-XX-00-00-07-0

Swage mount in .076 hole

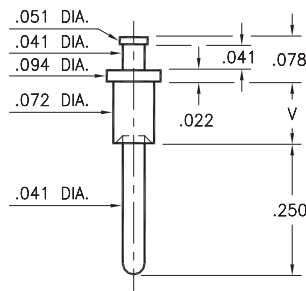


Basic Part Number	Board Thickness	Length V
2319-1	.031	.051
2319-2	.062	.082
2319-3	.094	.113

2313

2313-X-00-XX-00-00-07-0

Swage mount in .076 hole

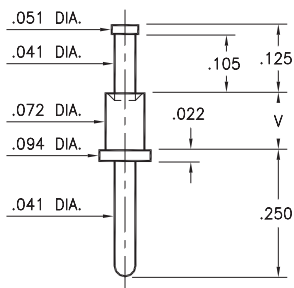


Basic Part Number	Board Thickness	Length V
2313-1	.031	.051
2313-2	.062	.084
2313-3	.094	.113
2313-4	.125	.145

2321

2321-X-00-XX-00-00-07-0

Swage mount in .076 hole

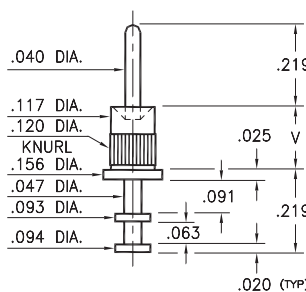


Basic Part Number	Board Thickness	Length V
2321-1	.031	.051
2321-2	.062	.082
2321-3	.094	.113
2321-4	.125	.145

2706

2706-X-00-XX-00-00-07-0

Swage mount in .120 hole

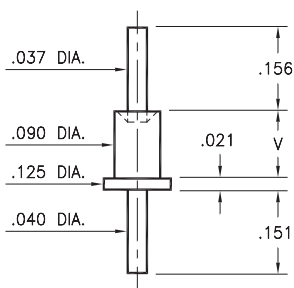


Basic Part Number	Board Thickness	Length V
2706-1	.031	.063
2706-2	.062	.093
2706-3	.094	.125
2706-4	.125	.156

2530

2530-X-00-XX-00-00-07-0

Swage mount in .094 hole

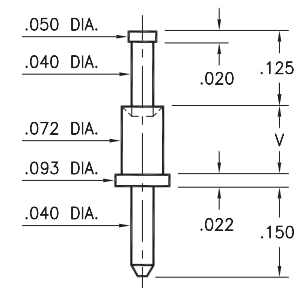


Basic Part Number	Board Thickness	Length V
2530-2	.062	.094
2530-3	.094	.125
2530-4	.125	.156

3156

3156-X-00-XX-00-00-08-0

Swage mount in .076 hole



Basic Part Number	Board Thickness	Length V
3156-1	.031	.051
3156-2	.062	.082
3156-3	.094	.113
3156-4	.125	.145

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Inches

Tolerances On: Lengths: $\pm .005$
Diameters: $\pm .002$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◆ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◆ 44 300 μ " SILVER OVER COPPER (RoHS)
- 50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



CUSTOM PRODUCT WORKSHEET

PHOTOCOPY THIS PAGE AND FAX, SCAN OR E-MAIL TO MILL-MAX FOR A PROMPT QUOTATION

Mill-Max Mfg. Corp., P.O. Box 300, 190 Pine Hollow Road, Oyster Bay, NY 11771-0300 www.mill-max.com

NAME: _____ TITLE: _____
 COMPANY: _____ DATE: _____
 ADDRESS: _____ PHONE: _____
 _____ EMAIL: _____

QUANTITIES TO QUOTE: _____

SPECIFICATIONS OF MACHINED PINS, TERMINALS, RECEPTACLE SHELLS, INSULATORS, etc.

SIMILAR MILL-MAX PART #: _____

PIN MATERIAL: BRASS
 PHOSPHOR BRONZE
 TELLURIUM COPPER
 INSULATOR MATERIAL: FR-4 EPOXY
 HIGH TEMP. THERMOPLASTIC

(Check available stock sizes on page 263)

PIN FINISH: TIN over NICKEL
 TIN/LEAD over NICKEL
 _____ μ" GOLD over NICKEL
 SILVER over COPPER
 OTHER: _____

STANDARD MACHINING TOLERANCES ARE ± .002" FOR DIAMETERS, ± .005" FOR LENGTHS. IF TIGHTER TOLERANCES ARE REQUIRED, PLEASE SPECIFY CRITICAL DIMENSIONS ON SKETCH BELOW.

ADDITIONAL SPECIFICATIONS FOR RECEPTACLE ONLY:

SIZE OF MATING PIN OR COMPONENT LEAD: _____
 (round/square/rectangular)

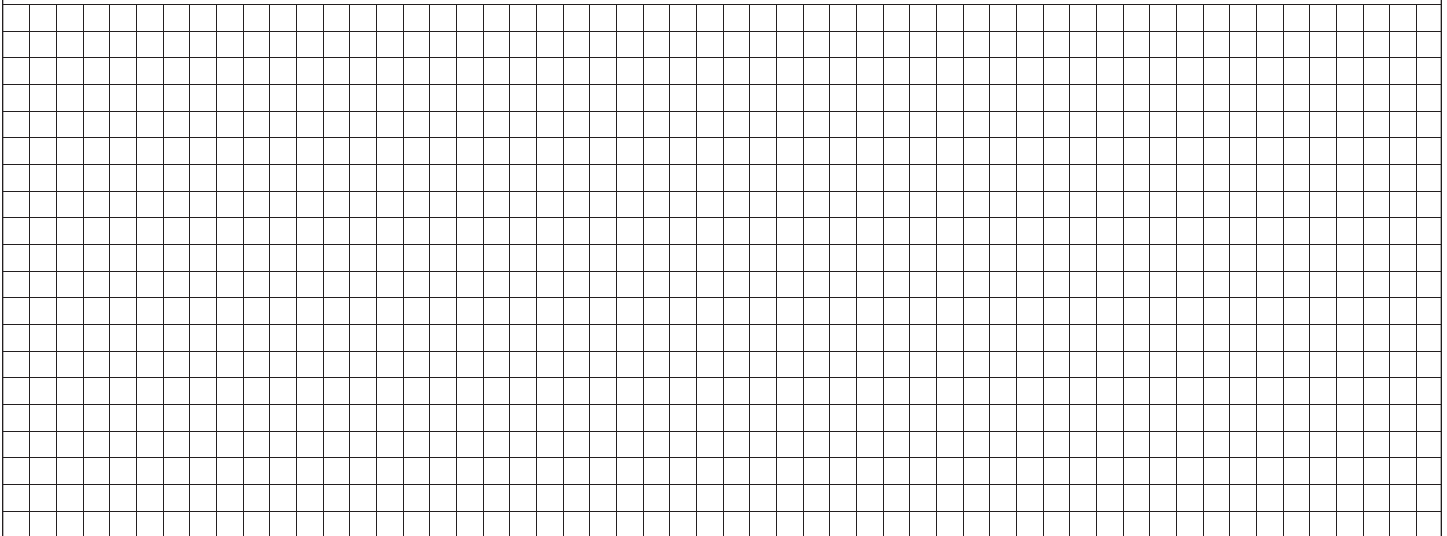
LENGTH OF MATING PIN/LEAD: _____

USE MILL-MAX CONTACT TYPE#: _____
 (See page 248 for selector chart)

REQUIRED INSERTION/EXTRACTION FORCES: LOW MEDIUM HIGH

CONTACT FINISH: TIN over NICKEL
 _____ μ" GOLD over NICKEL
 OTHER: _____

ARE THERE ANY UNUSUAL REQUIREMENTS SUCH AS HIGH OPERATING TEMPERATURE OR CURRENT RATING? _____



IF YOU NEED ASSISTANCE, PLEASE CALL MILL-MAX AND ASK FOR AN APPLICATIONS ENGINEER



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

GENERAL CONTACT INFO

THE "MULTI-FINGER" CONTACT

Mill-Max makes pin receptacles by press-fitting a "multi-finger" spring contact into a machined shell. A selection of over 39 contact types are pre-tooled for those who wish to design custom receptacles. This extensive family of contacts will accept round pins ranging from .008" to .102" diameter, as well as rectangular component leads and square wraposts, where the effective diameter is taken as the diagonal dimension of the lead.

Many contacts are interchangeable within a given shell, and so the contact selector chart has been organized by alternate contact groupings. Standard receptacles found in this catalog can be easily assembled with alternate contacts to suit special applications, for example: low insertion force or high operating temperature.

Contact Groups	Contact Type	Accepts Minimum Pin Diameter	Accepts Maximum Pin Diameter	Contact Compliancy δ	Contact Length	Number of Fingers	Contact Material	Current Rating (For 10°C ΔT)
No Alternate	#04	.008	.013	.003	.053	3	BeCu	2A
No Alternate	#10	.012	.017	.002	.060	6		
A	#09	.015	.018	.002	.051	3	BeCu	3A
	#11		.020	.003	.075			
	#21		.022	.004		.062		
	#31	.018	.023		.075			
	#05	.015	.022	.003		3		
#25	.020		.003	.062	4	BeCu		
B	#12	.015	.022	.003	4		BeCu	
	#22		.005	.062	6			
C	#30	.015	.025	.005	.083	4	BeNi	
	#38			.004				
	#32		.026	.009	6	BeCu		
	#35			.008				
#43		.008						
K	#15	.020	.032	.005	.084	4	BeNi	
	#19			.003				
D	#06	.022	.034	.007	.113	4	BeCu	
	#26			.005				
	#16	.025	.037	.006	.083	6	BeCu	
	#47			.011				
#56		.009						
L	#18	.037	.043	.004	.062	4	BeCu	
	#58			.003				
E	#36	.022	.042	.022	.120	4	BeCu	
	#34			.010				
	#49	.032	.046	.006	.125	6	BeNi	
	#24			.009				
F	#02	.040	.050	.006	.088	6	BeCu	
	#28			.005				
J	#42	.059	.063	.004	.150	4	BeCu	
	#03			.010				
G	#23	.045	.065	.008	.100	6	BeCu	
	#13			.048				.064
	#33	.008	.127		BeNi			
H	#07	.065	.082	.013	.150	4	BeCu	
	#27			.012				
	#14			.014				
No Alternate	#08	.084	.102	.011	.122	6	BeCu	18A

GENERAL CONTACT INFO

CONTACT SPECIFICATIONS

The Mill-Max “multi-finger” contact exhibits wide conformity, eg. the ability of any single contact to accept a broad range of round pins as well as rectangular or square leads.

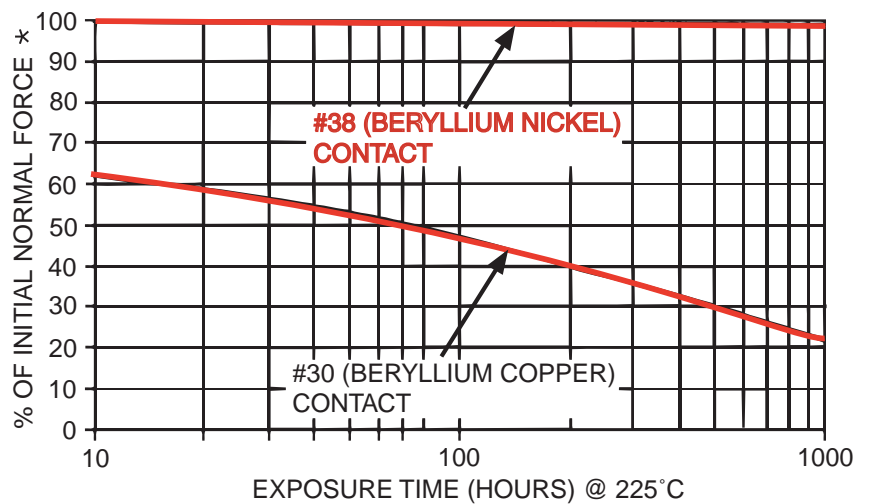
The insertion/extraction force characteristics that follow were derived using 30 μ ” gold-plated contacts and bullet-shaped polished steel, gauge pins. The curves represent typical average values. The charts only guide you in selecting a clip that is close to your specification. Your results may vary, so for your specification, **visit www.mill-max.com to obtain complimentary samples of a receptacle assembly for your evaluation.**

COMPLIANCY (δ)

The compliancy factor (δ) describes the re-configured operating range after inserting the largest permissible mating pin. For example: the # 34 contact has an initial operating range from .032” to .046” diameter pins. After insertion of a .046” pin, the contact is sized, and the minimum pin acceptance becomes .046” - .010” = .036”. Thus, the new operating range becomes .036” to .046”.

CONTACT MATERIAL AND STRESS RELAXATION AT HIGH TEMPERATURE

Mill-Max Mfg. contacts are made from either beryllium copper or beryllium nickel that has been heat treated to achieve ultimate spring properties. The graph illustrates how beryllium copper loses its spring properties over time at a high temperature (225°C). Thus, for burn-in applications and continuous operation above 150°C, beryllium nickel should be substituted for beryllium copper.



CURRENT RATING

Current rating for each contact group can be found in the contact selector chart on page 248. This current rating (for a 10° C temperature rise above ambient) is conservative, since it rates an individual pin/receptacle pair in free air. For all practical applications, the current rating will be higher because of the heat sinking ability of wires and circuit traces attached to the pins and receptacles.

Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.



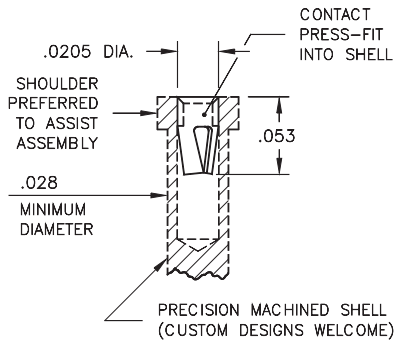
CONTACT DATA

INSERTION / EXTRACTION FORCE GRAPHS

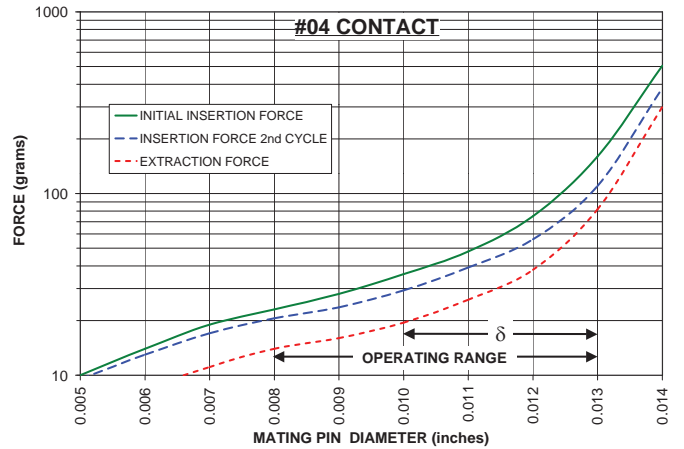
#04 CONTACT

FOR .008"-.013" DIAMETER PINS ($\delta = .003$)
3-FINGER

(See page 248)



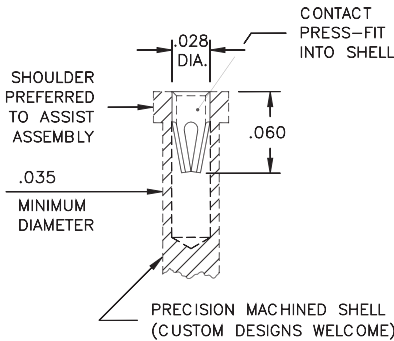
CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



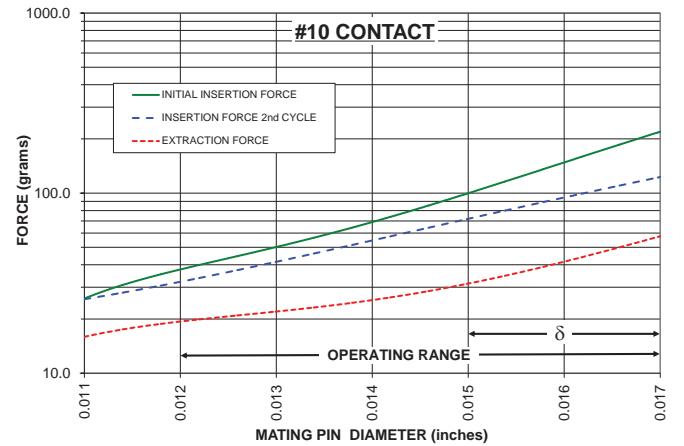
#10 CONTACT

FOR .012"-.017" DIAMETER PINS ($\delta = .002$)
6-FINGER

(See page 248)



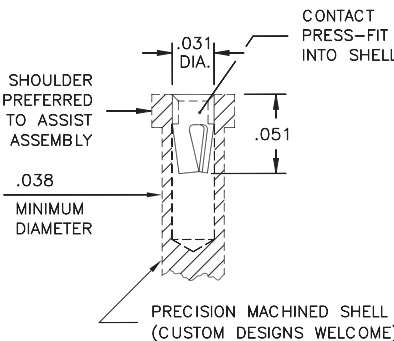
CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



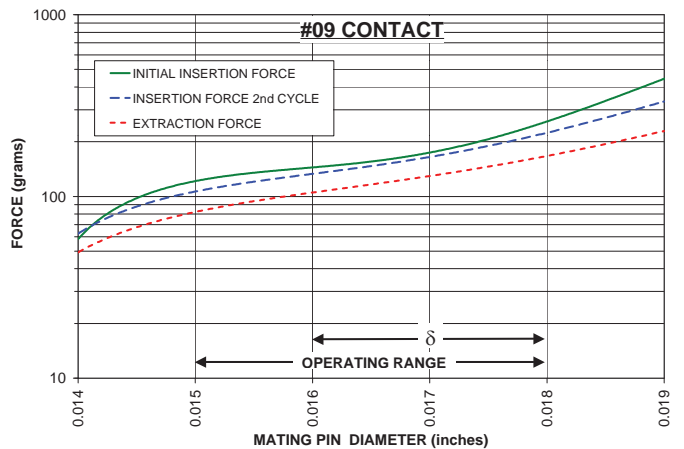
#09 CONTACT

FOR .015"-.018" DIAMETER PINS ($\delta = .002$)
3-FINGER, GROUP A

(See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

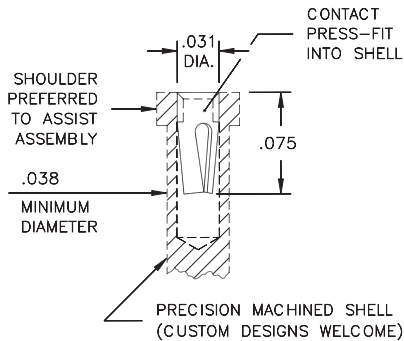


CONTACT DATA

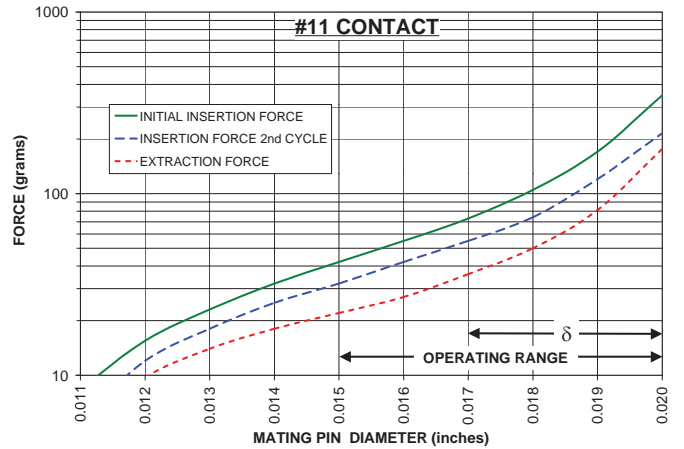
INSERTION / EXTRACTION FORCE GRAPHS

#11 CONTACT

FOR .015"-.020" DIAMETER PINS ($\delta = .003$)
3-FINGER, GROUP A (See page 248)

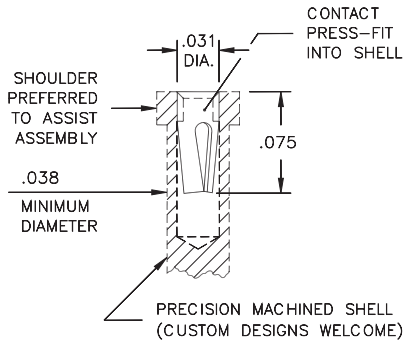


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

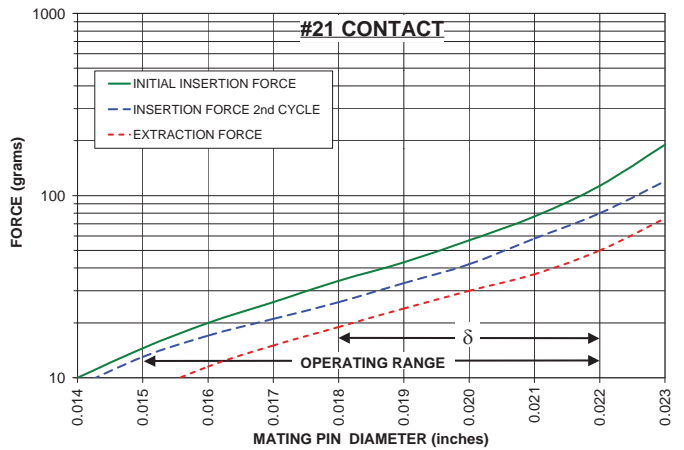


#21 CONTACT

FOR .015"-.022" DIAMETER PINS ($\delta = .004$)
3-FINGER, GROUP A (See page 248)

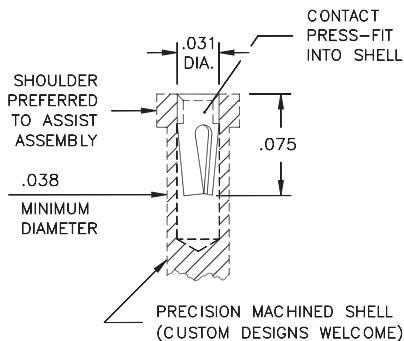


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

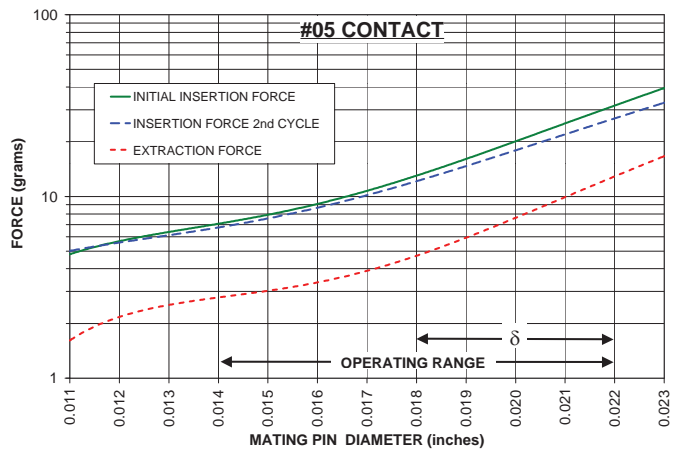


#05 CONTACT

FOR .015"-.022" DIAMETER PINS ($\delta = .004$)
3-FINGER, GROUP A (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

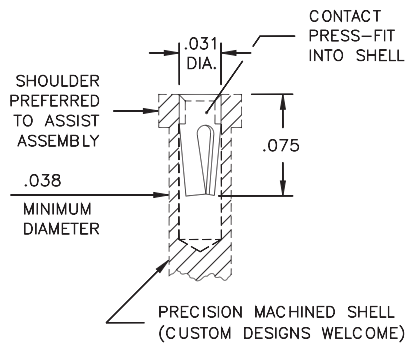


CONTACT DATA

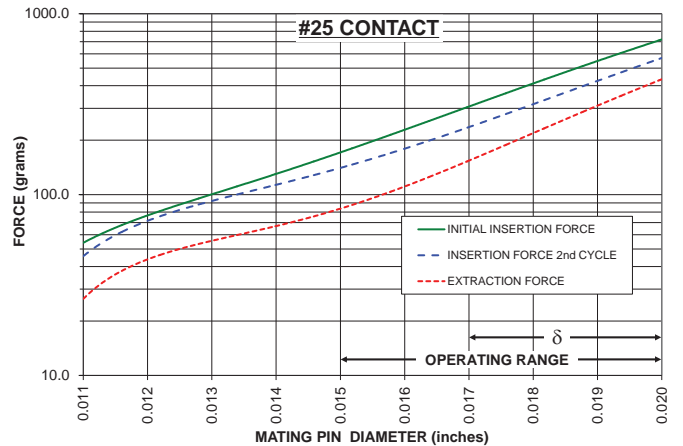
INSERTION / EXTRACTION FORCE GRAPHS

#25 CONTACT

FOR .015"-.020" DIAMETER PINS ($\delta = .003$)
3-FINGER, GROUP A (See page 248)

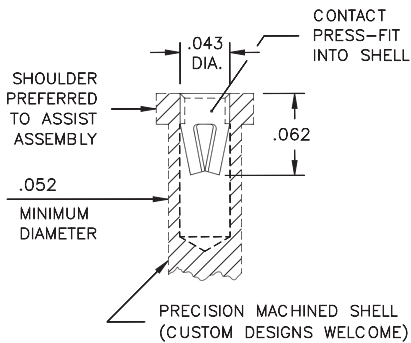


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

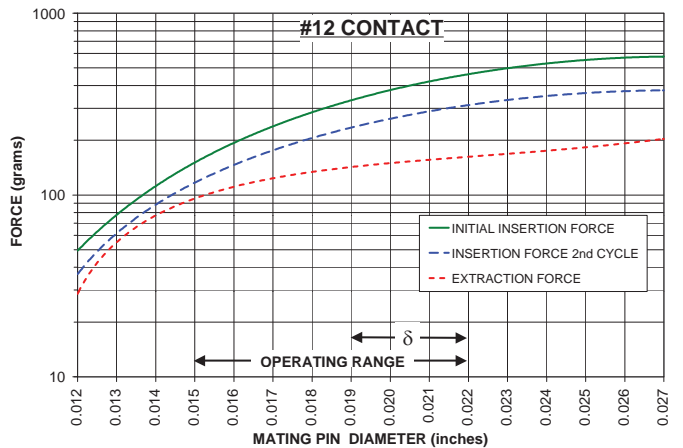


#12 CONTACT

FOR .015"-.022" DIAMETER PINS ($\delta = .003$)
4-FINGER, GROUP B (See page 248)

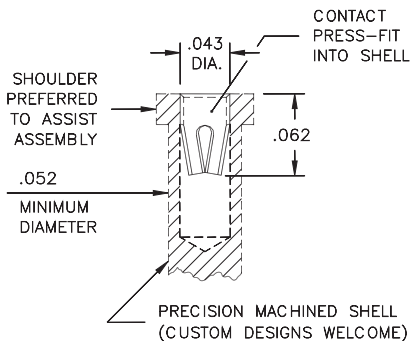


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

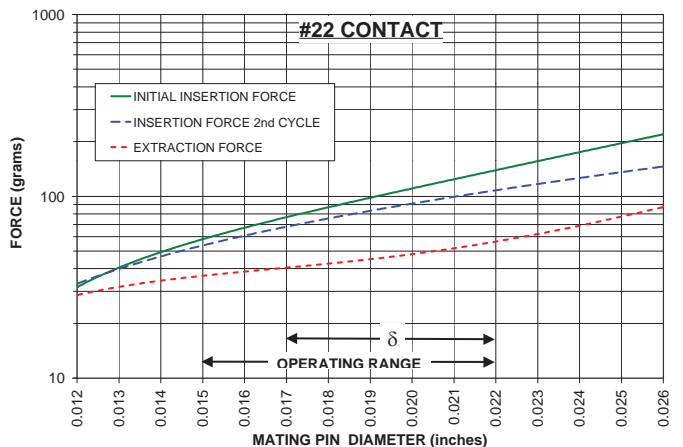


#22 CONTACT

FOR .015"-.022" DIAMETER PINS ($\delta = .005$)
6-FINGER, GROUP B (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

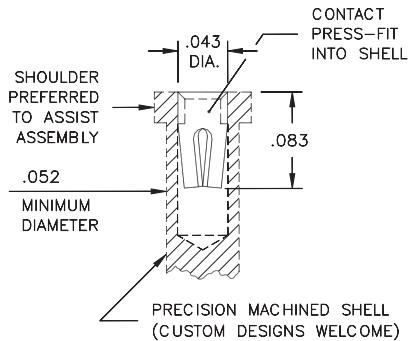
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

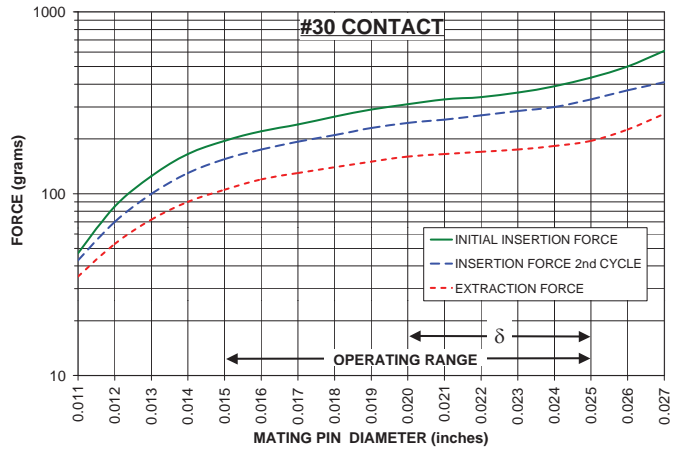
INSERTION / EXTRACTION FORCE GRAPHS

#30 CONTACT

FOR .015"-.025" DIAMETER PINS ($\delta = .005$)
4-FINGER, GROUP C (See page 248)

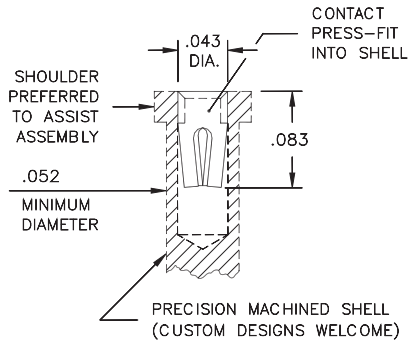


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

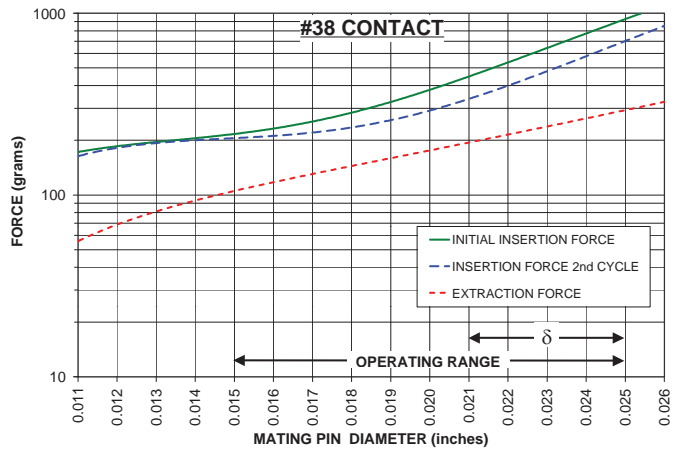


#38 CONTACT

FOR .015"-.025" DIAMETER PINS ($\delta = .004$)
4-FINGER, GROUP C (See page 248)

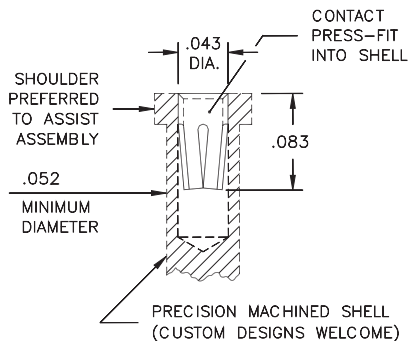


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

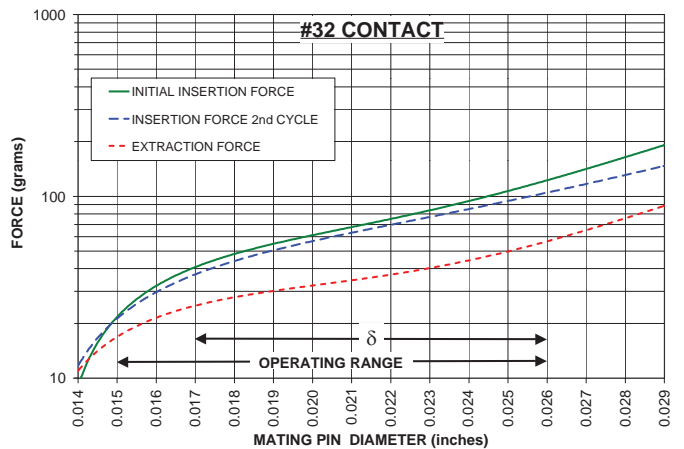


#32 CONTACT

FOR .015"-.026" DIAMETER PINS ($\delta = .009$)
6-FINGER, GROUP C (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

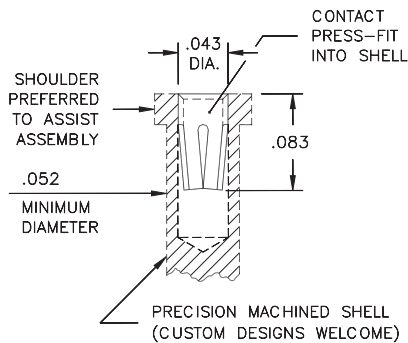


CONTACT DATA

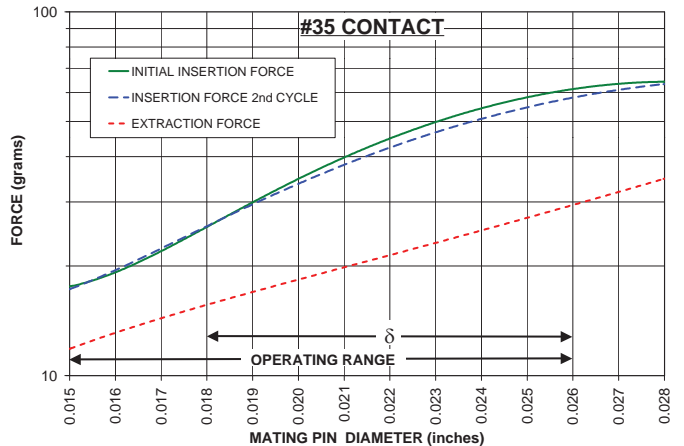
INSERTION / EXTRACTION FORCE GRAPHS

#35 CONTACT

FOR .015"-.026" DIAMETER PINS ($\delta = .008$)
6-FINGER, GROUP C (See page 248)

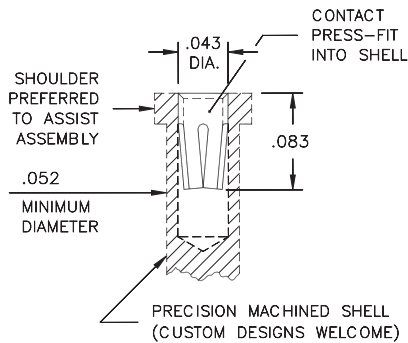


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

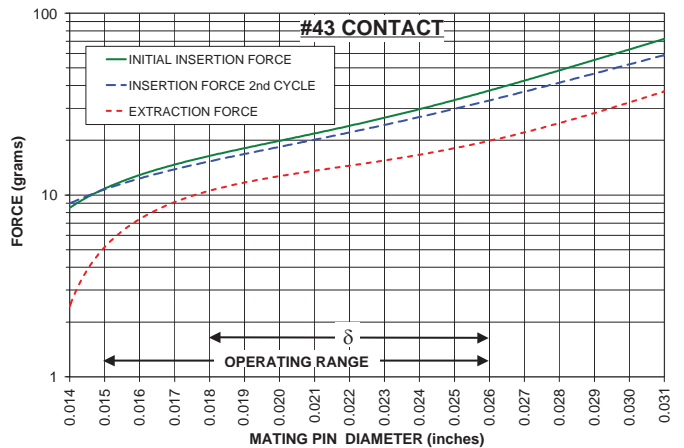


#43 CONTACT

FOR .015"-.026" DIAMETER PINS ($\delta = .008$)
6-FINGER, GROUP C (See page 248)

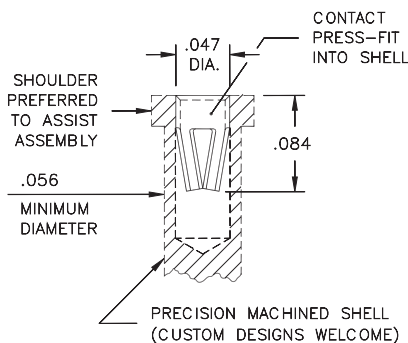


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

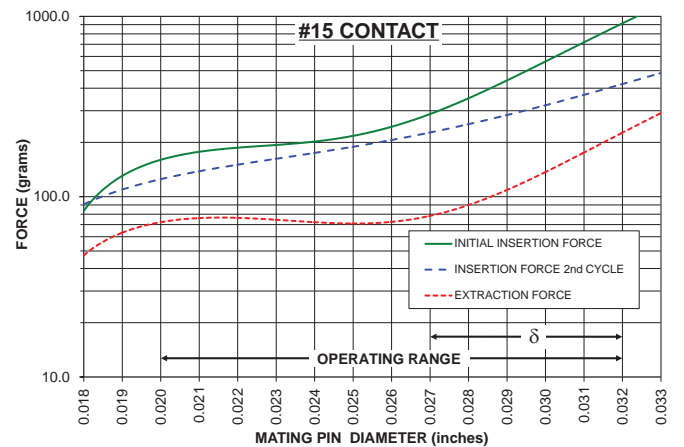


#15 CONTACT

FOR .020"-.032" DIAMETER PINS ($\delta = .005$)
6-FINGER, GROUP K (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

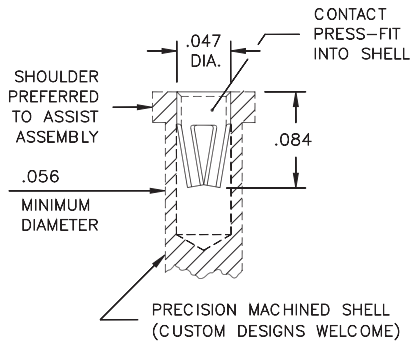


CONTACT DATA

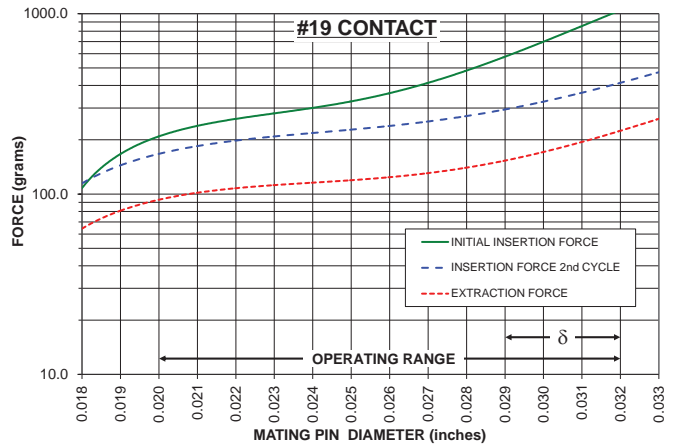
INSERTION / EXTRACTION FORCE GRAPHS

#19 CONTACT

FOR .020"-.032" DIAMETER PINS ($\delta = .003$)
6-FINGER, GROUP K (See page 248)

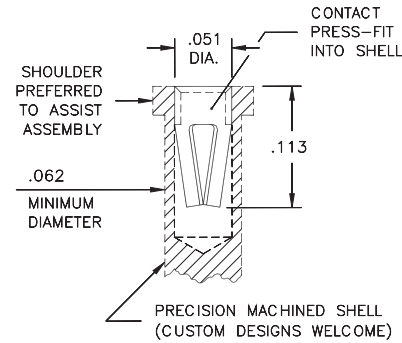


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

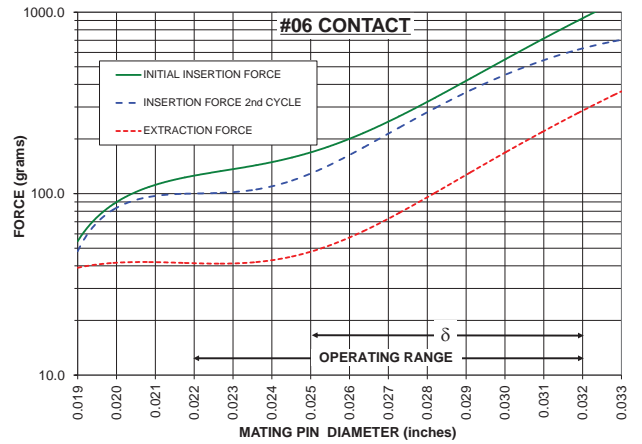


#06 CONTACT

FOR .022"-.032" DIAMETER PINS ($\delta = .007$)
4-FINGER, GROUP D (See page 248)

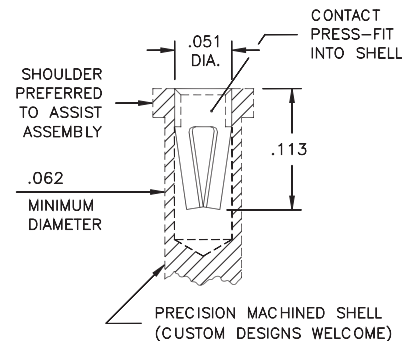


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

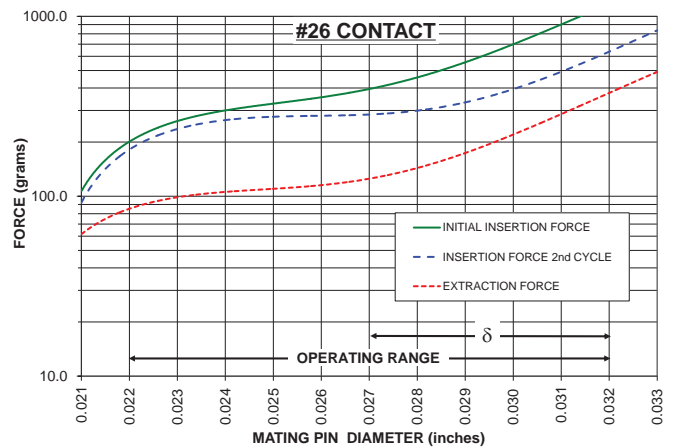


#26 CONTACT

FOR .022"-.032" DIAMETER PINS ($\delta = .005$)
4-FINGER, GROUP D (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

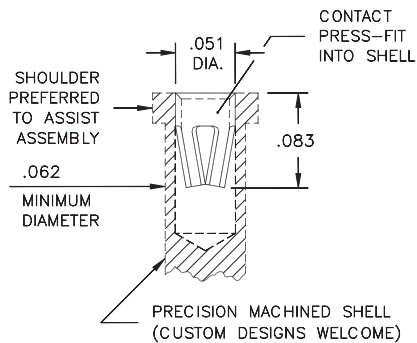


CONTACT DATA

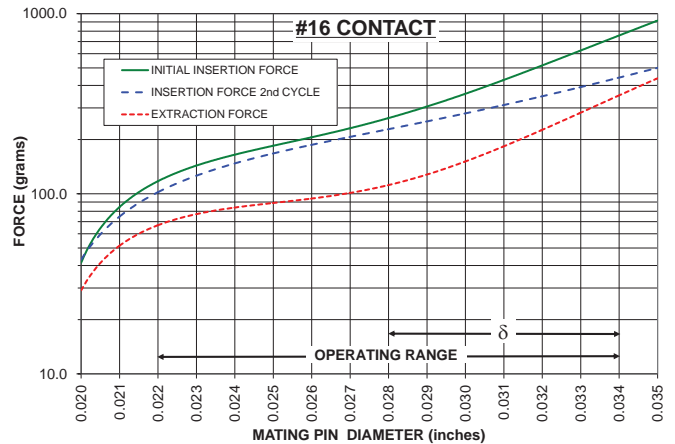
INSERTION / EXTRACTION FORCE GRAPHS

#16 CONTACT

FOR .022"-.034" DIA. & .025" SQ. ($\delta = .006$)
6-FINGER, GROUP D (See page 248)

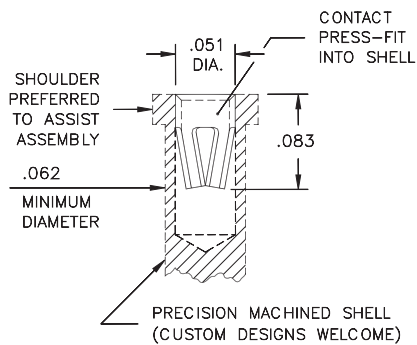


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

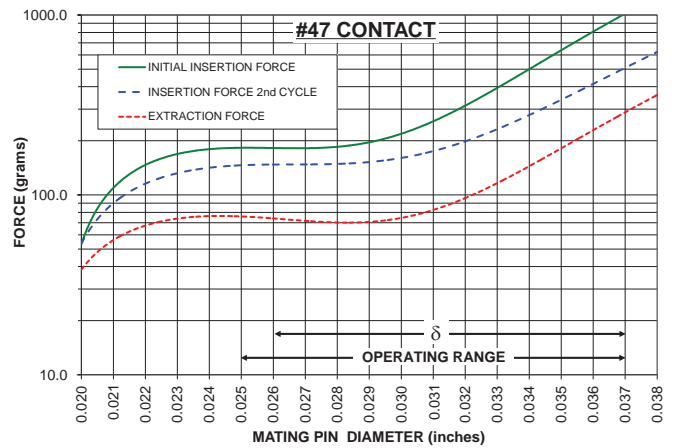


#47 CONTACT

FOR .025"-.037" DIA. & .025" SQ. ($\delta = .011$)
6-FINGER, GROUP D (See page 248)

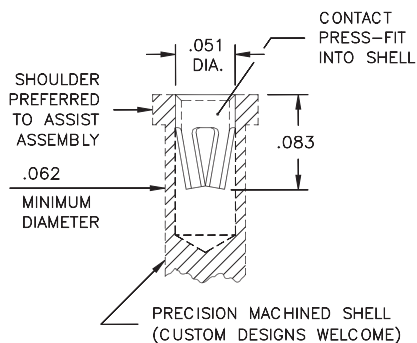


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

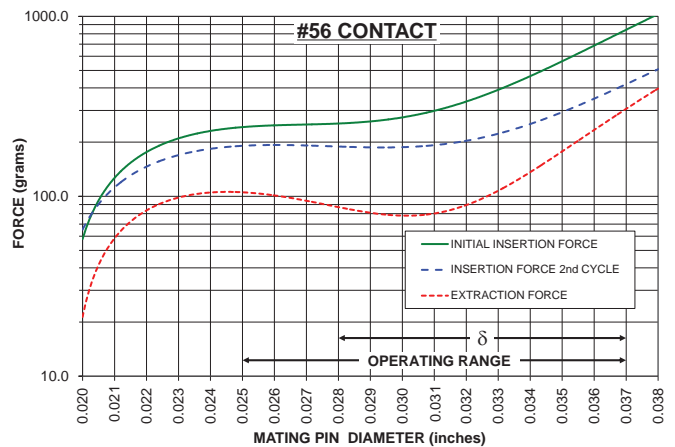


#56 CONTACT

FOR .025"-.037" DIA. & .025" SQ. ($\delta = .009$)
6-FINGER, GROUP D (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

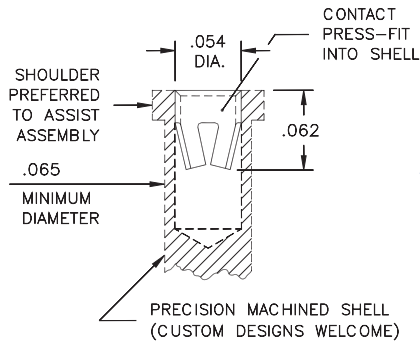
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

CONTACT DATA

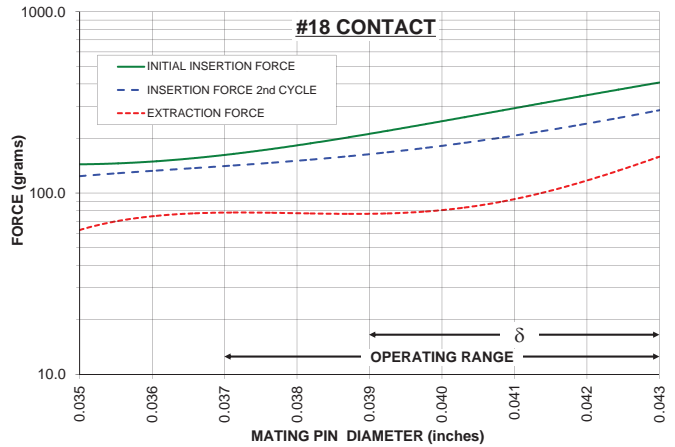
INSERTION / EXTRACTION FORCE GRAPHS

#18 CONTACT

FOR .037"-.043" DIAMETER PINS ($\delta = .004$)
6-FINGER, GROUP L (See page 248)

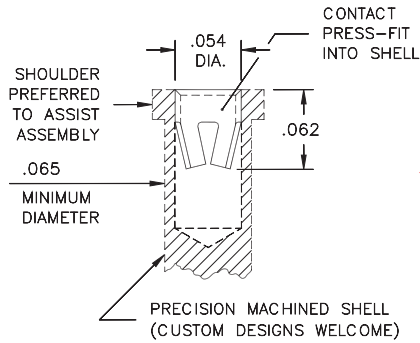


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

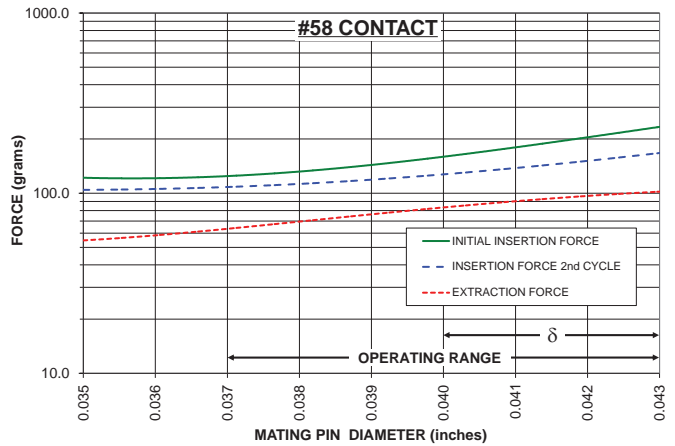


#58 CONTACT

FOR .037"-.043" DIAMETER PINS ($\delta = .003$)
6-FINGER, GROUP L (See page 248)

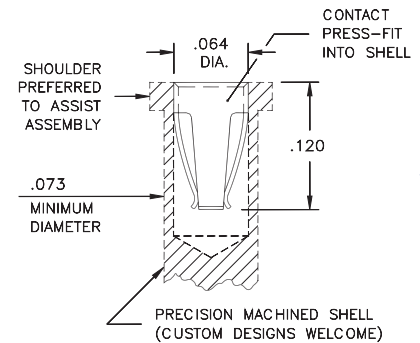


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

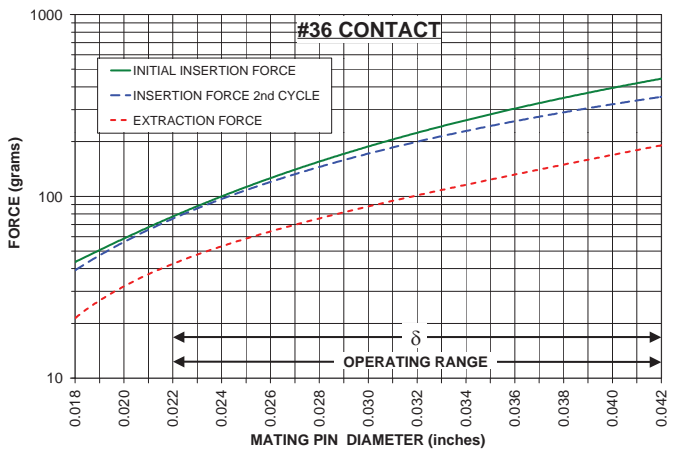


#36 CONTACT

FOR .022"-.042" DIAMETER PINS ($\delta = .022$)
4-FINGER, GROUP E (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

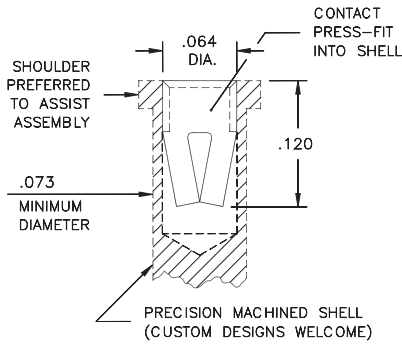


CONTACT DATA

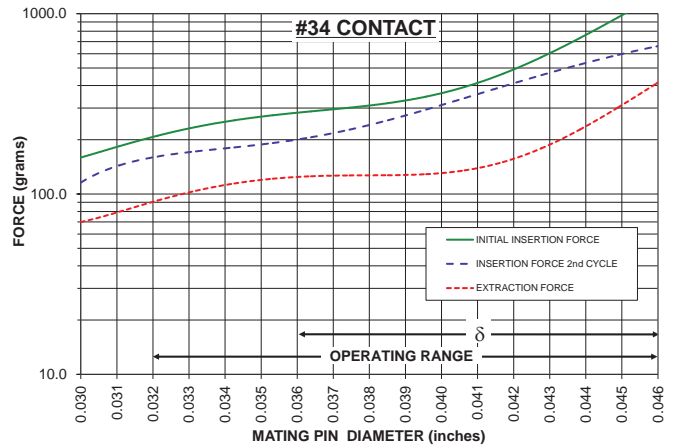
INSERTION / EXTRACTION FORCE GRAPHS

#34 CONTACT

FOR .032"-.046" DIAMETER PINS ($\delta = .010$)
4-FINGER, GROUP E (See page 248)

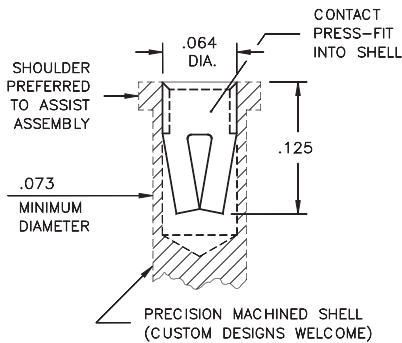


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

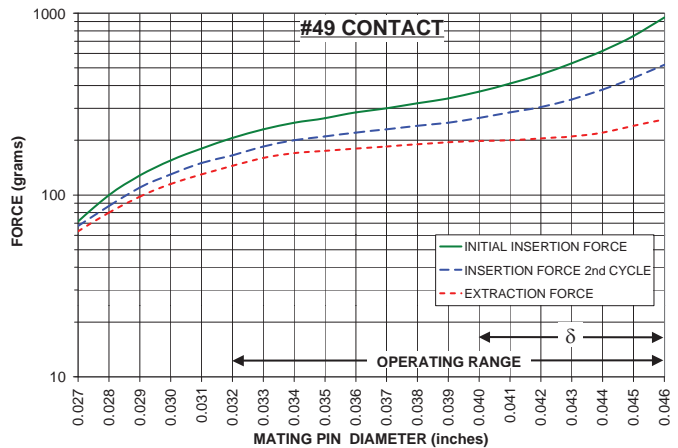


#49 CONTACT

FOR .032"-.046" DIAMETER PINS ($\delta = .006$)
4-FINGER, GROUP E (See page 248)

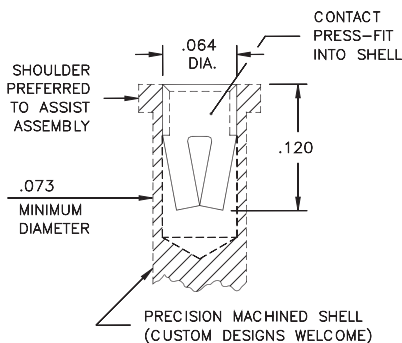


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

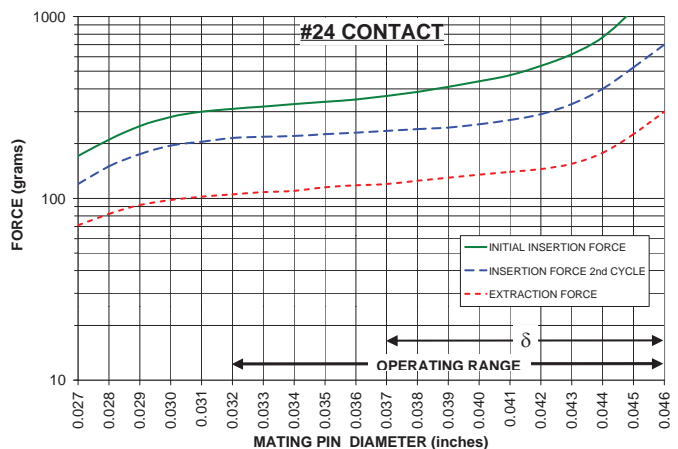


#24 CONTACT

FOR .032"-.046" DIAMETER PINS ($\delta = .009$)
4-FINGER, GROUP E (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

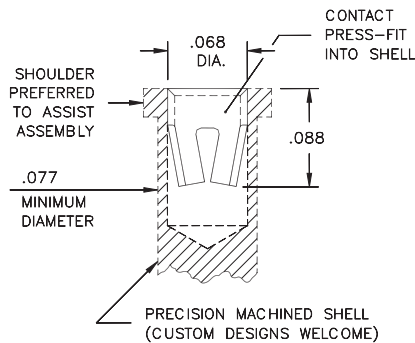


CONTACT DATA

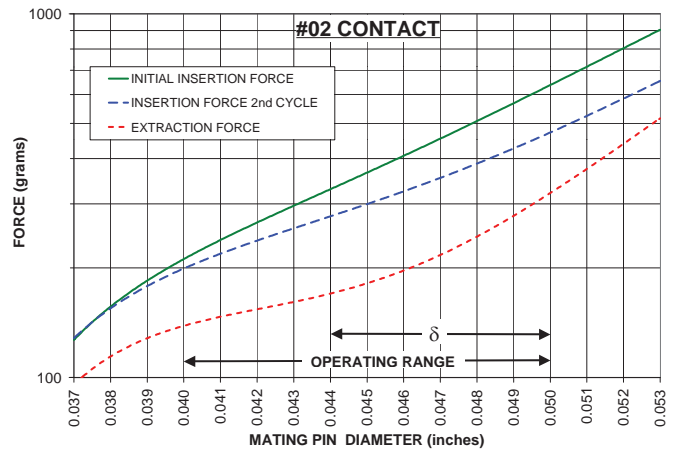
INSERTION / EXTRACTION FORCE GRAPHS

#02 CONTACT

FOR .040"-.050" DIAMETER PINS ($\delta = .006$)
6-FINGER, GROUP F (See page 248)

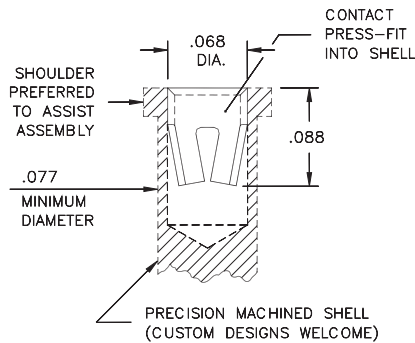


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

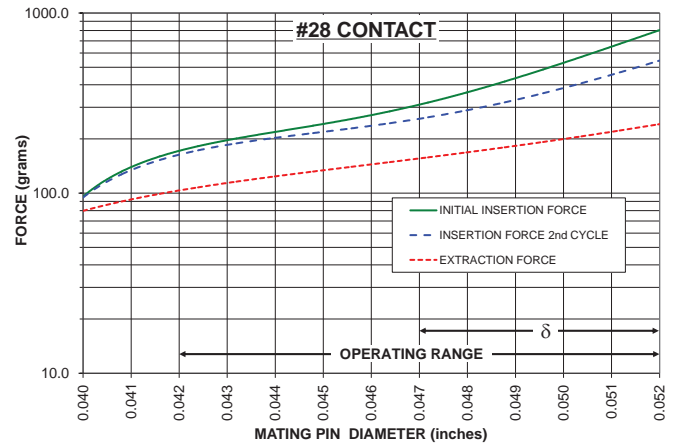


#28 CONTACT

FOR .042"-.052" DIAMETER PINS ($\delta = .005$)
6-FINGER, GROUP F (See page 248)

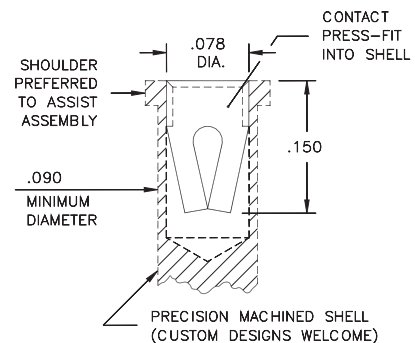


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

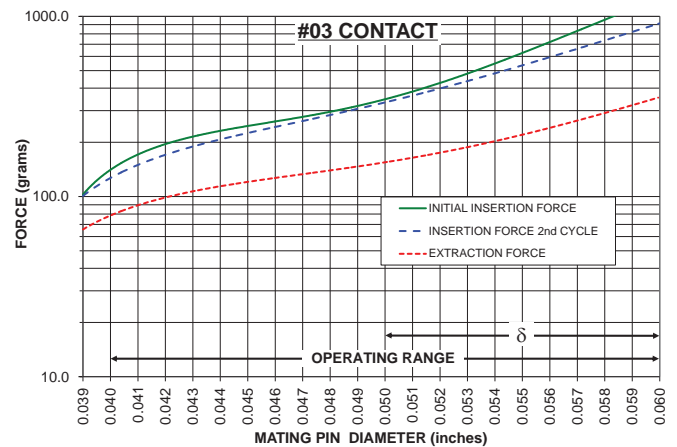


#03 CONTACT

FOR .040"-.060" DIAMETER PINS ($\delta = .010$)
4-FINGER, GROUP J (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

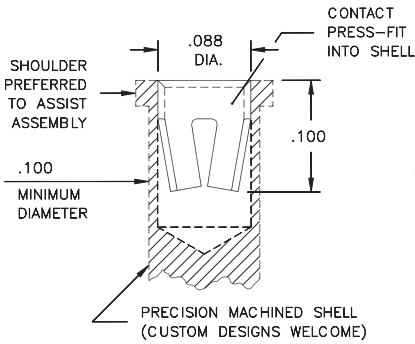


CONTACT DATA

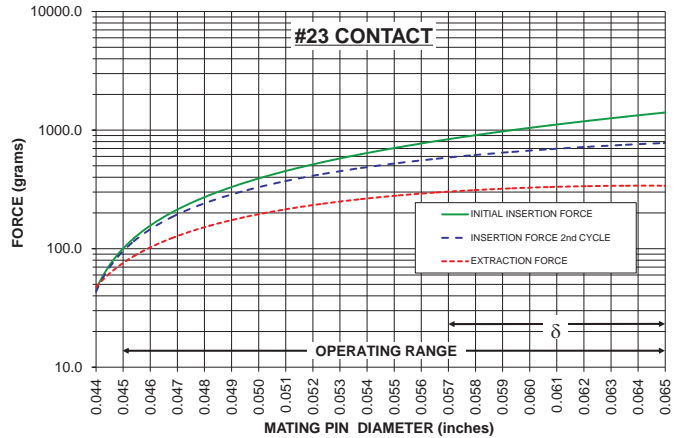
INSERTION / EXTRACTION FORCE GRAPHS

#23 CONTACT

FOR .045"-.065" DIAMETER PINS ($\delta = .008$)
6-FINGER, GROUP G (See page 248)

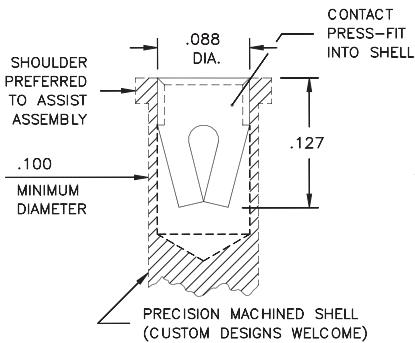


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

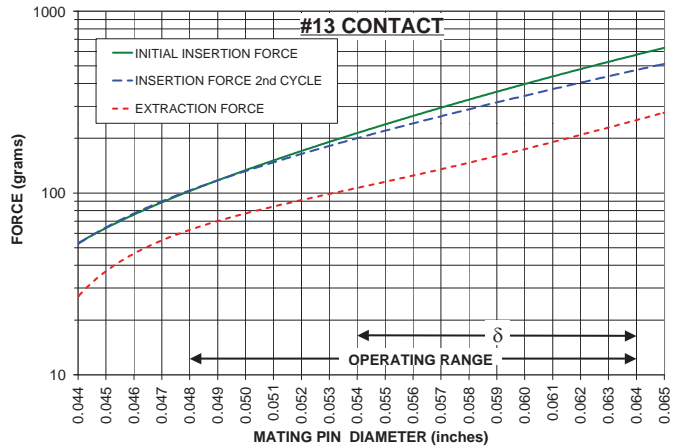


#13 CONTACT

FOR .048"-.064" DIAMETER PINS ($\delta = .010$)
4-FINGER, GROUP G (See page 248)

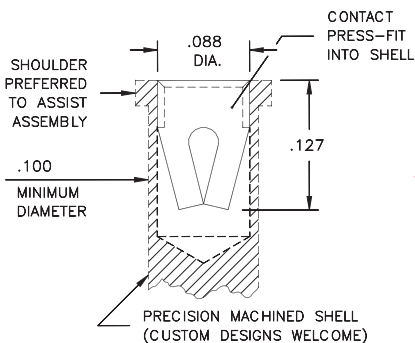


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

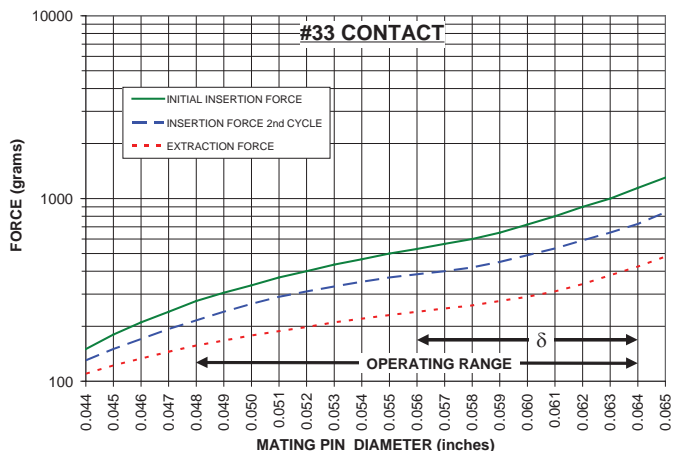


#33 CONTACT

FOR .048"-.064" DIAMETER PINS ($\delta = .008$)
4-FINGER, GROUP G (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

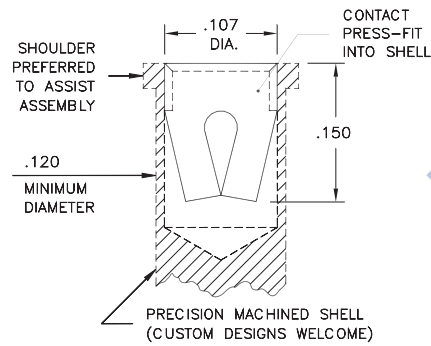


CONTACT DATA

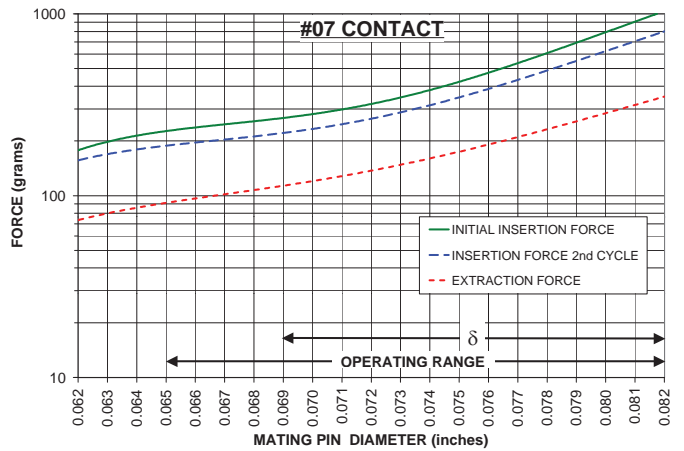
INSERTION / EXTRACTION FORCE GRAPHS

#07 CONTACT

FOR .065"-.082" DIAMETER PINS ($\delta = .013$)
4-FINGER, GROUP H (See page 248)

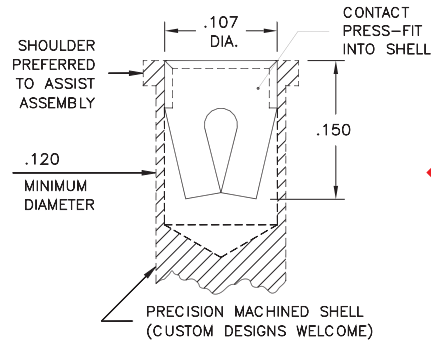


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

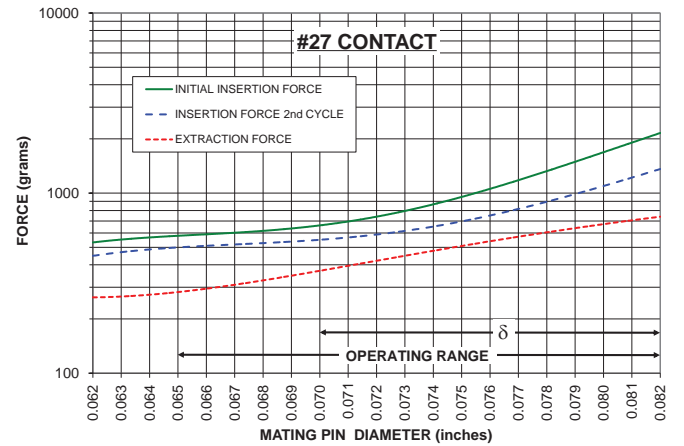


#27 CONTACT

FOR .065"-.082" DIAMETER PINS ($\delta = .012$)
4-FINGER, GROUP H (See page 248)

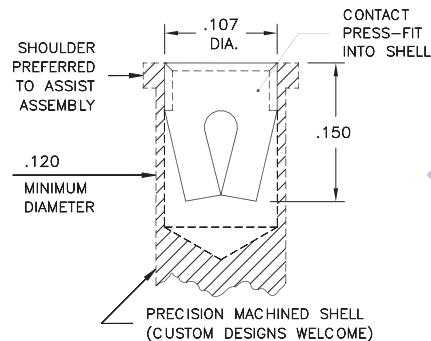


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

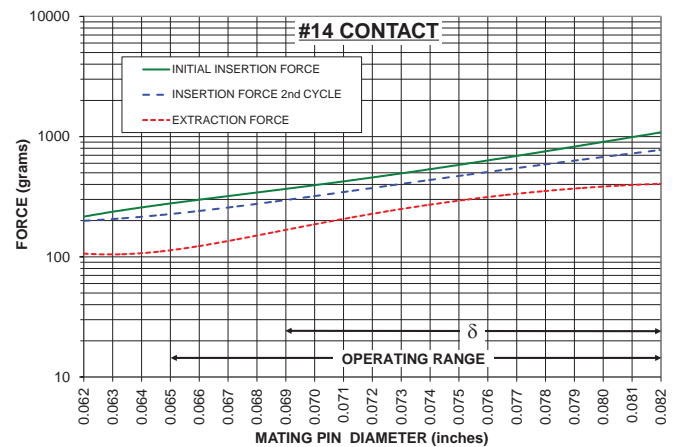


#14 CONTACT

FOR .065"-.082" DIAMETER PINS ($\delta = .014$)
4-FINGER, GROUP H (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

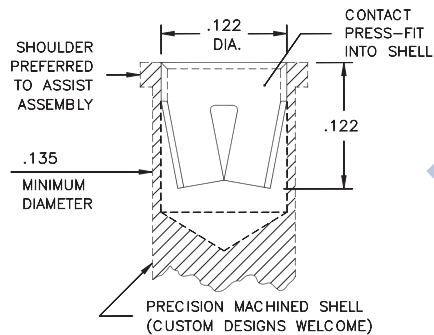


CONTACT DATA

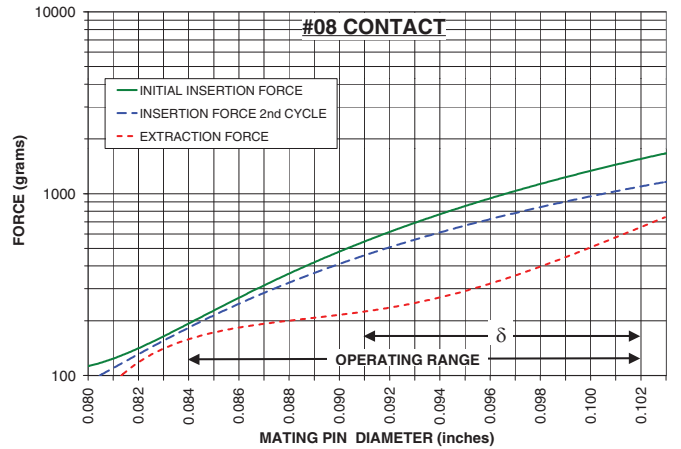
INSERTION / EXTRACTION FORCE GRAPHS

#08 CONTACT

FOR .084"-.102" DIAMETER PINS ($\delta = .011$)
6-FINGER (See page 248)

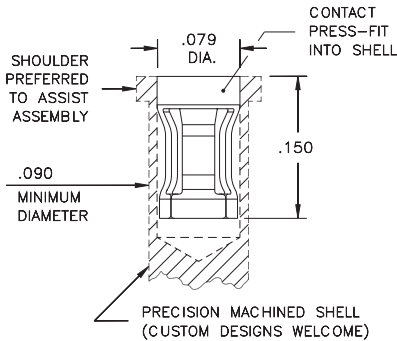


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

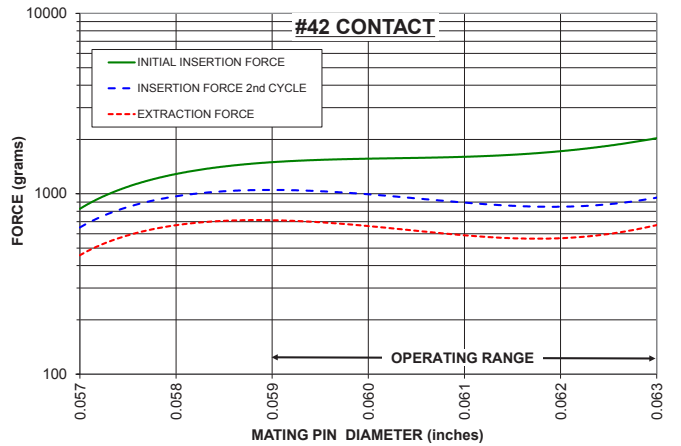


#42 CONTACT

FOR .059"-.063" DIAMETER PINS
4-FINGER, GROUP J (See page 248)

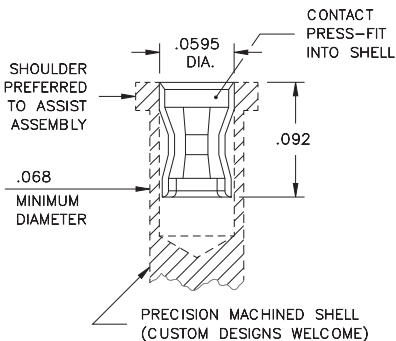


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

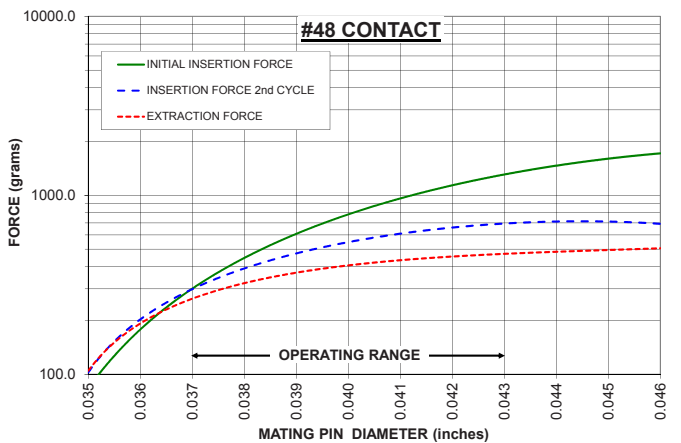


#48 CONTACT

FOR .037"-.043" DIAMETER PINS
4-FINGER (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



PROPERTIES OF METALS USED BY MILL-MAX

Copper alloy rod and wire for precision-machined pins, receptacles & solder terminals (**RoHS-2 directive 2011/65/EU, exemption 6c**) allows up to **4% lead as an alloy agent in copper. All Mill-Max pin materials are:**

BRASS ALLOYS; 360 per ASTM B 16, and 385 per ASTM B455

PHOSPHOR BRONZE Alloy 544 (UNS C54400) per ASTM B 139

TELLURIUM COPPER Alloy 145 (UNS C14500) per ASTM B 301

Spring alloy strip for stamping "multi-finger" spring contacts

BERYLLIUM COPPER Alloy 172 (UNS C17200) per ASTM B 194

BERYLLIUM NICKEL Alloy 360 (UNS N03360)

Properties of BRASS Alloy 360 ASTM B 16:

Chemical composition: Cu 63% (max), Pb 3.7% (max), Fe .35% (max), Zn remainder

Temper as machined: H02/H04

Yield Strength: 25-45 ksi

Tensile strength: 57-80 ksi

Hardness as machined: 80-90 Rockwell B

After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60±10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.

Electrical conductivity: 26% IACS *

Melting point: 1000°C/840°C (liquidus/solidus)

Properties of BRASS Alloy 385 ASTM B 455:

Chemical composition: Cu 60% (max), Pb 3.5% (max), Fe .35% (max), Zn remainder

Temper as machined: H02/H04

Yield Strength: 16 ksi (min)

Tensile strength: 48 ksi (min)

Hardness as machined: 80-90 Rockwell B

After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60±10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.

Electrical conductivity: 28% IACS *

Melting point: 1000°C/840°C (liquidus/solidus)

Properties of PHOSPHOR BRONZE:

Used for pins requiring more durability than brass.

Stock diameters available: .072/.078"

Chemical composition: Cu 88%, Sn 4%, Zn 4%, Pb 4%

Temper as machined: H04

Modulus of elasticity: 15 MPsi

Tensile strength: 70-80 KSI

Hardness as machined: 83 Rockwell B

Density: .321 lbs/in³

Electrical conductivity: 19% IACS *

Melting point: 1000°C/930°C (liquidus/solidus)

Properties of TELLURIUM COPPER:

Used for pins requiring a higher current carrying capacity than brass or phosphor bronze.

Stock diameters available: .079/.093/.125/.156"

Chemical composition: Cu 99.44%, Te .55%, P .008%

Temper as machined: H02

Modulus of elasticity: 17 MPsi

Tensile strength: 43 KSI

Hardness as machined: 43 Rockwell B

Density: .323 lbs/in³

Electrical conductivity: 93% IACS *

Thermal conductivity: 91% IACS *

Melting point: 1075°C/1051°C (liquidus/solidus)

Properties of BERYLLIUM COPPER:

Chemical composition: Cu 98.1%, Be 1.9%

Temper as stamped: TD01

Properties after heat treatment (TH01):

Modulus of Elasticity: 19 MPsi

Tensile Strength: 175-205 KSI

Yield Strength (0.2% offset): 150-185 KSI

Elongation: 3-10%

Stress Relaxation†: 96% of stress remains after 1,000 hours @ 100 °C

70% of stress remains after 1,000 hours @ 200 °C

Hardness: 36-43 Rockwell C

Density: .298 lbs/in³

Electrical Conductivity: 22% IACS *

Melting point: 980°C/865°C (liquidus/solidus)

Since BeCu loses its spring properties over time at high temperatures, it is rated for continuous use up to 150°C. For "down-hole" and "burn-in" applications up to 300°C. Mill-Max offers nine contacts (#19, #24, #25, #26, #27, #33, #38, #56, #58) made from Beryllium Nickel Alloy 360 (UNS N03360)

Properties of BERYLLIUM NICKEL:

Chemical composition: Ni 97.6%, Be 1.9%, Ti 0.5%

Modulus of Elasticity: 27-30 MPsi

Tensile Strength: 245 KSI min.

Yield Strength (0.2% offset): 200 KSI min.

Elongation: 9% min.

Hardness: 49 Rockwell C

Density: .294 lbs/in³

Electrical Conductivity: 7% IACS *

Melting point: 1,325°C/1,195°C (liquidus/solidus)

* International Annealed Copper Standard, i.e.: as a % of pure copper.

PROPERTIES OF PLASTICS USED BY MILL-MAX

Standard plastics used for catalog products:

Injection Molded

PCT Polyester {30% glass filled}, High Temp., (black). Flammability rating UL 94 V-O

Nylon46, High Temp. {30% glass filled} or {45% glass filled}, (black). Flammability rating UL 94 V-O

PPS, High Temp. {40% glass filled}, (black). Flammability rating UL 94 V-O

Machined

FR-4 Epoxy/Glass Laminate. In stock thicknesses available: .010", .020", .031", .047", .062", .093", .125" (natural color, beige). Other thicknesses available upon request. Flammability rating UL 94 V-O

G-30 Polyimide/Glass Laminate, .062" thick (natural color, brown). Flammability rating UL 94 HB

ALL MILL-MAX PARTS REQUIRE AN UNDERPLATE:

Brass parts need a barrier plate to prevent zinc diffusion, 50µ" min. nickel or 100µ" min. copper is recommended by ASTM B 545 and 579. ASTM B 488 also recommends a 50µ" min. nickel barrier plate beneath gold to prevent copper diffusion inherent with all copper alloy products.

MILL-MAX STANDARD UNDERPLATES:

NICKEL per ASTM B 689, Type 2 (Bright),

Class 1.25 (1.25µm/50µ") or Class 2.5 (2.5µm/100µ")

Also available for military and "non-magnetic" applications:

COPPER per ASTM B 734, Class 2.5 (2.5µm/100µ") or

Class 5 (5µm/200µ")

TEMPERATURE COMPARISON OF MOLDED INSULATORS

MATERIAL	HEAT DEFLECTION TEMP. (per ASTM D 648)
PCT Polyester	529°F (276°C) @ 66 psi
Nylon 46	554°F (290°C) @ 264 psi
PPS	>500°F (>260°C) @ 264 psi

Note: Materials with HDT above 446°F (230°C) are considered suitable for "eutectic" reflow soldering. For "lead-free" reflow soldering, choose materials with an HDT above 500°F (260°C).

PCT is the standard plastic used with RoHS "lead-free" plated pins.

MILL-MAX STANDARD PLATINGS (FINISHES):

GOLD per ASTM B 488, Type 1 (99.7% min. gold),

Code C (130-200 HK {Knoop hardness}),

Class (thickness) per customer's requirements

SILVER per ASTM B 700, Type 1 (99.9% min. silver),

Grade B (Bright),

Class S (anti-tarnish treatment),

Thickness (7.5µm/300µ" used for solder terminals)

TIN/LEAD (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth)

Class A (2.5µm/100µ")

or Class B (5µm/200µ"),

Bright finish (Matte available to order)

ELECTRO-SOLDER (60/40) per ASTM B 579, SC2 (8µm/300µ"),

Bright finish (Matte available to order)

Standard finishes available for RoHS "lead-free" applications:

GOLD per ASTM B 488, Type 1 (99.7% min. gold),

Code C (130-200 HK {Knoop hardness}),

Class (thickness) per customer's requirements

TIN (100%) per ASTM B 545, Class A (2.5µm/100µ") or

Class B (5µm/200µ"),

Matte finish (With whisker and oxide inhibitors & a nickel underplate)



Pins & Receptacles

Pin & receptacle shells are manufactured by precision high-speed turning machines. The base materials for these components are copper alloys.

Receptacles are a two piece construction consisting of a plated contact press-fit into a plated shell. The contacts are stamped from beryllium copper strip.

Materials

Pins & Receptacle Shells:

Brass Alloy 360 UNS C36000 ASTM-B16, and 385 UNS 38500 ASTM B455 (Up to a .250" diameter)

Phosphor Bronze alloy 544 UNS C54400 ASTM-B139 (Up to a .072" diameter)

Tellurium Copper alloy 145 UNS C14500 ASTM-B301 (Up to a .156" diameters)

See page 154 and 203 for a complete list of standard available stock diameters.
(For the availability of larger diameter materials contact Technical Services).

Contacts:

Beryllium copper UNS C17200 ASTM-B194 (For most applications)

Beryllium Nickel UNS N03360 (For high temperature applications)

(For individual contact specifications see pages 250 - 262)
The materials listed above are all RoHS compliant.

Dimensional, Mechanical & Environmental Data

Standard tolerances for pins & receptacle shells:

Diameters +/- .002"

Lengths +/- .005"

Angles +/- 2°

Mechanical Life (Durability): Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.

Contact Forces: See individual contact specifications on pages 250 - 262.

Environmental Data:

- Operating temperature range: -55/+125° C (min. / max. discontinuous)
- Vibration (No electrical discontinuity Greater than 1 µs): 10-2000 HZ, 15 G
- Shock (No electrical discontinuity Greater than 1 µs): 50 G

Electrical data is dependent on the contact used in the receptacle. See page 248 for free air current ratings of the contacts.

Platings

GOLD per ASTM B 488 and MIL-G-45204, Type 1, Code C

SILVER per ASTM B 700, Grade B, Class S

TIN per ASTM B 545, Type 1

TIN/LEAD (93/7) per ASTM B 545

ELECTRO-SOLDER (60/40) per ASTM B 579, Bright

NICKEL per SAE-AMS-QQ-N-290

ELECTROLESS NICKEL per MIL-C-26074

COPPER per SAE-AMS-2418

Connectors

Connectors are headers, sockets and interconnects. They consist of pins, receptacles or spring pins assembled into thermoplastics or machined laminate insulator bodies. They are available in DIP, SIP, strip, BGA and PGA packages in grids of 1mm, .050", .070", 2mm, .100", .8mm for BGA's and .100" interstitial for PGA's.

Electrical Data

	SERIES:	100-700	80X	830	850
• Rated current (Amps):		3	3	3	1
• Rated voltage:		100 VRMS/150 VDC			
• Contact resistance:		10 mΩ max.			
• Insulation resistance:		10,000 MΩ min.			
• Dielectric strength:		1000 VRMS min. (700 VRMS min. for series 117 Shrink DIP)			
• Air and creepage distance (inch.):		.028	.033/.028	.020	.016/.020
		(.012 for series 117 Shrink DIP)			
• Capacitance(pF max):		.8	1	1	1

Electrical data above does not apply to BGA, PLCC, USB or spring-loaded connectors. Electrical data for these products can be found on the following pages: BGA – Page 141; PLCC - Page 141; USB - Pages 147 - 150; Spring-Loaded connectors – Pages 6 - 19
Current ratings are for a 10° C temperature rise above ambient (20°C)

Operating temperature range: -55/+125° C (min./max. discontinuous)

General tolerances for assembled connector products:

- Lengths: +/- .010"
- Connector Flatness: .005" (up to 1" in length)
- Co-planarity of SMT Connectors: .005" (up to 1" in length)
- For connectors exceeding 1" in length the flatness/ co-planarity may exceed .005". Please contact Technical Services for more information.

(Note: Specifications and tolerances are provided wherever possible. Due to the wide variety of connectors Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.)

Materials

Insulator Bodies:

Standard material is glass filled thermoplastic polyester (PCT), self extinguishing, rated UL 94 V-0.

Some surface mount, pin grid array, spring pin and shrouded connector insulators are molded from high temperature Nylon 46 or PPS, rated UL 94 V-0.

FR-4 epoxy laminate is a thermoset material used in custom insulators and high temperature applications. It is especially useful because of its low Temperature Coefficient of Expansion (TCE). See chart below:

TCE for molded insulator	30 ppm/° C
TCE for 4-Layer PCB	13 ppm/° C
TCE for unclad epoxy	12 ppm/° C

The above insulator materials are all suitable for lead free soldering processes up to 260° C.

For complete material properties of plastics used by Mill-Max see page 263.

For inquiries regarding other insulator materials, please contact Technical Services.

Spring Pins

Spring pins consist of precision-machined brass components assembled together with beryllium copper or stainless steel springs. External components and internal springs are gold-plated. Spring pins are designed to be used at mid-stroke. Over compression can cause damage restricting the movement of the plunger.

Materials

External Components (Body, Piston, Base, Tail):

Brass Alloy 360 UNS C36000 ASTM-B16

Springs

Beryllium copper UNS C17200 ASTM-B197

Stainless Steel 302

Dimensional, Mechanical & Environmental Data

Standard tolerances for spring pins at initial height:

Diameters +/- .002"

Lengths +/- .006"

Mechanical life (durability): Tested to 1,000,000 cycles

Force tolerance: +/- 20 g (See individual spring pin data on pages 6 - 19 for forces)

Stroke tolerance: +/- .005"

Environmental Data:

- Operating temperature range: -55/+125° C (min. / max. discontinuous)
- Vibration (No electrical discontinuity Greater than 1 µs): 0-200 HZ, 10 G
- Shock (No electrical discontinuity Greater than 1 µs): 50 G

For complete material properties of metals, platings and plastics used by Mill-Max see page 263.

Where applicable, Mill-Max products and procedures are designed to meet the following standards:

- MIL-STD 1916** - DOD preferred methods for acceptance of product
- MIL-STD 202G** - Test methods for electronic and electrical component parts
- MIL-STD 45662** - Calibration system requirements, or ISO 10012
- MIL-F-14072** - Finishes for ground based electronic equipment
- MIL-I-45208** - Inspection system requirements or equivalent
- MIL-S-83505** - General specification for sockets (lead, electronic components)
- MIL-DTL-83734** - General specification for DIP sockets

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.



Materials

Insulator Bodies:

Standard material is glass filled thermoplastic polyester (PCT), self extinguishing, rated UL 94 V-0.

Some surface mount, pin grid array, spring pin and shrouded connector insulators are molded from high temperature Nylon 46 or PPS, rated UL 94 V-0.

FR-4 epoxy laminate is a thermoset material used in custom insulators and high temperature applications. It is especially useful because of its low Temperature Coefficient of Expansion (TCE). See chart below:

TCE for molded insulator	30 ppm/° C
TCE for 4-Layer PCB	13 ppm/° C
TCE for unclad epoxy	12 ppm/° C

The above insulator materials are all suitable for lead free soldering processes up to 260° C.

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Spring pins consist of precision-machined brass components assembled together with beryllium copper or stainless steel springs. External components and internal springs are gold-plated. Spring pins are designed to be used at mid-stroke. Over compression can cause damage restricting the movement of the plunger.

Materials

External Components (Body, Piston, Base, Tail):

Brass Alloy 360 UNS C36000 ASTM-B16

Springs

Beryllium copper UNS C17200 ASTM-B197

Stainless Steel 302

Dimensional, Mechanical & Environmental Data

Standard tolerances for spring pins at initial height:

Diameters +/- .002"

Lengths +/- .006"

Mechanical life (durability): Tested to 1,000,000 cycles

Force tolerance: +/- 20 g (See individual spring pin data on pages 6 - 19 for forces)

Stroke tolerance: +/- .005"

Environmental Data:

- Operating temperature range: -55/+125° C (min. / max. discontinuous)
- Vibration (No electrical discontinuity Greater than 1 µs): 0-200 HZ, 10 G
- Shock (No electrical discontinuity Greater than 1 µs): 50 G

For complete material properties of metals, platings and plastics used by Mill-Max see page 263.

Where applicable, Mill-Max products and procedures are designed to meet the following standards:

- MIL-STD 1916** - DOD preferred methods for acceptance of product
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- MIL-F-14072** - Finishes for ground based electronic equipment
- MIL-I-45208** - Inspection system requirements or equivalent
- MIL-S-83505** - General specification for sockets (lead, electronic components)
- MIL-DTL-83734** - General specification for DIP sockets

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.



GLOSSARY OF TERMS AND DEFINITIONS

Annealing - Refers to a brass pin that has been softened by heat treatment which makes the pin easier to crimp, rivet (swage) or bend.

Carrier - An assembly consisting of an insulator with male pins onto which receptacles are loaded. This assembly is employed as a fixture during the soldering operation and is then removed leaving a PC board populated with individual receptacles. Female carriers that load male pins are also available for special applications.

Clip - See Contact.

Closed Entry - Refers to female contacts where the front rim prevents the insertion of an oversize pin that would otherwise damage the contact.

Compliancy - Contact's ability to accept multiple insertions and extractions of a wide range of pin shapes and sizes while retaining its original configuration.

Compliant Press Fit - Method of mounting an interconnect component to a PC board where a drilled and slotted receptacle or pin is pressed into a plated-through-hole without damaging the hole.

Constant Usage Temperature (CUT) - Constant Usage Temperature is a measure of the maximum temperature that a material may be exposed to for long periods of time, 1000 - 1500 hrs., before degradation of its electrical and mechanical properties occurs.

Contact (and Contact Clip) - Multi-finger spring insert of a receptacle which completes the electrical path between a male pin and a female receptacle. Also referred to as a clip.

Contact Rating - Current carrying capability of a contact measured in amperes with respect to temperature rise above ambient.

Contact Resistance - The electrical resistance at the point of connection determined by the contact geometry, area of contact, plating and normal force.

Coplanarity - Refers to the measurement of multiple points and their distance from a respective plane. This is particularly useful for surface mount parts to determine the maximum amount of difference in the height of the surfaces that need to be soldered.

Electroplating - The electrodepositing of a metal coating on a conductive object such as a pin, shell, or contact clip.

Electro-vibratory Plating - An electroplating system where the parts are processed in a vibrating basket which ensures uniform plating thickness and avoids damage to delicate parts.

End Stackable - The ability for connectors to be mounted end to end while maintaining grid or spacing.

Extraction Force (or Withdrawal Force) - The force required to remove a lead from a contact.

Epoxy - Woven glass cloth epoxy laminate. Classified as a thermoset, the woven fibers of these materials enable them to withstand high temperatures without being damaged. Cut from large sheets of material, the insulator is then machined on a high speed drill/router the same way as printed circuit boards are fabricated.

Electrostatic Discharge (ESD) - The momentary electric current that flows between two objects that may cause damage to electronic equipment.

Flash (Plating) - A very thin plating of metal, usually less than 10 micro inches, to uniformly cover the surface of the base metal.

Flatness - Sometimes used in place of coplanarity, flatness refers to the amount of variation of a plane or surface.

Floating Contact - In surface mount sockets, a receptacle designed to move up and down freely in an insulator to compensate for unevenly dispensed solder paste.

Free Machining Alloy - An alloy which is easy to machine, e.g. brass alloy 360.

Fretting - A form of corrosion caused by vibration.

Gas Tight Connection - An electrical connection of sufficient pressure to prevent the intrusion of a corrosive atmosphere into the contact area.

Heat Deflection Temperature (HDT) - An industry recognized test for comparing the short term effects of high temperature on plastics.

Heat Treating - The process of using specific heating and cooling cycles to alter the mechanical properties of an alloy. Generally, heat treating can harden or soften a metal depending on the material, the parameters used and the desired physical property.

Hex Press Fit - A method of press-fitting either a pin or receptacle, using a hexagonal cross section, into a plated through-hole without causing damage to the hole while still maintaining a gas tight seal.

High Speed Turning - See Precision-Machined.

Injection Molding - A method of molding plastics by first heating granular plastic to its molten state and injecting it into the mold cavity where the plastic solidifies and is then ejected from the cavity.

GLOSSARY OF TERMS AND DEFINITIONS

Insertion Force - The force required to insert a male lead into a female socket.

Knurl - A vertical serration machined around the diameter of an interconnect pin providing a retention feature for press-fitting in a PC board or insulator and also preventing rotation of the pin.

LCP (Liquid Crystal Polymer) - Classified as a thermoplastic, LCP is a hard, rigid material which exhibits outstanding strength at high temperatures and exceptional strength and toughness in its thin walls. Applications: LCP is used as an insulator material for tight grid (.050", 2mm) connectors and extremely high temperature requirements.

Mating Pin - The pin used to interconnect two electronic devices by inserting it into the contact. Critical features are diameter, length, and shape (but not limited to.)

Machined - See Precision-Machined.

Migration - For a brass part plated with tin or gold, the migration of zinc from brass to the surface of the plating. This becomes zinc oxide and renders the part unsolderable. Zinc migration is prevented by using a copper or nickel underplate as a barrier.

Nylon 46 - Classified as thermoplastics. Nylon 46 offers superior heat resistance, good electrical properties and excellent toughness in its thin walls, which are desirable characteristics for connector insulators. Its superior strength in thin walls enables the press-fitting of pins in close proximity to each other without cracking or warping the material, making it ideal for molding 2mm and .050" grid insulators. Nylon 46 is suitable for high temperature applications including vapor phase, infra-red reflow and wave soldering operations.

Passive Device or Component - An electronic connector that consumes electrical energy, but does not produce electrical energy. Passive devices are not susceptible to significant ESD damage.

PCB - Printed Circuit Board.

PCT (Polycyclohexane Terephthalate) - Thermoplastic polyester is rated for higher temperatures. PCT is a standard material on DIP and SIP insulators for higher temperature operations. All PGA and surface mount products are molded from PCT and are suitable for infra-red, vapor phase and wave soldering.

Plating - A process in which metals (e.g. gold, tin-lead, nickel, silver) are electrically deposited onto a base metal in very thin and precise thicknesses.

Plated Through-Hole - A hole in a printed circuit board which has metallic walls connected to conductors on the surface or inside the board, in which the component lead is inserted and soldered.

Precision-Machined - Manufacturing process whereby a rapidly turning solid metal rod is cut to precise tolerances.

Receptacle - Female contact consisting of an outer shell & inner spring contact (clip) designed for multiple mating/unmating cycles with a male pin or component lead.

Screw-Machined - See Precision-Machined.

Secondary Machining - A process in which holes, slots, flats, squares or other special features may be machined onto a pin or receptacle after the basic shape of the part has been turned on a high speed lathe.

Shrink DIP Package - An IC which has a pin spacing of .070" on centers.

Skiving - The removal of a thin amount of plating when pins or contacts are press fit. For example, soft platings may yield some amount of skiving upon press fitting into an insulator or board. Skiving may also appear under a contact clip pressed into a receptacle shell.

Standoff - A protrusion at the bottom of the connector used to raise it off the PC board to aid in solder fillet formation, board inspection, flux removal and cleaning.

Swage Mount - A type of mounting commonly used with solder terminals and printed circuit pins where one end of the terminal is flared out (riveted) securing it to the PCB.

Thermal Coefficient of Expansion (TCE) - Expansion of material caused by an increase in temperature.

Thermoset - Type of plastic which is heat cured into a permanent shape and, due to chemical reaction, cannot be remelted.

Thermoplastics - Type of plastic which is molded under heat and pressure and can be remelted & reused many times.

Top Plate - Final surface plating over base metal and underplating.

Underplate - Plating between the base metal and the top plating.

Withdrawal Force (or Extraction Force) - The force required to remove a lead from a contact.

Wrapost (Terminal or Receptacle) - The length of square cross section of certain pins and receptacles which is used for making electrical connections via wire wrapping. Wire wrapping is a process in which wire is wrapped around the post to form a gas-tight connection without soldering.

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MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #	MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
101-93-XXX-41-56X000	1001/0156	95	160-XX-XXX-00-001000	0282	117
104-XX-XXX-41-770000	0477	96	162-XX-XXX-00-001000	1106-2	117
104-XX-XXX-41-780000	0478	96	162-XX-XXX-00-180000	6218	127
110-XX-210-10-001000	1001	134	162-XX-XXX-30-180000	6218	128
110-XX-210-10-002000	1001	135	163-XX-XXX-00-001000	1106-3	117
110-XX-3XX-10-001000	1001	134	170-XX-XXX-00-001000	0700	118
110-XX-3XX-10-002000	1001	135	173-XX-XXX-00-001000	0730-3	118
110-XX-3XX-10-003000	1001	135	180-XX-XXX-00-001000	8000	119
110-XX-3XX-10-004000	1001	135	182-XX-XXX-00-001000	8301-2	119
110-XX-3XX-10-005000	1001	135	183-XX-XXX-00-001000	8301-3	119
110-XX-XXX-41-001000	1001	90	210-XX-XXX-41-001000	1001	99
110-XX-XXX-41-105000	1005	104	210-XX-XXX-41-101000	1001	101
110-XX-XXX-41-530000	1001	100	210-XX-XXX-41-105000	1005	105
110-XX-XXX-41-605000	1005	94	210-XX-XXX-41-105799	1005	105
110-XX-XXX-41-801000	1001	98	214-XX-XXX-01-670799	1434	108
111-XX-XXX-41-001000	0134	91	214-XX-XXX-01-670800	1434	108
113-XX-XXX-41-117000	1334/1434	107	217-XX-764-41-005000	1802	125
114-XX-XXX-41-117000	1434	106	222-XX-XXX-41-001000	0089-2	99
115-XX-XXX-41-001000	0501	92	223-XX-XXX-41-001000	0088-3	99
115-XX-XXX-41-003000	1534	93	223-XX-XXX-41-101000	0038-3	102
116-XX-XXX-41-001000	0153-5	111	227-XX-764-41-002000	1702-2	125
116-XX-XXX-41-003000	0153-2	111	227-XX-764-41-003000	1703-3	125
116-XX-XXX-41-006000	0153-1	111	296-XX-010-30-691800	4077/4078	133
116-XX-XXX-41-007000	0153-3	111	296-XX-010-30-692800	4077/4078	133
116-XX-XXX-41-008000	0153-4	111	299-XX-XXX-10-001000	1103/0903	129
117-XX-XXX-41-005000	1802	125	299-XX-XXX-10-002000	1103/0904	129
117-XX-XXX-41-105000	1802	126	299-XX-XXX-11-001000	1103/1610	129
121-XX-XXX-41-001000	0040-1	109	299-XX-210-12-001800	1002-X	133
122-XX-XXX-41-001000	0089-2	109	301-43-1XX-41-560000	0156/1001	46
122-XX-XXX-41-801000	0089-2	98	302-10-001-00-900800	0290	87.1
123-XX-XXX-41-001000	0088-3	109	304-XX-1XX-41-770000	0477	73
123-XX-XXX-41-801000	0088-3	98	304-XX-1XX-41-780000	0478	73
124-XX-XXX-41-002000	0086-4	109	305-43-001-30-010800	0501	87.2
126-XX-XXX-41-001000	2601	110	310-43-001-30-010800	1001	87.2
126-XX-XXX-41-002000	2602	110	310-XX-1XX-40-023000	1023	50
126-XX-XXX-41-003000	2603	110	310-XX-1XX-41-001000	1001	46,65
127-XX-XXX-41-002000	1702-2	125	310-XX-1XX-41-105000	1005	51
127-XX-XXX-41-003000	1703-3	125	310-XX-1XX-41-107000	1005	51
134-10-XXX-00-000000	3400	122	311-XX-1XX-41-001000	0134	65
134-10-XXX-00-010000	3401	122	311-XX-1XX-41-003000	1103	66.1
134-10-XXX-00-020000	3402	122	315-XX-1XX-41-001000	0501	65
134-10-XXX-00-050000	3405	122	315-XX-1XX-41-003000	1534	65
134-10-XXX-00-100000	3410	122	315-XX-1XX-41-004000	0512	45.2
142-XX-XXX-00-591000	4259-1	123	316-XX-1XX-41-001000	0153-5	67
142-XX-XXX-00-592000	4259-2	123	316-XX-1XX-41-003000	0153-2	67
142-XX-XXX-00-593000	4259-3	123	316-XX-1XX-41-006000	0153-1	67
142-XX-XXX-00-594000	4259-4	123	316-XX-1XX-41-007000	0153-3	67
146-XX-XXX-41-012000	4612	97	316-XX-1XX-41-008000	0153-4	67
146-XX-XXX-41-013000	4613	97	317-XX-121-41-005000	1802	125
150-XX-XXX-00-001000	0290	116	317-XX-121-41-105000	1802	126
150-10-XXX-00-106000	3404	124	319-10-1XX-00-001000	1942	20
151-10-XXX-00-003000	5503	120	319-10-1XX-00-002000	1940	20
151-10-XXX-00-004000	5504	120	319-10-1XX-00-005000	1938	20
151-10-XXX-00-005000	5505	120	319-10-1XX-00-006000	1948	20.2
151-10-XXX-00-009000	5509	121	319-10-1XX-30-007000	1957	20.2
151-10-XXX-00-010000	5510	121	319-10-1XX-30-008000	1953	20.1
151-10-XXX-00-011000	5511	121	319-10-1XX-30-041000	1941	20.1
153-XX-XXX-00-001000	5301	116	319-10-1XX-30-054000	1954	20.1



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319-10-1XX-30-055000	1955	20.2	395-XX-101-03-380000	8433	151
319-10-1XX-40-080001	1980	22.4	395-XX-101-07-350000	8994	151
321-13-1XX-41-001000	0040-1	69	395-XX-101-34-340000	8993	151
322-XX-1XX-41-001000	0089-2	69	399-XX-1XX-10-003000	1103	46
323-XX-1XX-41-001000	0088-3	69	399-10-1XX-10-007000	1960	20.2
324-XX-1XX-41-002000	0086-4	69	399-10-1XX-10-008000	1940	20.1
326-XX-1XX-41-001000	2601	71	399-XX-1XX-10-009000	5011	46
326-XX-1XX-41-002000	2602	71	399-XX-0XX-21-300000	9930	41
326-XX-1XX-41-003000	2603	71	399-XX-0XX-00-310000	9931	41
327-XX-121-41-002000	1702-2	125	406-XX-2XX-30-068000	0668	49
327-XX-121-41-003000	1703-3	125	406-XX-2XX-30-068001	0668	49
328-XX-1XX-40-020001	2820	87.4	410-XX-2XX-10-001000	1001	134
329-XX-1XX-41-540000	2954	48	410-XX-2XX-10-002000	1001	134
329-10-1XX-00-560000	2956-1	49	410-XX-2XX-41-001000	1001	47,66
330-10-1XX-00-240000	3024	20	410-XX-2XX-41-105000	1005	51
330-10-001-00-770800	3077	87.1	411-XX-2XX-41-001000	0134	66
334-XX-1XX-00-000000	3400	81	411-XX-2XX-41-003000	1103	66.1
334-XX-1XX-00-010000	3401	81	414-XX-2XX-41-117000	1434	49
334-XX-1XX-00-020000	3402	81	415-XX-2XX-41-001000	0501	66
334-XX-1XX-00-050000	3405	81	415-XX-2XX-41-003000	1534	66
334-XX-1XX-00-100000	3410	81	415-XX-2XX-41-004000	0512	45.2
335-XX-1XX-00-160000	3516	78	416-XX-2XX-41-001000	0153-5	68
339-XX-1XX-40-000000	3900	50.1	416-XX-2XX-41-003000	0153-2	68
340-XX-1XX-30-780100	4078	41,49	416-XX-2XX-41-006000	0153-1	68
342-XX-1XX-00-591000	4259-1	82	416-XX-2XX-41-007000	0153-3	68
342-XX-1XX-00-592000	4259-2	82	416-XX-2XX-41-008000	0153-4	68
342-XX-1XX-00-593000	4259-3	82	419-10-2XX-00-001000	1942	21
342-XX-1XX-00-594000	4259-4	82	419-10-2XX-00-002000	1940	21
346-XX-1XX-41-012000	4612	73	419-10-2XX-00-005000	1938	21
346-XX-1XX-41-013000	4613	73	419-10-2XX-00-006000	1948	21.2
349-10-1XX-00-560000	4956-1	59	419-10-2XX-30-007000	1947	21.2
350-XX-1XX-00-001000	0290	52,84	419-10-2XX-30-041000	1941	21.1
350-XX-1XX-00-006000	3404	46	419-10-2XX-30-042000	1941/1942	21.1
350-XX-1XX-00-106000	3404	51	419-10-2XX-30-054000	1954	21.1
350-XX-1XX-00-107000	3404	51	419-10-2XX-30-055000	1955	21.2
351-10-1XX-00-003000	5503	79	421-XX-2XX-41-001000	0040-1	70
351-10-1XX-00-004000	5504	79	422-XX-2XX-41-001000	0089-2	70
351-10-1XX-00-005000	5505	79	423-XX-2XX-41-001000	0088-3	70
351-10-1XX-00-009000	5509	79	424-XX-2XX-41-002000	0086-4	70
351-10-1XX-00-010000	5510	79	426-XX-2XX-41-001000	2601	72
351-10-1XX-00-011000	5511	79	426-XX-2XX-41-002000	2602	72
351-10-1XX-40-002000	5102	50	426-XX-2XX-41-003000	2603	72
353-XX-1XX-00-001000	5301	86	429-XX-2XX-41-540000	2954	48
360-XX-1XX-00-001000	0282	84	429-10-2XX-00-560000	2956-0	49
362-XX-1XX-00-001000	1106-2	86	430-10-2XX-00-240000	3024	21
363-XX-1XX-00-001000	1106-3	86	435-XX-2XX-00-160000	3516	78
364-10-1XX-00-580000	6458	78	442-XX-2XX-00-591000	4259-1	83
370-XX-1XX-00-001000	0700	84	442-XX-2XX-00-592000	4259-2	83
370-10-001-00-070800	7007	87.1	442-XX-2XX-00-593000	4259-3	83
373-XX-1XX-00-001000	0730-3	86	442-XX-2XX-00-594000	4259-4	83
380-XX-1XX-00-001000	8000	48,84	446-XX-2XX-41-012000	4612	74
380-10-0XX-00-002000	3080	47.1	446-XX-2XX-41-013000	4613	74
380-10-001-00-000800	8000	87.1	449-10-2XX-00-560000	4956-1	59
380-XX-1XX-10-003000	3180	47.2	450-XX-2XX-00-001000	0290	52,85
382-XX-1XX-00-001000	8301-2	86	450-XX-2XX-00-006000	3404	47
383-XX-1XX-00-001000	8301-3	86	450-XX-2XX-00-106000	3404	51
388-XX-102-11-740799	8874	152	451-10-2XX-00-003000	5503	80
388-XX-102-11-740800	8874	152	451-10-2XX-00-004000	5504	80



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451-10-2XX-00-009000	5509	80	714-XX-XXX-31-018000	0552-2	77
451-10-2XX-00-010000	5510	80	714-XX-XXX-41-001000	1401	76
451-10-2XX-00-011000	5511	80	800-XX-0XX-10-001000	7007	54
453-10-2XX-00-001000	5301	87	800-XX-0XX-10-002000	5016	53
460-XX-2XX-00-001000	0282	85	800-XX-0XX-10-004000	3077	62
463-XX-2XX-00-001000	1106-3	87	800-XX-0XX-10-007000	1107	61
464-10-2XX-00-580000	6458	78	800-10-0XX-10-052000	5016	58
470-XX-2XX-00-001000	0700	85	800-XX-0XX-20-001000	5005	54
473-XX-2XX-00-001000	0730-3	87	800-10-0XX-20-201000	5005	64
480-10-2XX-00-001000	8000	48,85	800-10-0XX-30-001000	7007	59
480-10-0XX-00-002000	3080	47.1	800-10-0XX-30-052000	5016	58
483-XX-2XX-00-001000	8301-3	87	800-10-0XX-40-002000	1502	59.1
499-XX-2XX-10-003000	1103/1602	47	800-XX-0XX-61-001000	5601	56
499-10-2XX-10-007000	1958/1960	21.2	800-10-0XX-61-051000	5607	58
499-10-2XX-10-008000	1938/1940	21.1	800-XX-0XX-62-001000	5602	56
499-10-2XX-10-009000	5011/5113	47	801-XX-0XX-10-001000	1304	54
507-10-XXX-XX-XXX437	0737	140	801-XX-0XX-10-002000	1303	53
510-XX-XXX-XX-XXX00X	1001	138	801-XX-0XX-10-003000	1303	52
511-XX-XXX-XX-XXX00X	0134	138	801-XX-0XX-10-004000	1313	62
513-XX-XXX-XX-XXX085	1385	138	801-13-0XX-10-007000	1134	61
514-XX-XXX-XX-XXX034	1434	138	801-XX-0XX-10-012000	1303	53
515-XX-XXX-XX-XXX00X	0501	138	801-XX-0XX-10-013000	1303	52
518-XX-XXX-XX-XXX00X	180X	138	801-43-0XX-10-201000	1304	64
522-XX-XXX-XX-XXX00X	0089-2	138	801-43-0XX-10-212000	1303	64
523-XX-XXX-XX-XXX00X	0088-3	138	801-XX-0XX-20-001000	1305	54
540-10-XXX-XX-XXX448	4048	142	801-43-0XX-20-201000	1305	64
540-10-XXX-XX-XXX454	4054	142	801-43-0XX-30-001000	1304	59
540-10-XXX-XX-XXX498	4098	142	801-XX-0XX-40-002000	1303	59.1
540-44-XXX-17-40000X	N/A	145	801-XX-0XX-61-001000	4614	56
550-XX-XXX-XX-XXX012	5012	140	801-XX-0XX-62-001000	4615	56
551-XX-XXX-XX-XXX003	5503	140	802-XX-0XX-10-001000	7007	55
551-XX-XXX-XX-XXX004	5504	140	802-XX-0XX-10-002000	5016	53
551-XX-XXX-XX-XXX005	5505	140	802-XX-XXX-10-004000	3077	62
579-10-XXX-XX-XXX429	7929	142	802-XX-0XX-10-007000	1107	61
582-11-XXX-XX-XXX414	8214	142	802-10-0XX-10-052000	5016	58
587-10-XXX-XX-XXX437	8737	142	802-XX-0XX-20-001000	5005/5107	55
594-XX-020-01-007032	8857-X	133	802-10-0XX-30-001000	7007	59
599-11-XXX-XX-XXX428	9928	142	802-10-0XX-30-052000	5016	58
599-10-XXX-XX-XXX429	9929	142	802-XX-0XX-61-001000	5601	57
599-11-XXX-XX-XXX453	9953	142	802-10-0XX-61-051000	5607	58
599-XX-XXX-XX-XXX476	9976	140	802-XX-0XX-62-001000	5602	57
605-XX-XXX-11-480000	0548	114	803-XX-XXX-10-001000	1304	55
605-XX-XXX-XX-XXX048	0548	139	803-XX-0XX-10-002000	1303	53
612-XX-XXX-41-001000	0255	112	803-XX-0XX-10-003000	1303	52
612-XX-XXX-41-002000	8855	112	803-XX-XXX-10-004000	1313	62
612-XX-XXX-41-003000	0135	112	803-13-0XX-10-007000	1134	61
612-XX-XXX-41-004000	0132	112	803-XX-XXX-20-001000	1305/1306	55
614-XX-XXX-31-002000	0442	115	803-XX-XXX-30-001000	1304	59
614-XX-XXX-31-007000	1407	114	803-XX-XXX-61-001000	4614	57
614-XX-XXX-31-012000	0552-1	115	803-XX-XXX-62-001000	4615	57
614-XX-XXX-31-018000	0552-2	115	804-10-0XX-10-002000	5016	60
614-XX-XXX-41-001000	1401	113	805-43-0XX-10-012000	1303	60
614-XX-XXX-XX-XXX007	1407	139	807-22-001-10-00X101	0906-X	19.5
614-XX-XXX-XX-XXX012	0552-1	139	807-22-001-10-00X191	0906-X	19.5
614-XX-XXX-XX-XXX0XX	1401	139	807-22-001-10-02X101	0914-X	19.6
712-XX-XXX-41-001000	0255	75	807-22-001-30-00X101	0900-X	19.3
714-XX-XXX-31-007000	1407	76	807-22-001-30-00X191	0900-X	19.3



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807-22-001-30-01X101	0907-X	19.4	832-10-0XX-20-052000	3160/3161	45.1
807-22-001-30-01X191	0907-X	19.4	832-XX-XXX-30-001000	6218	44
808-10-040-10-151000	3501/3502/3503	58.2	832-10-0XX-30-003000	1949	22.2
809-43-040-10-001000	0405/8852/9324	58.2	832-10-0XX-30-003191	1949	22.2
810-22-0XX-40-001101	0916-0	10	832-10-0XX-30-004000	1950	22.2
810-22-0XX-40-005191	7966-0	10.1	832-10-0XX-30-004191	1950	22.2
811-22-0XX-30-00X101	0900-X	07	832-10-0XX-30-052000	3143	45.1
811-22-00X-30-00X191	0900-X	12	833-XX-XXX-10-001000	1802	43
812-22-0XX-30-00X101	0907-X	08	833-10-XXX-10-002000	1802	45.1
812-22-0XX-30-01X101	0907-X/0908-X	11	833-43-XXX-20-001000	1805/3805	45
812-22-00X-30-00X191	0907-X	12	833-XX-XXX-30-001000	1802	44
813-22-0XX-30-00X101	0900-X	07	834-XX-0XX-10-001000	3435	63
813-22-0XX-30-00X191	0900-X	12	835-XX-0XX-10-001000	3435	63
814-22-0XX-30-00X101	0907-X	08	835-XX-0XX-40-030001	3530	87.3
814-22-0XX-30-01X101	0907-X/0908-X	11	836-22-0XX-10-001101	7911-0	19.7
814-22-0XX-30-00X191	0907-X	12	836-22-0XX-30-001101	0911-0	19.2
815-22-0XX-30-001101	0965	06	836-22-0XX-30-001191	0911-0	19.2
815-22-0XX-30-001191	0965	06	837-22-0XX-30-001101	0919-0	9.1
816-22-0XX-10-00X101	0908-X	15	837-22-0XX-30-001191	0919-0	9.1
817-22-0XX-30-001101	0965	06	838-22-XXX-10-001101	7911-0	19.7
817-22-0XX-30-001191	0965	06	838-22-0XX-30-001101	0911-0	19.2
818-22-0XX-10-00X101	0908-X	15	838-22-0XX-30-001191	0911-0	19.2
819-22-0XX-30-001101	0913-0	09	839-22-XXX-30-001101	0919-0	9.1
819-22-0XX-30-001191	0913-0	12.1	839-22-XXX-30-001191	0919-0	9.1
820-22-0XX-30-001101	0913-0	09	850-XX-0XX-10-001000	4006-0	34
820-22-0XX-30-001191	0913-0	12.1	850-XX-0XX-10-003000	3050	35.1
821-22-0XX-10-00X101	0906-X	13	850-XX-0XX-20-001000	4006-1	36
823-22-0XX-10-00X101	0906-X	13	850-XX-0XX-20-003000	3050	35.1
824-22-0XX-00-001000	0933	17	850-XX-0XX-30-001000	4006-0	37
824-22-0XX-00-005000	0947	17.1	850-XX-0XX-30-002000	4006-0	37
825-22-0XX-10-00X101	0914	14	850-10-0XX-40-001000	4006-1	40
826-22-0XX-00-001000	0933	17	851-XX-0XX-10-001000	4890-0	34
826-22-0XX-00-005000	0947	17.1	851-XX-0XX-10-002000	0467	34
827-22-0XX-10-00X101	0914	14	851-XX-0XX-10-003000	1157	35.1
829-22-0XX-20-00X101	0929, 0970	16	851-XX-0XX-10-011000	4890-1	35
830-XX-0XX-10-001000	5012	43	851-XX-0XX-10-021000	4890-2	35
830-10-0XX-10-003000	1951	22.1	851-XX-0XX-20-001000	4890-1	36
830-10-0XX-10-004000	1952	22.1	851-XX-0XX-30-001000	4890-0	37
830-10-0XX-10-005000	3078-0	44.1	851-XX-0XX-30-002000	4890-0	37
830-XX-0XX-20-001000	3790	45	851-XX-0XX-40-001000	4890-1	40
830-10-0XX-20-005000	3078-1	44.1	852-XX-XXX-10-001000	4006-0	34
830-XX-0XX-30-001000	6218	44	852-XX-0XX-10-003000	3050	35.2
830-XX-0XX-30-002000	6218	44	852-XX-XXX-20-001000	4006-1/2	36
830-10-0XX-30-003000	1949	22.1	852-XX-XXX-30-001000	4006-0	37
830-10-0XX-30-003191	1949	22.1	853-XX-XXX-10-001000	4890-0	34
830-10-0XX-30-004000	1950	22.1	853-XX-0XX-10-003000	1157	35.2
830-10-0XX-30-004191	1950	22.1	853-XX-XXX-10-011000	4890-1	35
830-XX-0XX-40-028000	3028	59.1	853-XX-XXX-10-021000	4890-2	35
831-XX-0XX-10-001000	1802	43	853-XX-XXX-20-001000	4890-1/2	36
831-XX-0XX-20-001000	1805	45	853-XX-XXX-30-001000	4890-0	37
831-XX-0XX-30-001000	1802	44	854-22-0XX-10-001101	0950-0	18
831-XX-0XX-30-002000	1802	44	854-22-0XX-20-001101	0985-0	18.1
832-XX-XXX-10-001000	5012	43	854-22-0XX-20-601101	0985-0	18.1
832-10-0XX-10-003000	1951	22.2	854-22-0XX-30-001101	0951-0	19
832-10-0XX-10-004000	1952	22.2	854-22-0XX-40-001101	0985-0	18.2
832-10-0XX-10-005000	3078-0	44.1	854-22-0XX-40-601101	0985-0	18.2
832-10-0XX-10-052000	3143	45.1	855-22-0XX-10-001101	0950-0	18
832-XX-XXX-20-001000	3790/3796	45	855-22-0XX-30-001101	0951-0	19



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855-22-0XX-30-002191	0951-0	19.1	917-XX-XXX-41-005000	1705	136
856-10-0XX-10-002000	1934	21.4	940-44-XXX-17-40000X	N/A	143
856-10-0XX-10-051000	1933	22	940-44-XXX-24-000000	N/A	144
856-10-0XX-20-001000	1931	21.3	999-11-XXX-10-000000	N/A	152
856-10-0XX-20-002000	1831	21.3			
856-10-0XX-30-002000	1936	21.4			
856-10-0XX-30-051000	1935	22			
856-10-0XX-40-001000	1931	21.3			
856-10-0XX-40-002000	1831	21.3			
857-10-0XX-10-002000	1934	21.4			
857-10-0XX-10-051000	1933	22			
857-10-0XX-30-002000	1936	21.4			
857-10-0XX-30-051000	1935	22			
858-10-0XX-10-001000	1969	19.76			
858-10-0XX-10-002000	1969-1	19.77			
858-10-0XX-10-011000	1969	19.76			
858-10-0XX-10-012000	1969-1	19.77			
858-10-0XX-30-001000	1959	19.76			
858-10-0XX-30-002000	1959-1	19.77			
858-10-0XX-30-011000	1959	19.76			
858-10-0XX-30-012000	1959-1	19.77			
858-10-0XX-30-601000	1959	19.76			
858-10-0XX-30-602000	1959-1	19.77			
858-10-0XX-30-611000	1959	19.76			
858-10-0XX-30-612000	1959-1	19.77			
860-10-0XX-10-002000	3039	33			
860-10-0XX-30-002000	3039	33.1			
861-13-0XX-10-002000	0439	33			
861-13-0XX-30-002000	0439	33.1			
862-XX-121-00-180000	6218	127			
862-10-121-30-180000	6218	128			
868-10-0XX-00-001000	1968	19.78			
868-10-0XX-00-002000	1968-1	19.79			
868-10-0XX-00-011000	1968	19.78			
868-10-0XX-00-012000	1968-1	19.79			
868-22-0XX-00-001101	0868	19.78			
868-22-0XX-00-011101	0868	19.78			
870-10-0XX-20-001000	3790	42			
871-XX-0XX-20-001000	1805	42			
888-30-005-20-002000	5065/5066	58.1			
888-93-005-00-001000	5070/5084	58.1			
891-10-064-30-120000	N/A	32			
893-43-064-30-420000	N/A	32			
896-43-004-00-000000	N/A	148			
896-43-004-90-000000	N/A	148			
896-43-005-40-100001	N/A	150			
896-43-008-90-000000	N/A	148			
896-46-009-90-300000	N/A	147			
897-43-004-90-000000	N/A	148			
897-43-005-00-100001	N/A	150			
897-46-009-90-300000	N/A	147			
897-10-010-00-300002	N/A	149			
897-10-010-40-300002	N/A	149			
898-43-024-00-310002	N/A	149.3			
898-43-024-90-310000	N/A	149.1			
898-73-024-90-310001	N/A	149.2			
917-XX-XXX-41-001000	1701	136			
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0040	198	0314	183	0383	201	0553	157	0873	28	1031	198, 226
0066	198	0315	214	0384	197	0554	157	0878	28	1032	198, 226
0067	198	0316	183	0385	170	0555	163	0900	23	1033	164
0068	198	0317	183	0387	192	0556	166	0901	25	1034	198
0086	198	0318	226	0388	194	0558	163	0903	167	1035	198
0088	198	0319	181	0389	194	0560	160	0904	167	1036	198
0089	198	0321	197	0390	194	0566	157	0905	23	1038	167
0132	165	0322	182	0391	192	0569	158	0906	25	1040	198
0133	165	0323	182	0393	192	0574	161	0907	23	1045	198
0134	165	0324	182	0394	192	0577	196	0908	25	1047	199
0135	165	0325	182	0395	193	0579	159	0910	26	1052	201
0136	166	0326	174	0396	174	0600	215	0911	24	1053	201
0137	166	0327	183	0397	173	0613	159	0912	244	1064	228
0138	166	0328	183	0398	173	0616	192	0913	23	1065	163
0139	166	0329	184	0399	177	0660	163	0914	25	1066	163
0141	166	0330	177	0400	179	0664	174	0915	211	1067	211
0145	166	0331	181	0401	180	0665	163	0919	23.1	1068	228
0146	166	0332	197	0405	182	0666	164	0921	24	1070	228
0147	165	0333	183	0407	175	0667	163	0922	27	1071	228
0148	166	0334	183	0415	175	0668	164	0925	23	1072	228
0149	162	0335	179	0433	188	0669	164	0926	24	1083	227
0152	166	0336	182	0434	188	0670	164	0927	23	1090	227
0153	167	0337	197	0435	188	0671	161	0928	23	1092	228
0156	165	0338	172	0436	188	0672	168	0929	25	1093	228
0240	168	0339	172	0439	156	0673	164	0930	25	1094	225
0252	164	0340	183	0442	157	0675	163	0932	25	1095	226
0253	164	0341	164	0444	199	0676	164	0933	27	1096	228
0255	165	0342	188	0445	199	0677	163	0934	23	1097	226
0257	211	0343	184	0447	166	0678	164	0936	23	1103	166
0259	218	0344	182	0461	158	0679	163	0937	27	1104	168
0265	216	0345	183	0462	160	0680	162	0940	219	1105	190
0270	216	0347	184	0463	160	0682	163	0947	27	1106	228
0272	216	0348	182	0464	156	0697	164	0952	211	1107	216
0273	175	0349	182	0466	160	0700	216	0956	27	1109	165
0275	216	0350	193	0467	158	0703	161	0959	24	1110	225
0279	177	0351	183	0468	161	0707	161	0962	27	1122	228
0280	200	0353	197	0477	162	0712	194	0964	23.1	1124	225
0281	200	0354	187	0478	162	0714	193	0965	24	1130	210
0282	216	0355	187	0479	197	0716	191	0967	23.1	1134	177
0284	175	0356	184	0489	160	0720	185	0973	27	1140	223.3
0285	175	0357	183	0490	192	0722	180	0977	24	1147	159
0286	218	0358	184	0491	192	0730	228	0978	27	1160	223.3
0287	175	0359	184	0492	189	0739	185	0980	24	1178	223.3
0290	215	0360	184	0493	192	0740	185	0985	27	1179	207
0291	175	0362	189	0496	190	0760	191	0990	26	1210	225
0292	173	0363	189	0498	168	0778	193	0995	221	1212	226
0293	175	0364	189	0501	162	0814	184	0997	26	1213	226
0294	173	0365	189	0504	212	0850	28	1001	165	1214	226
0295	173	0366	189	0505	212	0851	28	1005	166	1215	225
0297	173	0367	189	0507	171.1	0852	28.1	1010	225	1216	226
0298	174	0368	190	0512	161	0853	28	1011	225	1221	225
0300	177	0370	192	0520	223	0854	28	1012	225	1222	225
0301	177	0372	189	0522	211	0855	28	1013	166	1261	167
0303	175	0373	183	0529	156	0856	28	1020	225	1267	210
0305	177	0375	197	0531	171.1	0858	28	1021	225	1302	226
0306	175	0376	197	0542	211	0859	28	1022	225	1303	180
0307	168	0378	172	0548	157	0861	28.1	1023	171	1304	177



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1306	179	1959	223.5	2503	233	3006	208	3152	223	3730	207.2
1313	181	1960	223.2	2505	232	3013	165	3153	221	3740	207.2
1334	171	1968	223.5	2506	232	3016	157	3154	211	3760	207.2
1385	170	1969	223.5	2507	241	3018	170	3155	209	3780	207.2
1401	170	1980	207	2508	234	3024	218	3156	246	3790	209
1407	157	2086	158	2510	230	3039	208	3157	211	3796	209
1434	162	2101	231	2511	242	3044	189	3158	211	3802	169
1502	224	2102	229	2512	236	3050	245	3159	222	3805	169
1508	224	2103	238	2513	230	3061	159	3169	223.3	3808	187
1534	161	2104	238	2514	245	3077	215	3180	244	3907	170
1559	22.3	2105	238	2515	242	3078	223.5	3185	170	3912	223.6
1578	22.3	2106	238	2516	242	3080	244	3210	210	3914	223.6
1602	167	2107	238	2517	239	3100	185	3221	221	3916	223.6
1610	167	2108	229	2520	239	3101	221	3222	221	3920	223.6
1655	223.8	2109	229	2524	234	3102	221	3223	221	3922	223.6
1701	171	2110	231	2526	241	3103	221	3230	222	3975	223.7
1702	198	2111	229	2530	246	3104	221	3231	223	3977	223.7
1703	198	2112	238	2533	231	3105	221	3232	222	4001	170
1705	168	2113	229	2551	234	3106	221	3233	223	4006	208
1706	168	2115	244	2561	234	3110	220	3301	219	4011	165
1707	168	2297	200	2601	199	3111	220	3302	219	4014	180
1752	213	2301	232	2602	199	3112	217	3303	219	4015	196
1753	168	2302	241	2603	199	3113	219	3304	219	4030	169
1762	168	2303	239	2617	213	3114	217	3320	207.1	4034	189
1782	170	2304	233	2650	205	3115	217	3325	207.1	4040	192
1801	165	2305	233	2701	243	3116	210	3330	207.1	4064	188
1802	169	2306	233	2702	235	3117	217	3340	207.1	4068	204
1803	169	2307	233	2703	235	3118	217	3400	215	4071	205
1804	169	2308	230	2704	233	3119	217	3401	215	4078	167
1805	169	2309	245	2705	236	3120	221	3402	215	4095	180
1806	169	2310	232	2706	246	3121	208	3404	212	4119	180
1807	169	2311	233	2707	230	3122	221	3405	215	4130	185
1808	169	2312	230	2708	231	3123	221	3406	214	4184	204
1831	223.2	2313	246	2709	244	3124	221	3408	216	4194	209
1873	176	2314	242	2710	235	3125	221	3409	214	4209	205
1931	223.2	2315	241	2713	235	3126	221	3410	215	4219	223.8
1933	223.2	2316	231	2715	243	3128	208	3411	215	4259	212
1934	223.2	2317	231	2717	235	3129	210	3413	213	4268	206
1935	223.2	2318	245	2762	243	3130	219	3435	197	4275	223.3
1936	223.2	2319	246	2801	237	3131	217	3450	181	4280	197
1938	218	2320	239	2802	237	3132	220	3490	187	4286	163
1940	218	2321	246	2803	236	3133	223	3501	213	4288	204
1941	218	2322	239	2804	237	3134	219	3502	213	4310	170
1942	218	2323	239	2805	237	3135	210	3503	213	4314	181.1
1943	223.1	2324	229	2806	237	3136	220	3516	212	4353	204
1944	223.1	2325	232	2807	243	3137	220	3520	181	4357	223.3
1945	223.1	2326	244	2808	243	3138	223	3530	162.1	4361	204
1946	223.1	2328	239	2809	243	3139	217	3560	207.1	4366	210
1947	223.1	2329	230	2810	234	3140	221	3580	207.1	4378	166
1948	223.1	2333	231	2811	237	3141	221	3601	223	4401	181.1
1949	223.1	2348	232	2812	234	3142	222	3602	217	4427	223.7
1950	223.1	2352	241	2815	236	3144	223	3603	217	4428	196
1951	223.1	2355	232	2816	236	3145	222	3609	223	4477	206
1952	223.1	2362	241	2817	236	3146	222	3620	219	4485	160
1953	223.2	2365	232	2820	207	3147	210	3621	219	4516	212
1954	223.2	2381	207	2821	231	3148	220	3622	243	4526	221
1955	223.2	2400	179	2954	171	3149	221	3667	190	4541	207
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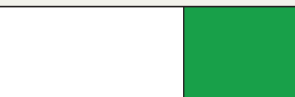







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4613	162	5602	220	7912	244	8862	171	9353	181		
4614	179	5607	213	7913	23.1	8864	174	9354	181		
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4639	223.3	5739	161	8000	216	8876	218	9363	171		
4658	223.3	5834	190	8006	216	8877	171	9372	190		
4689	204	5920	223.4	8016	193	8885	208	9393	179		
4716	158.1	5960	170	8067	190	8894	161	9401	190		
4717	223.3	5970	162	8086	207	8898	166	9407	159		
4728	169	6002	172	8114	175	8919	215	9462	159		
4825	204	6021	176	8131	168	8940	211	9548	157		
4890	160	6023	158	8206	185	8947	156	9553	159		
4900	191	6025	223.4	8210	156	8952	222	9801	190		
4956	218	6035	223.4	8237	223.4	8953	222	9808	176		
4964	205	6092	206	8252	167	8954	222	9837	193		
4965	205	6095	206	8257	205	8955	222	9872	207		
4993	156	6142	207	8300	177	8963	194	9900	161.1		
4994	160	6192	159	8301	227	8964	171	9970	162		
5005	215	6214	158	8303	180	8969	209	9976	216		
5011	214	6218	208	8330	206	8975	157				
5012	208	6252	169	8331	181	8979	209				
5016	215	6342	188	8347	191	8994	193				
5035	205	6368	180	8360	184	8995	213				
5059	184	6401	180	8363	169	8996	191				
5062	206	6430	218	8365	191	9000	211				
5063	205	6435	210	8369	185.1	9003	223.7				
5065	213	6458	213	8401	179	9016	192				
5066	224	6464	156	8404	213	9019	173				
5070	176	6477	206	8427	162	9022	207				
5084	185	6527	207.1	8433	188	9036	209				
5102	224	6547	205	8445	167	9039	173				
5107	215	6553	158.1	8451	206	9050	204				
5113	214	6561	160.1	8467	159	9051	209				
5137	204	6585	212	8553	157	9061	223.8				
5155	209	6628	181	8579	158	9064	191				
5200	172	6659	184	8600	222	9075	213				
5231	224	6800	185	8602	244	9081	208				
5240	205	6821	220	8608	227	9083	204				
5275	225	6834	223.4	8637	157	9086	206				
5280	197	6835	223.4	8679	176	9092	224				
5295	174	6839	180	8685	209	9101	176				
5301	227	6857	179	8730	190	9103	223.3				
5342	171	6955	223.7	8731	185	9113	204				
5359	196	7007	215	8806	180	9137	204				
5391	193	7009	172	8808	205	9159	209				
5435	210	7065	163	8815	220	9177	193				
5459	223.8	7132	167	8827	176	9184	187				
5493	194	7305	179	8829	190	9185	205				
5503	214	7310	224	8830	169	9214	192				
5504	214	7405	181	8831	244	9218	213				
5505	214	7406	181	8835	244	9222	187				
5509	214	7491	160	8836	244	9225	156				
5510	212	7504	223.7	8837	193	9228	206				
5511	212	7520	175	8838	185	9234	166				
5522	158	7553	159	8852	170	9242	223.3				
5531	159	7614	179	8853	185	9265	207				
5552	160	7620	176	8855	171	9280	191				



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Vertical SMT 	Pages 6, 7, 8, 9, 9.1, 11, 12, 12.1, 19, 19.1, 19.2, 19.3, 19.4, 19.75, 19.76, 19.77, 19.8, 20, 20.1, 20.2, 21, 21.1, 21.2, 21.4, 22, 22.1, 22.2, 22.3	Pages 32, 33.1, 37, 41, 44, 45.1, 49, 51, 58, 59	Pages 104, 105, 106, 107, 108, 124, 126, 128, 136, 138, 140, 142, 143, 145	Pages 149, 149.3, 152
Horizontal SMT 	Page 10, 18.2, 21.3, 22.4	Pages 38, 39, 40, 50, 50.1, 59.1, 87.3, 87.4	Page 133	Pages 148, 149, 149.1, 149.2, 150
Compliant Tail 	N/A	Pages 56, 57, 58, 73, 74	Page 97	N/A
Right Angle 	Pages 16, 18.1, 20.1, 20.2, 21, 21.1, 21.2, 21.3	Pages 36, 42, 45, 45.1, 46, 47, 54, 55, 64	Pages 129, 133	Page 151
Soldercup 	Pages 17, 17.1, 19.78, 19.79, 20, 21	Pages 35.1, 47.1, 47.2, 48, 58.1, 61, 84, 85, 86, 87, 87.1	Page 119	N/A
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CATEGORIES	SPRING-LOADED PINS	PIN RECEPTACLES (Pin Acceptance Range)				MALE PCB PINS
		.008-.025	.026-.040	.041-.064	.065-.102	
Vertical SMT 	Pages 23, 23.1, 24, 26 27, 28	Pages 159, 167	N/A	Page 187	N/A	Pages 207, 216, 218, 223.1, 223.2, 223.5, 224
Horizontal SMT 	Page 23.1, 26	Pages 161, 162.1, 170	Pages 180, 181, 185	Page 187, 188	N/A	Page 224
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Crimp Barrel 	Pages 27, 28	Pages 159, 168, 172	Pages 172, 174, 175, 180, 181.1, 182, 185	Pages 182, 190	Pages 190, 192, 194	Pages 216, 217, 218, 223, 223.6
Turret 	N/A	Page 168	Pages 174, 175, 182, 184	Pages 182, 187, 190	Pages 190, 193, 194	Pages 216, 226, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 245, 246
Slotted 	N/A	N/A	Page 182	N/A	N/A	Pages 216, 219, 224, 228, 238, 239, 241, 242, 243
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