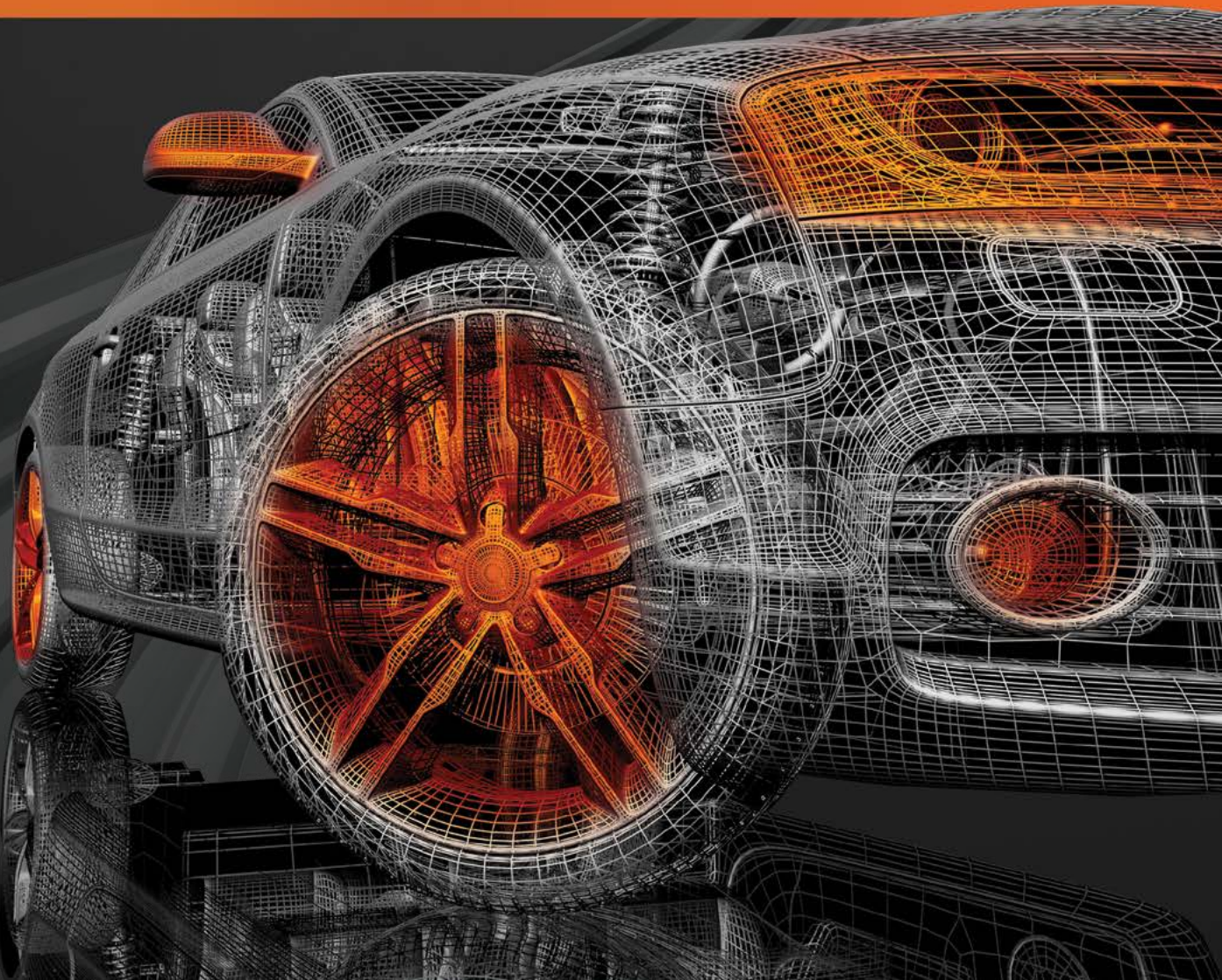




AUTOMOTIVE SOLUTIONS

INTERCONNECT CAPABILITIES CATALOG 2016

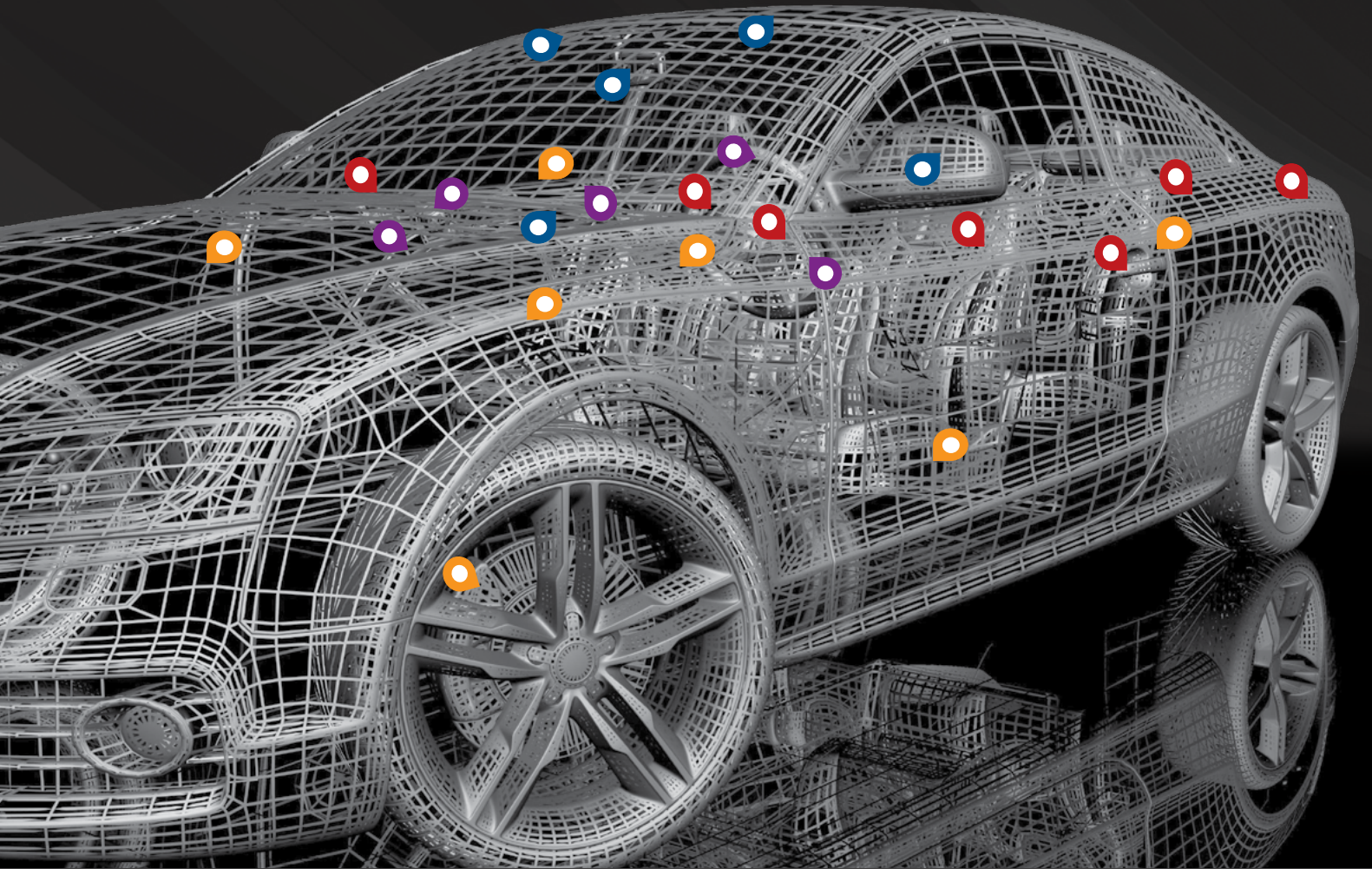


PRODUCTS & EXPERTISE

Samtec earned its ISO / TS 16949 certification in 2006 and has assembled a team of experts and systems designed specifically to support the unique challenges of automotive applications requiring interconnect solutions. Samtec's automotive scope includes:

- design and manufacturing of electronic connectors marketed as "ACD Series" (Automotive Certified Designs) for PCBs
- IMDS registered (International Material Data System) ACD Series connectors
- a wide range of products suitable for prototype and test equipment applications

With global manufacturing facilities, an extensive line of proven interconnect solutions, and full custom product development capabilities, Samtec is well positioned to support the interconnect needs of many automotive applications. For more information regarding ACD Series certification, or to discuss your specific automotive application, please email AutosSalesGroup@samtec.com.



DIS/AUDIO
(Driver Information Systems)



INTERIOR



CONTROL MODULES



SAFETY

Navigation and Tracking
Radar Controlled Cruise Control
GPS
Satellite Radio
Entertainment Systems
Heads-up Display System

Power Windows and Seats
Sunroof, Moonroof Controls
Day / Night Mirrors
Interior Lighting
Night Vision System
Climate Control

Instrument Panel and Cockpit
Steering Modules
Brake Modules
Engine Control Systems
Power Door Locks
Automatic Transmission (Tiptronic)

Warning Sensors
Emergency Communication
Anti-theft Systems
Safety Trunk Release
Hands Free Systems
Airbag Release Systems

Products must be certified as "ACD Series" in order to meet TS 16949 standards for automotive applications. Most Samtec products are suitable for prototype and test equipment applications. Please visit www.samtec.com/TS for complete details.

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INTERCONNECT SOLUTIONS

p 8 ULTRA MICRO INTERCONNECTS

- Razor Beam™ LP low profile high speed connectors on 0.40 mm pitch
- Razor Beam™ slim body connectors on 0.50 mm pitch for increased PCB space savings
- Razor Beam™ hermaphroditic connectors on 0.50 mm and 0.635 mm pitch

p 14 EDGE RATE® CONTACT SYSTEMS

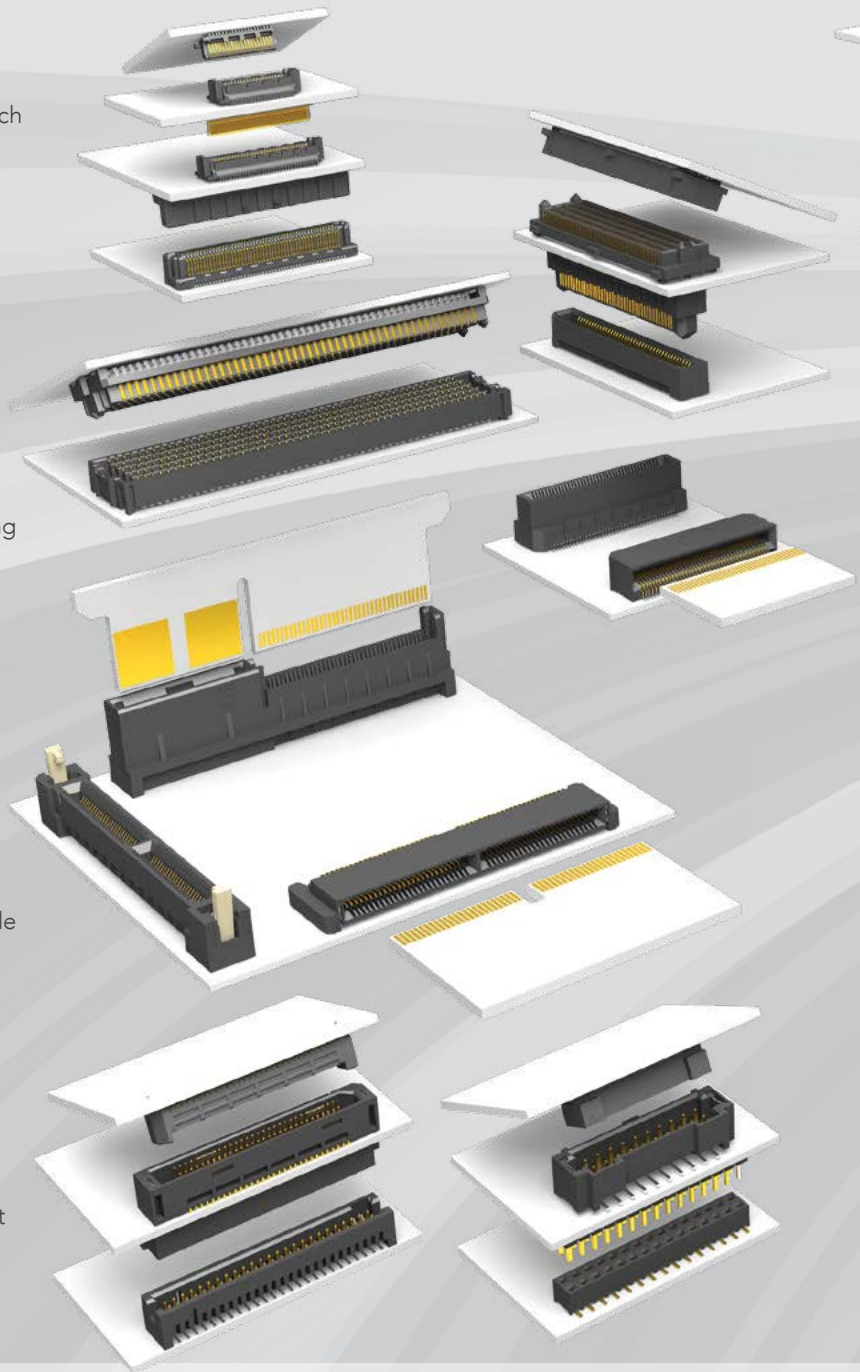
- Rugged Edge Rate® contact system is optimized for Signal Integrity performance and less prone to damage when "zippered" to unmate
- Edge Rate® 28+ Gbps rugged connectors with 1.50 mm contact wipe on 0.80 mm pitch
- SEARAY™ open pin field arrays on a 1.27 mm x 1.27 mm (.050" x .050") grid for maximum grounding and routing flexibility; up to 500 I/Os
- SEARAY™ 0.80 mm pitch ultra high density arrays provide up to 50% board space savings

p 20 HIGH SPEED EDGE CARD SYSTEMS

- 0.80 mm and 1.00 mm pitch for 1.60 mm and 2.40 mm mating PCBs
- High speed, high density interconnects with up to 200 total pins
- Vertical, right angle and edge mount terminations
- High speed edge card / power combo also available
- Ruggedizing latches and weld tabs

p 24 TIGER EYE™ CONTACT SYSTEMS

- High reliability multi-finger, BeCu contact system for rugged environments and high cycle applications
- 0.80 mm, 1.27 mm and 2.00 mm pitch systems
- Optional ruggedizing features, including alignment pins, weld tabs and screw downs
- Vertical and right angle for parallel, perpendicular or coplanar applications

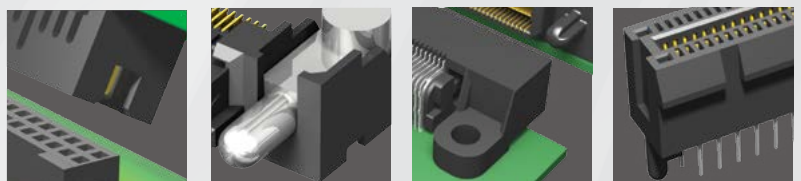


CONTACT FLEXIBILITY

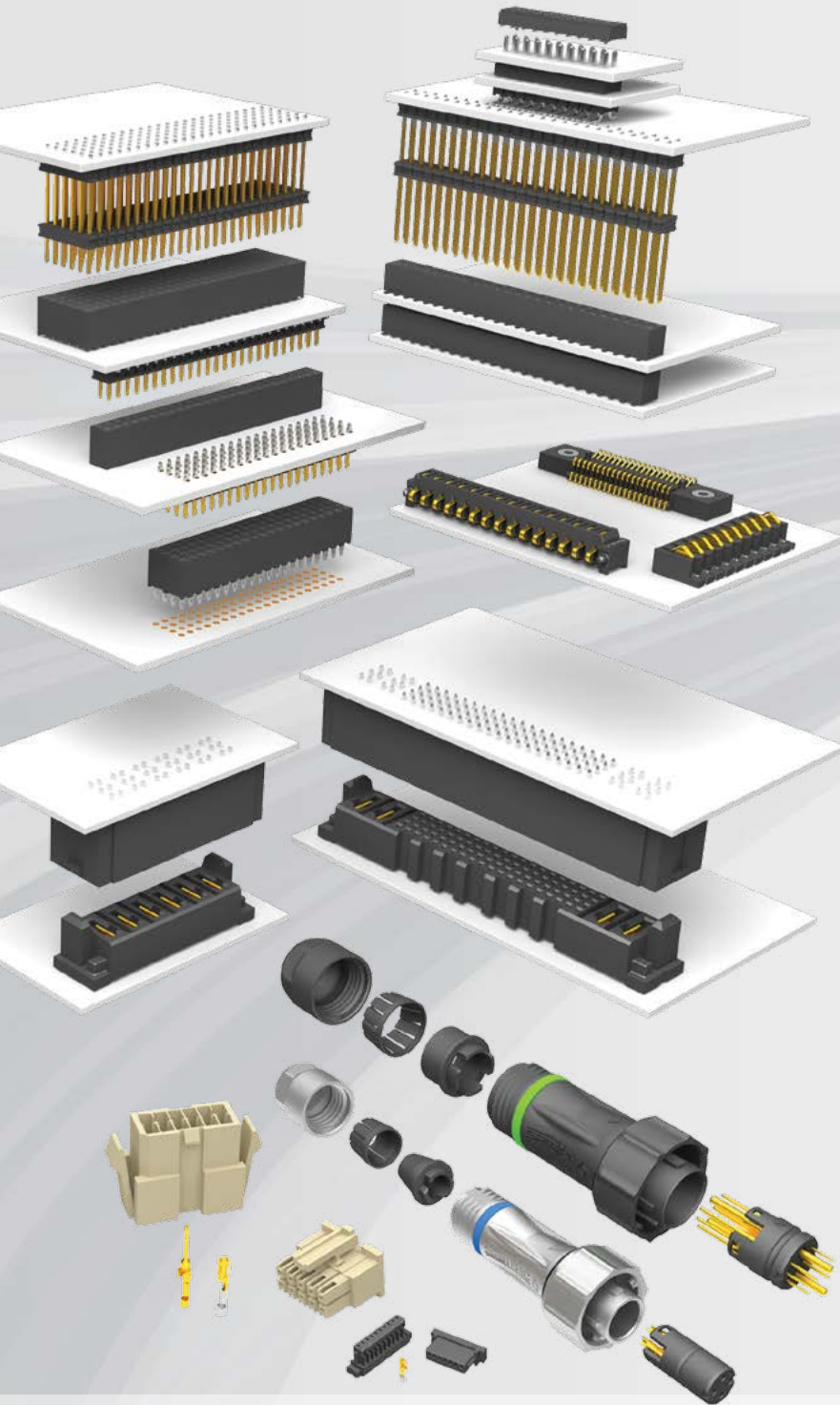


Tiger Claw™ Pass-Through Tiger Eye™ High Reliability Tiger Buy™ High Retention Power Eye™ High Current

RUGGED FEATURES



Friction Locks Guide Posts Screw Downs Alignment Pins



p 38 FLEXIBLE STACKING SYSTEMS

- 0.80 mm to 3.96 mm pitch systems
- Pass-through contacts to connect multiple boards
- Up to six rows with up to 50 pins per row
- Low profile and skyscraper solutions
- Contact flexibility

p 71 ONE PIECE & FLOATING CONTACT SYSTEMS

- Profiles up to 10 mm
- Robust design and mechanical hold-downs for high shock and vibration applications
- 1.00 mm and .100" (2.54 mm) pitch designs
- Vertical and right angle applications
- High speed floating contact system provides 0.50 mm of float in the X and Y directions

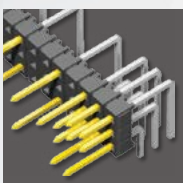
p 75 POWER & DISCRETE WIRE COMPONENTS

- 1.00 mm pitch discrete wire cable system components with crimp-style dual leaf contact system; up to 20 I/Os
- Mini Mate® .100" (2.54 mm) pitch rugged shrouded discrete wire system components
- PowerStrip™ /30 terminals and sockets on 5.00 mm pitch; available with power pins or power / signal combinations; up to 30 A per power blade
- 1.56" pitch high current Power Eye contact headers, sockets and stackers

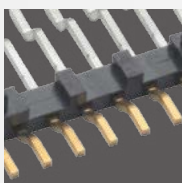
p 83 ACCLIMATE™ IP68 SEALED CIRCULAR SYSTEMS

- Kitted components (Field Termination Kits) provide for efficient field assembly
- Choice of 12 mm (up to 5 A) or 16 mm (up to 11.6 A) metal or plastic shells
- Terminals and sockets with 0.50 mm or 1.00 mm diameter pins
- Insertion tools and dust caps available

CUSTOM SOLUTIONS



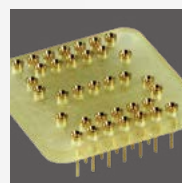
Pin Modifications



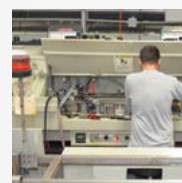
Body Modifications



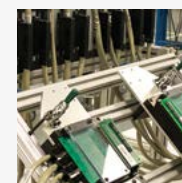
Custom Connectors



Prototyping



Special Platings



Inline Testing



Qualification Testing

SUDDEN SERVICE® ADVANTAGE

Samtec's Sudden Service® provides unmatched global service, free access to data and industry leading tools, along with unparalleled engineering support to help you design, develop, test and deliver the best solution for any complex application.

LEAD TIMES - TYPICALLY DAYS, NOT WEEKS

- 24 hour free "Sudden Samples"
- World Direct Shipping - 2 days to all major markets
- Most products ship in 3 days
- Dual operations - speed & cost optimized

SUPPLY CHAIN SUPPORT - THE SERVICE & TECHNOLOGY LEADER

- My Samtec online real-time account access
- Scheduling flexibility with pull-ins / push-outs
- Global pricing / global systems
- Personal account managers and CSRs
- 24 hour quotes – upfront and aggressive
- No MOQs on catalog products

ONLINE TOOLS - DESIGN IN A MINUTE

- Simulator™ real-time performance calculator
- Solutionator® mated connector set generator
- Easy-to-navigate picture search
- Part number and series search
- Free downloads: models, prints, test reports

TECH SUPPORT - 24/7 WORLDWIDE ACCESS

- Teraspeed® SI Consulting Services (inquire@teraspeed.com)
- Signal Integrity Group (SIG@samtec.com)
- Application Engineering Groups (ASP@samtec.com)
- Interconnect Processing Group (IPG@samtec.com)



SAMTEC.COM
Industry-leading Online Tools



- Sales
- Manufacturing
- Support

CERTIFICATIONS

Samtec is TS 16949, ISO 14001, and ISO 9001 certified, and is fully integrated with in-house tooling, plating and automated manufacturing capabilities that provide for advanced development, low-cost, quick-turn and high volume production. In addition, Samtec is compliant with International Traffic and Arms Regulations (ITAR) and with EU WEEE and RoHS directives.

<p>TS 16949 CERTIFIED</p>	<p>ISO 14001 CERTIFIED</p>	<p>ISO 9001 CERTIFIED</p>	<p>IMDS COMPLIANT</p>	<p>RoHS COMPLIANT LEAD FREE</p>	<p>REACH COMPLIANT</p>
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Please visit samtec.com/quality for additional certification information.



(0.40 mm) .0158"

A-ST4 SERIES

ULTRA FINE PITCH HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-ST4

Insulator Material:

Black LCP

Contact Material:

Phosphor Bronze

Plating:

Au or Sn over 50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C

Current Rating:

1.6 A per pin (1 pin powered per row)

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

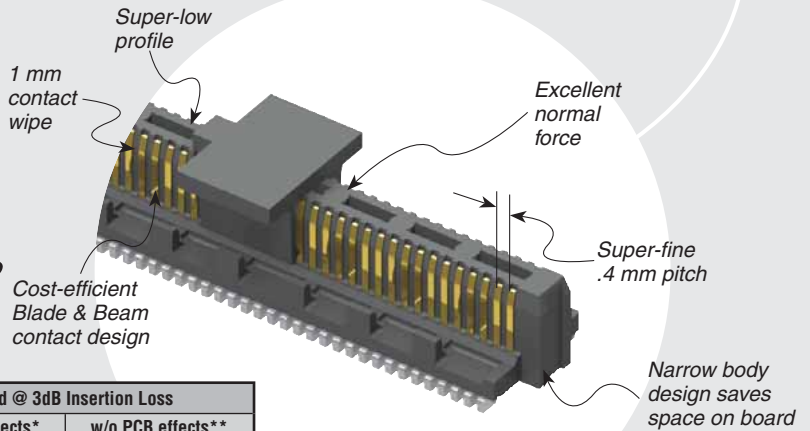
Yes

SMT Lead Coplanarity:

(0.10 mm) .004" max

Mates with:

A-SS4



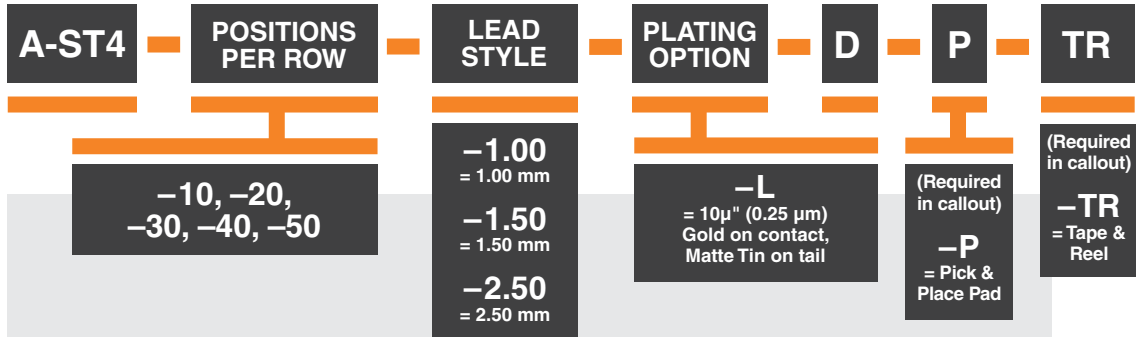
A-SS4/A-ST4 4 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	7.0 GHz / 14 Gbps	13.5 GHz / 27 Gbps
Differential Pair Signaling	4.5 GHz / 9 Gbps	15.5 GHz / 31 Gbps

*Performance data includes effects of a non-optimized PCB.
 **Test board losses de-embedded from performance data.
 Performance data for other stack heights and complete test data available at www.samtec.com?A-ST4 or contact sig@samtec.com

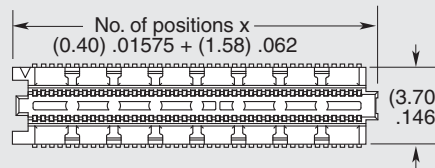
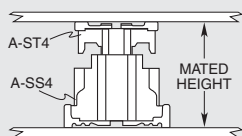


RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



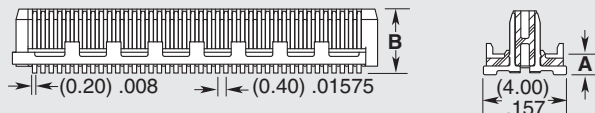
MATED HEIGHT



LEAD STYLE	A	B
-1.00	(1.00) .039	(3.08) .121
-1.50	(1.50) .059	(3.58) .141
-2.50	(2.50) .098	(4.58) .180

A-ST4 LEAD STYLE	A-SS4 LEAD STYLE	
	-3.00	-3.50
-1.00	(4.00) .157	(4.50) .177
-1.50	(4.50) .177	(5.00) .197
-2.50	(5.50) .217	(6.00) .236

*Processing conditions will affect mated height.



Note: Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.



A-SS4-40-3.00-L-D-K-TR

A-SS4-10-3.00-L-D-K-TR

A-SS4-30-3.00-L-D-K-TR

A-SS4-20-3.00-L-D-K-TR

A-SS4 SERIES

(0.40 mm) .0158"

ULTRA FINE PITCH SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SS4

Insulator Material:

Black LCP

Contact Material:

Phosphor Bronze

Plating:

Au or Sn over

50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C

Current Rating:

1.6 A per pin

(1 pin powered per row)

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

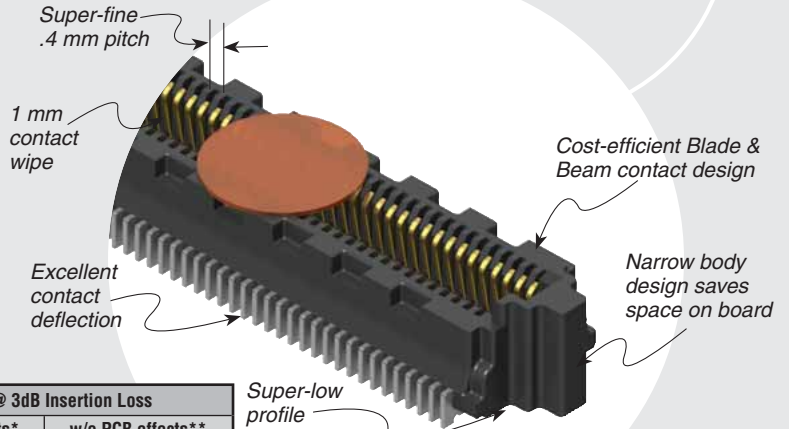
Yes

SMT Lead Coplanarity:

(0.10 mm) .004" max

Mates with:

A-ST4



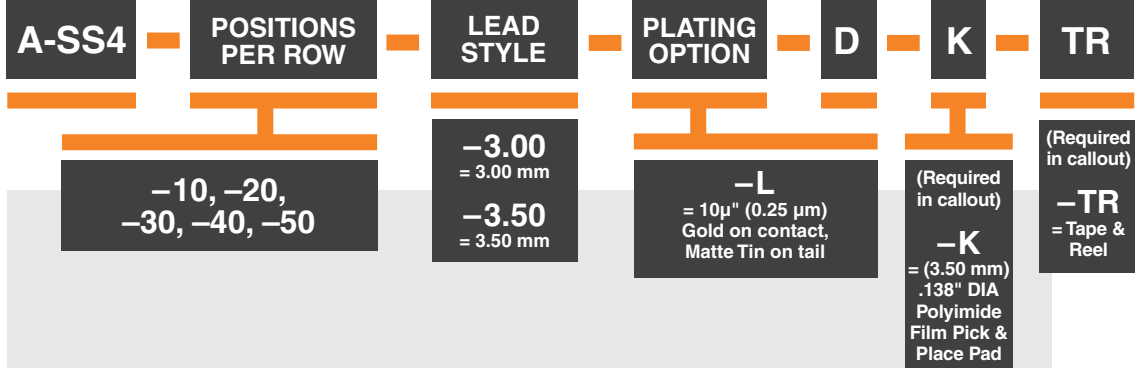
A-SS4/A-ST4 4 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	7.0 GHz / 14 Gbps	13.5 GHz / 27 Gbps
Differential Pair Signaling	4.5 GHz / 9 Gbps	15.5 GHz / 31 Gbps

*Performance data includes effects of a non-optimized PCB.
 **Test board losses de-embedded from performance data.
 Performance data for other stack heights and complete test data available at www.samtec.com?A-SS4 or contact sig@samtec.com

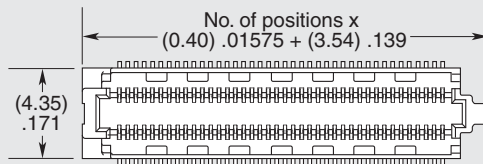
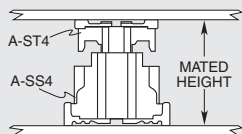
Final Inch CERTIFIED | **28+** Gbps

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



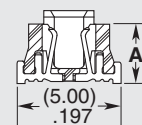
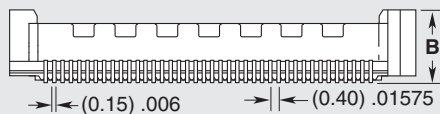
MATED HEIGHT



LEAD STYLE	A	B
-3.00	(2.85) .112	(3.50) .138
-3.50	(3.35) .132	(4.00) .157

MATED HEIGHT*			
A-SS4 LEAD STYLE	A-ST4 LEAD STYLE		
	-1.00	-1.50	-2.50
-3.00	(4.00) .157	(4.50) .177	(5.50) .217
-3.50	(4.50) .177	(5.00) .197	(6.00) .236

*Processing conditions will affect mated height.



Note: Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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A-ST5-20-1.50-L-D-P-TR

A-ST5-20-1.00-L-D-P-TR

A-ST5-10-1.00-L-D-P-TR

A-ST5 SERIES

(0.50 mm) .0197"

ULTRA FINE PITCH HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-ST5

Insulator Material:

Black LCP

Contact Material:

Phosphor Bronze

Plating:

Au or Sn over 50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C

Current Rating:

1.5 A per pin (1 pin powered per row)

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

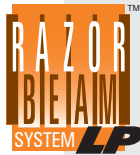
Yes

SMT Lead Coplanarity:

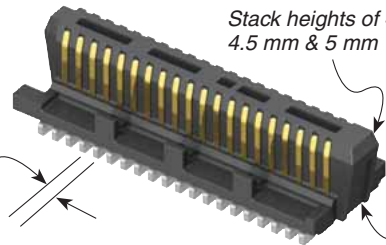
(0.10 mm) .004" max

Mates with:

A-SS5



Ultra-fine
(0.50 mm)
.0197" pitch



Stack heights of 4 mm,
4.5 mm & 5 mm

Narrow body
design saves
space on board

28+
Gbps

A-SS5/A-ST5 5 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	13.5 GHz / 27 Gbps
Differential Pair Signaling	20 GHz / 40 Gbps

*Test board losses de-embedded from performance data.
Performance data for other stack heights and complete test data available at www.samtec.com?A-ST5 or contact sig@samtec.com

ALSO AVAILABLE (MOQ Required)

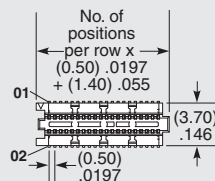
- Other lead styles

Contact autosalesgroup@samtec.com

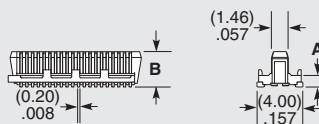
A-ST5	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	D	P	TR
	-10, -15, -20, -30, -40, -50, -60, -70, -80 (Per Row)	-1.00 = 1.00 mm -1.50 = 1.50 mm	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail	(Required in callout)	-P = Pick & Place Pad	(Required in callout) -TR = Tape & Reel

MATED HEIGHT*		
A-ST5 LEAD STYLE	A-SS5 LEAD STYLE	
	-3.00	-3.50
-1.00	(4.00) .157	(4.50) .177
-1.50	(4.50) .177	(5.00) .197

*Processing conditions will affect mated height.



LEAD STYLE	A	B
-1.00	(1.00) .039	(3.08) .121
-1.50	(1.50) .059	(3.58) .141

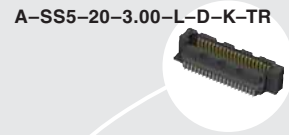
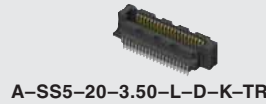


Note: Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

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A-SS5 SERIES

(0.50 mm) .0197"

ULTRA FINE PITCH SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SS5

Insulator Material:

Black LCP

Contact Material:

Phosphor Bronze

Plating:

Au or Sn over 50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C

Current Rating:

1.5 A per pin (1 pin powered per row)

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

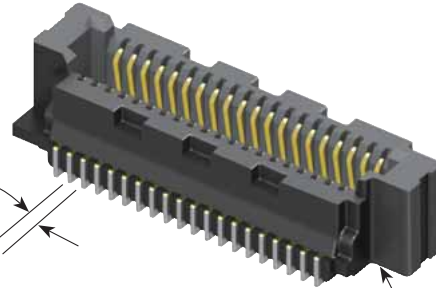
SMT Lead Coplanarity:

(0.10 mm) .004" max

Mates with:
A-ST5



Ultra-fine
(0.50 mm)
.0197" pitch



Stack heights of 4 mm,
4.5 mm & 5 mm

Narrow body
design saves
space on board

A-SS5/A-ST5 5 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	13.5 GHz / 27 Gbps
Differential Pair Signaling	20 GHz / 40 Gbps

*Test board losses de-embedded from performance data.
Performance data for other stack heights and complete test data available at www.samtec.com?A-SS5 or contact sig@samtec.com

28+
G b p s

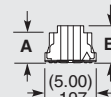
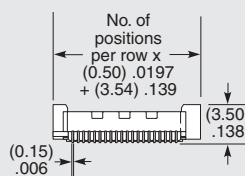
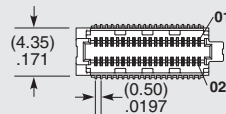
ALSO AVAILABLE (MOQ Required)

- Other lead styles
- Contact autosalesgroup@samtec.com

A-SS5	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	D	K	TR
	-10, -15, -20, -30, -40, -50, -60, -70, -80 (Per Row)	-3.00 = 3.00 mm -3.50 = 3.50 mm	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail	(Required in callout)	-K = (3.50 mm) .138" DIA Polyimide Film Pick & Place Pad	(Required in callout) -TR = Tape & Reel

MATED HEIGHT*		
A-ST5 LEAD STYLE	A-SS5 LEAD STYLE	
	-3.00	-3.50
-1.00	(4.00) .157	(4.50) .177
-1.50	(4.50) .177	(5.00) .197

*Processing conditions will affect mated height.



LEAD STYLE	A	B
-3.00	(2.85) .112	(3.50) .138
-3.50	(3.35) .132	(4.00) .157

Note: Some lengths, styles and options are non-standard, non-returnable.

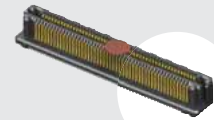
Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.



A-LSHM-120-04.0-L-DV-A-N-K-TR



A-LSHM-DV SERIES

(0.50 mm) .0197"

HIGH SPEED HERMAPHRODITIC STRIP

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-LSHM-DV

Insulator Material: Black Liquid Crystal Polymer

Contact Material: Phosphor Bronze

Plating: Au or Sn over 50µ" (1.27 µm) Ni

Current Rating: 2.0 A per pin (2 adjacent pins powered)

Operating Temp Range: -55°C to +125°C

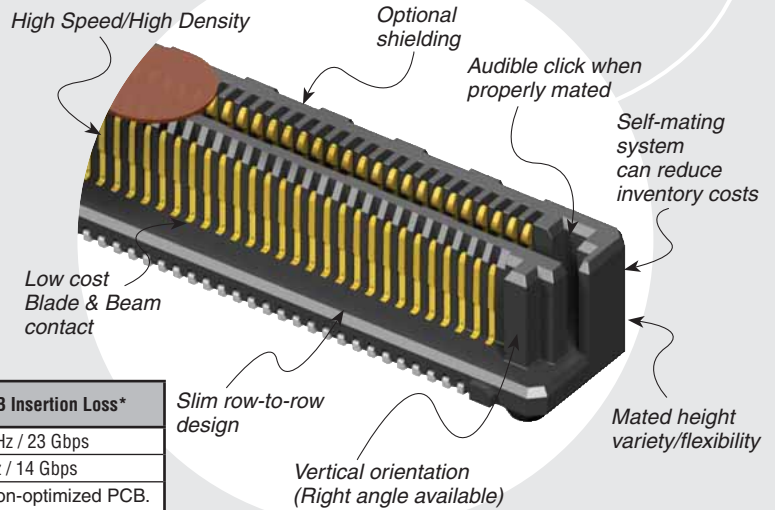
RoHS Compliant: Yes

Processing: Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0.10 mm) .004" max

Board Stacking: For applications requiring more than two connectors per board, contact ipg@samtec.com

Board Mates: A-LSHM



A-LSHM-DV/A-LSHM-DV 5 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	11.5 GHz / 23 Gbps
Differential Pair Signaling	7 GHz / 14 Gbps

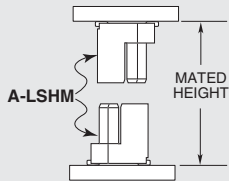
*Performance data includes effects of a non-optimized PCB. Performance data for other stack heights and complete test data available at www.samtec.com?A-LSHM-DV or contact sig@samtec.com

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



APPLICATION



LEAD STYLE	MATED HEIGHT*
-02.5 & -02.5	(5.00) .196
-02.5 & -03.0	(5.50) .217
-03.0 & -03.0	(6.00) .236
-02.5 & -04.0	(6.50) .256
-03.0 & -04.0	(7.00) .276
-04.0 & -04.0	(8.00) .315
-02.5 & -06.0	(8.50) .335
-03.0 & -06.0	(9.00) .354
-04.0 & -06.0	(10.00) .394
-06.0 & -06.0	(12.00) .472

*Processing conditions will affect mated height.

Note: Some lengths, styles and options are non-standard, non-returnable.

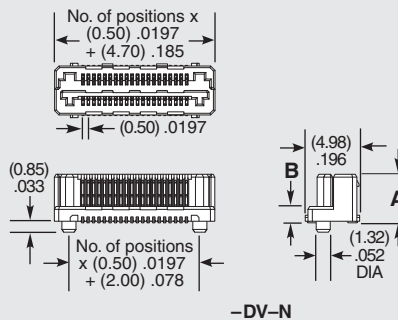
A-LSHM - **1** NO. PINS PER ROW - **LEAD STYLE** - **PLATING OPTION** - **TAIL OPTION** - **A** - **SHIELD OPTION** - **K** - **TR**

20, 30, 40, 50

Specify LEAD STYLE from chart

- F** = Gold flash on contact, Matte Tin on tail
- L** = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail
- DV** = Vertical
- N** = Without Shield
- K** = (3.50 mm) .138" DIA Polyimide film Pick & Place Pad
- TR** = Tape & Reel

LEAD STYLE (STANDARD)	LEAD STYLE (LUBRICATED)	A	B
-02.5	-L2.5	(3.95) .156	(1.00) .039
-03.0	-L3.0	(4.45) .175	(1.50) .059
-04.0	-L4.0	(5.45) .215	(2.50) .098
-06.0	-L6.0	(7.45) .293	(4.50) .177



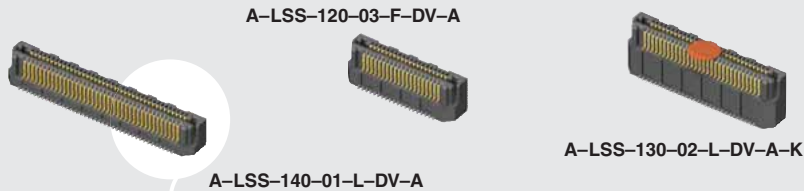
RUGGEDIZED
BY SAMTEC

- High retention contacts
- Audible click when mated
- Shrouded

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

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(0.635 mm) .025"

A-LSS SERIES

HIGH SPEED HERMAPHRODITIC STRIP

SPECIFICATIONS

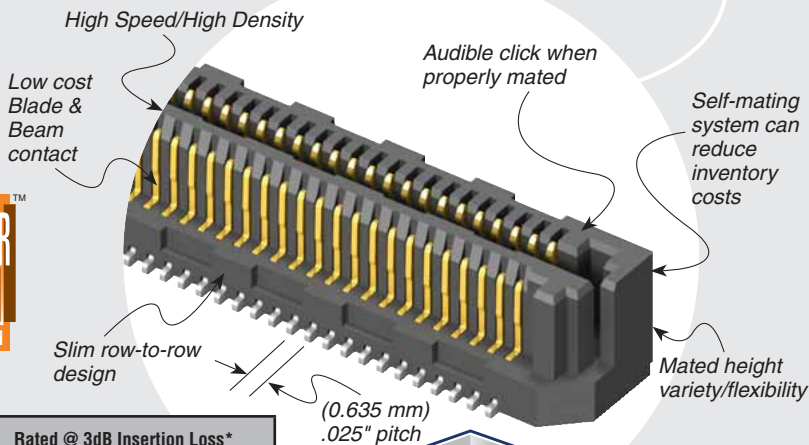
For complete specifications and recommended PCB layouts see www.samtec.com?A-LSS

Insulator Material:
Black Liquid Crystal Polymer
Contact Material:
Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni
Current Rating:
1.7 A per pin
(6 adjacent pins powered)
Operating Temp Range:
-55°C to +125°C
RoHS Compliant:
Yes

Processing:

Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max
Board Stacking:
For applications requiring more than two connectors per board, contact ipg@samtec.com

Mates with:
A-LSS



A-LSS/A-LSS 6 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	10 GHz / 20 Gbps
Differential Pair Signaling	9 GHz / 18 Gbps

*Performance data includes effects of a non-optimized PCB.
Performance data for other stack heights and complete test data available at www.samtec.com?A-LSS or contact sig@samtec.com



- High retention contacts
- Audible click when mated
- Shrouded

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



A-LSS - **1** NO. PINS PER ROW - **LEAD STYLE** - **PLATING OPTION** - **DV** - **A** - **OPTION**

10, 20, 30, 40, 50

Specify LEAD STYLE from chart

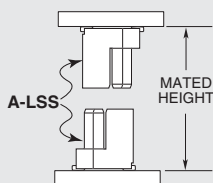
-F
= Gold flash on contact, Matte Tin on tail

-L
= 10µ" (0.25 µm) Gold on contact, Matte Tin on tail

-K
= (3.50 mm) .138" DIA Polyimide film Pick & Place Pad

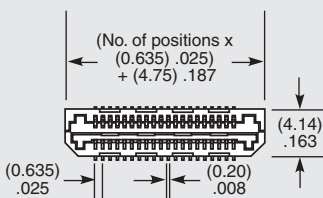
-TR
= Tape & Reel

APPLICATION

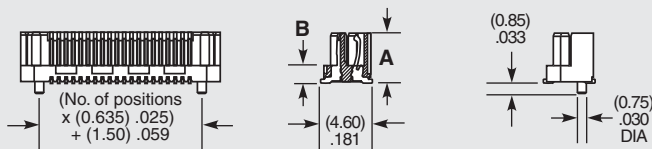


LEAD STYLE	MATED HEIGHT*
-01 & -01	(6.00) .236
-01 & -03	(7.00) .276
-03 & -03	(8.00) .315
-01 & -02	(9.00) .354
-02 & -03	(10.00) .394
-02 & -02	(12.00) .472

*Processing conditions will affect mated height.



LEAD STYLE	A	B
-01	(4.50) .177	(1.60) .063
-02	(7.49) .295	(4.59) .181
-03	(5.49) .216	(2.59) .102



ALSO AVAILABLE (MOQ Required)

- Other Gold plating options
 - Other pin counts
- Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable.

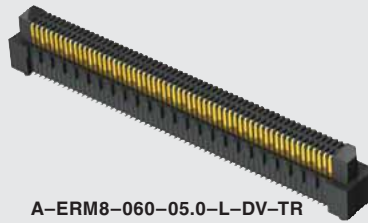
Due to technical progress, all designs, specifications and components are subject to change without notice.

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A-ERM8-013-05.0-S-DV-DS-L-TR



A-ERM8-060-05.0-L-DV-TR



A-ERM8-030-02.0-S-DV-TR

A-ERM8 SERIES

(0.80 mm) .0315"

RUGGED HIGH SPEED HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-ERM8

Insulator Material:

Black LCP
Terminal Material:
Phosphor Bronze

Plating:

Au or Sn over
50µ" (1.27 µm) Ni
Current Rating:
2.2 A per pin
(1 pin powered per row)

Operating Temp Range:

-55°C to +125°C

Voltage Rating:

200 VAC max

RoHS Compliant: Yes

Processing:

Lead-Free Solderable: Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (005-030)
(0.12 mm) .005" max (040-060)
(0.15 mm) .006" max (070-075)

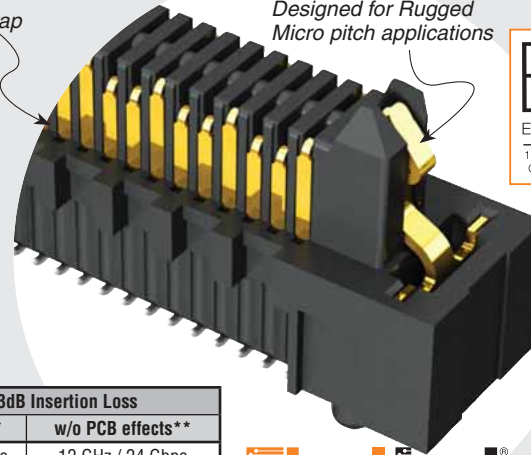
Board Mates:

A-ERF8

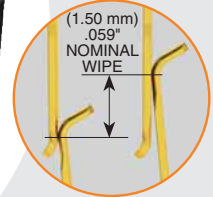


Hot Swap option

Designed for Rugged Micro pitch applications



10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles



A-ERM8/A-ERF8 7 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	10.5 GHz / 21 Gbps	12 GHz / 24 Gbps
Differential Pair Signaling	9.5 GHz / 19 Gbps	15.5 GHz / 31 Gbps

*Performance data includes effects of a non-optimized PCB.
**Test board losses de-embedded from performance data.

Performance data for other stack heights and complete test data available at www.samtec.com?A-ERM8 or contact sig@samtec.com

Finalinch | 28+ Gbps
CERTIFIED

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

Protocols Supported

100 GbE
PCI Express®

Download app notes at www.samtec.com/appnote
Contact SIG @ samtec.com for questions on protocols

A-ERM8 | **POSITIONS PER ROW** | **LEAD STYLE** | **PLATING OPTION** | **DV** | **OTHER OPTION** | **TR**

-005, -010, -011, -013, -020, -025, -030, -035, -040, -049, -050, -060, -070, -075

Specify LEAD STYLE from chart

-L
= 10µ" (0.25 µm)
Gold on contact, Matte Tin on tail

-S
= 30µ" (0.76 µm)
Gold on contact, Matte Tin on tail

-DS
= Differential Pair (-05.0 lead style only)
(-010, -013, -025, -049 Positions only)

-K
= (4.00 mm) .157" DIA
Polyimide Film Pick & Place Pad

-L
= Latching (-05.0 lead styles only)
(Not available with -EGP option)

-EGP
= Extended Guide Post (-05.0 lead style only)
(Not available with -L option)

-DSP
= Differential Pair + Extended Guide Post (-05.0 lead styles only)
(-013 & -025 Positions only)

-TR
= Tape & Reel Packaging

LEAD STYLE	A	B
-02.0	(1.61) .063	(5.97) .235
-05.0	(4.61) .181	(8.91) .351
-08.0	(7.61) .300	(11.91) .469
-09.0	(8.61) .339	(12.91) .508

MATED HEIGHT*		
A-ERM8 LEAD STYLE	A-ERF8 LEAD STYLE	
	-05.0	-07.0
-02.0	(7.00) .276	(9.00) .354
-05.0	(10.00) .394	(12.00) .472
-08.0	(13.00) .512	(15.00) .591
-09.0	(14.00) .551	(16.00) .629

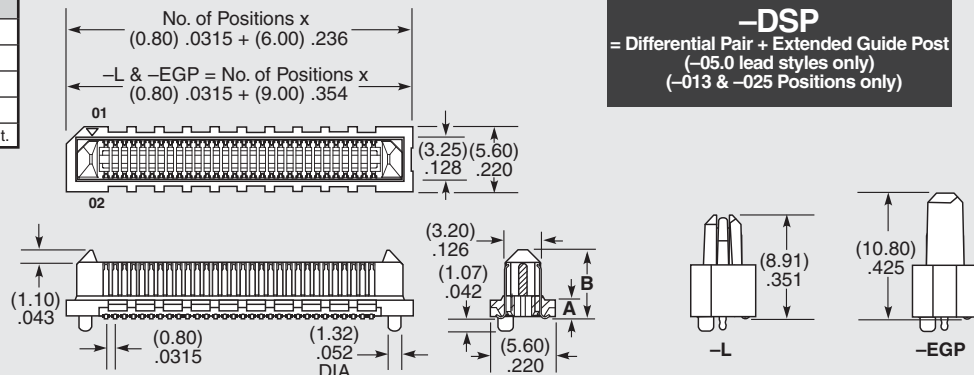
*Processing conditions will affect mated height.

STANDARDS

- NEXUS5001™.org
- POWER.org™
- ARM/HSSTP

Note: Patented

Note: Some lengths, styles and options are non-standard, non-returnable.



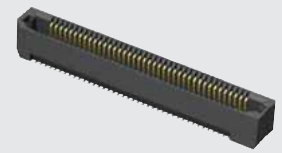
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WWW.SAMTEC.COM

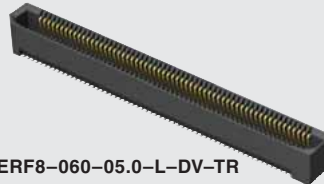
Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.



A-ERF8-020-05.0-S-DV-TR



A-ERF8-040-05.0-S-DV-TR



A-ERF8-060-05.0-L-DV-TR

A-ERF8 SERIES

(0.80 mm) .0315"

RUGGED HIGH SPEED SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-ERF8

Insulator Material: Black LCP
Contact Material: BeCu
Plating: Au or Sn over 50µ" (1.27 µm) Ni
Current Rating: 2.2 A per pin (1 pin powered per row)
Operating Temp Range: -55°C to + 125°C
Voltage Rating: 200 VAC max
RoHS Compliant: Yes

Processing:
Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0.10 mm) .004" max (005-030) (0.12 mm) .005" max (040-060) (0.15 mm) .006" max (070-075)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

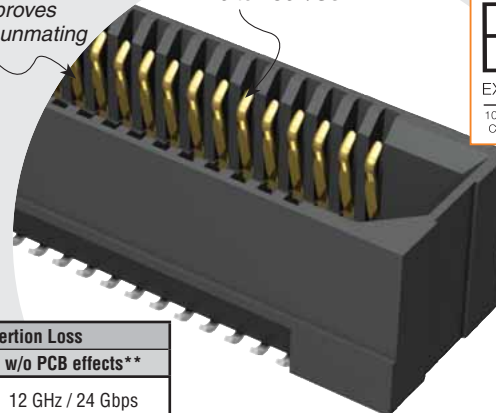
Protocols Supported

100 GbE
 PCI Express®

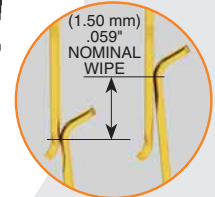
Download app notes at www.samtec.com/appnote
 Contact SIG @ samtec.com for questions on protocols

Board Mates:
 A-ERM8

Robust Edge Rate® contact improves "Zippered" unmating
 10 to 150 I/Os



E.L.P.™
 EXTENDED LIFE PRODUCT
 10 year Mixed Flowing Gas with 30µ" Gold
 Call Samtec for maximum mated cycles



A-ERM8/A-ERF8 7 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	10.5 GHz / 21 Gbps	12 GHz / 24 Gbps
Differential Pair Signaling	9.5 GHz / 19 Gbps	15.5 GHz / 31 Gbps

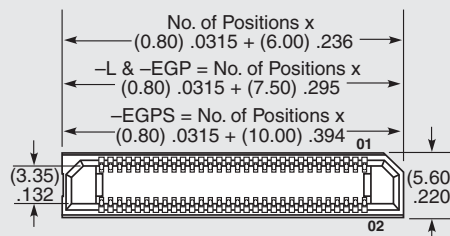
*Performance data includes effects of a non-optimized PCB.
 **Test board losses de-embedded from performance data.
 Performance data for other stack heights and complete test data available at www.samtec.com?A-ERF8 or contact sig@samtec.com

infinch® | **28+**
 CERTIFIED | Gbps

A-ERF8	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	DV	OTHER OPTION	TR
	-005, -010, -011, -013, -020, -025, -030, -035, -040, -049, -050, -060, -070, -075	Specify LEAD STYLE from chart	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail -S = 30µ" (0.76 µm) Gold on contact, Matte Tin on tail	-L = Latching (Lead Style -05.0 only) (N/A with -EGP or -EGPS option) -EGP = Extended Guide Post (Lead Style -07.0 only) (N/A with -L & -EGPS option) -K = (6.00 mm) .236" DIA Polyimide Film Pick & Place Pad	-TR = Tape & Reel Packaging	

A-ERF8 LEAD STYLE	MATED HEIGHT*			
	-02.0	-05.0	-08.0	-09.0
-05.0	(7.00) .276	(10.00) .394	(13.00) .512	(14.00) .551
-07.0	(9.00) .354	(12.00) .472	(15.00) .591	(16.00) .629

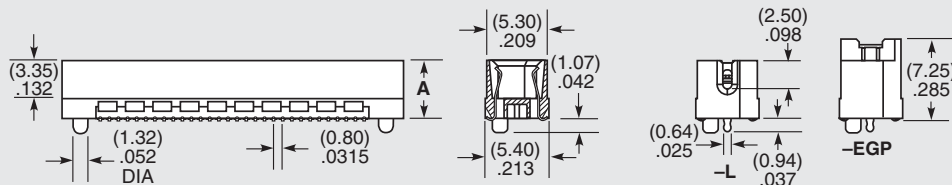
*Processing conditions will affect mated height.



LEAD STYLE	A
-05.0	(5.10) .200
-07.0	(7.00) .276

ALSO AVAILABLE (MOQ Required)

• Mezzanine stack heights
 Contact autosalesgroup@samtec.com



STANDARDS

- NEXUS5001™.org
- POWER.org™
- ARM/HSSTP

Note: Patented

Note: Some lengths, styles and options are non-standard, non-returnable.

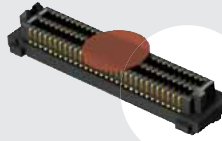
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A-SEAM8-30-S02.0-S-06-2-K



A-SEAM8-20-S02.0-S-04-2

A-SEAM8 SERIES

(0.80 mm) .0315"

ULTRA HIGH DENSITY OPEN PIN FIELD

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SEAM8

Insulator Material: Black LCP

Contact Material: Copper Alloy

Plating: Au or Sn over 50 μ" (1.27 μm) Ni

Operating Temp Range: -55°C to +125°C

Current Rating: 1.4 A per pin (6 adjacent pins powered)

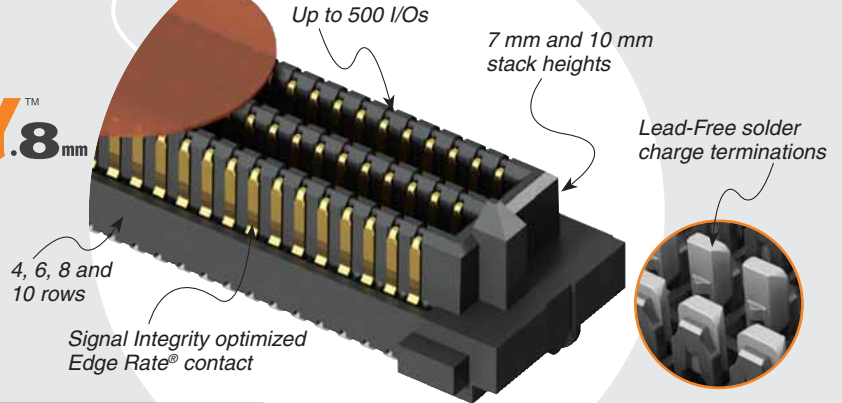
Working Voltage: 220 VAC

RoHS Compliant: Yes

Lead-Free Solderable: Yes

Mates with:
A-SEAF8

SEARAY™ .8mm



A-SEAM8/A-SEAF8 7 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	14 GHz / 28 Gbps

*Test board losses de-embedded from performance data. Performance data for other stack heights and complete test data available at www.samtec.com?A-SEAM8 or contact sig@samtec.com

FinalInch | 28+
CERTIFIED | Gbps
Patent Pending

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other pin counts
- Contact autosalesgroup@samtec.com

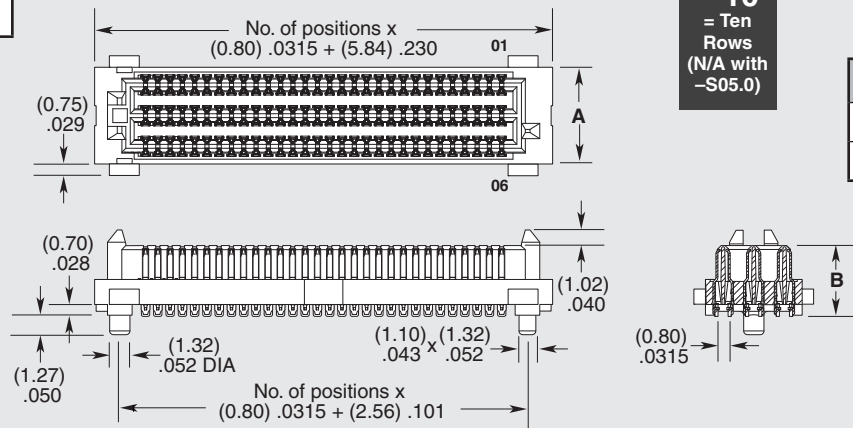
A-SEAM8	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	OPTIONS
	-10, -20, -30, -40, -50 (Standard sizes)	-S02.0 = 2 mm Body Height -S05.0 = 5 mm Body Height	-S = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on solder tail	-04 = Four Rows -06 = Six Rows -08 = Eight Rows (N/A with -S05.0) -10 = Ten Rows (N/A with -S05.0)	-2 = Lead-Free Solder Charge	-K = Polyimide film Pick & Place Pad

MATED HEIGHT*		
A-SEAF8 LEAD STYLE	A-SEAM8 LEAD STYLE	
	-S02.0	-S05.0
-05.0	(7.00) .276	(10.00) .394

*Processing conditions will affect mated height.

NO. OF ROWS	A
-04	(4.30) .169
-06	(6.30) .248
-08	(8.30) .327
-10	(10.30) .406

LEAD STYLE	B
-S02.0	(4.54) .179
-S05.0	(7.54) .297



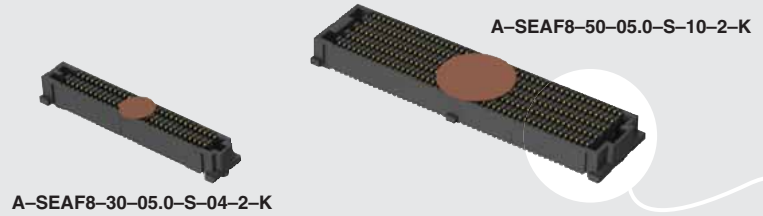
A-SEAM8-30-XXX.X-X-06-2 SHOWN

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WWW.SAMTEC.COM

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Notes:
Patent Pending
Tape & Reel packaging is standard.
Some sizes, styles and options are non-standard, non-returnable.



A-SEAF8 SERIES

(0.80 mm) .0315"

ULTRA HIGH DENSITY OPEN PIN FIELD

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SEAF8

Insulator Material: Black LCP

Contact Material: Copper Alloy

Plating: Au or Sn over 50 μ" (1.27 μm) Ni

Operating Temp Range: -55°C to +125°C

Current Rating: 1.4 A per pin (6 adjacent pins powered)

Working Voltage: 220 VAC

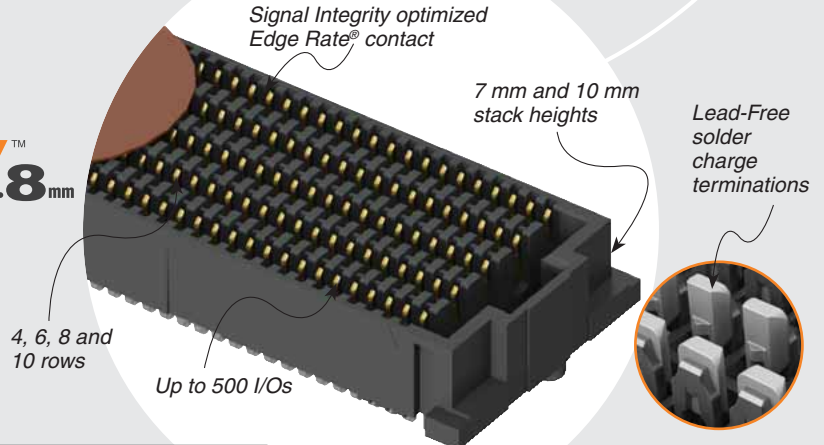
RoHS Compliant: Yes

Lead-Free Solderable: Yes

Yes

Mates with:
A-SEAM8

SEARRAY™ .8mm



A-SEAM8/A-SEAF8 7 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	14 GHz / 28 Gbps
*Test board losses de-embedded from performance data. Performance data for other stack heights and complete test data available at www.samtec.com?A-SEAF8 or contact sig@samtec.com	

FinalInch® | **28+**
CERTIFIED | Gbps
Patent Pending

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



A-SEAF8 - **NO. PINS PER ROW** - **05.0** - **PLATING OPTION** - **NO. OF ROWS** - **SOLDER TYPE** - **K**

-10, -20, -30, -40, -50 (Standard sizes)

-S = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on solder tail

-04 = Four Rows
-06 = Six Rows
-08 = Eight Rows
-10 = Ten Rows

-2 = Lead-Free Solder Charge

-K = Polyimide film Pick & Place Pad

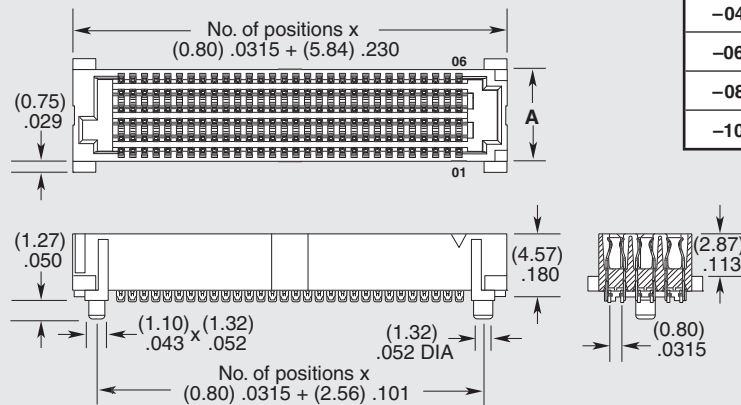
ALSO AVAILABLE (MOQ Required)

- Other pin counts
- Contact autosalesgroup@samtec.com

MATED HEIGHT*		
A-SEAF8 LEAD STYLE	A-SEAM8 LEAD STYLE	
	-S02.0	-S05.0
-05.0	(7.00) .276	(10.00) .394

*Processing conditions will affect mated height.

NO. OF ROWS	A
-04	(4.30) .169
-06	(6.30) .248
-08	(8.30) .327
-10	(10.30) .406



Notes:
Patent Pending
Tape & Reel packaging is standard.
Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

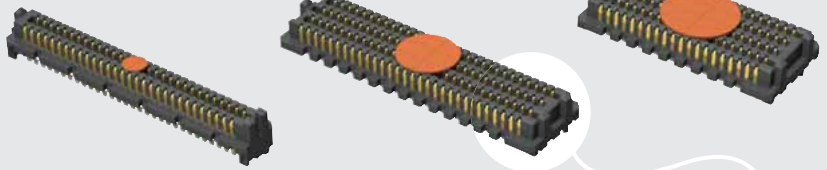
Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.



(1.27 mm) .050"

A-SEAM-20-02.0-S-10-2-A-K-TR

A-SEAM-30-02.0-S-08-2-A-K-TR



A-SEAM-30-03.5-S-04-2-A-K-TR

A-SEAM SERIES

HIGH SPEED/HIGH DENSITY OPEN PIN FIELD

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SEAM

- Insulator Material:** Black LCP
- Contact Material:** Copper Alloy
- Operating Temp Range:** -55°C to +125°C
- Current Rating (7 mm stack height):** 1.8 A per pin (10 adjacent pins powered)
- Plating:** Au or Sn over 50 μm (1.27 μm) Ni
- Contact Resistance:** 5.5 mΩ
- Working Voltage:** 240 VAC
- RoHS Compliant:** Yes
- Lead-Free Solderable:** Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



Industry Standards

- PISMO 2
- VITA 47
- VITA 57

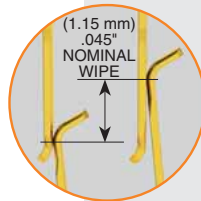
Protocols Supported

- 100 GbE
- Fibre Channel
- Rapid I/O
- PCI Express®
- SATA
- InfiniBand™

Download app notes at www.samtec.com/appnote
 Contact SIG @ samtec.com for questions on protocols

Mates with: A-SEAF

Note: Patented



SEARRAY™

Note: Some sizes, styles and options are non-standard, non-returnable.

Low insertion/ extraction forces

Up to 500 Pins

5, 8 and 10 row footprint compatible with SamArray®. Samples recommended.

Solder charges

A-SEAM/A-SEAF 10 mm Stack Height	Rated @ 3dB Insertion Loss w/o PCB effects*
Single-Ended Signaling	18 GHz / 36 Gbps
Differential Pair Signaling	18 GHz / 36 Gbps

*Test board losses de-embedded from performance data.
 Performance data for other stack heights and complete test data available at www.samtec.com?A-SEAM or contact sig@samtec.com

Finalinch®
 CERTIFIED | Patent Pending

28+ Gbps

A-SEAM - NO. PINS PER ROW - LEAD STYLE - PLATING OPTION - NO. OF ROWS - SOLDER TYPE - A - K - TR

-10, -15, -20, -30, -40, -50
 (-10 only available in 04 row)
 (-15 only available in 10 row)

Specify LEAD STYLE from chart

-L = 10 μm (0.25 μm) Gold on contact area, Matte Tin on solder tail

-S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail

-04 = Four Rows (-06.5 not available)

-05 = Five Rows (-06.5 not available)

-06 = Six Rows (-06.5 not available)

-08 = Eight Rows

-10 = Ten Rows

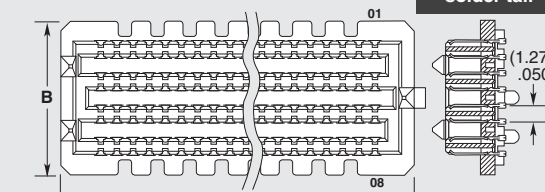
-2 = Lead-Free Solder Charge

-A = Alignment Pins (Required. Arrays will not self-center on solder pads)

-K = Polyimide film Pick & Place Pad

-TR = Tape & Reel

NO. OF ROWS	B
-04	(7.06) .278
-05, -06	(9.60) .378
-08	(12.14) .478
-10	(14.68) .578



A-SEAM LEAD STYLE	MATED HEIGHTS A-SEAF LEAD STYLE		
	-05.0	-06.0	-06.5
-02.0	7 mm	8 mm	8.5 mm
-03.0	8 mm	9 mm	9.5 mm
-03.5	8.5 mm	9.5 mm	10 mm
-06.5	11.5 mm	12.5 mm	13 mm
-07.0	12 mm	13 mm	13.5 mm
-09.0	14 mm	15 mm	15.5 mm
-11.0	16 mm	17 mm	17.5 mm

LEAD STYLE	A
-02.0	(4.60) .181
-03.0	(5.59) .220
-03.5	(6.10) .240
-06.5	(9.14) .360
-07.0	(9.60) .378
-09.0	(11.60) .457
-11.0	(13.60) .535

E.L.P.™
 EXTENDED LIFE PRODUCT
 10 year Mixed Flowing Gas with 30μ" Gold Call Samtec for maximum mated cycles

DIFFERENTIAL

ARRAY	PAIR COUNT
40x8	80
40x6	60
30x10	75
30x8	60
30x6	45
20x10	50
20x8	40
20x5	25

Due to technical progress, all designs, specifications and components are subject to change without notice.



(1.27 mm) .050"

A-SEAF SERIES

HIGH SPEED/HIGH DENSITY OPEN PIN FIELD

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SEAF

- Insulator Material:** Black LCP
- Contact Material:** Copper Alloy
- Operating Temp Range:** -55°C to +125°C
- Current Rating (7 mm stack height):** 1.8 A per pin (10 adjacent pins powered)
- Plating:** Au or Sn over 50 μm (1.27 μm) Ni
- Contact Resistance:** 5.5 mΩ
- Working Voltage:** 240 VAC
- RoHS Compliant:** Yes
- Lead-Free Solderable:** Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



Industry Standards

- PISMO 2
- VITA 47
- VITA 57

Protocols Supported

- 100 GbE
- Fibre Channel
- Rapid I/O
- PCI Express®
- SATA
- InfiniBand™

Download app notes at www.samtec.com/appnote
Contact SIG @ samtec.com for questions on protocols

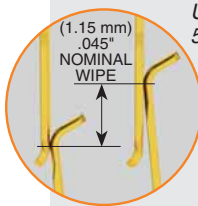
Mates with: A-SEAM

Note: Patented

SEARRAY™

Low insertion/extraction forces

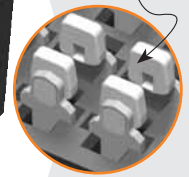
Note: Some sizes, styles and options are non-standard, non-returnable.



Up to 500 pins

5, 8 and 10 row footprint compatible with SamArray®. Samples recommended.

Solder charges



A-SEAM/A-SEAF 10 mm Stack Height	Rated @ 3dB Insertion Loss
	w/o PCB effects*
Single-Ended Signaling	18 GHz / 36 Gbps
Differential Pair Signaling	18 GHz / 36 Gbps

*Test board losses de-embedded from performance data.
Performance data for other stack heights and complete test data available at www.samtec.com?A-SEAF or contact sig@samtec.com

infinch® | 28+ Gbps
CERTIFIED | Patent Pending

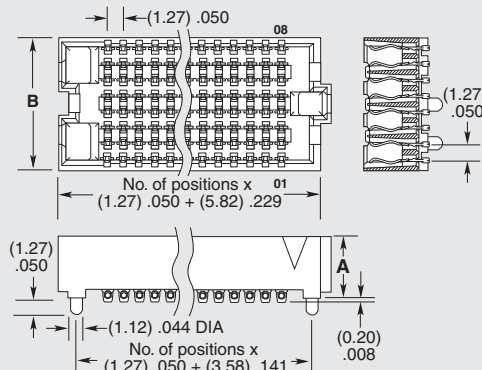
A-SEAF	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	K	TR
	-10, -15, -20, -30, -40, -50 (-10 only available in 04 row) (-15 only available in 10 row and -05.0 lead style)	Specify LEAD STYLE from chart	-L = 10 μm (0.25 μm) Gold on contact area, Matte Tin on solder tail -S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail	-04 = Four Rows -05 = Five Rows -06 = Six Rows -08 = Eight Rows -10 = Ten Rows	-2 = Lead-Free Solder Charge		-K = Polyimide film Pick & Place Pad	

NO. OF ROWS	B
-04	(5.66) .223
-05, -06	(8.20) .323
-08	(10.74) .423
-10	(13.28) .523

LEAD STYLE	A
-05.0	(5.05) .199
-06.0	(6.05) .238
-06.5	(6.55) .258

E.L.P.™
EXTENDED LIFE PRODUCT
10 year Mixed Flowing Gas with 30μ" Gold
Call Samtec for maximum mated cycles

MATED HEIGHTS			
A-SEAM LEAD STYLE	A-SEAF	LEAD STYLE	LEAD STYLE
-02.0	7 mm	8 mm	8.5 mm
-03.0	8 mm	9 mm	9.5 mm
-03.5	8.5 mm	9.5 mm	10 mm
-06.5	11.5 mm	12.5 mm	13 mm
-07.0	12 mm	13 mm	13.5 mm
-09.0	14 mm	15 mm	15.5 mm
-11.0	16 mm	17 mm	17.5 mm



DIFFERENTIAL			
ARRAY	PAIR COUNT	ARRAY	PAIR COUNT
40x8	80	30x8	60
40x6	60	30x6	45
30x10	75	20x10	50
30x8	60	20x8	40
50x10	125	40x10	100
50x8	100		
40x10	100		

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WWW.SAMTEC.COM

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(0.80 mm) .0315"

A-HSEC8-PV SERIES

POWER/HIGH SPEED EDGE CARD COMBO

SPECIFICATIONS

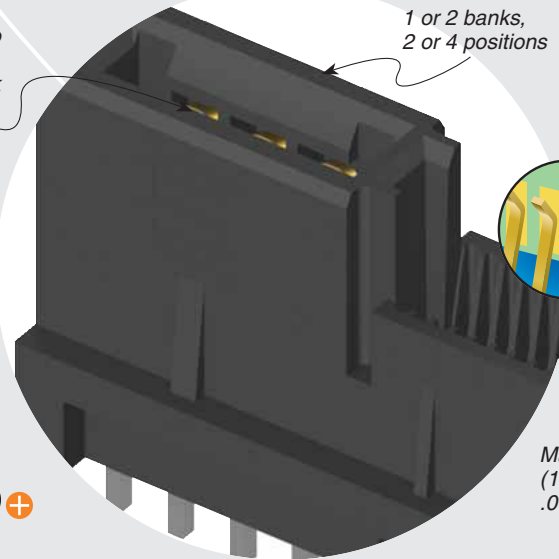
For complete specifications and recommended PCB layouts see www.samtec.com?A-HSEC8-PV

- Insulator Material:** Black Liquid Crystal Polymer
- Signal Contact:** BeCu
- Power Contact:** Phosphor Bronze
- Plating:** Au or Sn over 50µ" (1.27 µm) Ni
- Operating Temp:** Testing Now!
- RoHS Compliant:** Yes
- Processing:** Lead-Free Solderable: Yes

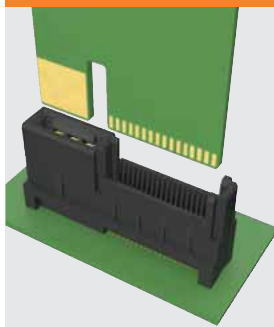
Mates with: (1.60 mm) .062" thick card



Rated up to 60 A per power bank

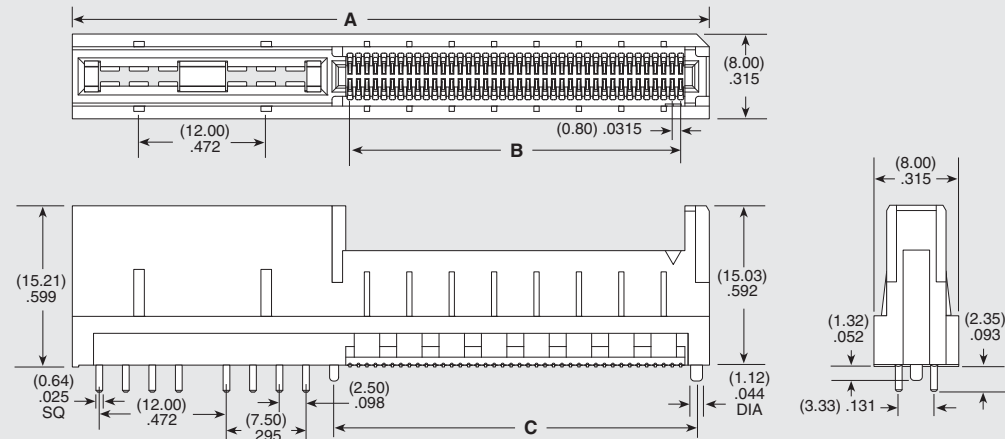


APPLICATION



A-HSEC8	SIG POS	CARD THICKNESS	PLATING OPTION	PV	PWR POS	POWER TAIL	OTHER OPTION
20, 30, 40 (Signal positions per row)	-1 (1.60 mm) .062" Thick Card	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail	-S = 30µ" (0.76 µm) Gold on contact, Matte Tin on tail	-2, -4 (Total, 2 per power bank)	-1 = Use with (1.60 mm) .062" Thick PCB	-WT = Weld Tab	

SIGNAL POSITIONS	POWER POSITIONS					
	A (-2)	B (-2)	C (-2)	A (-4)	B (-4)	C (-4)
-20	(32.10) 1.264	(15.20) .598	(18.20) .717	(44.10) 1.736	(15.20) .598	(18.20) .717
-30	(40.10) 1.579	(23.20) .913	(26.20) 1.031	(52.10) 2.051	(23.20) .913	(26.20) 1.031
-40	(48.10) 1.894	(31.20) 1.228	(34.20) 1.346	(60.10) 2.366	(31.20) 1.228	(34.20) 1.346



Note: Some lengths, styles and options are non-standard, non-returnable.

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A-HSEC8-140-01-L-DV-A



A-HSEC8-DV SERIES

(0.80 mm) .0315"

VERTICAL EDGE RATE® CARD SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-HSEC8-DV

Insulator Material:
Black Liquid Crystal Polymer
Contact:
BeCu
Plating:
Au or Sn over
50µ" (1.27 µm) Ni
Current Rating:
2.8 A per pin
(2 adjacent pins powered)
Operating Temp:
-55°C to +125°C
Card Insertion Depth:
(3.15 mm) .125" nominal
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable: Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (10-60)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



OTHER SOLUTIONS

- Standard high speed interface cards for 19 mm, 25 mm & 30 mm mated heights, single-ended & differential applications.

ALSO AVAILABLE (MOQ Required)

- Guide rails
 - Other platings
 - Custom cards for low-cost stack height customization
 - Samtec supplied card layout/artwork to make your own cards
 - Specialty card shapes
- Contact autosalesgroup@samtec.com

Notes:
While optimized for 50Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75Ω applications. Contact Samtec for further information.
Some lengths, styles and options are non-standard, non-returnable.

Mates with:
(1.60 mm) .062" card,
(2.36 mm) .093" card

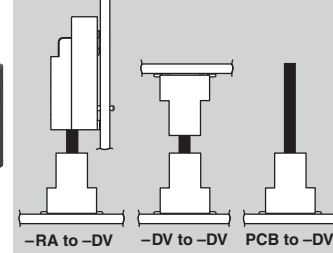


A-HSEC8	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
7.98 mm Stack Height		
Single-Ended Signaling	8 GHz / 16 Gbps	17 GHz / 34 Gbps
Differential Pair Signaling	10.5 GHz / 21 Gbps	15.5 GHz / 31 Gbps

*Performance data includes effects of a non-optimized PCB.
**Test board losses de-embedded from performance data.
Complete test data available at www.samtec.com?A-HSEC8-DV or contact sig@samtec.com

Mates with (1.60 mm) .062" or (2.36 mm) .093" cards

BOARD-TO-BOARD APPLICATIONS



Finalinch | 28+ Gbps
CERTIFIED

A-HSEC8 - 1 POSITIONS PER ROW - CARD THICKNESS - PLATING OPTION - DV - A - OTHER OPTION

10, 20, 30, 40, 50, 60, 70, 80, 100

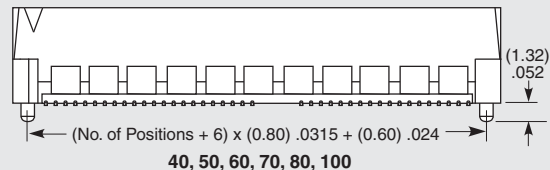
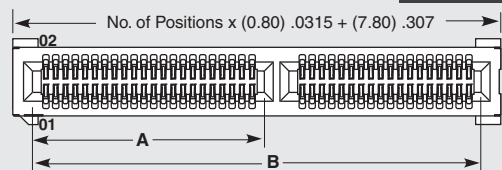
-01 = (1.60 mm) .062" thick card
-03 = (2.36 mm) .093" thick card

-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail
-S = 30µ" (0.76 µm) Gold on contact, Matte Tin on tail

-K = (7.01 mm) .276" DIA Polyimide Film Pick & Place Pad (with -01 card)
= (6.25 mm) .246" DIA Polyimide Film Pick & Place Pad (with -03 card)

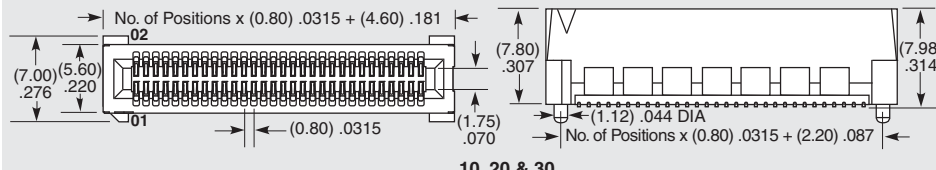
-BL = Board Locks (40, 50, 60, 80 only) (Other sizes available. Contact Samtec.) (Weld tab standard)

-TR = Tape & Reel (09 - 70 only)

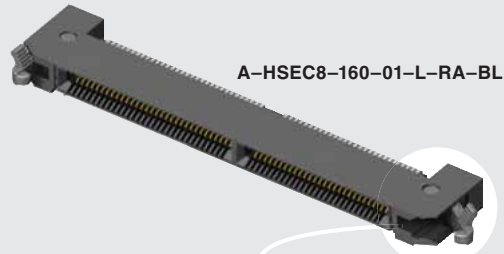


POSITIONS PER ROW	A	B
40	(18.90) .744	(36.60) 1.441
50	(22.90) .902	(44.60) 1.756
60	(26.90) 1.059	(52.60) 2.071
70†	(26.90) 1.059	(60.60) 2.386
80†	(26.90) 1.059	(68.60) 2.701
100†	(26.90) 1.059	(84.60) 3.331

Positions where no dimensions are given do not have keying feature.
† Available with -01 Card Only.



Due to technical progress, all designs, specifications and components are subject to change without notice.



A-HSEC8-160-01-L-RA-BL



A-HSEC8-120-01-L-RA

A-HSEC8-RA SERIES

(0.80 mm) .0315"

RIGHT ANGLE EDGE RATE® CARD SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-HSEC8-RA

Insulator Material:
Black Liquid Crystal Polymer
Contact:
BeCu
Plating:
Au or Sn over
50µ" (1.27 µm) Ni
Current Rating:
2.6 A per pin
(2 adjacent pins powered)
Operating Temp:
-55°C to +125°C
Card Insertion Depth:
(3.15 mm) .125" nominal
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (10-60)

Mates with:
(1.60 mm) .062" thick card



Rugged Edge Rate® contacts designed for Signal Integrity

Accepts (1.60 mm) .062" PCB thicknesses



Optional Board Locks

A-HSEC8-RA	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	6.5 GHz / 13 Gbps	18 GHz / 36 Gbps
Differential Pair Signaling	6.5 GHz / 13 Gbps	18.5 GHz / 37 Gbps

*Performance data includes effects of a non-optimized PCB.
**Test board losses de-embedded from performance data.
Complete test data available at www.samtec.com?A-HSEC8-RA or contact sig@samtec.com

28+
Gbps



• Board lock option

RECOGNITIONS

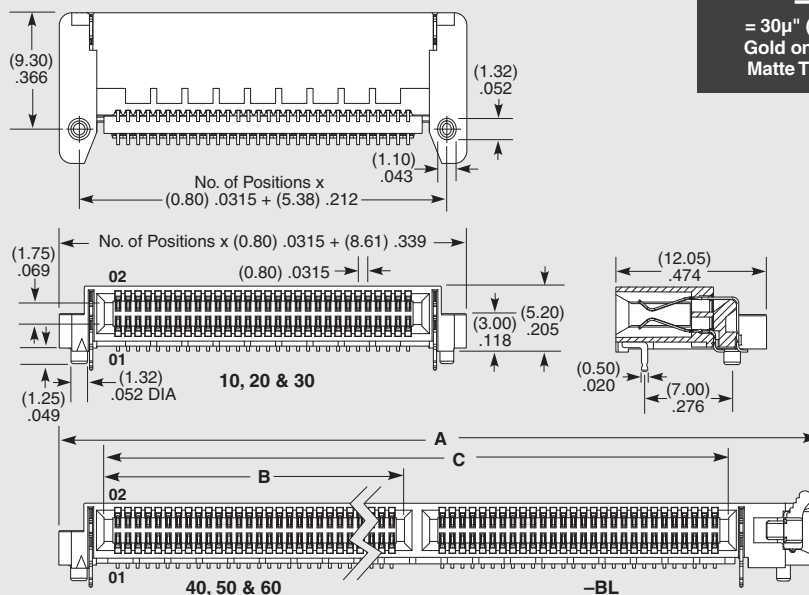
For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact autosalesgroup@samtec.com

A-HSEC8	1	POSITIONS PER ROW	CARD THICKNESS	PLATING OPTION	RA	OTHER OPTION
		10, 20, 30, 40, 50, 60	-01 = (1.60 mm) .062" thick card	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail	-S = 30µ" (0.76 µm) Gold on contact, Matte Tin on tail	-BL = Board Locks (40, 50, 60 only) -TR = Tape & Reel Packaging (10 thru 60 positions only)



POSITIONS PER ROW	A	B	C
40	(43.80) 1.724	(18.90) .744	(36.60) 1.441
50	(51.80) 2.039	(22.90) .902	(44.60) 1.756
60	(59.80) 2.354	(26.90) 1.059	(52.60) 2.071
40-BL	(51.30) 2.020	(18.90) .744	(36.60) 1.441
50-BL	(59.30) 2.335	(22.90) .902	(44.60) 1.756
60-BL	(67.30) 2.650	(26.90) 1.059	(52.60) 2.071

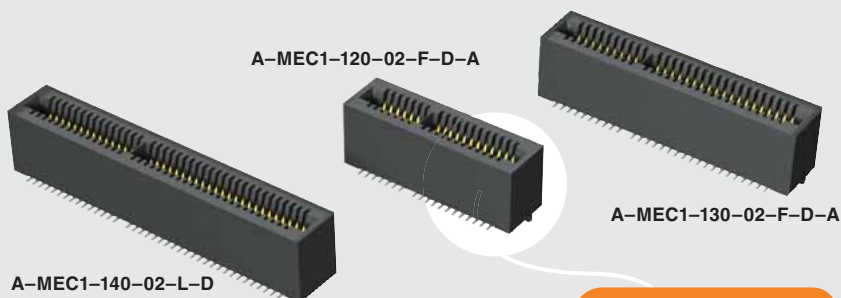
Note: While optimized for 50Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75Ω applications. Contact Samtec for further information.

Note: Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

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A-MEC1 SERIES

(1.00 mm) .0394"

MINI EDGE CARD SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-MEC1

Insulator Material:

Black LCP

Contact Material:

BeCu

Plating:

Sn or Au over 50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C

Current Rating:

2.2 A per pin (2 adjacent pins powered)

Voltage Rating:

300 VAC

Insertion Depth:

(5.84 mm) .230" to (8.13 mm) .320"

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

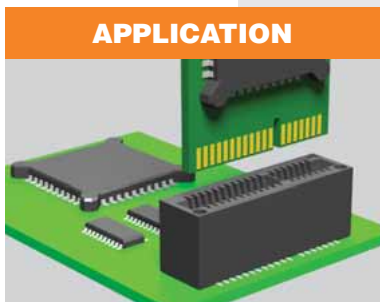
Yes

SMT Lead Coplanarity:

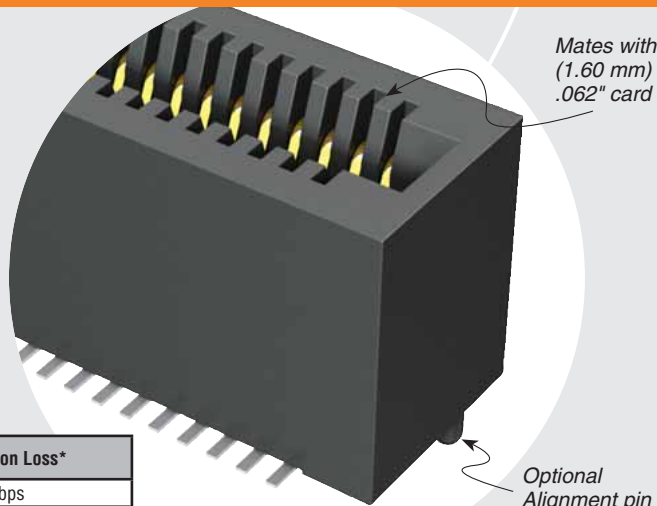
(0.10 mm) .004" max (05-20)

(0.15 mm) .006" max (30-70)

Mates with:
(1.60 mm) .062" card



APPLICATION



Mates with (1.60 mm) .062" card

Optional Alignment pin

A-MEC1	Rated @ 3dB Insertion Loss*
9.04 mm Stack Height	
Single-Ended Signaling	5.5 GHz / 11 Gbps
Differential Pair Signaling	6.5 GHz / 13 Gbps

*Performance data includes effects of a non-optimized PCB.
Complete test data available at www.samtec.com?A-MEC1 or contact sig@samtec.com

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact autosalesgroup@samtec.com

Note: While optimized for 50Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75Ω applications. Contact Samtec for further information.

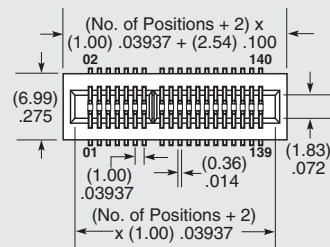
Important Note: Samtec recommends that pads on the mating board be Gold plated.

Note: Some sizes, styles and options are non-standard, non-returnable.

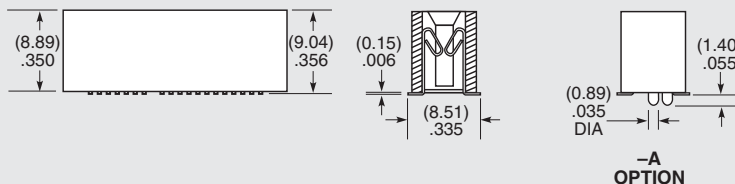
A-MEC1 — **1** POSITIONS PER ROW — **02** — **PLATING OPTION** — **D** — **NP** — **OTHER OPTION**

05, 08, 20, 30, 40, 50, 60, 70

- F** = Gold flash on contact, Matte tin on tail
- L** = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail
- NP** = No Polarization (05, 08, 20 & 30 positions only)
Leave Blank for polarization
- A** = Alignment Pin plastic at Samtec discretion.
- K** = (7.87 mm) .310" DIA Polyimide film Pick & Place Pad
- TR** = Tape & Reel



POSITIONS PER ROW	POLARIZED POSITIONS (No Contact)
05	3, 4
08	5, 6
20	15, 16
30	21, 22
40	31, 32
50	41, 42
60	31, 32, 63 & 64
70	53, 54, 115 & 116

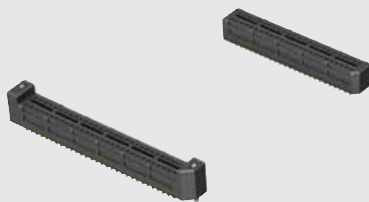


Due to technical progress, all designs, specifications and components are subject to change without notice.

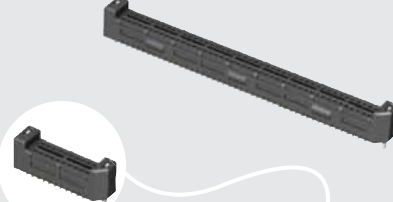


A-SEMS-125-02-03.0-H-D

A-SEML-145-02-03.0-H-D-WT



A-SEM-130-02-03.0-H-D-WT



A-SEM-110-02-03.0-H-D-WT

(0.80 mm) .0315"

A-SEM, A-SEMS, A-SEML SERIES

MICRO TIGER EYE™ SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SEM, www.samtec.com?A-SEMS or www.samtec.com?A-SEML

Insulator Material: Black Liquid Crystal Polymer
Contact Material: BeCu

Plating: Au or Sn over 50µ" (1.27 µm) Ni
Operating Temp Range: -55°C to +125°C

Current Rating (A-SEM/A-TEM): 2.6 A per pin
(1 pin powered per row)
RoHS Compliant: Yes

Processing: Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0.10 mm) .004" max

A-SEM, A-SEML
Mates with:
A-TEM

A-SEMS
Mates with:
A-TEMS

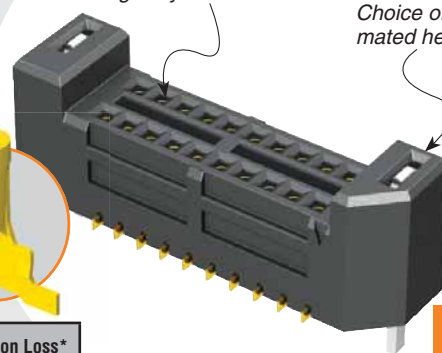


A-TEM/A-SEM 6 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	12 GHz / 24 Gbps
Differential Pair Signaling	17 GHz / 34 Gbps

*Test board losses de-embedded from performance data.
Complete test data available at www.samtec.com?A-SEM or contact_sig@samtec.com

High reliability
Tiger Eye™ contacts

Choice of
mated heights



RUGGEDIZED
BY SAMTEC

- Passes 10 year MFG
- Weld tab option

ALSO AVAILABLE
(MOQ Required)

- Other sizes
 - Other platings
- Contact autosalesgroup@samtec.com

28+
Gbps

Weld tab

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

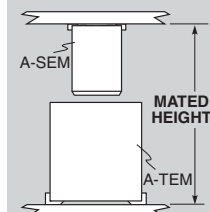


OTHER SOLUTIONS

- Board Stacking: See A-SFM, A-TFM Series
- Contact autosalesgroup@samtec.com

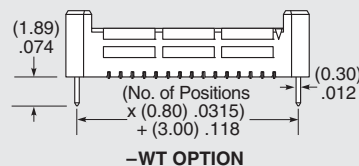
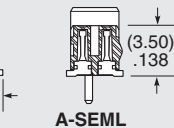
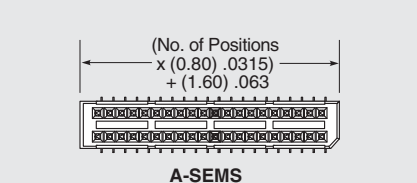
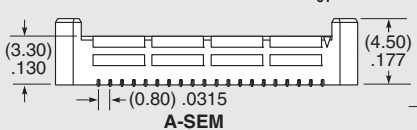
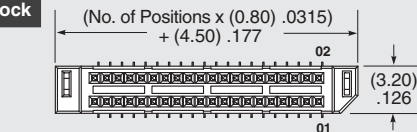
TYPE STRIP	1	NO. PINS PER ROW	02	STACK HEIGHT	PLATING OPTION	D	OPTION	OTHER OPTION
A-SEM = Tiger Eye™ Strip		05, 10, 15, 20, 25 30, 35, 40, 45, 50 (A-SEM/A-SEML only) (Standard sizes)		-03.0 = 6 mm, 7 mm or 10 mm Stack Height when mated with A-TEM/A-TEMS Series (A-SEML only available with 6 mm Stack Height)	-FG = Gold Flash -G = 10µ" (0.25 µm) Gold on contact, Gold Flash on tail -H = 30µ" (0.76 µm) Gold on contact, Gold Flash on tail		-A = Alignment Pin (Not available with -WT) -WT = Weld Tab (Not available with -A) (Required callout for A-SEML)	-K = (3.50 mm) .138" DIA Polyimide film Pick & Place Pad (Required for A-SEMS) -TR = Tape & Reel (Required for A-SEMS)

MATED HEIGHT



A-TEM LEAD STYLE	MATED HEIGHT*
-03.0	6 mm
-04.0	7 mm
-07.0	10 mm

*Processing conditions will affect mated height.



Note: Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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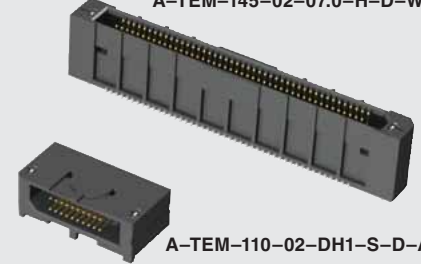


A-TEMS-125-02-03.0-H-D

A-TEM-145-02-07.0-H-D-WT



A-TEM-120-02-DH1-S-D-A



A-TEM-110-02-DH1-S-D-A

(0.80 mm) .0315"

A-TEM, A-TEMS, A-TEM-DH SERIES

MICRO TIGER EYE™ HEADER

A-TEM, A-TEM-DH
Mates with:
A-SEM, A-SEML

A-TEMS Mates with:
A-SEMS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-TEM or www.samtec.com?A-TEMS

Insulator Material: Black Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Au or Sn over 50µ" (1.27 µm) Ni
Operating Temp Range: -55°C to +125°C
Current Rating: 2.6 A per pin (1 pin powered per row)
RoHS Compliant: Yes

Processing: Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0.10 mm) .004" max

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



TYPE STRIP	1	NO. PINS PER ROW	02	STACK HEIGHT	PLATING OPTION	D	OPTION	OTHER OPTION
A-TEM = Tiger Eye™ Strip		05, 10, 15, 20, 25 30, 35, 40, 45, 50 (A-TEM only) (Standard sizes)		-03.0 = 6 mm Stack Height -04.0 = 7 mm Stack Height -07.0 = 10 mm Stack Height	-FG = Gold Flash -G = 10µ" (0.25 µm) Gold on contact, Gold Flash on tail -H = 30µ" (0.76 µm) Gold on contact, Gold Flash on tail		-A = Alignment Pin (Not available with -WT) -WT = Weld Tab (Not available with -A)	-K = (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (Required for A-TEMS) -TR = Tape & Reel (Required for A-TEMS)

(No. of Positions x (0.80) .0315) + (9.00) .354

(No. of Positions x (0.80) .0315) + (7.00) .276

(No. of Positions x (0.80) .0315) + (4.00) .1575

(No. of Positions x (0.80) .0315) + (7.00) .276

STACK HEIGHT	A	MATED HEIGHT* (WHEN MATED WITH A-SEM/A-SEMS)
-03.0	(5.610) .2209	6 mm
-04.0	(6.610) .2602	7 mm
-07.0	(9.610) .3783	10 mm

*Processing conditions will affect mated height.

28+
G b p s

E.L.P.
EXTENDED LIFE PRODUCT
10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles

OTHER SOLUTIONS

- Latching option: See A-TEM-L1 in Discrete Wire Cable section.
- Board Stacking: See A-SFM, A-TFM Series

Contact autosalesgroup@samtec.com

ALSO AVAILABLE (MOQ Required)

- Other sizes
 - Other platings
- Contact autosalesgroup@samtec.com

Note: Some sizes, styles and options are non-standard, non-returnable.

A-TEM	1	NO. OF POSITIONS	02	DH1	PLATING OPTION	D	OPTION
		10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)			-F = Gold Flash on contact, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail -S = 30µ" (0.76 µm) Gold on contact, Matte Tin on tail		-A = Alignment Pin

(No. of Positions x (0.80) .0315) + (9.00) .354

(No. of Positions x (0.80) .0315) + (4.00) .1575

(No. of Positions x (0.80) .0315) + (7.00) .276

-A OPTION

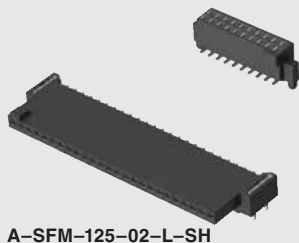
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A-SFM-110-02-L-D-A

A-SFML-125-T2-L-D



(1.27 mm) .050"

SMT & THROUGH-HOLE TIGER EYE™ SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SFM or www.samtec.com?A-SFML

Insulator Material: Black Liquid Crystal Polymer
Plating: Au or Sn over 50µ" (1.27 µm) Ni

Current Rating (A-SFM/A-TFM): 3.2 A per pin
(1 pin powered per row)

Voltage Rating: 250 VAC mated with A-TFM

Operating Temp Range: -55°C to +125°C

Contact Resistance: 15 mΩ

Insertion Depth: (3.05 mm) .120" to (4.06 mm) .160"

Wiping Distance: (0.38 mm) .015"

Normal Force: Standard= 132 g (1.29 N) avg.; LIF= 90 g (0.88 N) avg.

Insertion Force (A-SFM): (Single contact only) Standard= 2.5 oz (0.69 N) avg.; LITE= 2.0 oz (0.56 N) avg.; LIF= 1.4 oz (0.39 N) avg.

Withdrawal Force (A-SFM): (Single contact only) Standard= 2.0 oz (0.56 N) avg.; LITE= 1.5 oz (0.42 N) avg.; LIF= 1.0 oz (0.28 N) avg.

Max Cycles: 10,000 with 30µ" (0.76 µm) Au (Call Samtec for E.L.P.™ plating option)

RoHS Compliant: Yes

Processing: Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0.10 mm) .004" max (05-25) (0.15 mm) .006" max (30-50)

A-SFM Mates with: A-TFM
A-SFML Mates with: A-TFML



Low insertion force Tiger Eye™ contacts available

(1.27 mm x 1.27 mm) .050" x .050" micro pitch

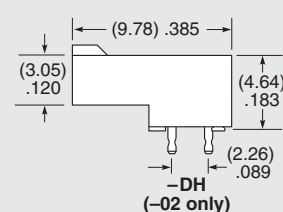
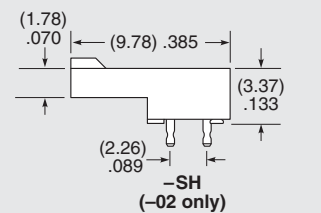
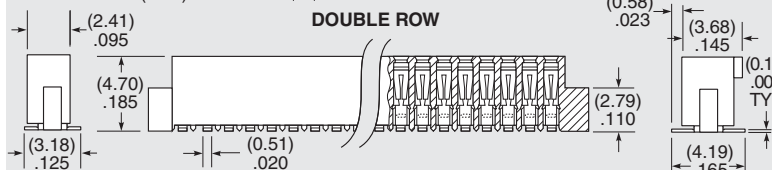
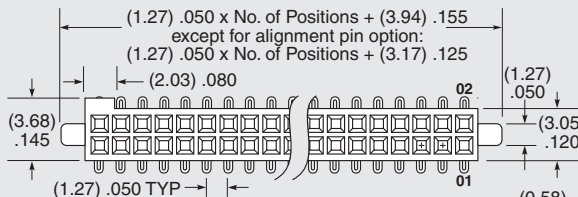
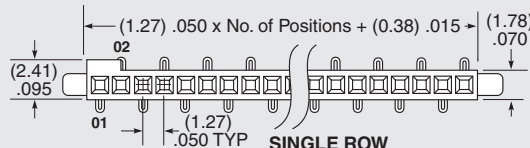
Locking feature increases unmating force (A-SFML)

Choice of SMT or through-hole tails

RUGGEDIZED BY SAMTEC

- Passes 10 Year MFG
- Locking option
- Screw Down option

TYPE STRIP	NO. PINS PER ROW	LEAD STYLE								
1	03, 04, 06, 08 (A-SFM only) 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)	<table border="1"> <tr> <th>(Surface Mount)</th> <th>(Through-hole)</th> </tr> <tr> <td>-02 = Tiger Eye™ Contact (BeCu)</td> <td>-01, -03 = Tiger Eye™ Contact (BeCu)</td> </tr> <tr> <td>-L2 = Low Insertion Force Tiger Eye™ Contact (BeCu)</td> <td>-L1, -L3 = Low Insertion Force Tiger Eye™ Contact (BeCu)</td> </tr> <tr> <td>-T2 = Tiger Eye™ LITE Contact (Phosphor Bronze)</td> <td>-T1 = Tiger Eye™ LITE Contact (Phosphor Bronze)</td> </tr> </table>	(Surface Mount)	(Through-hole)	-02 = Tiger Eye™ Contact (BeCu)	-01, -03 = Tiger Eye™ Contact (BeCu)	-L2 = Low Insertion Force Tiger Eye™ Contact (BeCu)	-L1, -L3 = Low Insertion Force Tiger Eye™ Contact (BeCu)	-T2 = Tiger Eye™ LITE Contact (Phosphor Bronze)	-T1 = Tiger Eye™ LITE Contact (Phosphor Bronze)
(Surface Mount)	(Through-hole)									
-02 = Tiger Eye™ Contact (BeCu)	-01, -03 = Tiger Eye™ Contact (BeCu)									
-L2 = Low Insertion Force Tiger Eye™ Contact (BeCu)	-L1, -L3 = Low Insertion Force Tiger Eye™ Contact (BeCu)									
-T2 = Tiger Eye™ LITE Contact (Phosphor Bronze)	-T1 = Tiger Eye™ LITE Contact (Phosphor Bronze)									



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

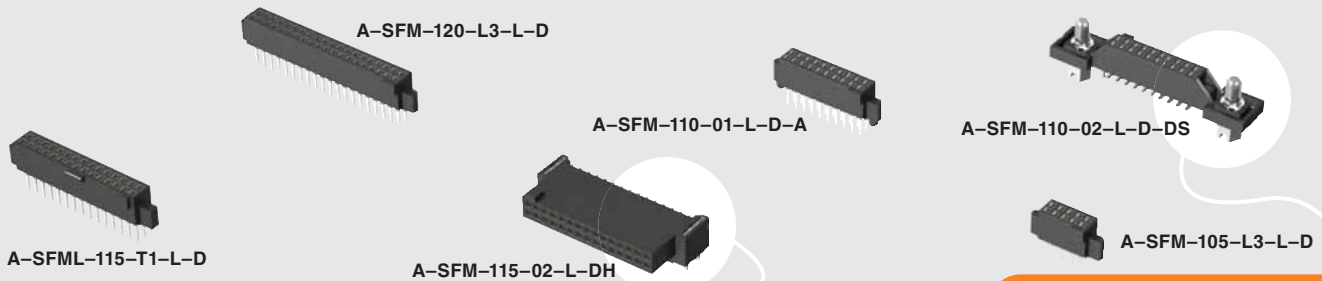


Note: Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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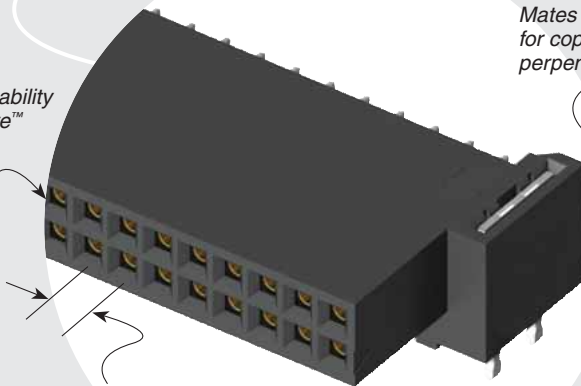
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A-SFM, A-SFML SERIES



High reliability
Tiger Eye™
contacts

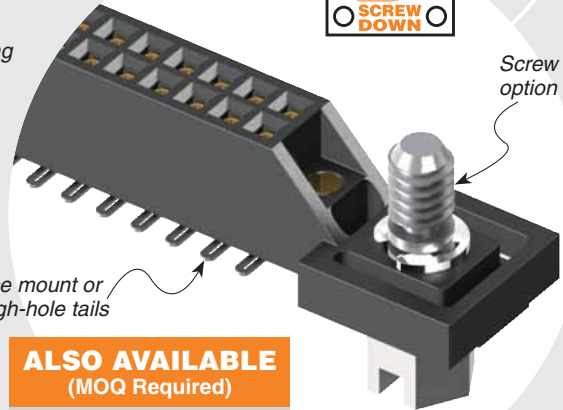


(1.27 mm x 1.27 mm)
.050" x .050" micro pitch

OTHER SOLUTIONS

- Lower cost plating options. See A-SFC Series.

Mates with A-TFM
for coplanar and
perpendicular mating



Screw down
option

Surface mount or
Through-hole tails

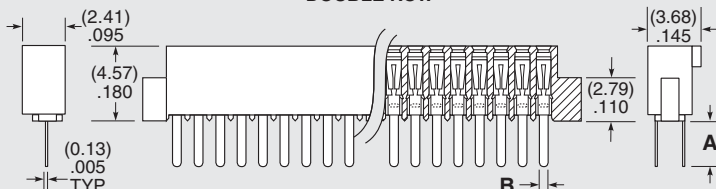
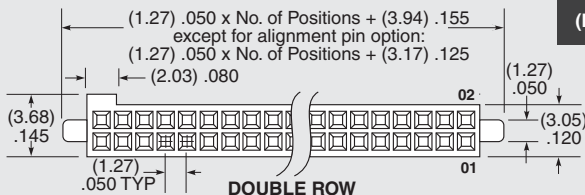
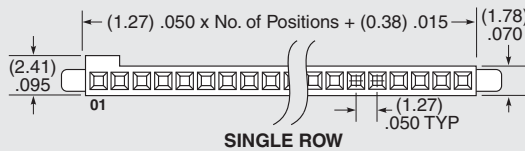
ALSO AVAILABLE (MOQ Required)

- Solder nail option
- Other sizes
- Other platings
- Contact Samtec.

PLATING OPTION

-L
= 10µ" (0.25 µm) Gold on contact, Matte Tin on tail
(Call Samtec for E.L.P.™ plating option)

LEAD STYLE	A	B
-01, -L1, -T1	(3.05) .120	(0.51) .020
-03, -L3	(1.91) .075	(0.41) .016



ROW OPTION

-S
= Single Row
(A-SFM only)

-D
= Double Row

-SH
= Single Horizontal
(05 thru 30 positions only)
(A-SFM only)
(Lead style -02 only)

-DH
= Double Horizontal
(05 thru 30 positions only)
(A-SFM only)
(Lead style -02 only)

OPTION

Specify only **-A** or **-DS**
(Not available with **-DH**, **-SH**)

-A
= Alignment Pin
(Available with all Lead Styles)

-DS
= Dual Screw Down for
(1.60 mm) .062" PCB
(05 thru 40 positions only)
(Lead styles -01, -02 & -03 only)
(Requires **-D** row option)
(Not available with A-SFML)
(Mates with A-TFM-DS option)
(Not available with **-A**, **-K**, **-P**, **-TR**)

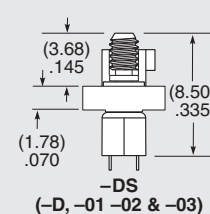
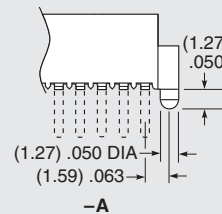
Specify only **-K** or **-P**
(Lead styles -02, -L2, -T2 only)

-K
= Polyimide film
Pick & Place Pad
(Not available
with **-DH**, **-SH**)

-P
= Plastic Pick &
Place Pad
(Not available
with **-DH**, **-SH**)

Specify **-TR** last
(Lead styles -02,
-L2, -T2 only)

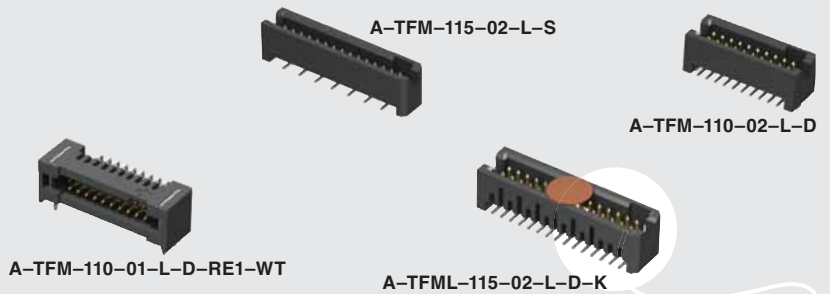
-TR
= Tape & Reel
(Required callout
for **-DH**, **-SH**)



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(1.27 mm) .050"

SMT & THROUGH-HOLE HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-TFM or www.samtec.com?A-TFML

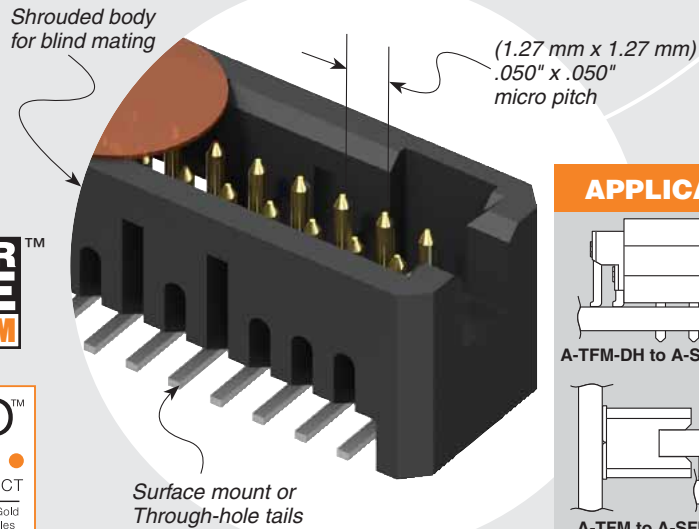
Insulator Material: Black Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Au or Sn over 50µ" (1.27 µm) Ni
Current Rating (A-TFM/A-SFM): 3.2 A per pin (1 pin powered per row)
Voltage Rating: 250 VAC mated with A-SFM
Operating Temp Range: -55°C to +125°C
RoHS Compliant: Yes

Processing: Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0.10 mm) .004" max (05-25)
 (0.15 mm) .006" max (30-50)

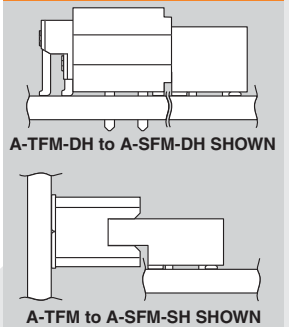
A-TFM Mates with:
A-SFM, A-SFMC

A-TFML Mates with:
A-SFML

A-TFM-DH Mates with:
A-SFM (-DH), A-SFMC



APPLICATIONS



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



MATED HEIGHT

LEAD STYLE		MATED HEIGHT*
A-TFM	A-SFM	
-02	-02	(6.35) .250
-12		(8.13) .320
-22		(9.91) .390
-32		(11.81) .465
LEAD STYLE		MATED HEIGHT*
A-TFM	A-SFM	
-01	-01	(5.97) .235
-03		(5.97) .235
-11		(7.75) .305
-13		(7.75) .305
-21		(9.53) .375
-23		(9.53) .375
-31	(11.43) .450	

*Processing conditions will affect mated height.

OTHER SOLUTIONS

- Lower cost plating options. See A-TFC Series.

Note: Some sizes, styles and options are non-standard, non-returnable.

TYPE STRIP

1

NO. PINS PER ROW

03, 04, 06, 08
(A-TFM -01 & -02 only)

05, 07, 10, 15, 20,
25, 30, 35, 40, 45, 50
(Standard sizes)

LEAD STYLE

Specify LEAD STYLE from chart

PLATING OPTION

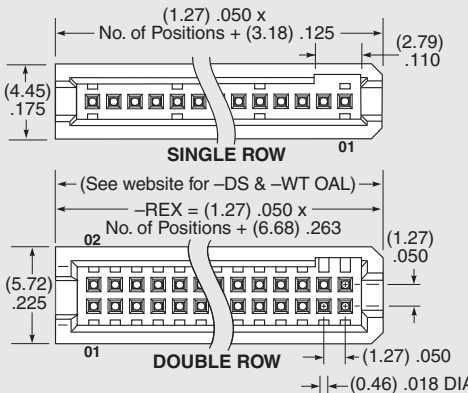
-L
= 15µ" (0.38 µm)
Gold on post,
Matte Tin on tail
(Call Samtec for E.L.P.™ plating option)

A-TFM
= Standard

A-TFML
= Locking
(-01 & -02 lead style only)

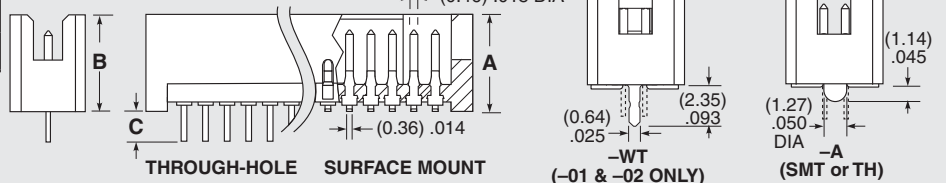
LEAD STYLE (T/H)	B	C
-01	(5.59) .220	(1.97) .078
-03*	(5.59) .220	(2.77) .109
-11*	(7.37) .290	(1.97) .078
-13*	(7.37) .290	(2.77) .109
-21*	(9.14) .360	(1.97) .078
-23*	(9.14) .360	(2.77) .109
-31*	(11.05) .435	(1.97) .078

* N/A with 07 or -S row option



LEAD STYLE (SMT)	A
-02	(5.72) .225
-12*	(7.49) .295
-22*	(9.27) .365
-32*	(11.18) .440

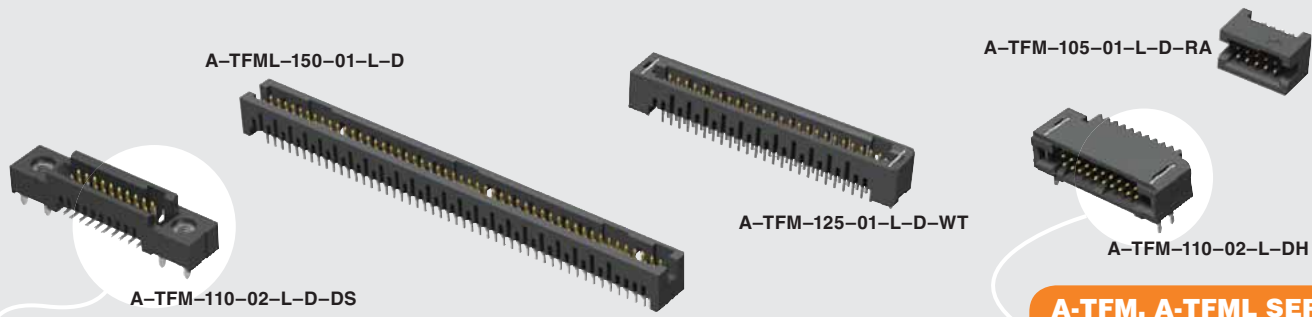
* N/A with 07, -DH or -S row option



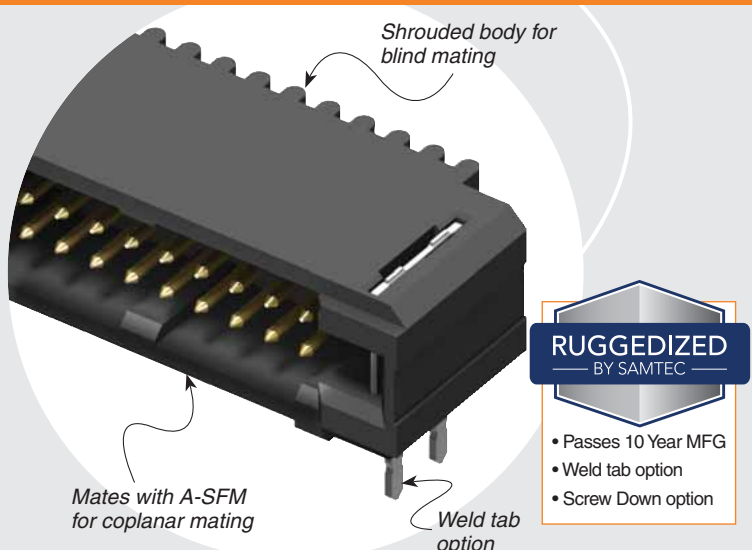
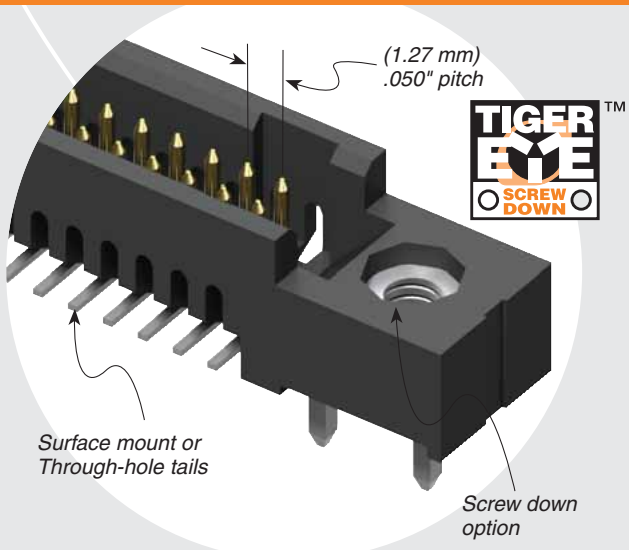
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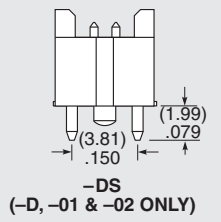
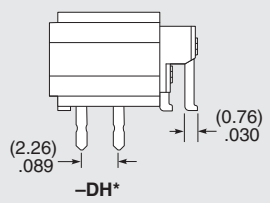
A-TFM, A-TFML SERIES



- Passes 10 Year MFG
- Weld tab option
- Screw Down option

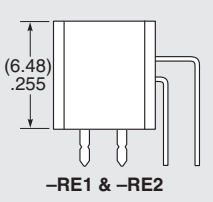
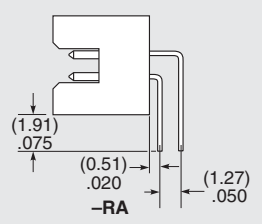
ROW OPTION

- S**
= Single Row (A-TFM only)
- D**
= Double Row
- DH***
= Double Horizontal (A-TFM lead style -02 only) (05 thru 50 positions only) (-TR option only available)



OPTION

- Specify only **-RA**, **-RE1** or **-RE2**
- RA**
= Right Angle (Lead style -01 only)
- RE1**
= Right Angle Elevated for (1.58 mm) .062" PCB (Requires A-TFM lead style -01, -D row and -WT)
- RE2**
= Right Angle Elevated for (2.36 mm) .093" PCB (Requires A-TFM lead style -01, -D row and -WT)



- Specify only **-A**, **-DS** or **-WT**
Not available with **-RA**, **-RE1** and **-RE2** unless otherwise noted.
- A**
= Alignment Pin
- DS**
= Dual Screw Down for (1.60 mm) .062" PCB (05, 07, 10, 15, 20, 25, 30, 35, 40 positions only) (A-TFM lead styles -01 and -02 only) (Requires -D row option) (Mates with A-SFM-DS option only) (Not available with -A, -WT, -K, -P, -TR)
- WT**
= Weld Tab (A-TFM lead styles -01 and -02 only) (Required callout for -RE1 & -RE2) (05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 positions only)

* Note: Weld tab is standard on -DH option. No need to specify -WT.

- SMT lead styles only
Specify only **-K** or **-P**
- K**
= Polyimide Film Pick & Place Pad
- P**
= Plastic Pick & Place Pad (5 positions minimum) (Not available with 5 position with -WT)
- Specify **-TR** last
- TR**
= Tape & Reel (Not available with -DS)

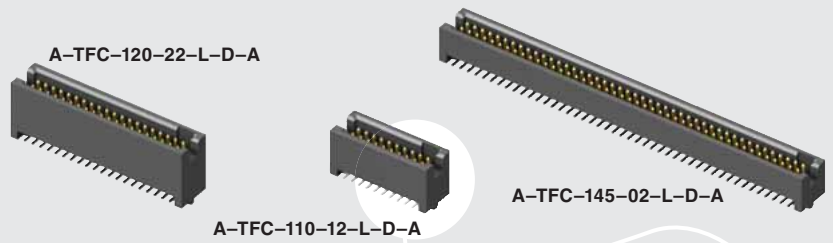
ALSO AVAILABLE (MOQ Required)

- Solder nail option
- Other sizes
- Other platings
- Contact autosalesgroup@samtec.com

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

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A-TFC SERIES

(1.27 mm) .050"

COST SAVING RELIABLE HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-TFC

Insulator Material:
Black Liquid Crystal Polymer

Terminal Material:
Phosphor Bronze

Plating:
Au or Sn over 50µ" (1.27 µm) Ni

Current Rating:
2.9 A per pin
(1 pin powered per row)

Voltage Rating:
350 VAC mated with A-SFC

Operating Temp Range:
-55°C to +125°C

RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes

SMT Lead Coplanarity:
(0.10 mm) .004" max (03-25)
(0.15 mm) .006" max (30-50)

Mates with:
A-SFC

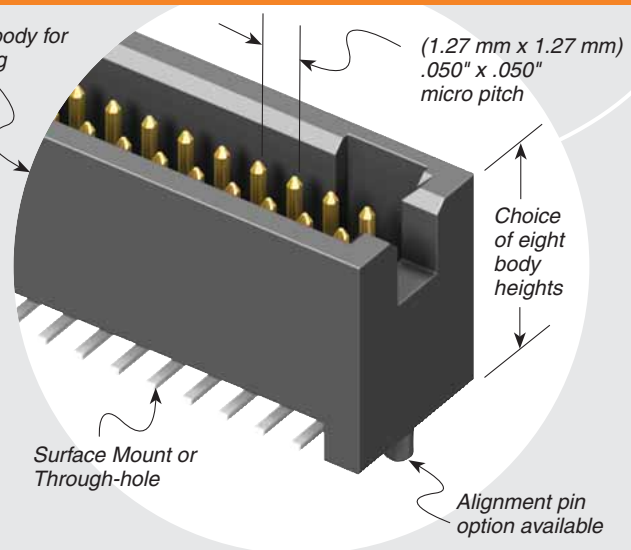


MATED HEIGHTS

LEAD STYLE		MATED HEIGHT*
A-TFC	A-SFC	
-01	-T1	(5.97) .235
-11		(7.75) .305
-21		(9.53) .375
-31	-T2	(11.43) .450
-02		(6.35) .250
-12		(8.13) .320
-22		(9.91) .390
-32	(11.81) .465	

*Processing conditions will affect mated height.

Shrouded body for blind mating



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

A-TFC - 1 NO. PINS PER ROW - LEAD STYLE - PLATING OPTION - D - OPTION

03, 04, 06, 08
(Lead Style -01 & -02 only)

05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50
(Standard sizes)

-X1 = Through-hole
-X2 = Surface Mount

-F = Gold flash on post, Matte Tin on tail
-L = 10µ" (0.25 µm) Gold on post, Matte Tin on tail

-RA = Right Angle (-01 only)
-A = Alignment Pin
-K = (6.75 mm) .266" DIA Polyimide film Pick & Place Pad
-P = Plastic Pick & Place Pad (5 positions min.)
-TR = Tape & Reel (-X2 only)

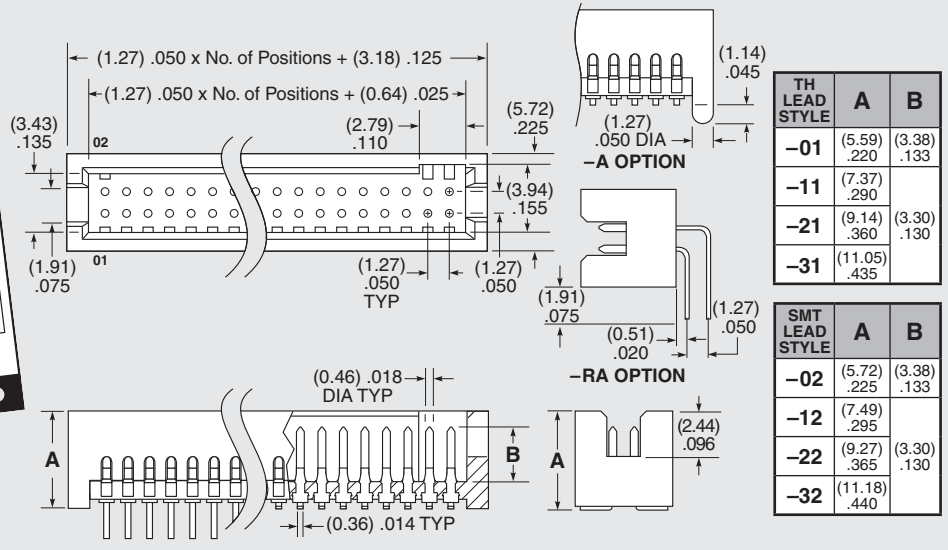
ALSO AVAILABLE (MOQ Required)

- Other sizes

Contact autosalesgroup@samtec.com

TAPE & REEL AVAILABILITY

No tooling charges.
Minimum order is the lesser of a full reel quantity or 125 pieces.
Order any quantity above minimum.
In-house design, manufacture.
Quick turn-around.
Call Samtec for specifications and ordering information.



Note: Some sizes, styles and options are non-standard, non-returnable.

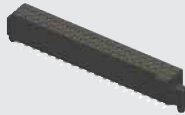
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A-SFC-120-T2-L-D-A



A-SFC-110-T1-L-D-A



A-SFC-135-T2-L-D-A-K



A-SFC SERIES

(1.27 mm) .050"

COST SAVING RELIABLE SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SFC

Insulator Material: Black Liquid Crystal Polymer
Contact Material: Phosphor Bronze
Plating: Au or Sn over 50µ" (1.27 µm) Ni

Current Rating: 2.9 A per pin
 (1 pin powered per row)

Voltage Rating: 350 VAC mated with A-TFC

Operating Temp Range: -55°C to +125°C

Contact Resistance: 15 mΩ

Insertion Depth: (3.05 mm) .120" to (4.06 mm) .160"

Insertion Force: (Single contact only) 2.5 oz (0.69 N) avg.

Withdrawal Force: (Single contact only) 2.0 oz (0.56 N) avg.

Max Cycles: 10,000 with 30µ" (0.76 µm) Au

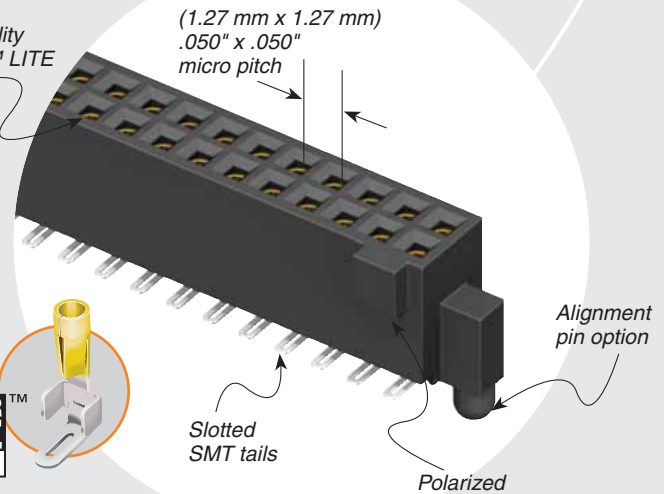
RoHS Compliant: Yes

Processing: Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0.10 mm) .004" max (04-25) (0.15 mm) .006" max (30-50)

Mates with: A-TFC

High reliability Tiger Eye™ LITE contacts



A-SFC	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	OPTION
		04, 05, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)	-T1 = Through-hole Tiger Eye™ LITE -T2 = Surface Mount Tiger Eye™ LITE	-F = Gold flash on contact, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail		-A = Alignment Pin -K = (4.00 mm) .157" DIA Polyimide film Pick & Place Pad -TR = Tape & Reel (-T2 only)

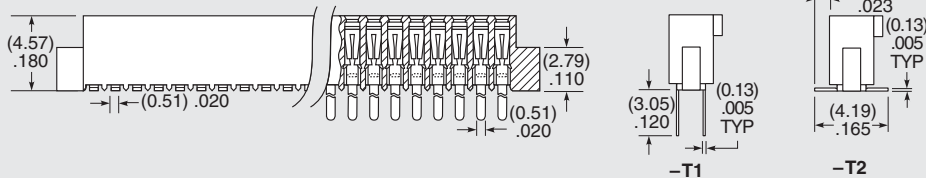
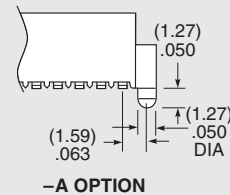
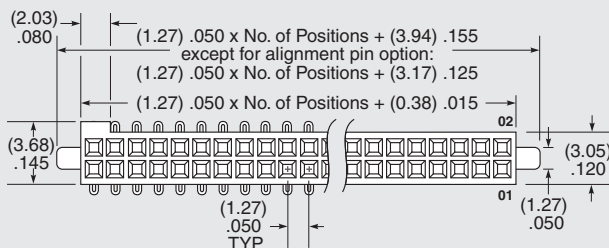
RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

• Other sizes
 Contact autosalesgroup@samtec.com



Note: Some sizes, styles and options are non-standard, non-returnable.

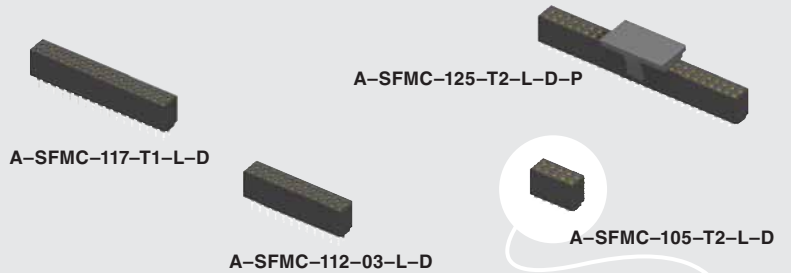
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(1.27 mm) .050"



A-SFMC SERIES

FLEXIBLE PIN COUNT TIGER EYE™ SOCKETS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SFMC

Insulator Material:
Black Liquid Crystal Polymer
Contact Material:
Tiger Eye™ = BeCu
Tiger Eye™ LITE = Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni
Operating Temp Range:
-55°C to +125°C
Contact Resistance:
15 mΩ
Insertion Depth:
(3.05 mm) .120" to (4.06 mm) .160"
Insertion Force:
(Single contact only)
Standard= 2.5 oz (0.69 N) avg.
LITE= 2.0 oz (0.56 N) avg.
LIF= 1.5 oz (0.42 N) avg.
Normal Force:
Standard= 132g (1.29 N) avg.
LIF= 90g (0.88 N) avg.
Withdrawal Force:
(Single contact only)
Standard= 2.0 oz (0.56 N) avg.
LITE= 1.5 oz (0.42 N) avg.
LIF= 1.5 oz (0.42 N) avg.
Max Cycles:
10,000 with 30µ" (0.76 µm) Au
RoHS Compliant:
Yes
Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (02-26)
(0.15 mm) .006" max (27-50)

Mates with:
A-TFM



High reliability Tiger Eye™ contacts

Any number of positions from 2 through 50

Slotted SMT tails

Available with optional Pick & Place Pads



02 thru 50

LEAD STYLE	A	B
-01, -L1, -T1	(3.05) .120	(0.51) .020
-03, -L3	(1.91) .075	(0.41) .016

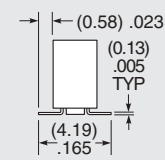
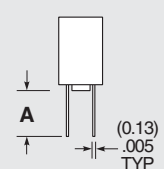
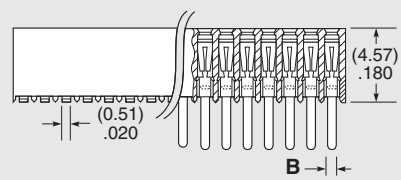
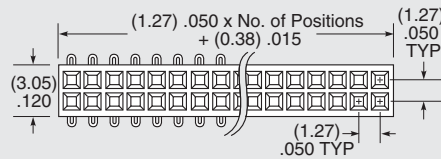
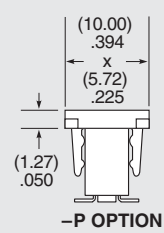
- 01, -03 = Through-hole
- L1, -L3 = Low Insertion Force Through-hole
- 02 = Surface Mount
- L2 = Low Insertion Force Surface Mount
- T1 = Through-hole Tiger Eye™ LITE
- T2 = Surface Mount Tiger Eye™ LITE

-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail

-K = (4.00 mm) .157 DIA Polyimide film Pick & Place Pad (4 positions minimum)

-P = Plastic Pick & Place Pad (5 positions minimum)

-TR = Tape & Reel



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact autosalesgroup@samtec.com

Note: Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

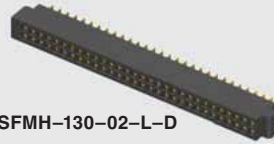
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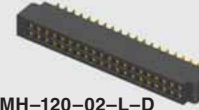
A-FSH-120-04-F-RA-SL



A-FSH-110-04-L-DH-SL



A-SFMH-130-02-L-D

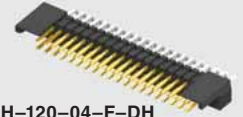


A-SFMH-105-02-L-D



A-SFMH-120-02-L-D

A-FSH-120-04-F-DH



A-FSH, A-SFMH SERIES

(1.27 mm) .050"

HIGH RELIABLE HORIZONTAL SMT

A-FSH Mates with:

A-SFMH

A-SFMH Mates with:

A-FTSH, A-FSH

SPECIFICATIONS

For complete specifications see www.samtec.com?A-FSH or www.samtec.com?A-SFMH

A-FSH

Insulator Material:

Black Liquid

Crystall Polymer

Terminal Material:

Phosphor Bronze

Plating:

Sn or Au over

50µ" (1.27 µm) Ni

Current Rating (A-FSH/A-SFMH):

2.6 A per pin

(1 pin powered per row)

Operating Temp Range:

-55°C to +125°C

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0.15 mm) .006" max

A-SFMH

Same as A-FSH except:

Plating:

Au over 50µ" (1.27 µm) Ni

Contact Resistance:

15 mΩ

Insertion Depth:

(3.35 mm) .132" to

(4.57 mm) .180"

Insertion Force:

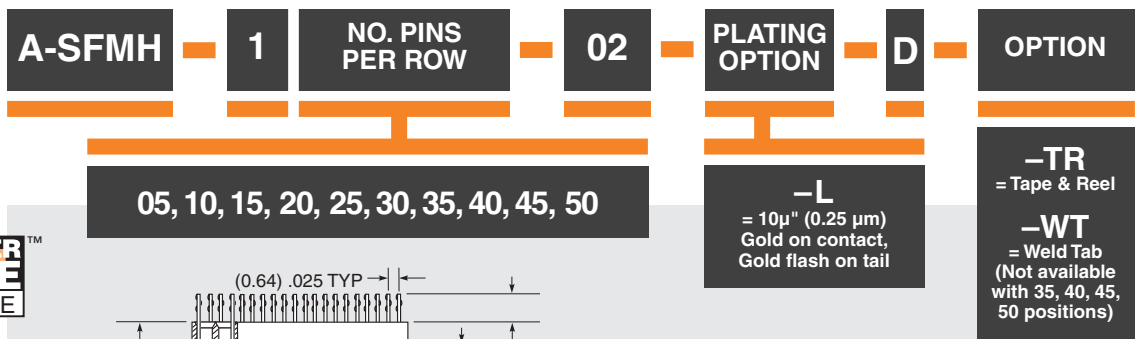
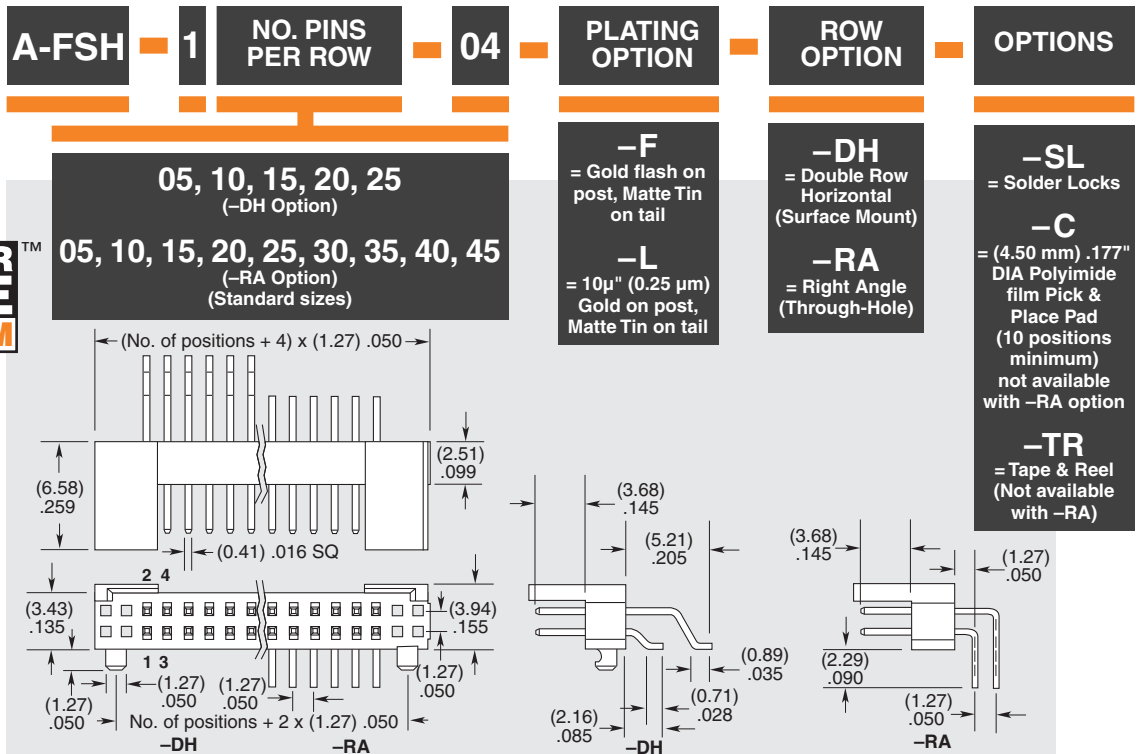
2.5 oz (0.69 N) average

Withdrawal Force:

2.0 oz (0.56 N) average

SMT Lead Coplanarity:

(0.10 mm) .004" max



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

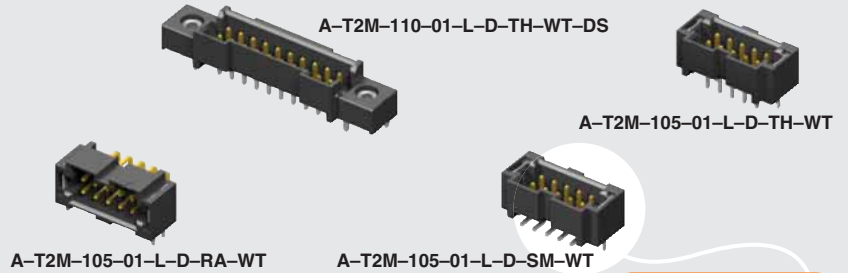


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A-T2M SERIES

(2.00 mm) .0787"

HIGH RELIABILITY CABLE HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-T2M

Insulator Material: Black Liquid Crystal Polymer
Terminal Material: Phosphor Bronze

Plating:

Sn or Au over 50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +105°C with Tin; -55°C to +125°C with Gold

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0.10 mm) .004" max

RECOGNITIONS

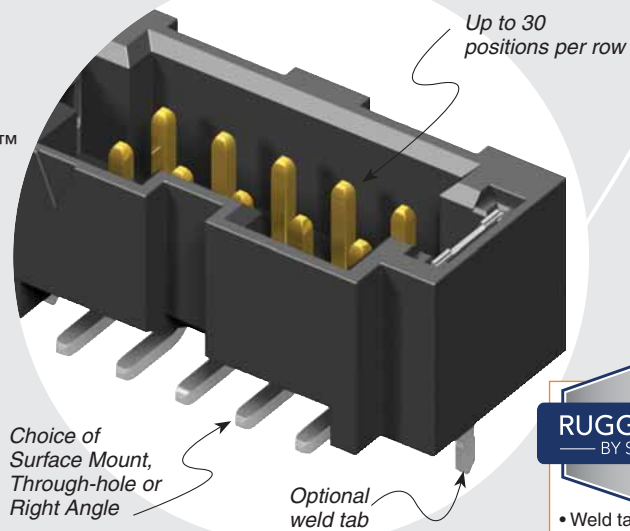
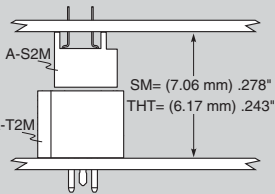
For complete scope of recognitions see www.samtec.com/quality



Mates with:
A-S2M



MATED HEIGHT



RUGGEDIZED
BY SAMTEC

• Weld tabs



05, 07, 10, 15, 20, 25, 30
(Per Row)

-L
= 10µ" (0.25 µm)
Gold on contact,
Matte Tin on tail

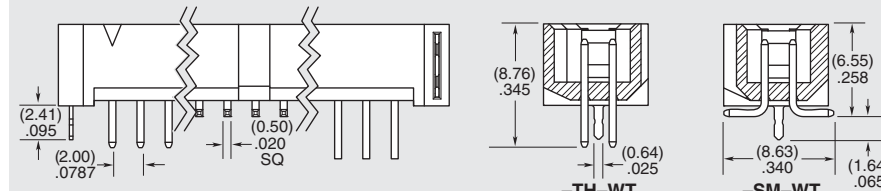
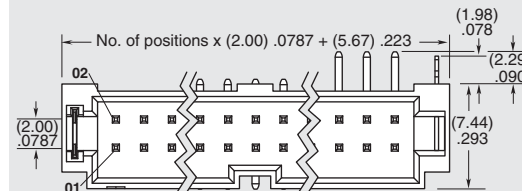
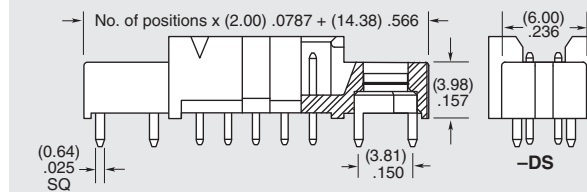
-TH
= Through-hole
-RA
= Right Angle
-SM
= Surface Mount

-K
= (7.50 mm)
.295" DIA
Polyimide film
Pick &
Place Pad
(-SM only)

-TR
= Tape & Reel
(-SM only)

-WT
= Weld Tab

-DS
= Screw Down
(N/A with -RA)
(mates with A-S2M-DS)



ALSO AVAILABLE
(MOQ Required)

• Other platings
Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

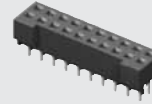
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A-S2M-105-01-L-D-DS



A-S2M-105-02-F-D



A-S2M-110-01-L-D

A-S2M SERIES

(2.00 mm) .0787"

HIGH RELIABILITY CABLE SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-S2M

Insulator Material:

Black Liquid Crystal Polymer

Contact Material:

BeCu

Plating:

Sn or Au over

50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C

Contact Resistance:

10 mΩ max

Insertion Depth:

(3.05 mm) .120" to

(3.25 mm) .128"

Insertion Force:

(Single contact only)

2.0 oz (0.56 N) average

Withdrawal Force:

(Single contact only)

1.5 oz (0.42 N) average

Max Cycles:

100 with 10µ" (0.25 µm) Au

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

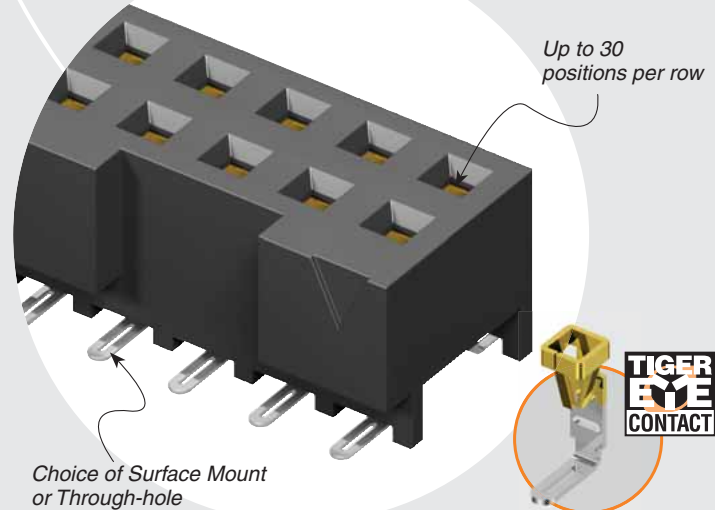
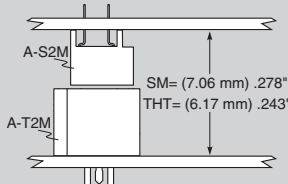
(0.10 mm) .004" max

Mates with:

A-T2M



MATED HEIGHT



A-S2M	1	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	D	OPTION	OTHER OPTION
		05, 07, 10, 15, 20, 25, 30 (Per Row)	-01 = Through-hole -02 = Surface Mount	-F = Gold flash on contact, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail		-K = (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (-SM only) -DS = Screw Down (mates with A-T2M-DS)	-TR = Tape & Reel Packaging

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable.

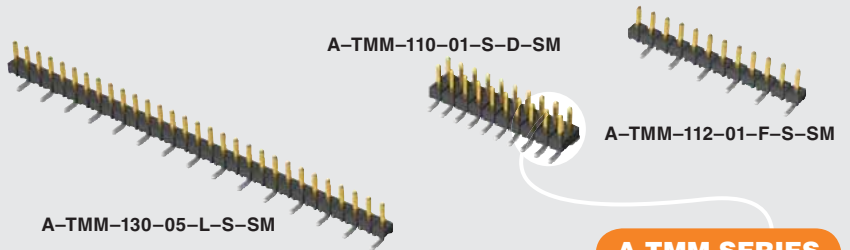
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(2.00 mm) .0787"



A-TMM SERIES

LOW PROFILE SMT HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-TMM

Insulator Material: Black Liquid Crystal Polymer

Terminal Material: Phosphor Bronze

Plating: Sn or Au over 50µ" (1.27 µm) Ni

Current Rating: 3.2 A per pin (1 pin powered per row)

Operating Temp Range: -55°C to +105°C with Tin; -55°C to +125°C with Gold

Voltage Rating: 500 VAC mated with A-SQW 450 VAC mated with A-SQT

RoHS Compliant: Yes

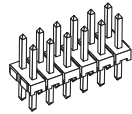
Processing: Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0.15 mm) .006" max

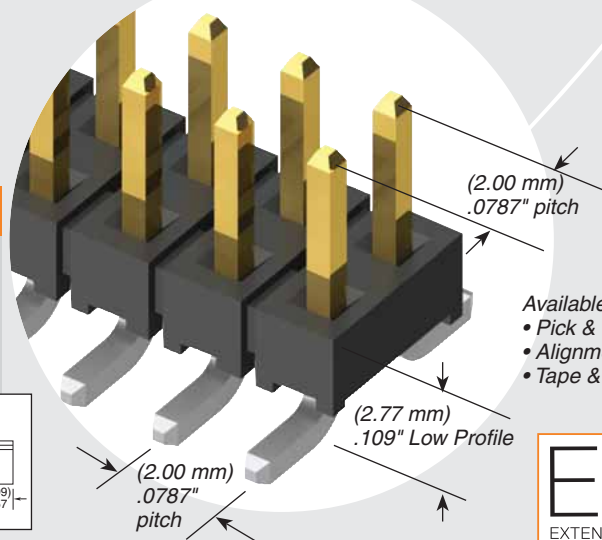
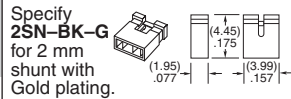
Mates with:
A-CLT, A-SQT, A-SQW,
A-ESQT, A-SMM, A-MMS

OTHER SOLUTIONS

Through-Hole



2 mm Shunt



Available with optional
• Pick & Place Pads
• Alignment pins
• Tape & reel packaging



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



02 thru 40

Specify LEAD STYLE from chart below.

-F
= Gold flash on post, Matte Tin on tail

-L
= 10µ" (0.25 µm) Gold on post, Matte Tin on tail

-S
= 30µ" (0.76 µm) Gold on post, Matte Tin on tail

-T
= Matte Tin

-S
= Single Row

-D
= Double Row

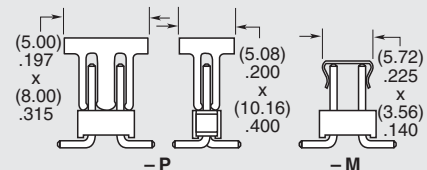
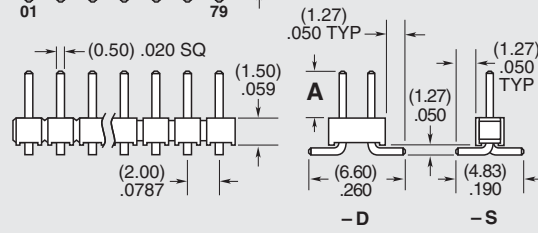
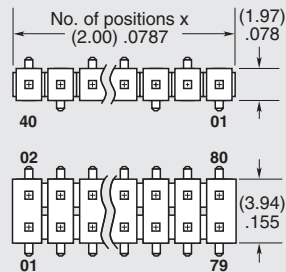
-A
= Alignment Pin (Metal or plastic at Samtec's discretion) (5 positions minimum) (-D only)

-M
= Metal Pick & Place Pad (4 positions minimum) (-T plating not available) (-D only)

-P
= Pick & Place Pad (3 positions minimum)

-TR
= Tape & Reel Packaging (3 thru 36 positions only)

LEAD STYLE	A	MATES WITH
-01	(3.20) .126	A-SQT, A-SQW, A-ESQT, A-SMM, A-MMS
-04	(1.91) .075	A-CLT
-05	(1.65) .065	A-CLT
-06	(4.27) .168	A-CLT-BE



ALSO AVAILABLE (MOQ Required)

• Other platings
Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable.

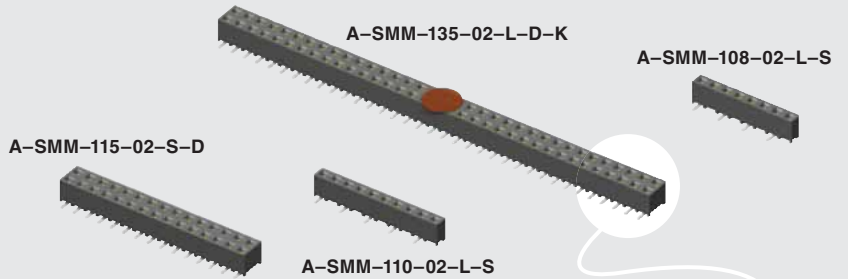
Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.



(2.00 mm) .0787"



A-SMM SERIES

TIGER EYE™ SOCKET STRIP

SPECIFICATIONS

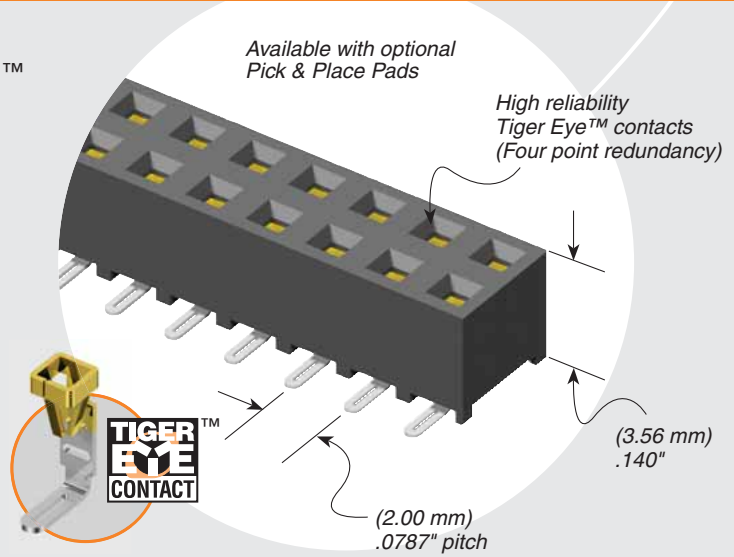
For complete specifications and recommended PCB layouts see www.samtec.com?A-SMM

Insulator Material:
Black Liquid Crystal Polymer
Contact Material:
BeCu
Plating: Sn or Au over 50µ" (1.27 µm) Ni
Current Rating (A-TMM/A-SMM):
3.2 A per pin (1 pin powered per row)
Voltage Rating:
350 VAC
Operating Temp Range:
-55°C to +125°C
Contact Resistance:
10 mΩ
Insertion Depth:
(3.05 mm) .120" to (3.25 mm) .128"
Insertion Force:
(Single contact only) 2.0 oz (0.56 N) average
Withdrawal Force:
(Single contact only) 1.5 oz (0.42 N) average
Max Cycles:
100 with 10µ" (0.25 µm) Au
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max

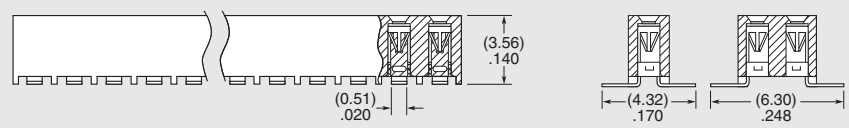
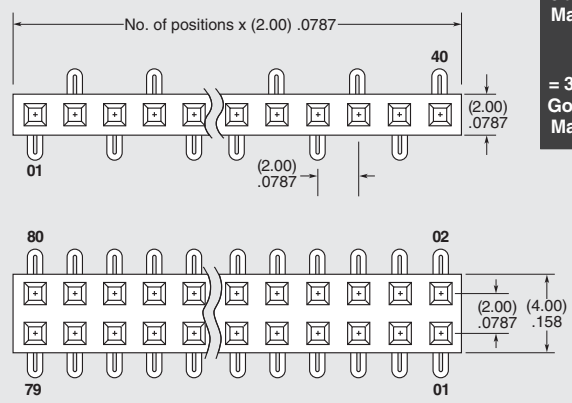
Mates with:

A-TMM, A-TMMH, A-MTMM, A-MMT, A-LTMM, A-TW, A-ZLTMM



02 thru 40

- F**
= Gold flash on contact, Matte Tin on tail
- L**
= 10µ" (0.25 µm) Gold on contact, Matte Tin on tail
- S**
= 30µ" (0.76 µm) Gold on contact, Matte Tin on tail
- S**
(3.81) .150 x (7.62) .300
- D**
(5.71) .225 x (10.01) .394
- K**
= (5.50 mm) .217" DIA Polyimide Film Pick & Place Pad (2 positions minimum, -02 thru -05 requires -TR)
- P**
= Plastic Pick & Place Pad (-02 thru -05 requires -TR)
- TR**
= Tape & Reel Packaging (27 positions maximum)



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

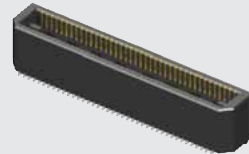
- Other platings
- Contact autosalesgroup@samtec.com

POLARIZING KEY

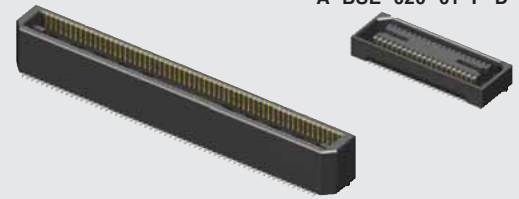
Specify PK-01-07 for polarizing key (Available in wheels of six each).

Note: Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.



A-BTE-040-02-L-D-A



A-BTE-060-02-F-D-A

A-BTE, A-BSE SERIES

BASIC BLADE & BEAM HEADER & SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-BTE or www.samtec.com?A-BSE

Insulator Material: Liquid Crystal Polymer
Contact Material: Phosphor Bronze
Plating: Au or Sn over 50µ" (1.27 µm) Ni
Current Rating: 2 A per pin (1 pin powered per row)
Operating Temp Range: -55°C to +125°C
Voltage Rating: 225 VAC with 5 mm Stack Height
Max Cycles: 100
RoHS Compliant: Yes

Processing:
Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0.10 mm) .004" max (020-080) (0.15 mm) .006" max (100-120)
Board Stacking: For applications requiring more than two connectors per board or 80 positions or higher, contact ipg@samtec.com

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



MATED HEIGHT

LEAD STYLE	MATED HEIGHT*
-01	(5.00) .197
-02	(8.00) .315

*Processing conditions will affect mated height.

ALSO AVAILABLE (MOQ Required)

- 30µ" (0.76 µm) Gold
- Friction Lock option
- 11 mm, 14 mm, 16.10 mm, 19.10 mm, 22 mm, 25 mm and 30 mm Stack Height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)

Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable.

A-BTE — **POSITIONS PER ROW** — **LEAD STYLE** — **PLATING OPTION** — **D** — **A** — **OTHER OPTION**

Mates with: **A-BSE**

-020, -040, -060, -080, -100, -120

No. of positions x (0.80) .0315 + (4.00) .1575

LEAD STYLE	A
-01	(4.27) .168
-02	(7.21) .284

-F = Gold Flash on contact, Matte Tin on tail
-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail
-C* = Electro-Polished Selective 50µ" (1.27 µm) min Au over 150µ" (3.81 µm) Ni on Signal Pins in contact area, Matte Tin over 50µ" (1.27 µm) min Ni on all solder tails

-K = (7.00 mm) .275" DIA Polyimide Film Pick & Place Pad
-TR = Tape & Reel (60 positions maximum)

*Note: -C Plating passes 10 year MFG testing

ELP™
 EXTENDED LIFE PRODUCT
 10 year Mixed Flowing Gas with 50µ" Gold
 Call Samtec for maximum mated cycles

RUGGEDIZED BY SAMTEC
 • Passes 10 year MFG

A-BSE — **POSITIONS PER ROW** — **01** — **PLATING OPTION** — **D** — **A** — **OTHER OPTION**

Mates with: **A-BTE**

-020, -040, -060, -080, -100, -120

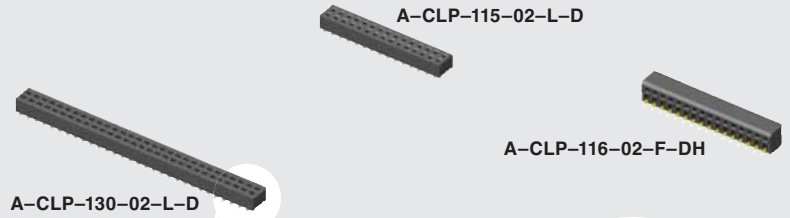
No. of positions x (0.80) .0315 + (5.27) .2075

-F = Gold Flash on contact, Matte Tin on tail
-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail
-C* = Electro-Polished Selective 50µ" (1.27 µm) min Au over 150µ" (3.81 µm) Ni on Signal Pins in contact area, Matte Tin over 50µ" (1.27 µm) min Ni on all solder tails

-TR = Tape & Reel (80 positions maximum)

*Note: -C Plating passes 10 year MFG testing

Due to technical progress, all designs, specifications and components are subject to change without notice.



A-CLP SERIES

(1.27 mm) .050"

LOW PROFILE DUAL WIPE SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-CLP

Insulator Material: Black Liquid Crystal Polymer
Contact Material: Phosphor Bronze

Plating: Sn or Au over 50µ" (1.27 µm) Ni
Current Rating (A-CLP/A-FTSH): 3.3 A per pin (1 pin powered per row)

Voltage Rating: 240 VAC/340 VDC

Operating Temp Range: -55°C to +125°C

Contact Resistance: 10 mΩ

Insertion Depth: Top Entry = (1.40 mm) .055" minimum, Bottom Entry = (2.41 mm) .095" minimum plus board thickness
DH Entry = (2.31 mm) .091" to (2.67 mm) .105"

Insertion Force: (Single contact only) 3.8 oz (1.05 N) average

Normal Force: 60 grams (0.59 N) average

Withdrawal Force: (Single contact only) 2 oz (0.56 N) average

Max Cycles: 100 with 10µ" (0.25 µm) Au

RoHS Compliant: Yes

Processing: Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0.10 mm) .004" max (02-35) (0.15 mm) .006" max (36-50)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

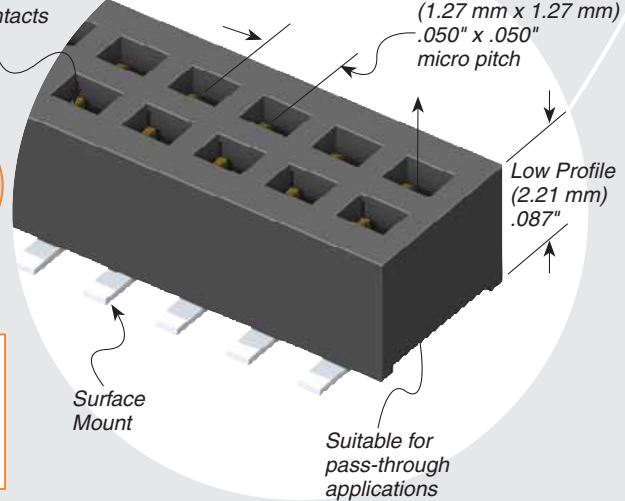
- Single row
- Other platings

Contact autosalesgroup@samtec.com

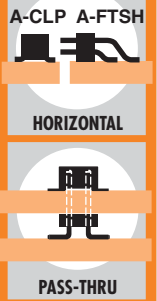
Mates with: **A-FTSH**



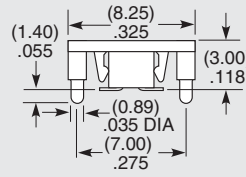
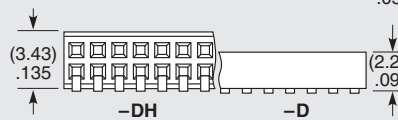
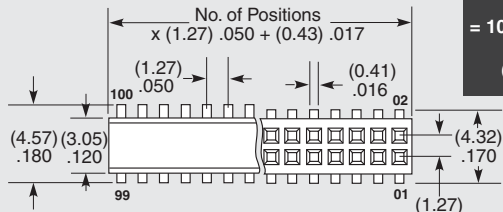
High reliability Tiger Claw™ contacts



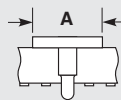
APPLICATIONS



A-CLP	1	NO. PINS PER ROW	02	PLATING OPTION	ROW OPTION	OTHER OPTION
02 thru 50				<p>-F = Gold flash on contact, Matte Tin on tail</p> <p>-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail</p> <p>-G = 10µ" (0.25 µm) Gold (-D only)</p>	<p>-D = Double Row</p> <p>-DH = Double Horizontal (Requires A-FTSH-01 lead style)</p>	<p>-BE = Bottom Entry (Required for bottom entry applications)</p> <p>-A = Alignment Pin (Not available with -PA option) (05, 06, 07, 08, 10, 12, 15, 20, 25, 30, 40 positions only) (-DH option and other sizes. Contact Samtec.)</p> <p>-K = (4.00 mm) .157" DIA Polyimide film Pick & Place Pad (5 positions min.)</p> <p>-PA = Pick & Place Pad with Alignment Pin (-D only) (Not Available with -A option)</p> <p>-TR = Tape & Reel</p>



PIN/ROW	A
04-15	(3.56) .140
16-50	(7.11) .280



Note: Some sizes, styles and options are non-standard, non-returnable.

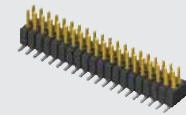
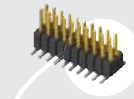
If odd pins/row, alignment pins are on middle position on centerline of the part. If even pins/row, then alignment pins are between middle two positions.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM



A-FTSH-110-01-L-DV



A-FTSH-120-01-F-DV

(1.27 mm) .050"

SMT MICRO HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-FTSH

Insulator Material:
Black Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Sn or Au over 50µ" (1.27 µm) Ni
Current Rating (A-FTSH/A-CLP):
3.3 A per pin
(1 pin powered per row)
Operating Temp Range:
-55°C to +125°C
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
-DV Tail Option:
(0.10 mm) .004" max (02-25)
-DH Tail Option:
(0.15 mm) .006" max (26-50)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Molded Pick & Place pads
 - Latches
 - Other platings
- Contact autosalesgroup@samtec.com

Mates with:
A-CLP



OPTIONS

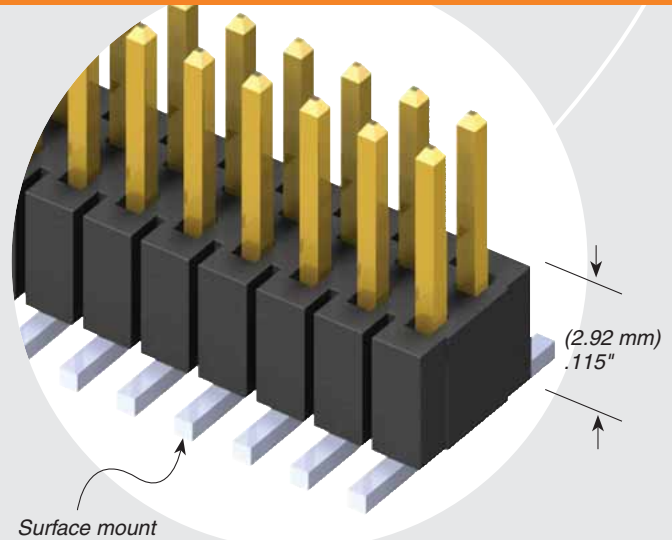
-P OPTION

-TR OPTION

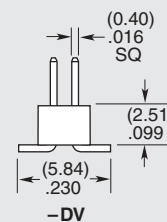
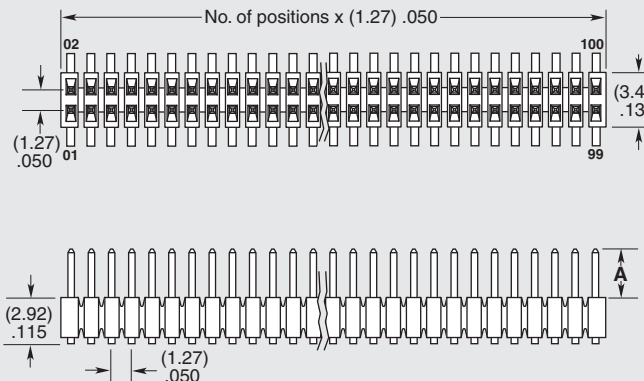
APPLICATIONS

A-CLP A-FTSH

HORIZONTAL



A-FTSH	1	NO. PINS PER ROW	LEAD STYLE
02 thru 50			<p>-01 = (3.05 mm) .120" Post (Mates with A-CLP-DH)</p> <p>-02 = (1.91 mm) .075" Post</p> <p>-03 = (1.65 mm) .065" Post (Mates with A-CLP-D)</p> <p>-04 = (3.81 mm) .150" Post</p> <p>-05 = (4.32 mm) .170" Post (Mates with A-CLP-BE)</p>



Note: Some sizes, styles and options are non-standard, non-returnable.

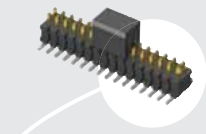
Note: See A-SFM/A-TFM for positive alignment feature.

Due to technical progress, all designs, specifications and components are subject to change without notice.

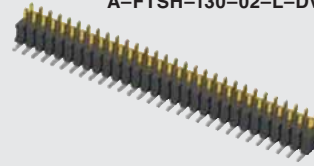
WWW.SAMTEC.COM

Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.

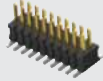
A-FTSH-116-03-F-DV-P



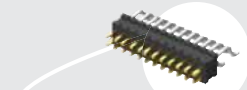
A-FTSH-130-02-L-DV-A



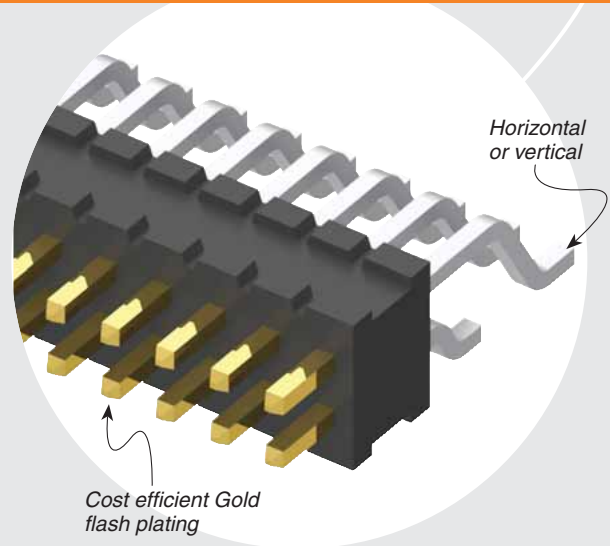
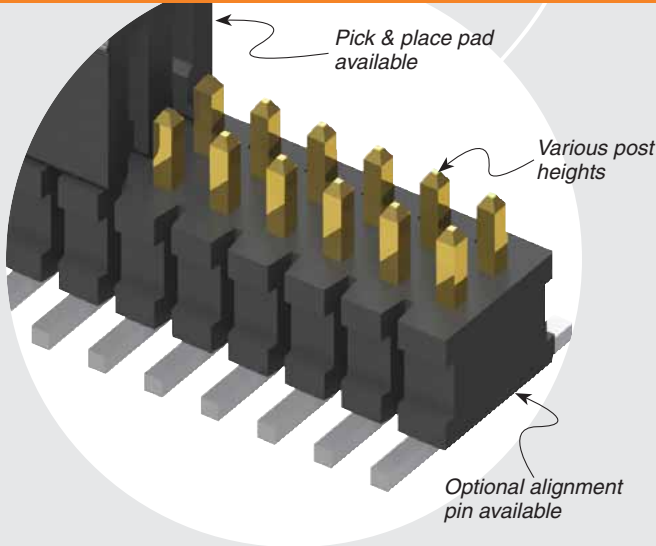
A-FTSH-112-01-L-DV



A-FTSH-112-02-L-DH



A-FTSH SERIES



PLATING OPTION

-F
= Gold flash on post, Matte Tin on tail

-L
= 10µ" (0.25 µm) Gold on post, Matte Tin on tail

TAIL OPTION

-DV
= Double Vertical

-DH
= Double Horizontal
(Styles -01, -02 & -04 only)

OTHER OPTIONS

-K
= Keying Shroud
(-DV only)

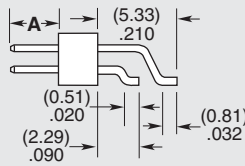
-A
= Alignment Pin
(-DV 3 positions min.)
(-DH 5 positions min.)
(Plastic at Samtec discretion)

-C
= (5.00 mm) .197" DIA Polyimide film
Pick & Place Pad
(-DH only)

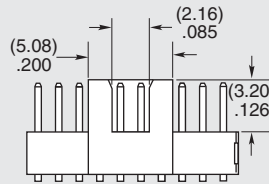
-P
= Pick & Place Pad
(-DV 4 positions min.)
(-DH not available)

-TR
= Tape & Reel Packaging

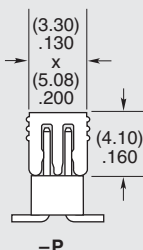
LEAD STYLE	A
-01	(3.05) .120
-02	(1.91) .075
-03	(1.65) .065
-04	(3.81) .150
-05	(4.32) .170



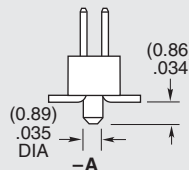
-DH
(Styles -01, -02, -04 only)



-K



-P

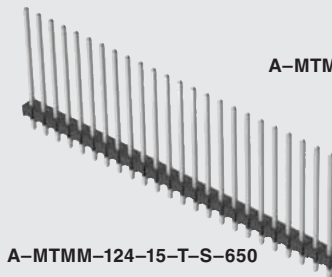


-A

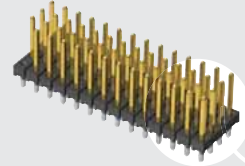
Due to technical progress, all designs, specifications and components are subject to change without notice.

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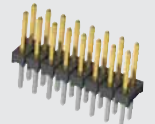
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A-MTMM-114-05-F-Q-235



A-MTMM-108-07-F-D-350



(2.00 mm) .0787"

A-MTMM SERIES

MODIFIED THROUGH-HOLE HEADER

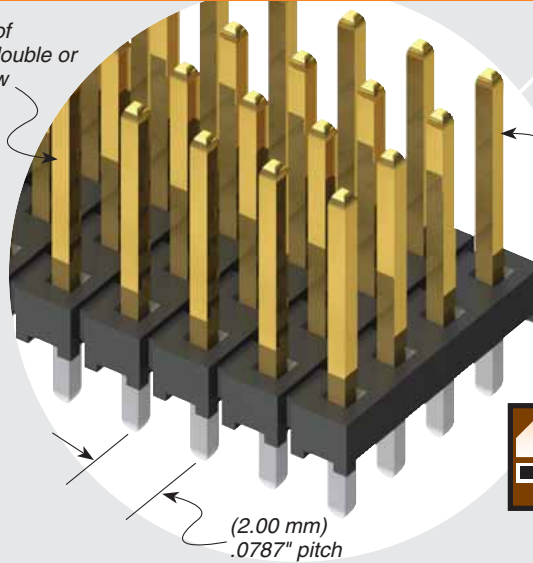
SPECIFICATIONS

For complete specifications see www.samtec.com?A-MTMM

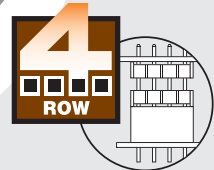
Insulator Material:
Black Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Sn or Au over
50µ" (1.27 µm) Ni
Operating Temp Range:
-55°C to +105°C with Tin;
-55°C to +125°C with Gold
RoHS Compliant:
Yes
Lead-Free Solderable:
Yes

Mates with:
A-CLT, A-SQT, A-SQW,
A-ESQT, A-SMM, A-MMS

Choice of
single, double or
quad row



Specify
post height in
(0.13 mm) .005"
increments



(2.00 mm)
.0787" pitch

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



01 thru 50

Specify
LEAD
STYLE
from
chart.

-F
= Gold flash on post,
Matte Tin on tail

-L
= 10µ" (0.25 µm)
Gold post,
Matte Tin on tail

-T
= Matte Tin

-S
= Single
Row

-D
= Double
Row

-Q
= Quad
Row

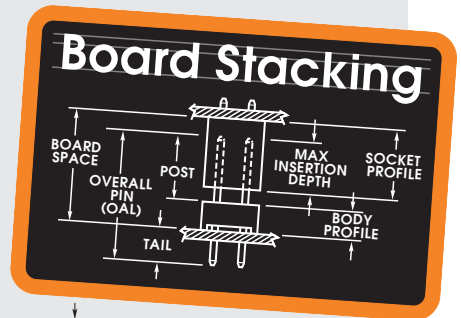
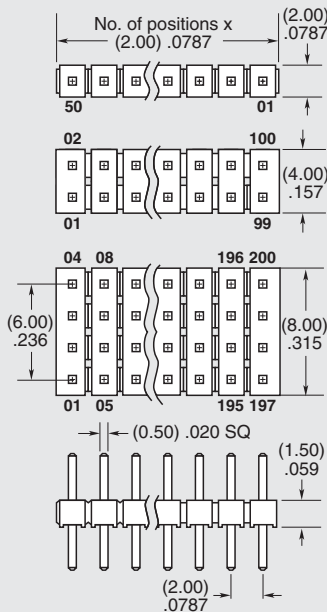
- "XXX"
= Post Height
in inches
(0.13 mm)
.005"
increments

Example:
-070
= (1.78 mm)
.070"

ALSO AVAILABLE (MOQ Required)

• Other platings
Contact
autosalesgroup@samtec.com

LEAD STYLE	OAL
-02	(6.48) .255
-03	(7.67) .302
-04	(8.20) .323
-05	(9.58) .377
-06	(10.08) .397
-07	(11.58) .456
-08	(12.09) .476
-09	(13.59) .535
-10	(14.10) .555
-11	(15.09) .594
-12	(15.60) .614
-13	(17.09) .673
-14	(19.08) .751
-15	(21.08) .830



Note: This Series is non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

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(2.00 mm) .0787"

A-MMT-120-02-L-SH

A-MMT-130-02-L-DH

A-MMT SERIES

HORIZONTAL SURFACE MOUNT HEADER

SPECIFICATIONS

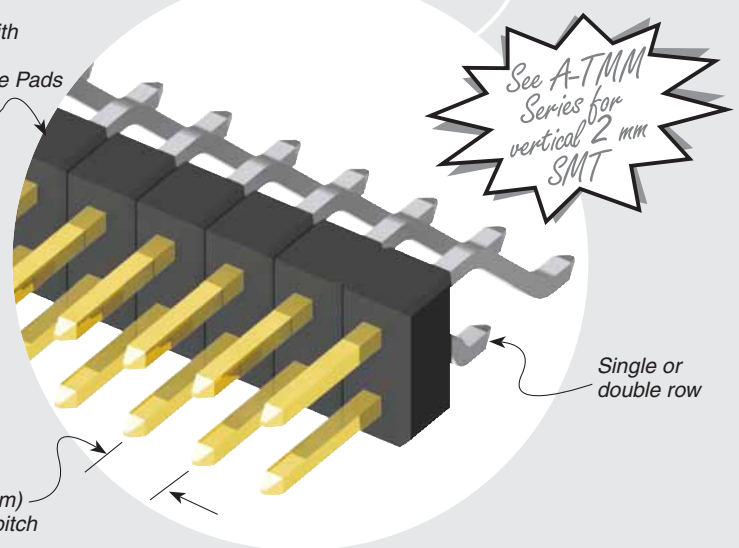
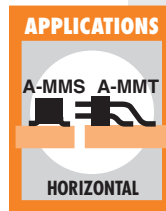
For complete specifications and recommended PCB layouts see www.samtec.com?A-MMT

Insulator Material:
Black Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni
Operating Temp Range:
-55°C to +105°C with Tin;
-55°C to +125°C with Gold
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (02-25)
(0.15 mm) .006" max (26-36)

Mates with:
A-CLT, A-SQT, A-SQW,
A-ESQT, A-SMM, A-MMS

Available with optional Pick & Place Pads

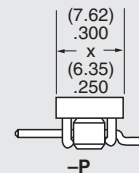
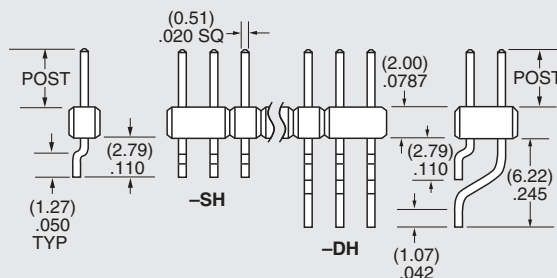
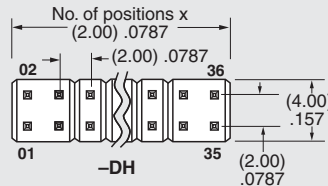
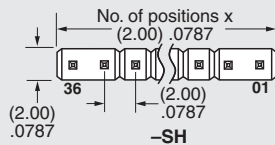


RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



A-MMT	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OPTION
		02 thru 36	-01 = (3.20 mm) .126" post -02 = (4.45 mm) .175" post	-F = Gold flash on post, Matte Tin on tail -L = 10µ" (0.25 µm) Gold post, Matte Tin on tail -T = Matte Tin	-SH = Single Row -DH = Double Row	-K = (4.00 mm) .157" DIA Polyimide Film Pick & Place Pad (3 positions minimum) -P = Pick & Place Pad (2 positions minimum) -TR = Tape & Reel Packaging



ALSO AVAILABLE (MOQ Required)

- Alignment pins
 - Molded pick & place pads
 - Other platings
- Contact autosalesgroup@samtec.com

TAPE & REEL AVAILABILITY
No tooling charges.
Minimum order is the lesser of a full reel quantity or 125 pieces.
Order any quantity above minimum. In-house design, manufacture. Quick turn-around.
Call Samtec for specifications and ordering information.

Note: Some lengths, styles and options are non-standard, non-returnable.

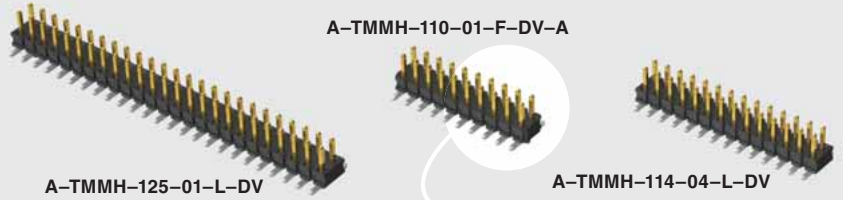
Due to technical progress, all designs, specifications and components are subject to change without notice.

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(2.00 mm) .0787"



FLEXIBLE SMT & THROUGH-HOLE HEADERS

SPECIFICATIONS

For complete specifications see www.samtec.com?A-TMMH

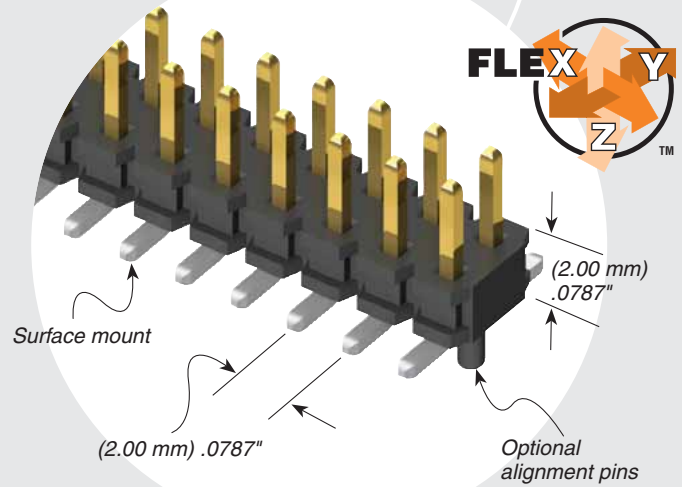
- Insulator Material:** Black Liquid Crystal Polymer
- Terminal Material:** Phosphor Bronze
- Plating:** Sn or Au over 50µ" (1.27 µm) Ni
- Current Rating (A-TMMH/A-ESQT):** 4.5 A per pin (1 pin powered per row)
- Current Rating (A-TMMH/A-SQT):** 5.1 A per pin (1 pin powered per row)
- Operating Temp Range:** -55°C to +105°C with Tin; -55°C to +125°C with Gold
- Voltage Rating:** 500 VAC mated with A-SQW
- RoHS Compliant:** Yes
- Lead-Free Solderable:** Yes
- SMT Lead Coplanarity:** (0.10 mm) .004" max

Mates with:
A-CLT, A-SQT, A-SQW,
A-ESQT, A-SMM, A-MMS



ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact autosalesgroup@samtec.com



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

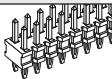


Note: Some lengths, styles and options are non-standard, non-returnable.

Other Solutions

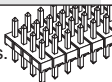
Press Fit

See A-PTT Series.



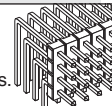
Low Profile

See A-TMM Series.

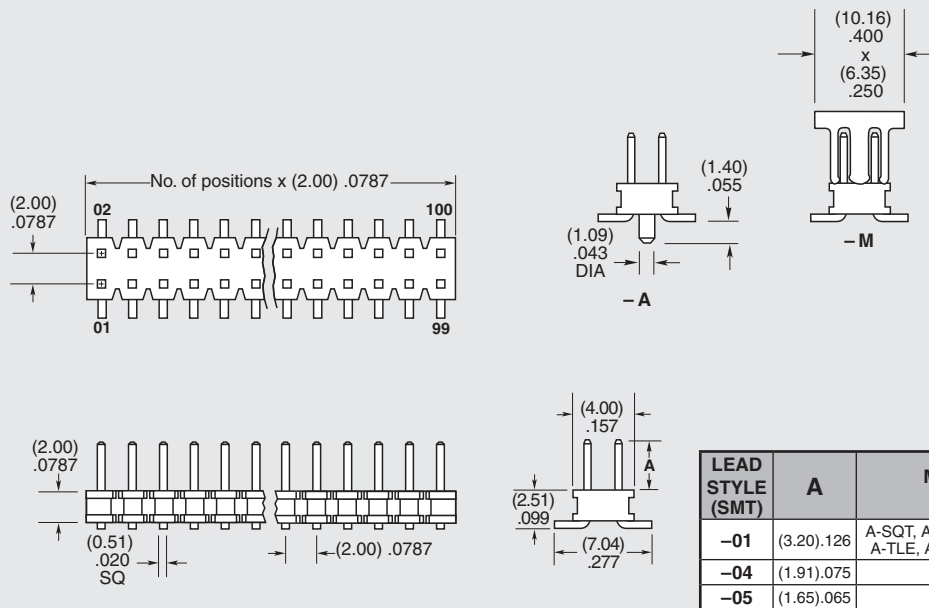
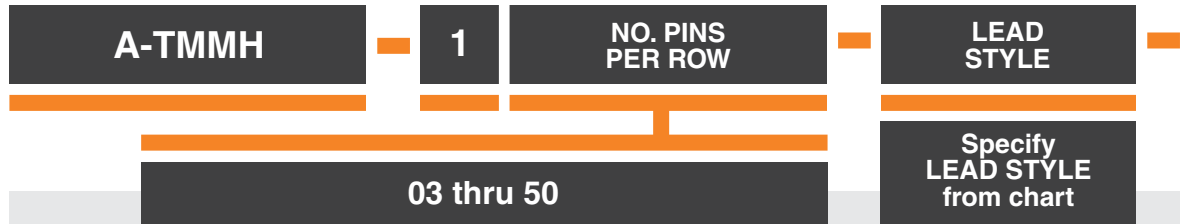


Right Angle Four Row

See A-TMM Series.



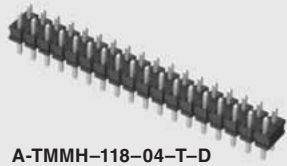
Paste In Hole (PIH) processing. Contact Samtec ASP Group for part customization.



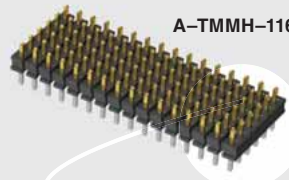
SURFACE MOUNT

Due to technical progress, all designs, specifications and components are subject to change without notice.

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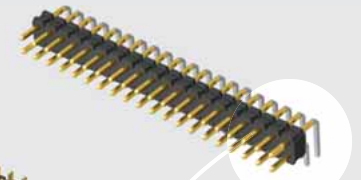
A-TMMH-118-04-T-D



A-TMMH-116-04-L-6

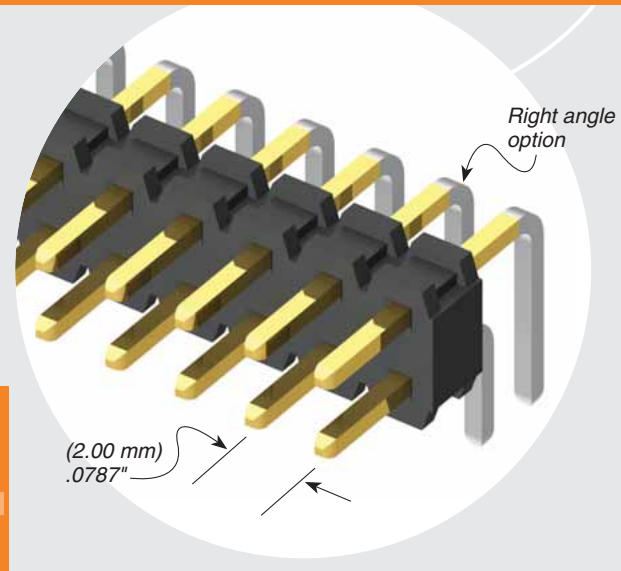
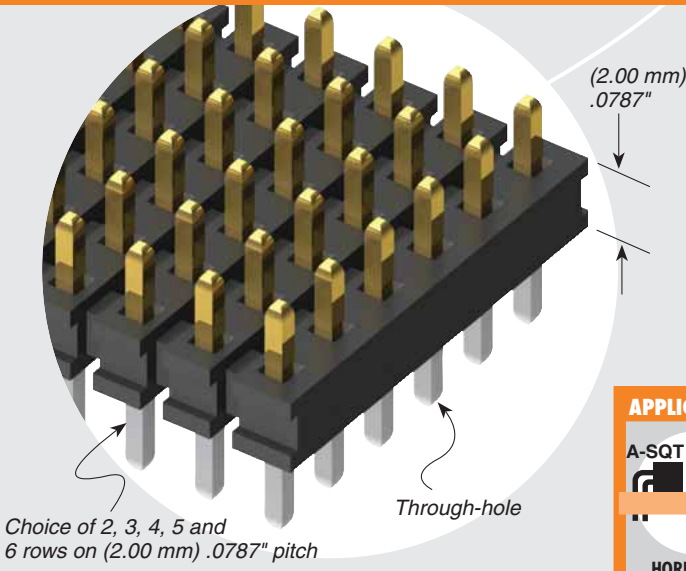


A-TMMH-109-01-L-D



A-TMMH-120-01-L-D-RA

A-TMMH SERIES



APPLICATIONS

A-SQT A-TMMH

HORIZONTAL

PLATING OPTION

- F = Gold flash on post, Matte Tin on tail
- L = 10µ" (0.25 µm) Gold on post, Matte Tin on tail
- T = Matte Tin

ROW OPTION

Leave blank for surface mount)
(Through-Hole only)

- D = Double Row
- T = Triple Row
- Q = Four Row
- 5 = Five Row
- 6 = Six Row

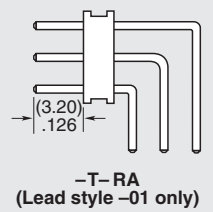
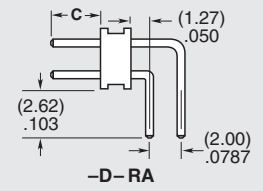
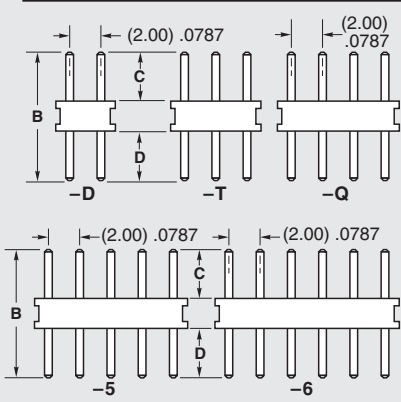
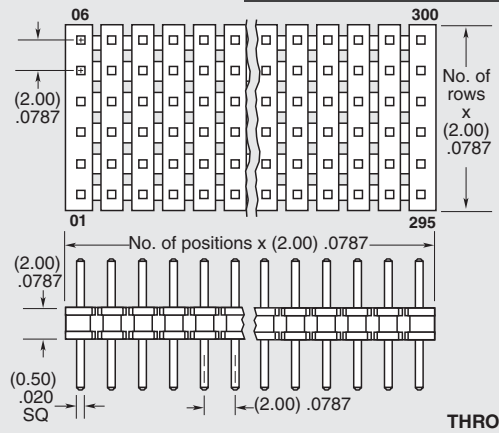
TAIL OPTION

- RA = Right Angle (Double & Triple Row only, -06 Lead style not available) (Through-Hole only)
- DV = Double Vertical (Surface Mount only)

OTHER OPTIONS

- A = Alignment Pin (3 positions minimum) (Surface Mount only)
- M = Pick & Place Pad (5 positions minimum) (Surface Mount only)
- TR = Tape & Reel Packaging (36 positions maximum) (Surface Mount only)

LEAD STYLE (TH)	B	C	D
-01	(7.67) .302	(3.20) .126	(2.46) .097
-04	(6.45) .254	(1.91) .075	(2.57) .101
-05	(5.94) .234	(1.65) .065	(2.29) .090
-06	(8.74) .344	(3.20) .126	(3.53) .139



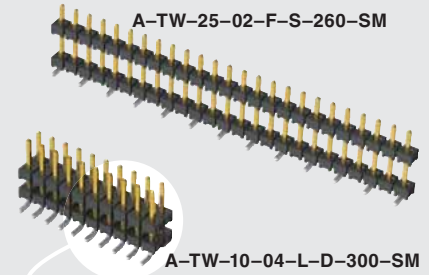
Due to technical progress, all designs, specifications and components are subject to change without notice.

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A-TW-20-07-T-D-550-SM



A-TW-10-04-L-D-300-SM

A-TW SERIES

(2.00 mm) .0787"

SMT BOARD STACKERS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-TW-SM

Insulator Material: Black Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Sn or Au over 50µ" (1.27 µm) Ni
Current Rating: 4.9 A per pin (1 pin powered per row)
Operating Temp Range: -55°C to +105°C with Tin; -55°C to +125°C with Gold
RoHS Compliant: Yes

Processing:
Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0.15 mm) .006" max

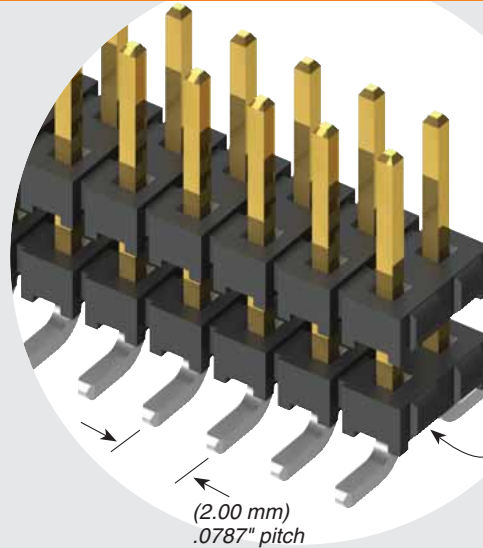
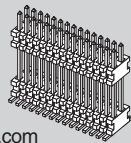
Mates with:
 A-CLT, A-SQT,
 A-SQW, A-ESQT,
 A-TLE, A-SMM, A-MMS



OTHER SOLUTIONS

• Stacker height ranges and standard part numbers on double row.

Contact autosalesgroup@samtec.com



Available with optional Pick & Place Pads

Available with optional Alignment Pins

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings
- End shrouds with or without guide post

Contact autosalesgroup@samtec.com

Note: For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

Note: This Series is non-standard, non-returnable.

A-TW	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	STACKER HEIGHT	SM	OTHER OPTIONS
	02 thru 36	Specify LEAD STYLE from chart below.	-F = Gold flash on post, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on post, Matte Tin on tail -T = Matte Tin	-S = Single Row -D = Double Row	-"XXX" = Stacker Height in inches (0.13 mm) .005" increments Example: -250 = (6.35 mm) .250"		-A = Alignment Pin (Plastic at Samtec discretion) (4.83 mm) .190" min. board space (-D only) -P = Pick & Place Pad (1.91 mm) .075" min. post height (04-36 only) -TR = Tape & Reel Packaging (-07 lead style not available) (-06 lead style with -P option not available as a standard)

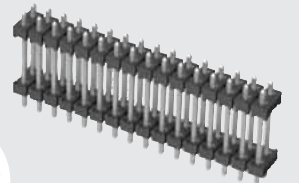
LEAD STYLE	OAL
-02	(7.85) .309
-03	(11.86) .467
-04	(12.37) .487
-06	(15.37) .605
-07	(17.35) .683
-09	(9.86) .388

Due to technical progress, all designs, specifications and components are subject to change without notice.



A-TW-20-03-L-Q-400-085

A-TW-08-09-F-T-165-100



A-TW-16-06-T-D-500-100

A-TW SERIES

(2.00 mm) .0787"

THROUGH-HOLE BOARD STACKERS

SPECIFICATIONS

For complete specifications see www.samtec.com?A-TW-TH

Insulator Material:
Black Liquid Crystal Polymer

Terminal Material:
Phosphor Bronze

Plating:
Sn or Au over

50µ" (1.27 µm) Ni

Current Rating:
5.2 A per pin

(1 pin powered per row)

Operating Temp Range:
-55°C to +105°C with Tin;

-55°C to +125°C with Gold

RoHS Compliant:
Yes

Lead-Free Solderable:
Yes

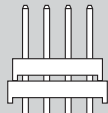
Mates with:

A-CLT, A-SQT, A-SQW,

A-ESQT, A-SMM, A-MMS

Specify stacker height in (0.13 mm) .005" increments

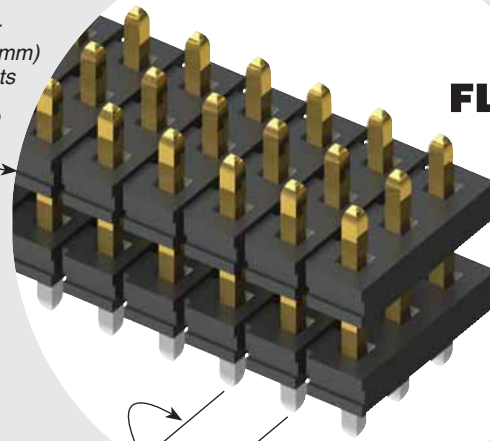
OTHER SOLUTIONS



Paste In Hole (PIH) processing.
Contact autosalesgroup@samtec.com

ALSO AVAILABLE (MOQ Required)

• Other platings
Contact autosalesgroup@samtec.com



Choice of one through six rows

(2.00 mm) .0787 pitch

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



A-TW	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	STACKER HEIGHT	TAIL SPEC
02 thru 50		Specify LEAD STYLE from chart below.	<p>-F = Gold flash on post, Matte Tin on tail</p> <p>-L = 10µ" (0.25 µm) Gold on post, Matte Tin on tail</p> <p>-T = Matte Tin</p>	<p>-S = Single Row</p> <p>-D = Double Row</p> <p>-T = Triple Row</p> <p>-Q = Four Row</p> <p>-5 = Five Row</p> <p>-6 = Six Row</p>	<p>-"XXX" = Stacker Height in inches (0.13 mm) .005" increments Example: -250 = (6.35 mm) .250"</p>	<p>-"XXX" = Tail Length in inches (0.13 mm) .005" increments Example: -150 = (3.81 mm) .150"</p>

Note: For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

Note: This Series is non-standard, non-returnable.

Other Solutions

Surface Mount

See previous page.



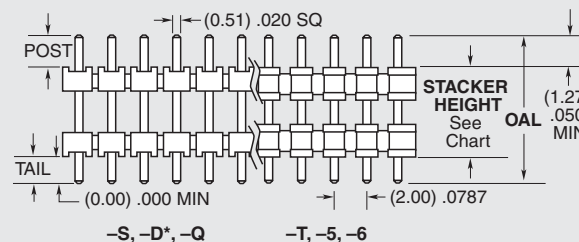
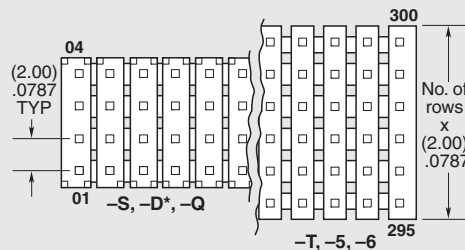
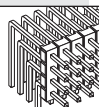
Low Profile

See A-TMM Series.



Right Angle

See A-TMM Series.



LEAD STYLE	OAL
-01	(8.20) .323
-02	(9.60) .377
-03	(13.60) .535
-04	(14.10) .555
-05	(15.10) .594
-06	(17.10) .673
-07	(19.10) .751
* -08	(21.10) .830
-09	(11.60) .456
-10	(15.60) .614
-11	(10.08) .397
* -12	(28.19) 1.110

*Style -08 & -12 = S & D only

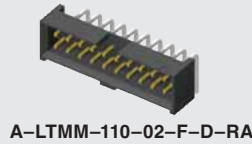
ROW OPTION	STACKER HEIGHT
-S, -D*, & -Q	(3.05) .120 MIN
-T, -5, -6	(4.06) .160 MIN

*-D with stacker height greater than (4.06 mm) .160" will not have standoffs.

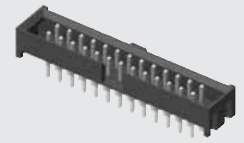
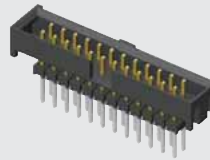
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A-ZLTMM-112-75-L-D-285



A-LTMM-113-02-T-D

(2.00 mm) .0787"

A-LTMM, A-ZLTMM SERIES

SHROUDED HEADER & STACKER

Mates with:
A-SQT, A-SQW,
A-ESQT, A-SMM

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-LTMM or www.samtec.com?A-ZLTMM

Insulator Material:
High Temperature Nylon
Terminal Material:
Phosphor Bronze
Plating:
Sn or Au over
50µ" (1.27 µm) Ni
Operating Temp Range:
-55°C to +105°C with Tin;
-55°C to +125°C with Gold
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



**FLEX
STACK**

A-LTMM - **1** NO. PINS PER ROW - **02** - **PLATING OPTION** - **D** - **TAIL OPTION** - **OTHER OPTION**

04, 05, 06, 07, 08, 10, 12, 13, 15, 17, 20, 22, 25
(Standard sizes)

-F
= Gold flash on post,
Matte Tin on tail

-L
= 10µ" (0.25 µm)
Gold on post,
Matte Tin on tail

-T
= Matte Tin

Leave blank for Through-hole

-RA
= Right Angle

-SM
= Surface Mount

-K
= (7.50 mm) .295" DIA
Film Pick & Place Pad
(-SM only)

-TR
= Tape & Reel
(-SM only)

ALSO AVAILABLE (MOQ Required)

- Other sizes
- Other platings

Contact autosalesgroup@samtec.com

A-ZLTMM - **1** NO. PINS PER ROW - **LEAD STYLE** - **PLATING OPTION** - **D** - **BODY HEIGHT**

04, 05, 06, 07, 08, 10, 12, 13, 15, 17, 20, 22, 25
(Standard sizes)

Specify LEAD STYLE from chart.

-F
= Gold flash on post,
Matte Tin on tail

-L
= 10µ" (0.25 µm)
Gold on post,
Matte Tin on tail

-T
= Matte Tin

- "XXX"
= Body Height

LEAD STYLE	B (OAL)	MAX BODY HEIGHT
-75	(9.58) 0.377	(7.42) 0.292
-62	(10.08) 0.397	(7.92) 0.312
-65	(10.49) 0.413	(8.33) 0.328
-73	(12.09) 0.476	(9.93) 0.391
-63	(14.10) 0.555	(11.94) 0.470
-66	(15.09) 0.594	(12.93) 0.509
-69	(15.60) 0.614	(13.44) 0.529
-74	(17.09) 0.673	(14.94) 0.588
-70	(17.60) 0.693	(15.44) 0.608
-71	(21.08) 0.830	(18.92) 0.745
-72	(21.62) 0.851	(19.46) 0.766

Note: For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

Note: This Series is non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

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(2.00 mm) .0787"

A-ESQT-125-03-M-Q-310

A-ESQT-115-02-GF-D-600

A-ESQT SERIES

FLEXIBLE ELEVATED SOCKET STRIPS

SPECIFICATIONS

For complete specifications see www.samtec.com?A-ESQT

Insulator Material: Black Liquid Crystal Polymer

Contact Material: Phosphor Bronze

Plating:

Sn or Au over

50µ" (1.27 µm) Ni

Current Rating

(A-ESQT/A-TMMH):

4.5 A per pin

(1 pin powered per row)

Operating Temp Range:

-55°C to +125°C

Contact Resistance:

10 mΩ

Insertion Depth:

(2.62 mm) .103" to

(5.03 mm) .198" with

(0.38 mm) .015" wipe

Max Cycles:

100 with 10µ" (0.25 µm) Au

Insertion Force:

(Single contact only)

4 oz (1.11 N) avg.

Withdrawal Force:

(Single contact only)

3 oz (0.83 N) avg.

RoHS Compliant: Yes

Lead-Free Solderable:

Yes, for -S, -D & -Q

(Wave only for -T, -5 & -6)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



Note: This Series is non-standard, non-returnable.

Other Solutions

Surface Mount
See A-SQW Series.

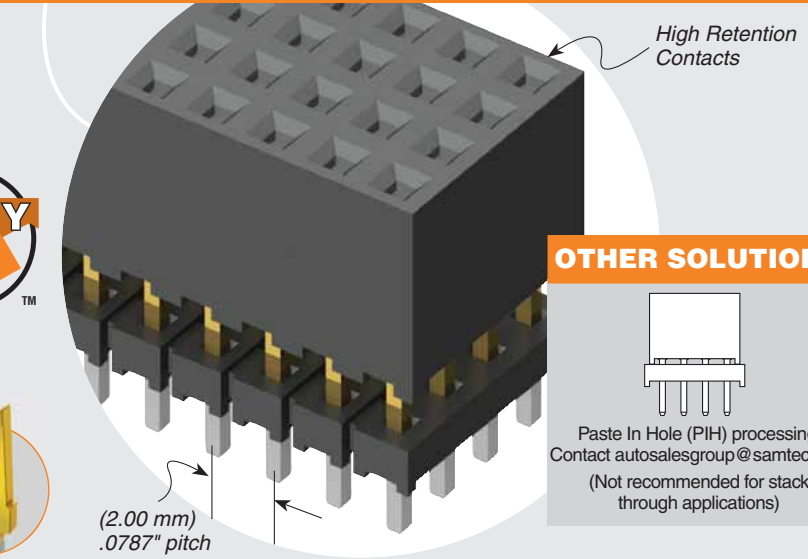
Low Profile
See A-CLT Series.

High Reliability
See A-SMM Series.

Right Angle
See A-SQW Series.

Mates with:

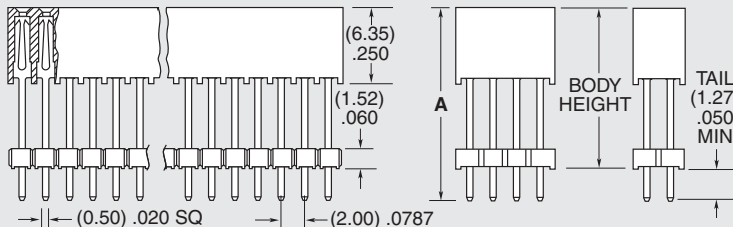
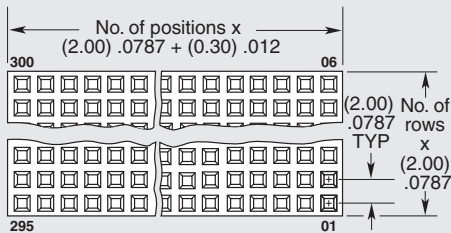
- A-TMMH, A-TMM,
- A-MTMM, A-MMT,
- A-TW, A-LTMM,
- A-ZLTMM, A-ESQT



OTHER SOLUTIONS

Paste In Hole (PIH) processing.
Contact autosalesgroup@samtec.com
(Not recommended for stack through applications)

A-ESQT	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	BODY HEIGHT
02 thru 50			Specify LEAD STYLE from chart	<p>-F = Gold flash on contact, Matte Tin on tail</p> <p>-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail</p> <p>-M = 20µ" (0.51 µm) Gold on contact, Matte Tin on tail</p> <p>-GF = 15µ" (0.38 µm) Gold on contact, Gold flash on tail (Recommended for self-nesting) (-02 lead style only)</p>	<p>-S = Single Row</p> <p>-D = Double Row</p> <p>-T = Triple Row</p> <p>-Q = Quad Row</p> <p>-5 = Five Row</p> <p>-6 = Six Row</p>	<p>-“XXX” = Body Height (in inches)</p> <p>(7.87 mm) .310" minimum for -S, -D, -Q</p> <p>(9.53 mm) .375" minimum for -T, -5, -6</p>

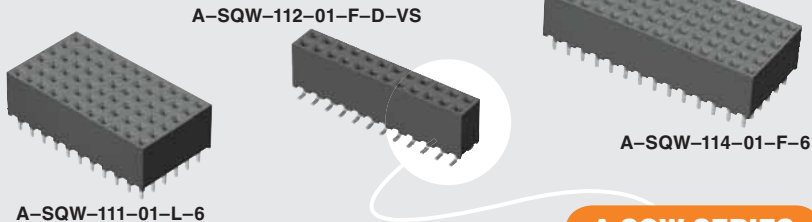


LEAD STYLE	A	MAX TAIL	MAX BODY HEIGHT
-02	(21.59) .850	(13.72) .540	(20.32) .800
-03	(11.63) .458	(3.76) .148	(10.36) .408

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A-SQW SERIES

(2.00 mm) .0787"

COST-EFFECTIVE RUGGED SOCKETS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SQW

- Insulator Material:** Black Liquid Crystal Polymer
- Contact Material:** Phosphor Bronze
- Plating:** Sn or Au over 50µ" (1.27 µm) Ni
- Current Rating (A-SQW/A-TMMH):** 3.8 A per pin (1 pin powered per row)
- Voltage Rating:** 500 VAC mated with A-TMM or A-TMMH
- Operating Temp Range:** -55°C to +125°C
- Contact Resistance:** 10 mΩ
- Insertion Depth:** (2.62 mm) .103" to (5.03 mm) .198" with (0.38 mm) .015" wiper
- Insertion Force:** (Single contact only) 1.8 oz (0.50 N) avg.
- Withdrawal Force:** (Single contact only) 1.0 oz (0.28 N) avg.
- Max Cycles:** 100 with 10µ" (0.25 µm) Au
- RoHS Compliant:** Yes

- Processing:**
- Lead-Free Solderable:** Yes, for -D & -D-VS (Wave only for -T, -Q, -5 & -6)
- SMT Lead Coplanarity:** (0.15 mm) .006" max

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



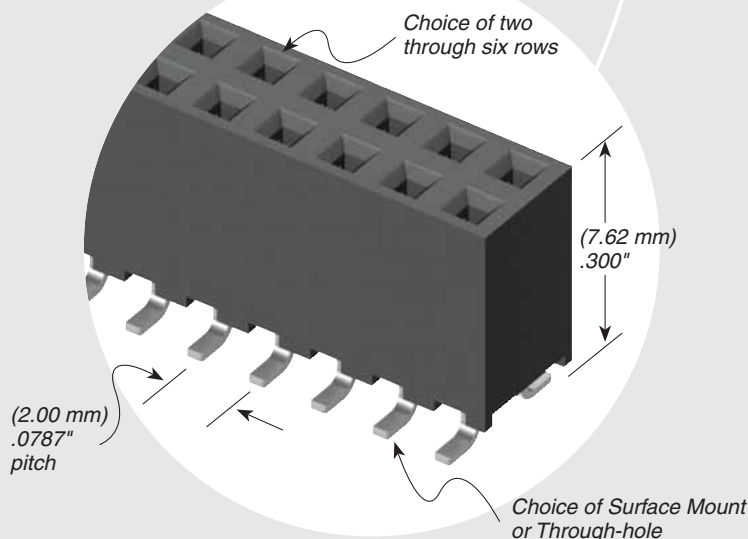
TAPE & REEL AVAILABILITY

No tooling charges.
 Minimum order is the lesser of a full reel quantity or 125 pieces.
 Order any quantity above minimum.
 In-house design, manufacture.
 Quick turn-around.

Call Samtec for specifications and ordering information.

Note: Some lengths, styles and options are non-standard, non-returnable.

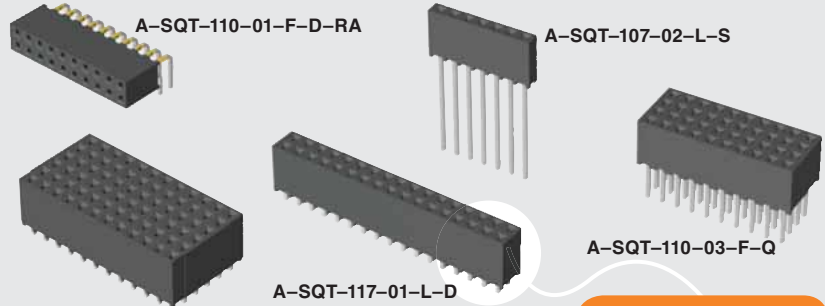
Mates with:
 A-TMMH, A-TMM,
 A-MTMM, A-MMT,
 A-TW, A-LTMM



A-SQW	1	NO. PINS PER ROW	01	PLATING OPTION	ROW OPTION	OPTION
		02 thru 50				
				-F		
				-L		
				-D		
				-D-VS		
				-T		
				-Q		
				-5		
				-6		
						-D-VS only options:
						-A
						-K
						-P
						-TR

Dimensions and Pin Configurations:

Due to technical progress, all designs, specifications and components are subject to change without notice.



A-SQT SERIES

(2.00 mm) .0787"

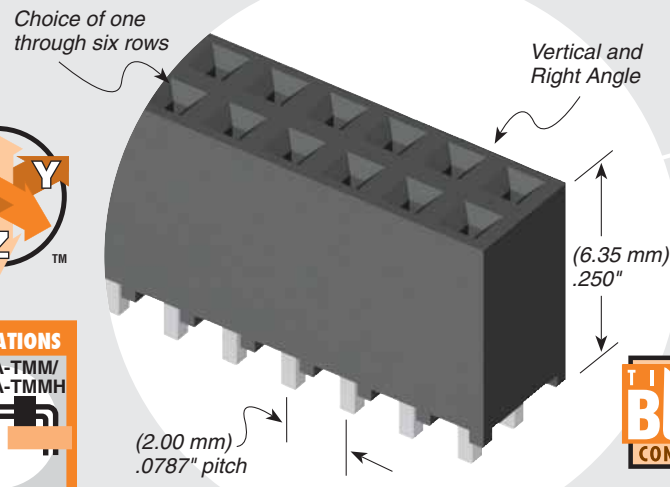
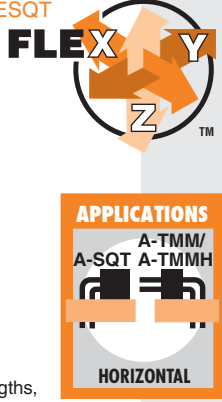
COST-EFFECTIVE RUGGED SOCKETS

SPECIFICATIONS

For complete specifications see www.samtec.com?A-SQT

Insulator Material: Black Liquid Crystal Polymer
Contact Material: Phosphor Bronze
Plating: Sn or Au over 50µ" (1.27 µm) Ni
Current Rating (A-TMMH/A-SQT): 5.1 A per pin (1 pin powered per row)
Voltage Rating: 450 VAC mated with A-TMM or A-TMMH
Operating Temp Range: -55°C to +125°C
Contact Resistance: 10 mΩ
Insertion Depth: (2.62 mm) .103" to (5.03 mm) .198"
Insertion Force: (Single contact only) 4 oz (1.11 N) average
Normal Force: 60 grams (0.59 N) average
Withdrawal Force: (Single contact only) 3 oz (0.83 N) average
Max Cycles: 100 with 10µ" (0.25 µm) Au
RoHS Compliant: Yes
Lead-Free Solderable: Yes

Mates with:
 A-TMMH, A-TMM,
 A-MTMM, A-MMT,
 A-TW, A-LTMM,
 A-ZLTMM, A-ESQT



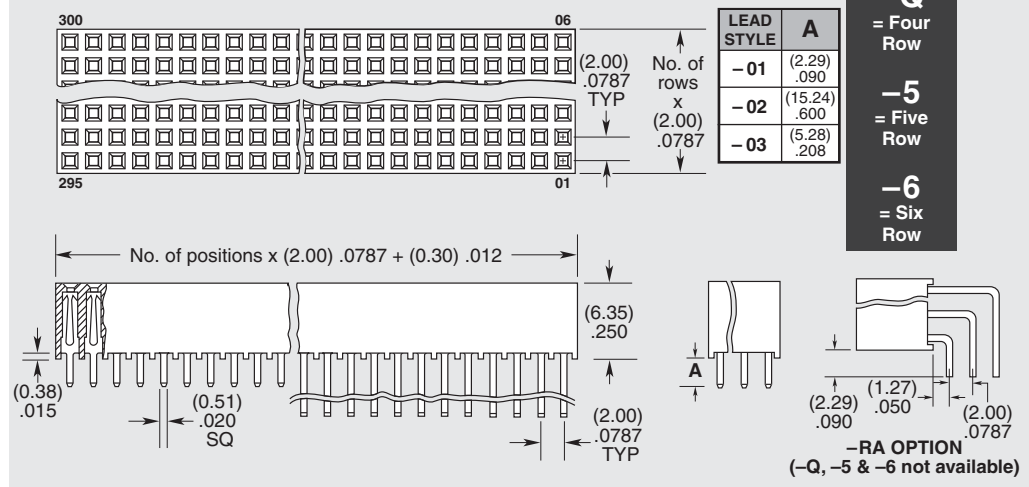
Note: Some lengths, styles and options are non-standard, non-returnable.

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

A-SQT	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OTHER OPTION
			Specify LEAD STYLE from chart	-F = Gold flash on contact, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail	-S = Single Row -D = Double Row -T = Triple Row -Q = Four Row -5 = Five Row -6 = Six Row	-RA = Right Angle (-Q, -5 & -6 Row not available) (Lead Style -01 only)

- Other Solutions**
- Elevated** See A-ESQT Series.
 - Surface Mount** See A-SQW Series.
 - Low Profile** See A-CLT Series.
 - High Reliability** See A-SMM Series.
 - Press Fit** See A-PTF Series.

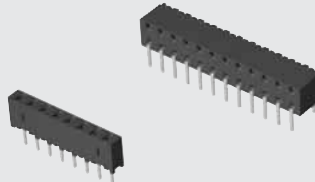


Due to technical progress, all designs, specifications and components are subject to change without notice.



A-MMS-112-02-F-SH

A-MMS-112-01-L-DH



A-MMS-116-02-L-DV

A-MMS-108-01-L-SV

A-MMS SERIES

(2.00 mm) .0787"

TIGER CLAW™ SOCKET STRIP

Mates with:

A-TMMH, A-TMM,
A-MTMM, A-MMT, A-TW,
A-LTMM, A-ZLTMM

SPECIFICATIONS

For complete specifications see www.samtec.com?A-MMS

Insulator Material:

Black LCP

Contact Material:

Phosphor Bronze

Plating:

Sn or Au over 50µ" (1.27 µm) Ni

Current Rating (A-MMS/A-TMM):

3.9 A per pin (1 pin powered per row)

Operating Temp Range:

-55°C to +125°C with Gold

-55°C to +105°C with Tin

Contact Resistance:

10 mΩ

Insertion Depth:

DH = (2.13 mm) .084" to (2.79 mm) .110"

SH = (2.13 mm) .084" minimum or pass-through

Top Entry DV/SV = (2.13 mm) .084" to (4.32 mm) .170"

Bottom Entry DV/SV = (4.27 mm) .168" minimum (Plus board)

Insertion Force: (Single contact only) 3.7 oz (1.03 N) avg.

Withdrawal Force: (Single contact only) 2.2 oz (0.61 N) avg.

RoHS Compliant: Yes

Processing:

Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0.15 mm) .006" max



A-MMS - **1** NO. PINS PER ROW - **01** PLATING OPTION - **ROW OPTION**

02 thru 40

-F = Gold flash on contact, Matte Tin on tail
-L = 10µ" (0.25 µm) Gold contact, Matte Tin on tail

-SV = Single Vertical
-SH = Single Horizontal
-DV = Double Vertical
-DH = Double Horizontal

A-MMS - **1** NO. PINS PER ROW - **02** PLATING OPTION - **ROW OPTION** - **OTHER OPTION**

02 thru 40

-F = Gold flash on contact, Matte Tin on tail
-L = 10µ" (0.25 µm) Gold contact, Matte Tin on tail

-SV = Single Vertical
-SH = Single Horizontal
-DV = Double Vertical
-DH = Double Horizontal

-K = (5.50 mm) .217" DIA Polyimide Film Pick & Place Pad (-SV & -DV only) (-SV = 3 positions min.) (-DV = 4 positions min.)
-P = Plastic Pick & Place Pad (4 pos. min., -SV only) (5 pos. min., -DV only)
-TR = Tape & Reel Packaging

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Alignment Pin (-DV only)
- Through-hole pass-through options
- Other platings

Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable.

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A-CLT-115-02-F-D-A-K-BE

A-CLT-105-02-F-D

A-CLT-125-02-L-D

A-CLT SERIES

(2.00 mm) .0787"

LOW PROFILE DUAL WIPE SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-CLT

Insulator Material:
Black Liquid Crystal Polymer
Contact Material:
Phosphor Bronze
Plating:
Sn or Au over 50µ" (1.27 µm) Ni
Current Rating (A-TMMH/A-CLT):
4.1 A per pin
(1 pin powered per row)
Operating Temp Range:
-55°C to +125°C
Contact Resistance:
10 mΩ
Insertion Depth:
Top Entry=
(1.40 mm) .055" minimum
Bottom Entry=
(2.57 mm) .101" minimum
(add board thickness for correct post OAL)
Insertion Force:
(Single contact only)
1.8 oz (0.50 N) avg.
Withdrawal Force:
(Single contact only)
.6 oz (0.17 N) avg.
Max Cycles:
100 with 10µ" (0.25 µm) Au
RoHS Compliant:
Yes

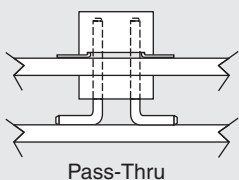
Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (02-25)
(0.15 mm) .006" max (26-34)
(0.20 mm) .008" max (35-50)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



APPLICATION

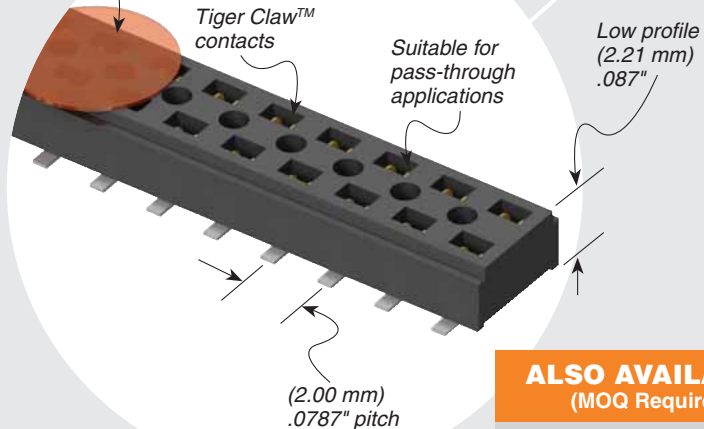


Note: Some lengths, styles and options are non-standard, non-returnable.

Mates with:
A-TMM, A-TMMH,
A-MTMM, A-MMT,
A-TW



Available with optional Pick & Place Pads

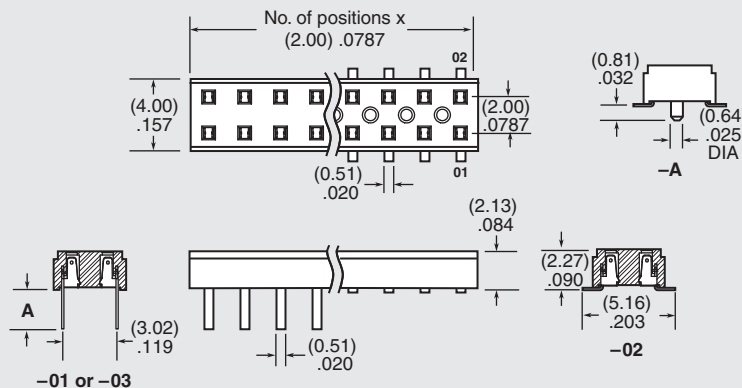


ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact autosalesgroup@samtec.com

A-CLT	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	OTHER OPTIONS
		02 thru 50	<ul style="list-style-type: none"> -01 = Through-hole -02 = Surface Mount -03 = Through-hole 	<ul style="list-style-type: none"> -F = Gold flash on contact, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail -G = 10µ" (0.25 µm) Gold on contact, Gold flash on tail 		<p>All options require Style -02</p> <ul style="list-style-type: none"> -BE = Bottom Entry (Required for bottom entry applications) -A = Alignment Pin (3 positions minimum) Plastic at Samtec's discretion -K = (5.00 mm) .197" DIA Polyimide Film Pick & Place Pad (04 thru 50 only) -TR = Tape & Reel Packaging (36 positions max)

LEAD STYLE	A
-01	(2.16) .085
-03	(2.95) .116

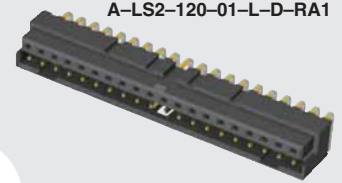
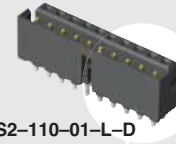
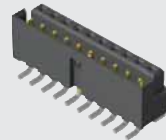


TAPE & REEL AVAILABILITY

No tooling charges.
Minimum order is the lesser of a full reel quantity or 125 pieces.
Order any quantity above minimum.
In-house design, manufacture.
Quick turn-around.
Call Samtec for specifications and ordering information.

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(2.00 mm) .0787"

SELF MATING HERMAPHRODITIC STRIP

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-LS2

Insulator Material:
Black Liquid Crystal Polymer

Contact Material:
Phosphor Bronze

Plating:
Au or Sn over 50µ" (1.27 µm) Ni

Current Rating:
3.2 A per pin (6 adjacent pins powered)

Voltage Rating:
475 VAC mated with A-LS2

Operating Temp Range:
-55°C to +125°C

Insertion Force:
(Single contact only)
4 oz (1.11 N) avg.

Withdrawal Force:
(Single contact only)
3 oz (0.83 N) avg.

RoHS Compliant:
Yes

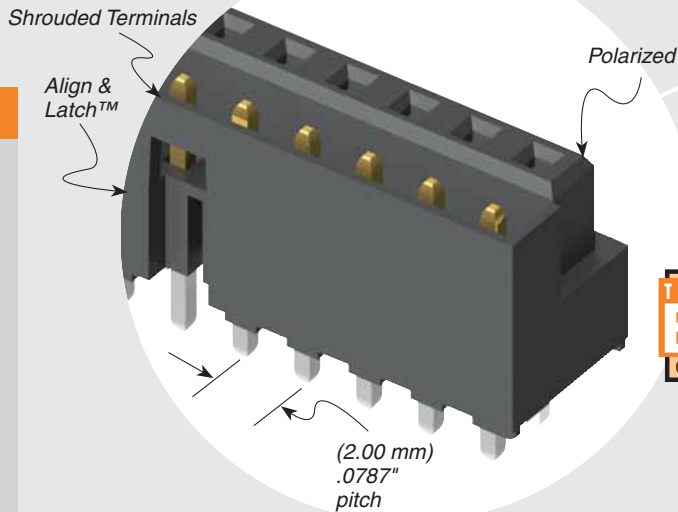
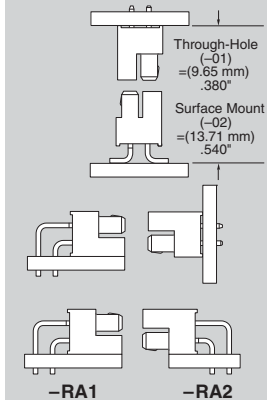
Processing:
Lead-Free Solderable:

Yes

SMT Lead Coplanarity:
(0.15 mm) .006" max

Mates with:
A-LS2

APPLICATION



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



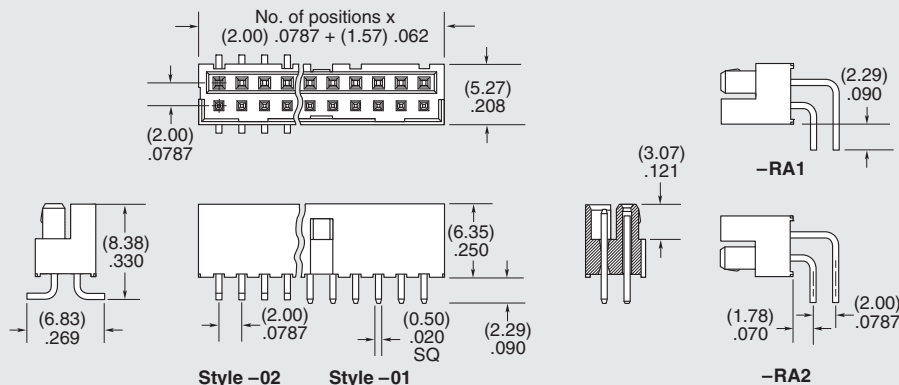
FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Alignment pin
- Other platings
- Other stack heights

Contact autosalesgroup@samtec.com

A-LS2	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	TAIL OPTION	OPTION
		05, 10, 15, 20, 25, 30	-01 = Through-hole -02 = Surface Mount	-F = Gold flash on contact, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail		-01 only -RA1 = Right Angle (Shroud Down) -RA2 = Right Angle (Shroud Up)	-K = (6.30 mm) .248" DIA Polyimide Film Pick & Place Pad (-02 only) -TR = Tape & Reel Packaging

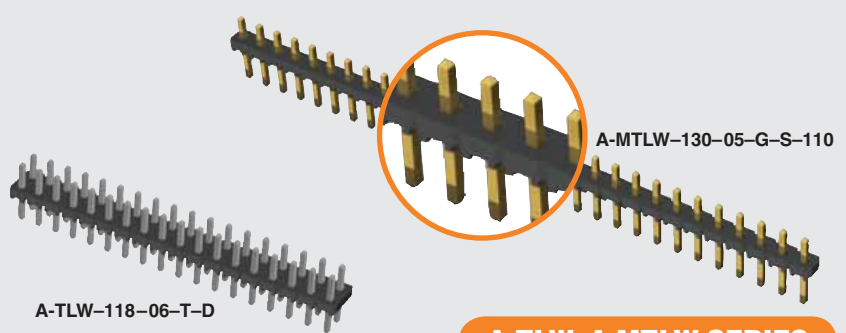


Note: Some lengths, styles and options are non-standard, non-returnable.

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(2.54 mm) .100"

A-TLW, A-MTLW SERIES

LOW PROFILE .025" SQ POST HEADERS

FEATURES

These headers provide the ultimate low profile (0.64 mm) .025" square post board stacking system. The high quality Phosphor Bronze terminals are available with a standard short post height (A-TLW Series) for mating with low profile sockets, or the post height can be Modified (A-MTLW Series) to accommodate IDC assemblies and other applications.



SPECIFICATIONS

For complete specifications see www.samtec.com?A-TLW or www.samtec.com?A-MTLW
Insulator Material: Black Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Au or Sn over 50µ" (1.27 µm) Ni
Operating Temp Range: -55°C to +105°C with Tin -55°C to +125°C with Gold
RoHS Compliant: Yes
Lead-Free Solderable: Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



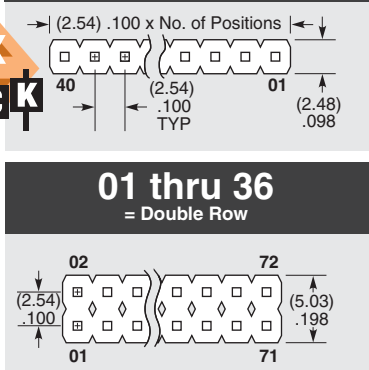
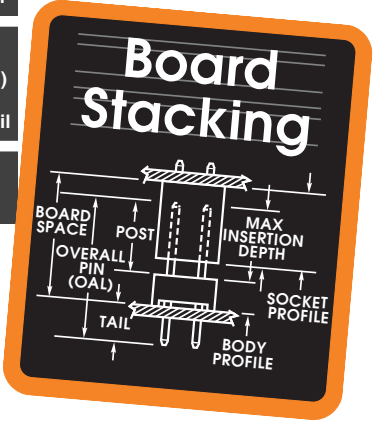
Note: Some lengths, styles and options are non-standard, non-returnable. A-MTLW Series is non-standard, non-returnable.

A-TLW	1 NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OTHER OPTION
01 thru 40 = Single Row		Specify LEAD STYLE from chart	-F = Gold flash on post, Matte Tin on tail	-S = Single Row	-RA = Right Angle (-01 Lead Style only)
01 thru 36 = Double Row			-G = 10µ" (0.25 µm) Gold on post, Gold flash on tail	-D = Double Row	
			-T = Matte Tin		

ALSO AVAILABLE (MOQ Required)

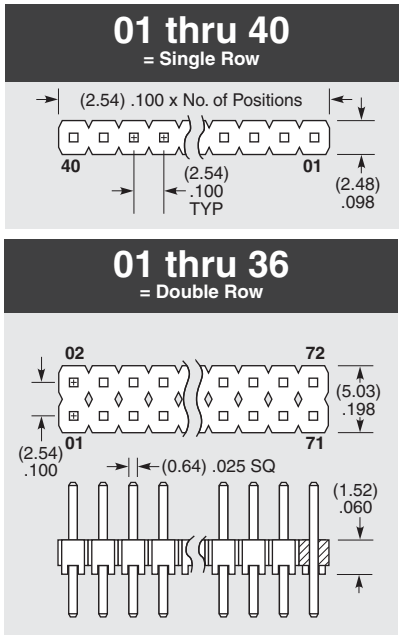
- Other platings
 - Top/bottom standoff
- Contact autosalesgroup@samtec.com

A-MTLW	1 NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	POST HEIGHT
01 thru 40 = Single Row		Specify LEAD STYLE from chart	-F = Gold flash on post, Matte Tin on tail	-S = Single Row	-“XXX” = Post Height Dimension (In inches)
01 thru 36 = Double Row			-L = 10µ" (0.25 µm) Gold on post, Matte Tin on tail	-D = Double Row	
			-G = 10µ" (0.25 µm) Gold on post, Gold flash on tail		
			-T = Matte Tin		



Specify LEAD STYLE from chart

LEAD STYLE	A	C
-01	N/A	(5.84) .230
-05	(4.32) .170	(2.67) .105
-06	(3.43) .135	(2.67) .105



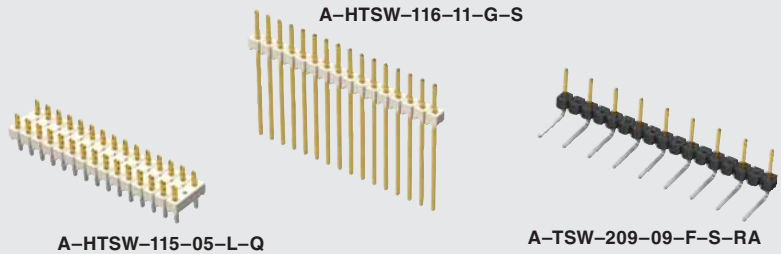
Specify LEAD STYLE from chart

LEAD STYLE	OAL
-05	(8.51) .335
-06	(7.62) .300
-07	(10.92) .430
-08	(13.46) .530
-09	(18.54) .730
-10	(21.08) .830
-22	(16.00) .630
-23	(11.30) .445
-24	(12.19) .480

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(2.54 mm) .100"

THROUGH-HOLE .025" SQ POST HEADER

Mates with:
A-SSW, A-SSQ,
A-SSM, A-BCS

SPECIFICATIONS

For complete specifications see www.samtec.com?A-TSW or www.samtec.com?A-HTSW

Insulator Material:
A-TSW: Black Glass Filled Polyester
A-HTSW: Natural Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni

Operating Temp Range:
-55°C to +125°C with Gold
-55°C to +105°C with Tin
Voltage Rating:
550 VAC mated with A-SSW;
500 VAC mated with A-BCS;
450 VAC -RA/-RE mated with A-BCS or A-SSM

RoHS Compliant:
Yes
Lead-Free Solderable:
A-HTSW: Yes
A-TSW: Wave Only

Lead-Free Solderable:
A-HTSW: Yes
A-TSW: Wave Only

CURRENT RATING (PER PIN)			
A-TSW mated with			
A-SSW	A-SSQ	A-SSM	A-BCS
5.7 A	6.3 A	5.2 A	4.6 A
1 POSITION POWERED PER ROW			

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

• Other platings
Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable.

TYPE STRIP

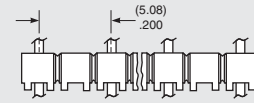
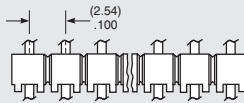
A-TSW = Standard Strip

A-HTSW = Hi-Temp Strip

PIN CENTERS

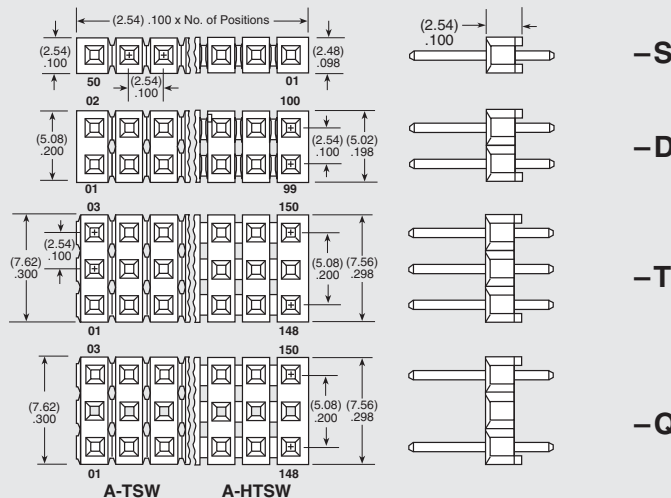
-1 = .100" (2.54 mm) Centers, All Positions Filled

-2 = .200" (5.08 mm) Centers, Every Other Position Filled



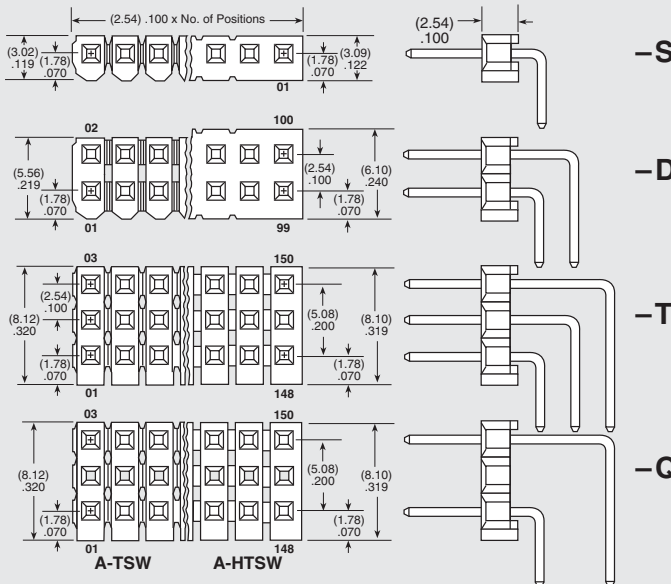
NO. PINS PER ROW

Straight Pin Versions



01 thru 50
= .100" (2.54 mm) Center Version

Right Angle Versions



02 thru 25
= .200" (5.08 mm) Center Version

APPLICATIONS

A-BCS A-TSW

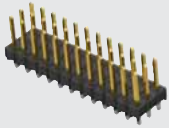


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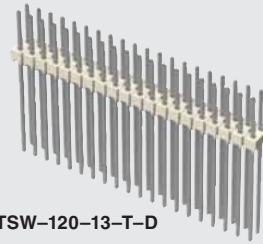
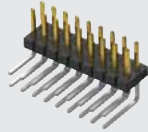
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A-TSW-109-10-F-D-RA



A-TSW-112-07-G-T



A-HTSW-120-13-T-D



A-TSW-114-16-G-S-RE

A-TSW, A-HTSW SERIES

LEAD STYLE

PLATING OPTION

ROW OPTION

OTHER OPTIONS

-F

= Gold flash on post, Matte Tin on tail

-L

= 10µ" (0.25 µm) Gold on post, Matte Tin on tail

-G

= 10µ" (0.25 µm) Gold on post, Gold flash on balance

-T

= Matte Tin

-S

= Single Row

-D

= Double Row

-T

= Triple Row

-Q

= Double Row
(5.08 mm)
.200" row space

-RA or -RE

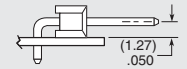
= Right Angle

-LA

= -RA Option with -LL Option

-NA

= Right Angle
(using straight body for coplanar mating with A-SSW-RA series)



-LL

= Locking Lead



Two leads per strip crimped in opposite directions on or near centerline. See charts for available styles. N/A with single row 1 or 2 positions. Recommended hole size (1.02 mm ± 0.03 mm) .040" ± .001"

OTHER SOLUTIONS

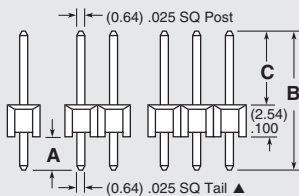
- Elevated Right Angle option
 - Shunts
- Contact autosalesgroup@samtec.com

Straight Pin Versions

(Specify "LEAD STYLE" from chart)

STYLE	A	B	C
* -05	(3.30) .130	(8.51) .335	(2.67) .105
* -06	(2.41) .095	(7.62) .300	(2.67) .105
* -07	(2.54) .100	(10.92) .430	
* -08	(5.08) .200	(13.46) .530	
-09	(10.16) .400	(18.54) .730	(5.84) .230
-10	(12.70) .500	(21.08) .830	
-11	(15.24) .600	(23.62) .930	
-12	(17.78) .700	(26.16) .1000	
-13	(22.86) .900	(31.24) .1230	
-14	(2.79) .110	(13.46) .530	(8.13) .320
* -15	(7.87) .310	(18.54) .730	(13.21) .520
* -16	(7.87) .310	(18.54) .730	(8.13) .320
* -17	(2.79) .110	(21.08) .830	(15.74) .620

* Available with -LL (Locking Lead) Option



STYLE	A	B	C
* -18		(23.62) .930	(18.29) .720
* -19	(2.79) .110	(26.16) .1030	(20.83) .820
* -20		(31.24) .1230	(25.91) .1020
* -21		(36.32) .1430	(30.99) .1220
* -22	(7.62) .300	(16.00) .630	(5.84) .230
* -23		(11.30) .445	
* -24	(2.92) .115	(12.15) .480	(6.73) .265
* -25	(5.33) .210	(16.00) .630	(8.13) .320
▲ -26	(3.20) .126	(11.58) .456	
-27	(25.40) .1000	(33.78) .1330	(5.84) .230
-28	(20.32) .800	(28.70) .1130	
-29	(23.11) .910	(33.78) .1330	(8.13) .320
-30	(18.03) .710	(28.70) .1130	
+ -41	(0.89) .035	(9.27) .365	(5.84) .230
+ -42	(1.27) .050	(11.94) .470	(8.13) .320

+ Style -41 & -42 available with A-HTSW only.

▲ Except: Style -26 (0.46) .018 DIA Tail

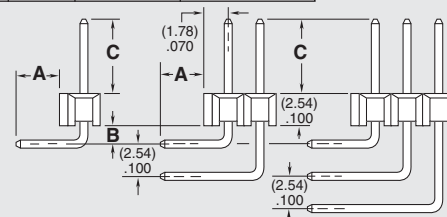
Right Angle Versions

(Specify "LEAD STYLE" from chart and select -RA or -RE from other options)

-RA LEAD STYLE	SINGLE (-S)		DOUBLE (-D)	TRIPLE (-T & -Q)
	A	C	A	A
-08	(2.29) .090		(2.29) .090	(2.29) .090
-09	(7.37) .290		(7.37) .290	(7.37) .290
-10	(9.91) .390	(5.84) .230	(9.91) .390	(9.91) .390
-11	(12.45) .490		(12.45) .490	(12.45) .490
-12	(14.99) .590		(14.99) .590	(14.99) .590
-13	(20.07) .790		(20.07) .790	N/A
* -16	(5.08) .200	(8.13) .320	(5.08) .200	(5.08) .200
-21	(25.15) .990	(5.84) .230	N/A	N/A
* -22	(4.83) .190		(4.83) .190	(4.83) .190
* -25	(2.54) .100	(8.13) .320	(2.54) .100	(2.54) .100
-27	(22.61) .890	(5.84) .230	N/A	
-28	(17.53) .690		(17.53) .690	
-29	(20.32) .800	(8.13) .320	N/A	N/A
-30	(15.24) .600		(15.24) .600	

-RE LEAD STYLE	SINGLE A	C
-09	(4.83) .190	
-10	(7.37) .290	
-11	(9.91) .390	(5.84) .230
-12	(12.45) .490	
-13	(17.53) .690	
-16	(2.54) .100	(8.13) .320
-21	(22.61) .890	
-22	(2.29) .090	(5.84) .230
-27	(20.07) .790	
-28	(14.99) .590	

* Available with -LA (Locking Lead) Option



LEAD STYLE	B
-RA	(1.52) .060
-RE	(4.06) .160

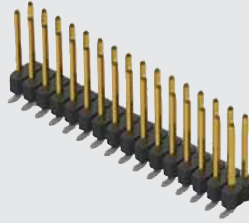
Due to technical progress, all designs, specifications and components are subject to change without notice.

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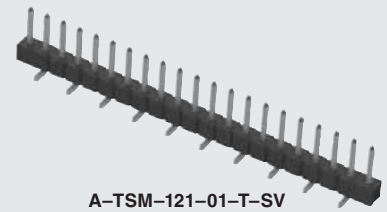
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A-TSM-116-02-S-DV



A-TSM-121-01-T-SV



(2.54 mm) .100"

SMT .025" SQ POST HEADER

Mates with:
A-SSW, A-SSQ,
A-SSM, A-BCS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-TSM

Insulator Material:

Black Liquid Crystal Polymer

Terminal Material:

Phosphor Bronze

Plating:

Au or Sn over 50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +105°C with Tin;
-55°C to +125°C with Gold

Voltage Rating:

475 VAC -SV/-DV mated with A-BCS or A-SSM

RoHS Compliant:

Yes

Lead-Free Solderable:

Yes

-DH/-SH Lead Coplanarity:

(0.15 mm) .006" max (02-36)

-DV/-SV Lead Coplanarity:

(0.10 mm) .004" max (02-05)

(0.13 mm) .005" max (06-10)

(0.15 mm) .006" max (11-36)

MATES	CURRENT RATING (PER PIN)
A-TSM/ A-SSW	4.9 A
A-TSM/ A-SSM	5.4 A

1 PIN POWERED PER ROW

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



E.L.P.
EXTENDED LIFE PRODUCT

10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles

APPLICATIONS



HORIZONTAL

Note: Some lengths, styles and options are non-standard, non-returnable.

A-TSM	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION
		02 thru 36			
				-F = Gold flash on post, Matte Tin on tail	
				-L = 10µ" (0.25 µm) Gold on post, Matte Tin on tail	
				-S = 30µ" (0.76 µm) Gold on post, Matte Tin on tail	
				-T = Matte Tin	

Post Height

- 01 = .230" (5.84 mm) Post Height (Mates with A-SSW, A-BCS, A-SSM)
- 02 = .320" (8.13 mm) Post Height (Mates with A-SSM -DH)
- 03 = .420" (10.67 mm) Post Height (For Bottom Mount & Pass Through)
- 04 = .120" (3.05 mm) Post Height

-SV = Single Row Vertical Pin

(2.54) .100 x No. of positions

(2.54) .100

(0.64) .025 SQ

(1.14) .045 REF

(2.54) .100

(3.81) .150

Post Height

-DV = Double Row Vertical Pin

(2.54) .100 x No. of positions

(2.54) (5.08) .100 .200

(2.54) .100

(0.64) .025 SQ

(1.14) .045 REF

(3.81) .150

Post Height

(2.54) .100

(2.79) .110

(1.58) .062 DIA (No. of positions - 2) x (2.54) .100

-A Option

-LC Option

Edge Mount available. Call Samtec.

-SH = Single Row Horizontal Pin

(1.40) .055

(1.78) .070

(2.54) .100 x No. of positions

(3.05) .120

Optional Alignment Pin (-A)

(1.58) .062 DIA (2)

(No. of positions x (2.54) .100) - (5.08) .200

(0.64) .025 SQ

Post Height

(2.54) .100

(2.03) .080

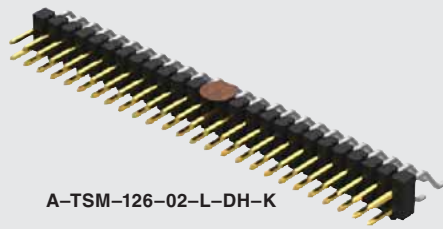
-01 = (4.57) .180

-02 -03 -04 = (4.82) .190

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A-TSM-126-02-L-DH-K

A-TSM-115-01-T-SH-A



A-TSM-110-01-T-DV

A-TSM SERIES

OTHER OPTIONS

-A

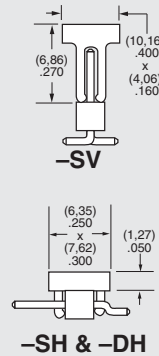
= Alignment Pin
metal or plastic at Samtec discretion
(Not available with -TM)
(02 positions min.)

-K

= (6.50 mm) .256" DIA
Polyimide Film
Pick & Place Pad
(-SH: 4 positions
minimum without -TR;
2 & 3 positions available with -TR)
(-DH: 4 positions
minimum without -TR)

-P

= Plastic Pick & Place Pad
(-DV: 4 positions minimum
without -TR; 2 & 3 positions
available with -TR)
(-SH: 4 positions
minimum without -TR;
2 & 3 positions
available with -TR)
(-DH: 5 positions
minimum without -TR)
(-SV: 4 positions
minimum without -TR;
2 & 3 positions
available with -TR)



-TR

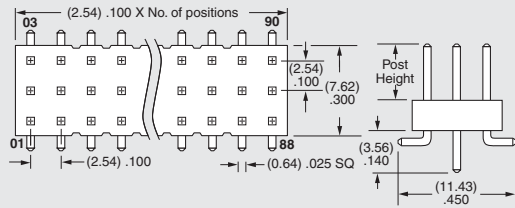
= Tape & Reel Packaging
-SV = 02-22 positions
-DV = 02-28 positions
-SH = 02-30 positions
-DH = 02-29 positions
Not available with -TM

TAPE & REEL AVAILABILITY
No tooling charges.
Minimum order is the lesser of
a full reel quantity or 125 pieces.
Order any quantity above minimum.
In-house design, manufacture.
Quick turn-around.
Call Samtec for specifications
and ordering information.

-TM

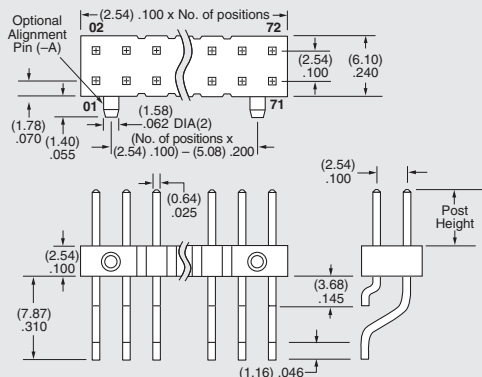
= Triple Row Vertical Mixed Technology (Style -01 only)

02 thru 30 positions only



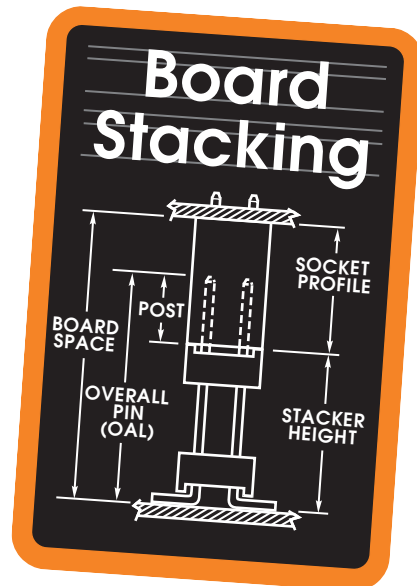
-DH

= Double Row Horizontal Pin
(Style -01, -02 or -03 only)



ALSO AVAILABLE
(MOQ Required)

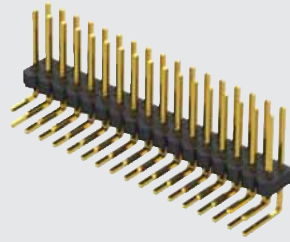
- Solder Locks for -DH and molded shrouds for -DV
 - Other platings
- Contact autosalesgroup@samtec.com



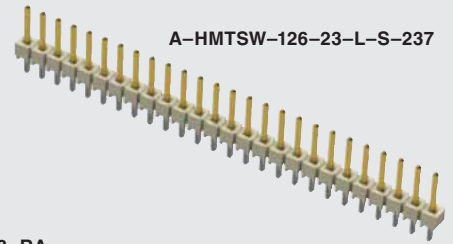
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A-MTSW-117-09-G-D-383-RA



A-HMTSW-126-23-L-S-237

(2.54 mm) .100"

MODIFIED .025" SQ POST HEADERS

Mates with:
A-SSW, A-SSQ,
A-BCS, A-SSM

Modified .025" strips permit custom post heights.

Samtec offers the greatest stacking flexibility in the industry. The "M" stands for Modified. You tell us the post height you need and we'll deliver it.



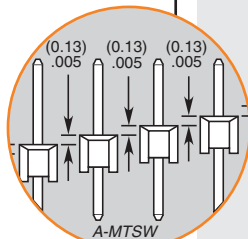
SPECIFICATIONS

For complete specifications see www.samtec.com?A-MTSW or www.samtec.com?A-HMTSW

Insulator Material:
A-MTSW: Black Glass Filled Polyester
A-HMTSW: Natural Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni
Operating Temp Range:
-55°C to +125°C with Gold
-55°C to +105°C with Tin
RoHS Compliant:
Yes
Lead-Free Solderable:
A-MTSW: Wave Only
A-HMTSW: Yes

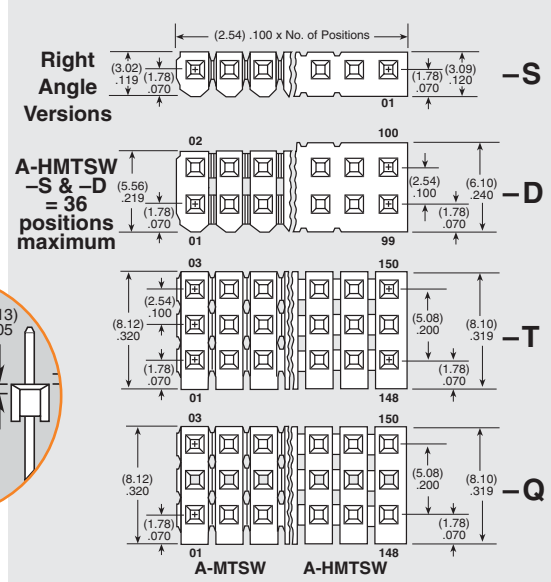
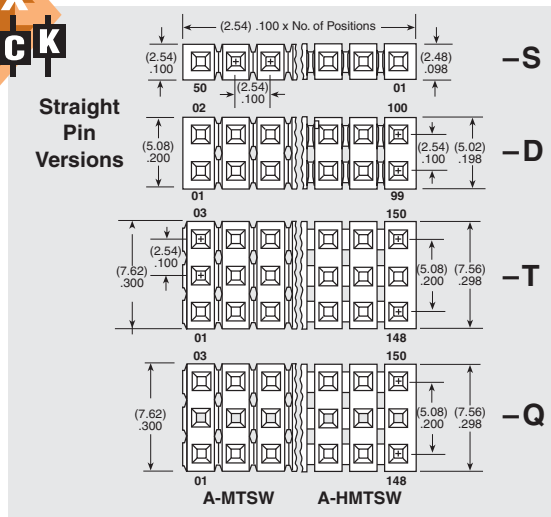
RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



Note:
These Series are non-standard, non-returnable.

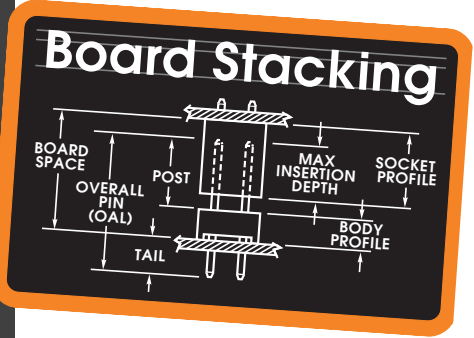
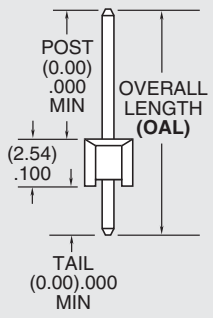
TYPE STRIP	PIN PITCH	NO. PINS PER ROW	LEAD STYLE
A-MTSW = Modified Strip	-1 = (2.54 mm) .100" Pitch	01 thru 50 = (2.54 mm) .100" Center Version	SPECIFY "LEAD STYLE" FROM CHART
A-HMTSW = Hi-Temp Modified Strip	-2 = (5.08 mm) .200" Pitch		



01 thru 50
= (2.54 mm) .100" Center Version

02 thru 25
= (5.08 mm) .200" Center Version

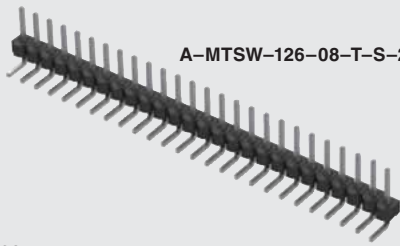
LEAD STYLE	OAL
-06	(7.62) .300
-07	(10.92) .430
-08	(13.46) .530
-09	(18.54) .730
-10	(21.08) .830
-11	(23.62) .930
-12	(26.16) 1.030
-13	(31.24) 1.230
-21	(36.32) 1.430
-22	(16.00) .630
-23	(11.30) .445
-24	(12.19) .480
-27	(33.78) 1.330
-28	(28.70) 1.130



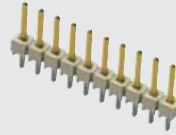
Due to technical progress, all designs, specifications and components are subject to change without notice.



A-MTSW-108-28-G-D-920

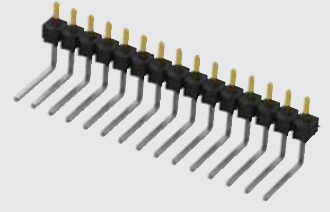


A-MTSW-126-08-T-S-229-RA



A-HMTSW-110-23-L-S-237

A-MTSW-115-09-L-S-229-RE



A-MTSW, A-HMTSW SERIES

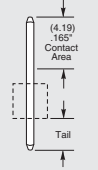
PLATING OPTION

-F
= Gold flash on post, Matte Tin on tail

-L
= 10µ" (0.25 µm) Gold on post,
Matte Tin on tail

-G
= 10µ" (0.25 µm) Gold on post,
Gold flash on balance

-T
= Matte Tin



ROW OPTION

-S
= Single

-D
= Double

-T
= Triple

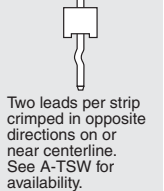
-Q
= Double Row
.200" (5.08 mm)
row space

POST HEIGHT

OTHER OPTION

-RA or -RE = Right Angle

-LL
= Locking Lead
(N/A with -RE,
N/A in single row 1 or 2
positions. Available on
tails from (2.29 mm) .090"
to (10.16 mm) .400" only)



-LA = -RA Option with -LL Option
(Maximum "C" = (13.46 mm) .530)

ALSO AVAILABLE
(MOQ Required)

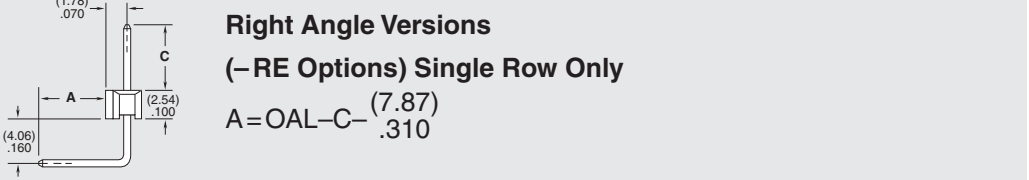
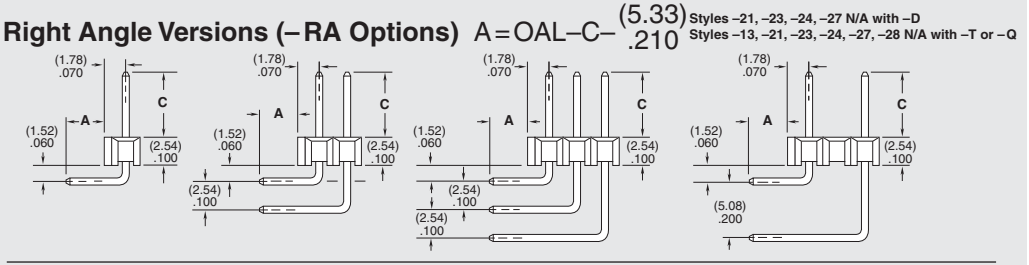
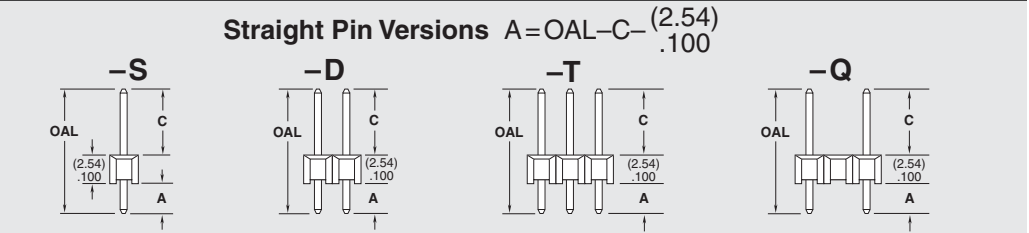
- Other platings

Contact autosalesgroup@samtec.com

— "XXXX" = "C" Dimension (Specify post height in INCHES - .005" (0.13 mm) increments)

FOR A = (2.29) .090				
LEAD STYLE	OAL	C MAXIMUM STRAIGHT	C MAXIMUM w/RA	C MAXIMUM w/RE
-06	(7.62) .300	(2.79) .110	N/A	N/A
-07	(10.92) .430	(6.10) .240	(3.30) .130	N/A
-08	(13.46) .530	(8.64) .340	(5.84) .230	(3.30) .130
-09	(18.54) .730	(13.72) .540	(10.92) .430	(8.38) .330
-10	(21.08) .830	(16.26) .640	(13.46) .530	(10.92) .430
-11	(23.62) .930	(18.80) .740	(16.00) .630	(13.46) .530
-12	(26.16) 1.030	(21.34) .840	(18.54) .730	(16.00) .630
*-13	(31.24) 1.230	(26.42) 1.040	(23.62) .930	(21.08) .830
*-21	(36.32) 1.430	(31.50) 1.240	(28.70) 1.130	(26.16) 1.030
*-22	(16.00) .630	(11.18) .440	(8.38) .330	(5.84) .230
*-23	(11.30) .445	(6.48) .255	(3.68) .145	N/A
*-24	(12.19) .480	(7.37) .290	(4.57) .180	N/A
*-27	(33.78) 1.330	(28.96) 1.140	(26.16) 1.030	(23.62) .930
*-28	(28.70) 1.130	(23.88) .940	(21.08) .830	(18.54) .730

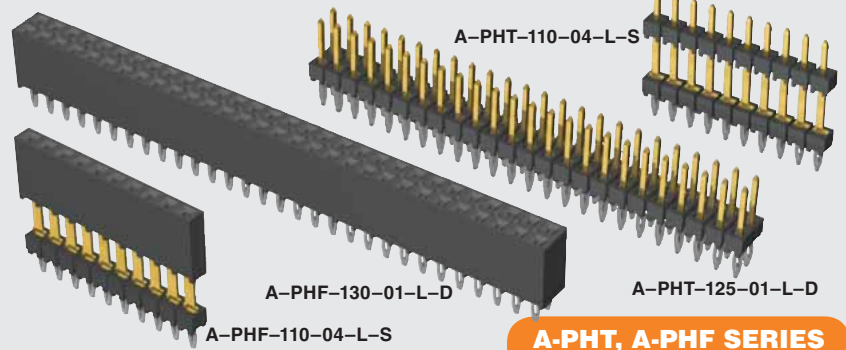
* Styles -21, -23, -24, -27
not available with -D Right Angle
Styles -13, -21, -23, -24, -27, -28
not available with -T or -Q Right Angle



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(2.54 mm) .100"

A-PHT, A-PHF SERIES

PRESS FIT HEADERS & SOCKETS

A-PHT Mates with:
A-SSW, A-SSQ, A-BCS,
A-PHF, A-SSM

A-PHF Mates With:
A-TSW, A-MTSW, A-EW,
A-ZW, A-TSS, A-ZSS,
A-TSM, A-PHT, A-DW, A-HW

SPECIFICATIONS

For complete specifications see www.samtec.com?A-PHT or www.samtec.com?A-PHF

Insulator Material: Liquid Crystal Polymer
Contact Material: Phosphor Bronze
Plating: Au or Sn over 50µ" (1.27 µm) Ni

Current Rating (A-PHT/A-PHF): 4.8 A per pin (1 pin powered per row)
Operating Temp Range: -55°C to +125°C with Gold (A-PHF) **Contact Resistance:** 10 mΩ
(A-PHF) Insertion Depth: (3.68 mm) .145" to (6.35 mm) .250"
RoHS Compliant: Yes

Processing:
Contact ipg@samtec.com

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings

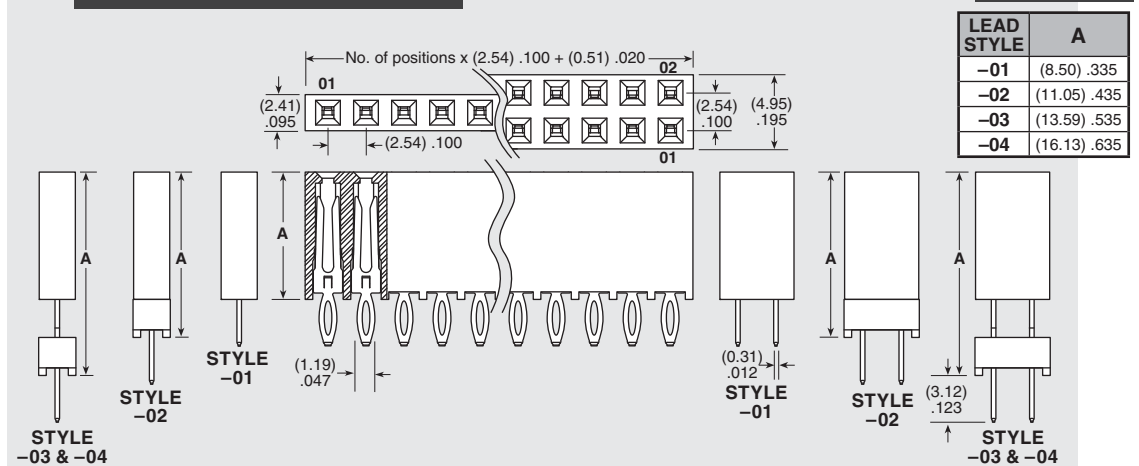
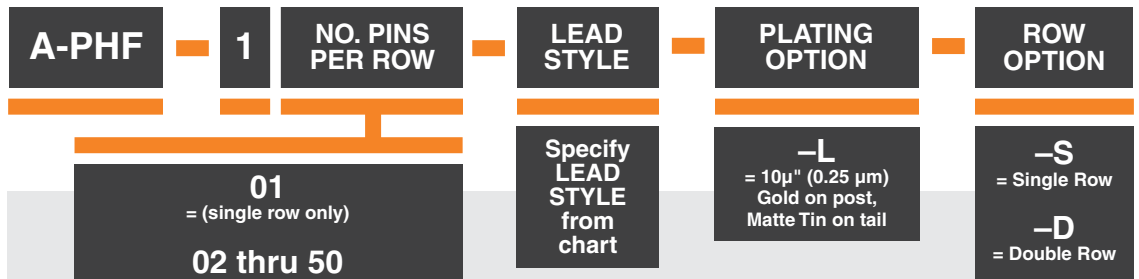
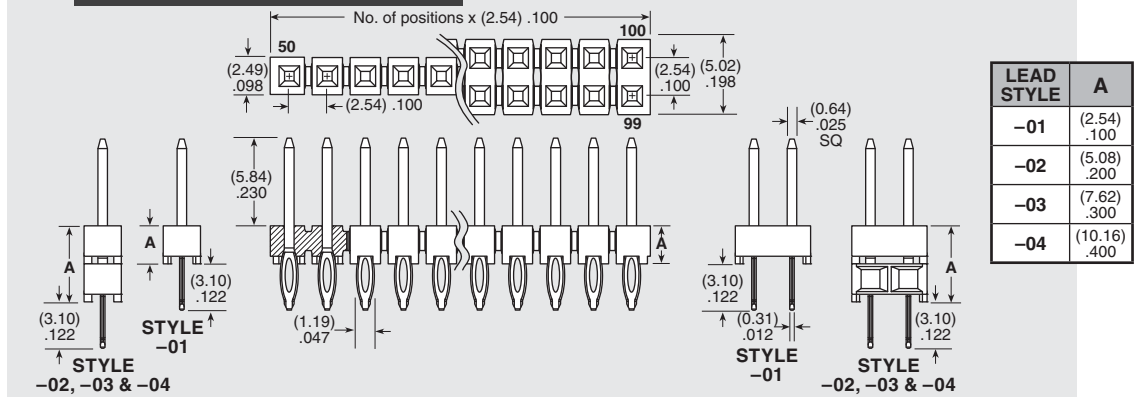
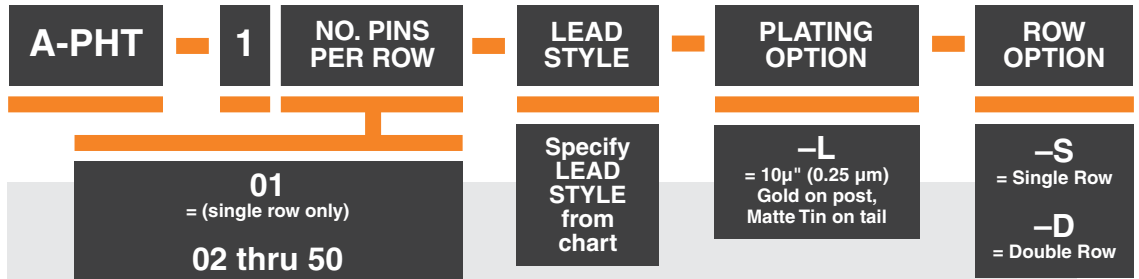
Contact autosalesgroup@samtec.com

TOOLING

- Press fit tooling

Contact autosalesgroup@samtec.com

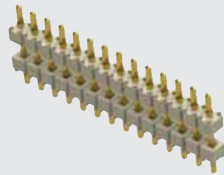
Note: Some lengths, styles and options are non-standard, non-returnable.



Due to technical progress, all designs, specifications and components are subject to change without notice.

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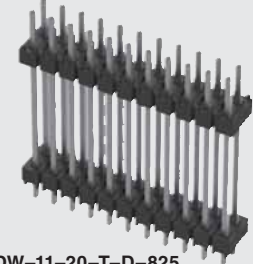
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A-HW-14-08-G-S-300-100



A-DW-11-20-T-D-825



A-DW, A-EW, A-ZW, A-HW SERIES

(2.54 mm) .100"

FLEXIBLE .025" SQ BOARD STACKERS

Mates with:

A-SSW, A-SSQ, A-BCS, A-SSM, A-PHF

SPECIFICATIONS

For complete specifications see www.samtec.com?A-DW, www.samtec.com?A-EW, www.samtec.com?A-ZW or www.samtec.com?A-HW

Insulator Material:

A-DW, A-EW, A-ZW: Black Glass
A-HW: Filled Polyester

Terminal Material:

Phosphor Bronze

Plating:

Au or Sn over 50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C with Gold

-55°C to +105°C with Tin

RoHS Compliant:

Yes

Lead-Free Solderable:

A-DW, A-EW, A-ZW: Wave Only

A-HW: Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

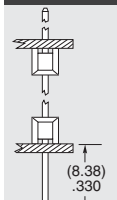


TYPE STRIP

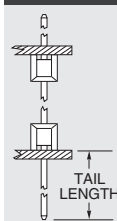
A-DW
= (2.79 mm) .110" Tail



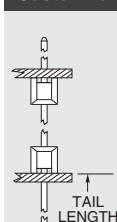
A-EW
= (8.38 mm) .330" Tail



A-ZW
= Custom Tail



A-HW
= High Temp Custom Tail



NO. PINS PER ROW

LEAD STYLE

PLATING OPTION

ROW OPTION

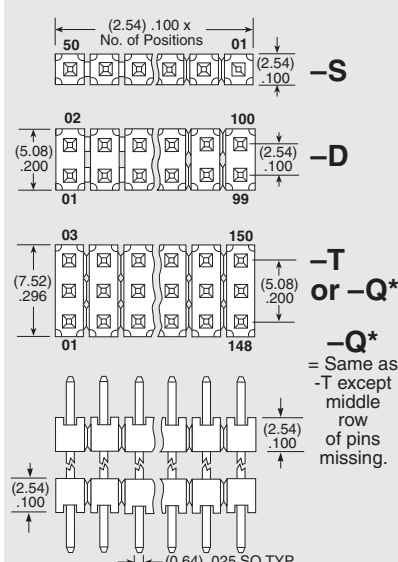
STACKER HEIGHT

OTHER OPTIONS

Specify LEAD STYLE from chart

LEAD STYLE	OAL
-07	(10.92) .430
-08	(13.46) .530
-09	(18.54) .730
-10	(21.08) .830
-11	(23.62) .930
-12	(26.16) 1.030
-13	(31.24) 1.230
-14	(36.32) 1.430
-15	(16.00) .630
-16	(11.30) .445
-17	(12.19) .480
-19	(33.78) 1.330
-20	(28.70) 1.130

01 thru 50



-S
= Single Row

-D
= Double Row

-T
= Triple Row

-Q
= Double Row .200" (5.08 mm) row space

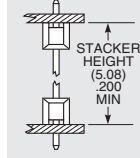
-F
= Gold flash on contact, Matte Tin on tail

-L
= 10µ" (0.25 µm) Gold on contact area of longer tail, Matte Tin on tail

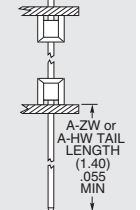
-G
= 10µ" (0.25 µm) Gold on contact area of longer tail, Gold flash on balance

-T
= Matte Tin

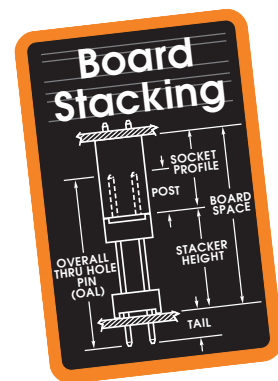
"XXX"
= Stacker Height



"XXX"
= A-ZW or A-HW Tail Length



-LL
= Locking Lead (Shortest dimension between the tail and the post is the end that will be crimped. Available on tails from (2.29 mm) .090" to (7.87 mm) .310" only.) Single row, 01 & 02 positions & -Q row not available



ALSO AVAILABLE (MOQ Required)

- Other platings

Contact autosalesgroup@samtec.com

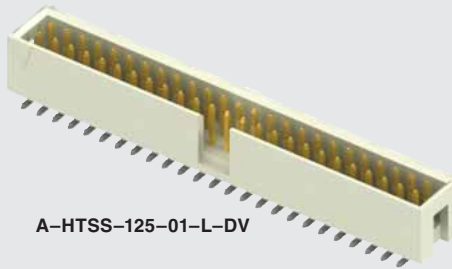
Note: For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

Note: This Series is non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

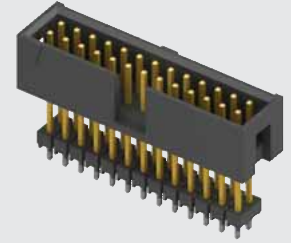
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A-HTSS-125-01-L-DV

A-ZSS-113-03-L-D-0735



A-TSS, A-HTSS, A-ZSS SERIES

(2.54 mm) .100"

SHROUDED .025" SQ POST HEADERS

Mates with:
A-SSW, A-SSQ, A-SSM,
A-BCS

SPECIFICATIONS

For complete specifications see www.samtec.com?A-TSS, www.samtec.com?A-HTSS or www.samtec.com?A-ZSS

Insulator Material:
A-TSS, A-ZSS: Black Glass Filled Polyester
A-HTSS: Natural PCT

Insulation Resistance:
5000 MΩ min

Terminal Material:
Phosphor Bronze

Plating:
Au or Sn over

50μ" (1.27 μm) Ni

Operating Temp Range:
-55°C to +125°C with Gold

-55°C to +105°C with Tin

Flammability Rating:
UL 94V-O

Withstanding Voltage:
1000 VRMS

RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:

A-HTSS: Yes

A-TSS, A-ZSS: Wave Only

SMT Lead Coplanarity:
(0.15 mm) .006"

TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION
A-TSS = Connector Strip	03 (A-TSS only)	05, 07, 08, 10, 12, 13, 15, 17, 20, 25, 32, 36 (Standard sizes.)	Specify LEAD STYLE from chart.	-F = Gold flash on post, Matte Tin on tail (Not available on -DV)	-D = Double Row Through-hole (lead style -01, -02 & -03 only)
A-HTSS = High Temp Connector Strip				-L = 10μ" (0.25 μm) Gold on post, Matte Tin on tail	-DV = Double Row Surface Mount (lead style -01 only) (A-HTSS only)
				-T = Matte Tin	-D-RA = Double Row Right Angle (lead style -04 & -05 only)

LEAD STYLE	T/H (A)
-01	(2.92) .115
-02	(4.19) .165
-03	(14.35) .565

LEAD STYLE	RIGHT ANGLE (B)
-04	(3.30) .130
-05	(5.84) .230



RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Other sizes
- Other platings
- Alignment Pins
- Single Row
- Locking Leads

Contact autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable. A-ZSS is non-standard, non-returnable.

A-ZSS	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	BODY HEIGHT
		03, 05, 07, 08, 10, 12, 13, 15, 17, 20, 25, 32, 36 (Standard sizes.)	Specify LEAD STYLE from chart.	-F = Gold flash on post, Matte Tin on tail		- "XXXX" = Body Height
				-L = 10μ" (0.25 μm) Gold on post, Matte Tin on tail		
				-T = Matte Tin		

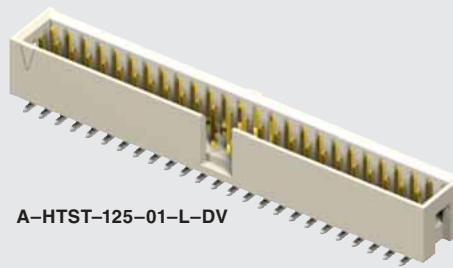
LEAD STYLE	C (OAL)	MAX BODY HEIGHT
-01	(16.00) .630	(13.72) .540
-02	(18.54) .730	(16.26) .640
-03	(21.08) .830	(18.80) .740
-04	(23.62) .930	(21.34) .840
-05	(26.16) 1.030	(23.88) .940
-06	(28.70) 1.130	(26.42) 1.040
-07	(31.24) 1.230	(28.96) 1.140
-08	(33.78) 1.330	(31.50) 1.240
-09	(36.32) 1.430	(34.04) 1.340

Note: For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

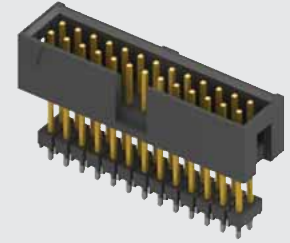
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A-HTST-125-01-L-DV



A-TST, A-HTST, A-ZST SERIES

(2.54 mm) .100"

SHROUDED .025" SQ POST IDC HEADERS

SPECIFICATIONS

For complete specifications
www.samtec.com?A-TST,
www.samtec.com?A-HTST or
www.samtec.com?A-ZST

Insulator Material:
A-TST, A-ZST:
Black Glass Filled Polyester
A-HTST: Natural PCT
Insulation Resistance:
5000 MΩ min
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over
50μ" (1.27 μm) Ni
Operating Temp Range:
-55°C to +125°C with Gold
-55°C to +105°C with Tin
Flammability Rating:
UL 94V-O
Withstanding Voltage:
1000 VRMS
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
A-HTST: Yes
A-TST, A-ZST: Wave Only
SMT Lead Coplanarity:
(0.10 mm) .004" max (05-15)
(0.15 mm) .006" max (17-36)

RECOGNITIONS

For complete scope of
recognitions see
www.samtec.com/quality



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Other platings & sizes
- Alignment Pins
- Single Row
- Locking Leads

Contact
autosalesgroup@samtec.com

Note: Some lengths, styles and options are non-standard, non-returnable. A-ZST is non-standard, non-returnable.

TYPE STRIP	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OTHER OPTION
1	05, 07, 08, 10, 12, 13, 15, 17, 20, 25, 32, 36 (Standard sizes.)	Specify LEAD STYLE from chart.	-F = Gold flash on post, Matte Tin on tail (Not available on -DV) -L = 10μ" (0.25 μm) Gold on post, Matte Tin on tail -T = Matte Tin	-D = Double Row Through-hole (lead style -01, -02 & -03 only) -DV = Double Row Surface Mount (lead style -01 only) (A-HTST only) -D-RA = Double Row Right Angle (lead style -04 & -05 only)	Surface Mount (lead style -01 only) (A-HTST only) -P = Pick & Place Pad -TR = Tape & Reel Packaging

LEAD STYLE	T/H (A)
-01	(2.92) .115
-02	(4.19) .165
-03	(14.35) .565

LEAD STYLE	RIGHT ANGLE (B)
-04	(3.30) .130
-05	(5.84) .230



A-ZST	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	BODY HEIGHT
1	05, 07, 08, 10, 12, 13, 15, 17, 20, 25, 32, 36 (Standard sizes.)	Specify LEAD STYLE from chart.	-F = Gold flash on post, Matte Tin on tail -L = 10μ" (0.25 μm) Gold on post, Matte Tin on tail -T = Matte Tin	- "XXXX" = Body Height

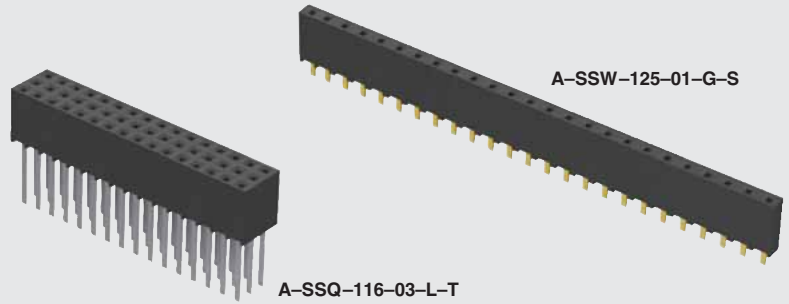
LEAD STYLE	C (OAL)	MAX BODY HEIGHT
-01	(16.00) .630	(13.72) .540
-02	(18.54) .730	(16.26) .640
-03	(21.08) .830	(18.80) .740
-04	(23.62) .930	(21.34) .840
-05	(26.16) 1.030	(23.88) .940
-06	(28.70) 1.130	(26.42) 1.040
-07	(31.24) 1.230	(28.96) 1.140
-08	(33.78) 1.330	(31.50) 1.240
-09	(36.32) 1.430	(34.04) 1.340

Note: For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

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(2.54 mm) .100"

THROUGH-HOLE .025" SQ POST SOCKET

SPECIFICATIONS

For complete specifications see www.samtec.com?A-SSW or www.samtec.com?A-SSQ

Insulator Material:
Black Liquid Crystal Polymer (-S & -D) or Black High Temperature Thermoplastic (-T)

Contact Material:
Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni

Current Rating (A-TSW/A-SSW):
5.7 A per pin
(1 pin powered per row)

Current Rating (A-SSQ/A-TSW):
6.3 A per pin
(1 pin powered per row)

Operating Temp Range:
-55°C to +125°C with Gold
-55°C to +105°C with Tin

Contact Resistance: 10 mΩ
Insertion Depth:
(3.68 mm) .145" to (6.35 mm) .250"

Insertion Force:
(Single contact only)
(-S plating)
Standard= 6 oz (1.67 N) avg
(0.64 mm) .025" SQ pin);

A-SSW Low Insertion Force= 3 oz (0.83 N) avg
A-SSQ Low Insertion Force= 3.3 oz (0.92 N) avg

Normal Force:
Standard= 125 grams (4.4 N)

Withdrawal Force:
(Single contact only)
(-S plating)
Standard= 5 oz (1.39 N) avg
(0.64 mm) .025" SQ pin);

A-SSW Low Insertion Force= 2.6 oz (0.72 N) avg
A-SSQ Low Insertion Force= 2.9 oz (0.81 N) avg

Max Cycles:
100 with 10µ" (0.25 µm) Au

Voltage Rating:
550 VAC mated with A-TSW

RoHS Compliant:
Yes

Lead-Free Solderable:
Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



Note:
Some lengths, styles and options are non-standard, non-returnable.

Mates With:
A-TSW, A-MTSW, A-MTLW,
A-EW, A-ZW, A-TSS,
A-ZSS, A-TSM, A-HTSS



TYPE STRIP

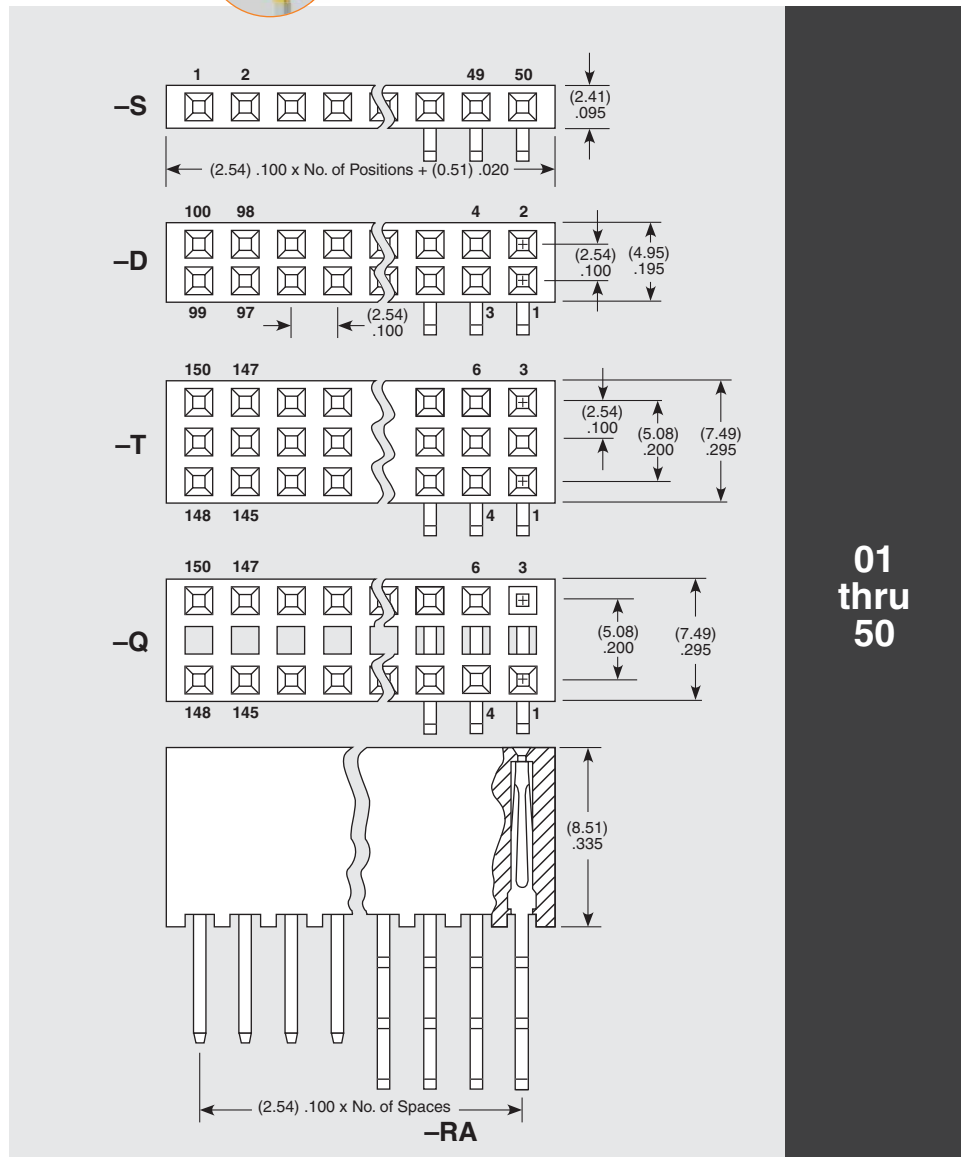
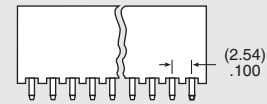
PIN CENTERS

NO. PINS PER ROW

A-SSW = Solder Tail

A-SSQ = Square Tail

-1 = (2.54 mm) .100" Centers

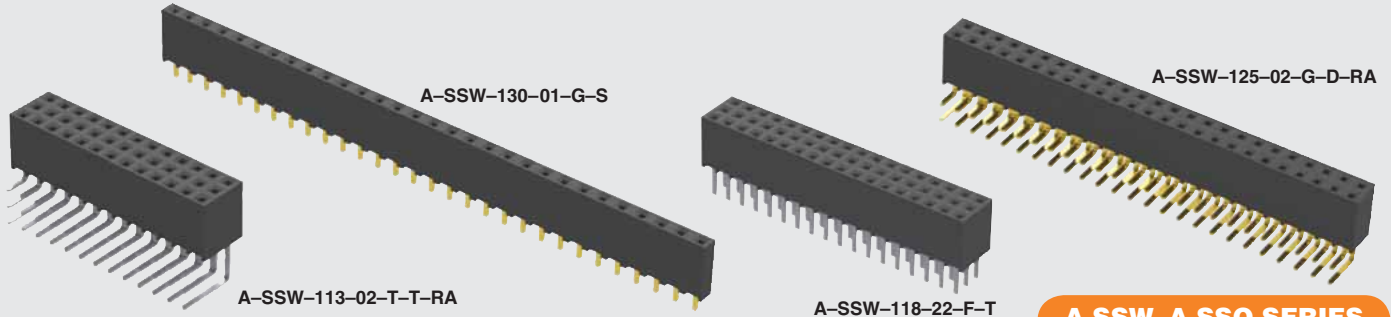


01 thru 50

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A-SSW, A-SSQ SERIES

LEAD STYLE	PLATING OPTION	ROW OPTION	TAIL OPTION	OTHER OPTION
	<p>-F = Gold flash on contact, Matte Tin on tail</p> <p>-L = 10μ" (0.25 μm) Gold on contact, Matte Tin on tail</p> <p>-G = 20μ" (0.51 μm) Gold on contact, Gold flash on tail</p> <p>-T = Matte Tin (-T N/A on LIF contacts)</p>	<p>-S = Single Row</p> <p>-D = Double Row</p> <p>-T = Triple Row</p> <p>-Q = Double Row .200" (5.08 mm) row space (Outer rows filled only)</p>	<p>-RA = Right Angle (Leave blank for straight pin version)</p>	<p>-LL = Locking Lead</p> <p>Two leads per strip crimped in opposite directions on or near centerline. Available on tails from (2.29 mm) .090" to (7.87 mm) .310" only. N/A with single row 1 or 2 positions.</p>
<p>ALSO AVAILABLE (MOQ Required)</p> <ul style="list-style-type: none"> • Other platings • Notch option <p>Contact autosalesgroup@samtec.com</p>				

Straight Pin Versions (Specify "LEAD STYLE" from chart)

LEAD STYLE		SINGLE DOUBLE OR TRIPLE A
Standard Insertion Force	Low Insertion Force*	
-01	-21	(2.64) .104
-02	-22	(4.93) .194
-03	-23	(10.00) .394
-04	-24	(14.83) .584
-06**	N/A	(3.15) .124

* LIF N/A with Tin Plating
**Style -06 N/A with A-SSQ

Right Angle Versions (Specify "LEAD STYLE" from chart)

LEAD STYLE		SINGLE	DOUBLE	TRIPLE
Standard Insertion Force	Low Insertion Force*	(-S) A	(-D) A	(-T & -Q) A
-02	-22	(2.54) .100	(2.54) .100	(2.54) .100
-03	-23	(7.62) .300	(7.62) .300	N/A
-04	-24	(12.45) .490	N/A	N/A

*LIF N/A with Tin Plating

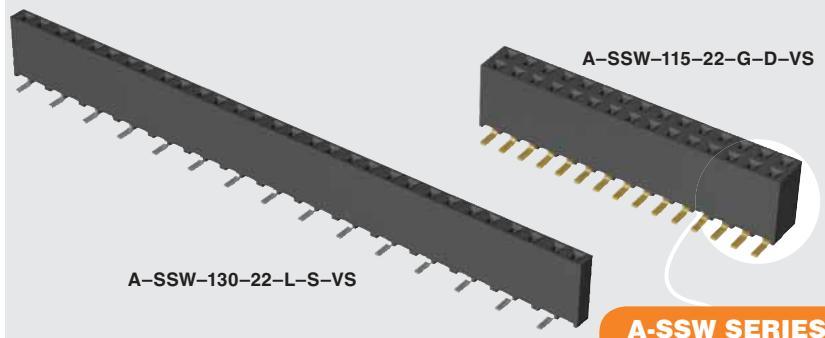
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(2.54 mm) .100"



A-SSW SERIES

SMT .025" SQ POST SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SSW

Insulator Material:
Black LCP

Contact Material:
Phosphor Bronze

Plating:

Au or Sn over
50µ" (1.27 µm) Ni

Current Rating (A-SSW/A-TSW):
5.7 A per pin
(1 pin powered per row)

Operating Temp Range:
-55°C to +125°C with Gold
-55°C to +105°C with Tin

Contact Resistance:
10 mΩ

Insertion Depth:
(3.68 mm) .145" to
(6.35 mm) .250"

Insertion Force:
(Single contact only)
3 oz (0.83 N) avg.

Withdrawal Force:
(Single contact only)
2.6 oz (0.72 N) avg.

Max Cycles:
100 with 10µ" (0.25 µm) Au

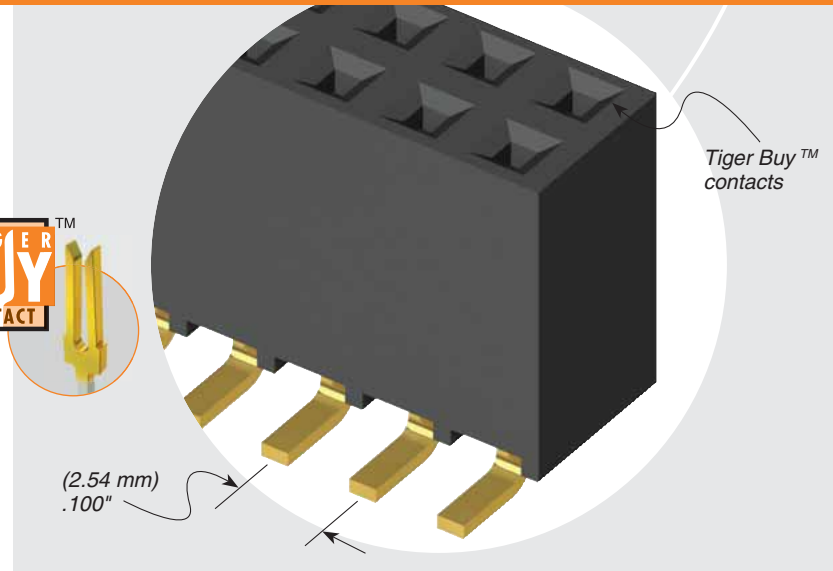
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes

SMT Lead Coplanarity:
(0.10 mm) .004" max

Mates With:

- A-TSW, A-MTSW,
- A-HTSW, A-HMTSW,
- A-MTLW, A-EW, A-ZW,
- A-TSS, A-HTSS, A-ZSS,
- A-TSM, A-DW, A-HW



A-SSW	1	NO. PINS PER ROW	22	PLATING OPTION	ROW OPTION	VS	OTHER OPTION
02 thru 36				-F = Gold flash on contact, Matte Tin on tail -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail -G = 20µ" (0.51 µm) Gold on contact, Gold flash on tail	-S = Single Row -D = Double Row	-K = -S: (3.50 mm) .138" DIA, -D: (6.50 mm) .256" DIA Polyimide film Pick & Place Pad (03 positions min.) -TR = Tape & Reel Packaging (-02 thru -28)	

RECOGNITIONS

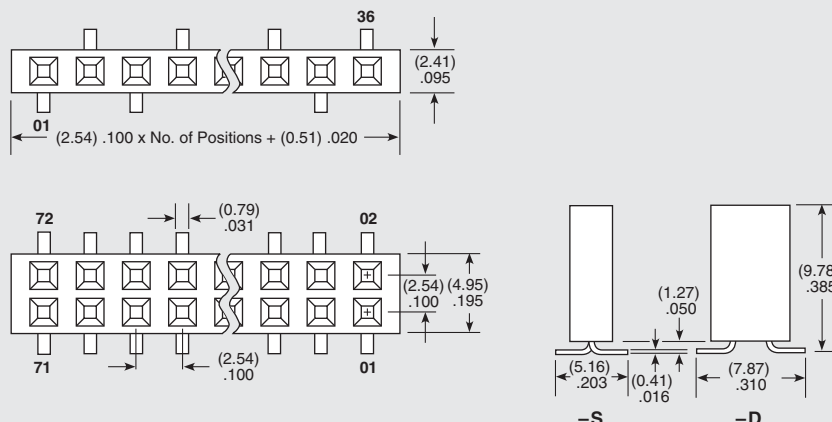
For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other platings
- Notch option

Contact autosalesgroup@samtec.com

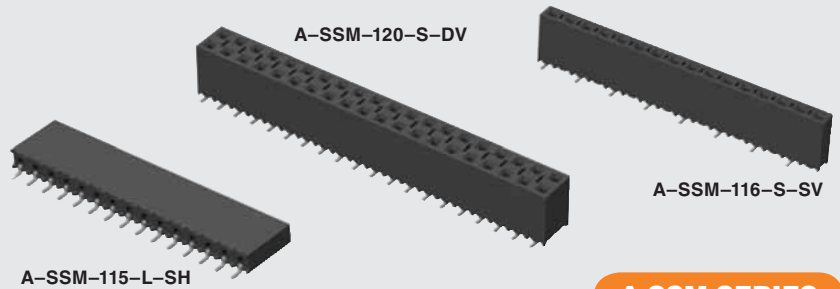


Note: Some lengths, styles and options are non-standard, non-returnable.

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A-SSM SERIES

(2.54 mm) .100"

TIGER CLAW™ SURFACE MOUNT SOCKET

Mates with:

A-TSW, A-MTSW, A-TST, A-TSS, A-ZST, A-ZSS, A-DW, A-EW, A-ZW, A-TSM, A-HMTSW, A-HTSW, A-HTSS, A-TLW, A-MTLW

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SSM

Insulator Material: Black Liquid Crystal Polymer
Contact Material: Phosphor Bronze

Plating: Au or Sn over 50µ" (1.27 µm) Ni

Current Rating (A-SSM/A-TSW): 5.2 A per pin (1 pin powered per row)

Voltage Rating: 360 VAC / 510 VDC

Operating Temp Range: -55°C to +125°C with Gold
 -55°C to +105°C with Tin

Contact Resistance: 10 mΩ

Insertion Depth: SV/DV is (4.34 mm) .171" to (7.24 mm) .285" or pass-through from top; (5.66 mm) .219" plus board thickness minimum from bottom; SH/DH is (4.34 mm) .171" to (6.35 mm) .250"

Insertion Force: (Single contact only) 5 oz (1.39 N) average

Normal Force: 125 grams (1.21 N) average

Withdrawal Force: (Single contact only) 2 oz (0.56 N) average

RoHS Compliant: Yes

Processing:

Lead-Free Solderable: Yes

-DH Coplanarity: Less than 28 positions (0.15 mm) .006" max

More than 27 positions (0.20 mm) .008" max

-SH, -SV, -DV Coplanarity: (0.15 mm) .006" max

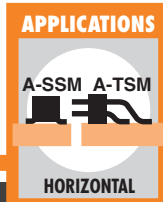
RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



Note: Some lengths, styles and options are non-standard, non-returnable.

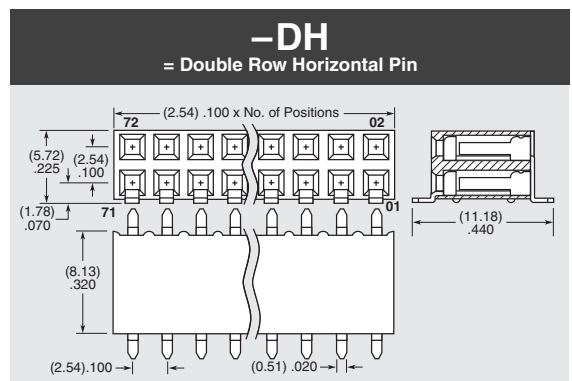
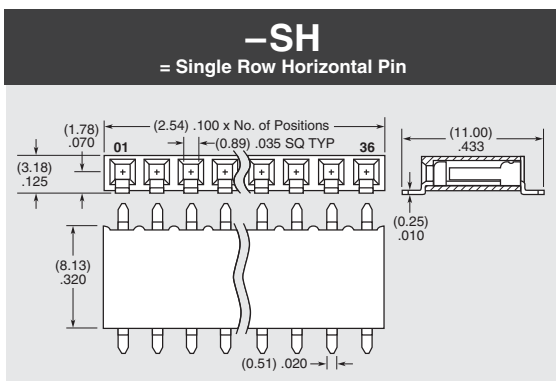
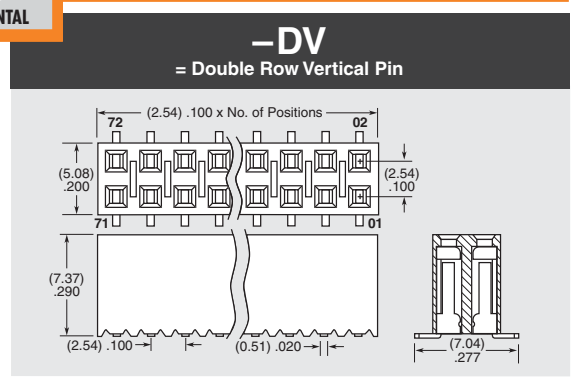
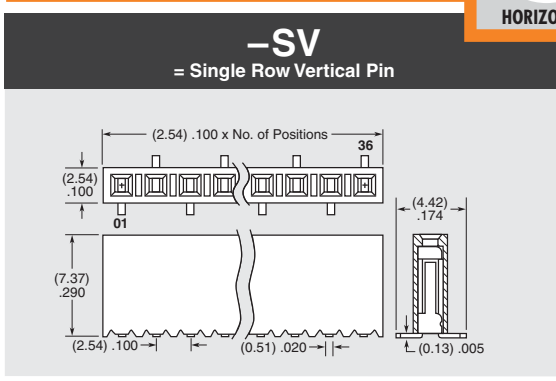
A-SSM	1	NO. PINS PER ROW	PLATING OPTION	ROW OPTION	OTHER OPTION
02 thru 36 (-SV, -SH, -DH)					-BE = Bottom Entry (-DV & -SV only)
02 thru 40 (-DV)					-P = Plastic Pick & Place Pad (-DV & -SV only) (6 pos. minimum, contact Samtec for availability on smaller positions)
			-F = Gold flash on contact, Matte Tin on tail		
			-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail		
			-S = 30µ" (0.76 µm) Gold on contact, Matte Tin on tail		-TR = Tape & Reel Packaging (29 positions max.)



ALSO AVAILABLE (MOQ Required)

- Alignment pin

Contact autosalesgroup@samtec.com

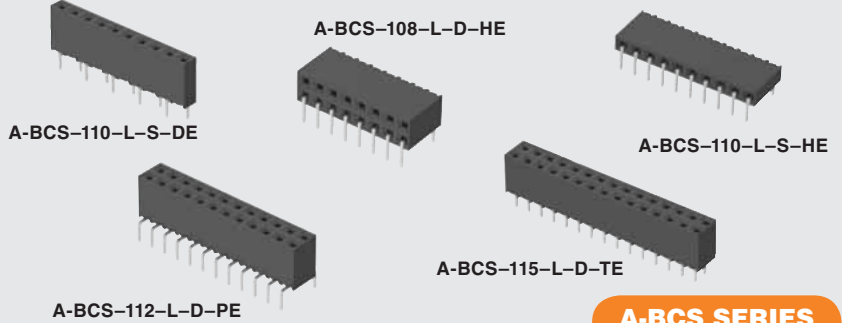


Due to technical progress, all designs, specifications and components are subject to change without notice.

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(2.54 mm) .100"



A-BCS SERIES

TIGER CLAW™ PASS-THROUGH SOCKET

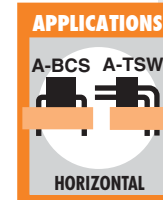
Mates with:

- A-TSW, A-MTSW, A-HTSW, A-HMTSW, A-TSS, A-ZSS, A-DW, A-EW, A-ZW, A-HW, A-TSM, A-MTLW, A-PHT

SPECIFICATIONS

For complete specifications see www.samtec.com?A-BCS

- Insulator Material:** Black Liquid Crystal Polymer
- Contact Material:** Phosphor Bronze
- Plating:** Au or Sn over 50µ" (1.27 µm) Ni
- Current Rating (A-BCS/A-TSW):** 4.6 A per pin (1 pin powered per row)
- Voltage Rating:** 475 VAC (-TE/-DE/-PE mated with A-TSM) 450 VAC (-HE mated with A-TSW)
- Operating Temp Range:** -55°C to +125°C
- Contact Resistance:** 10 mΩ
- Insertion Depth:** (4.34 mm) .171" to (7.24 mm) .285" from top, (5.64 mm) .222" plus board thickness minimum from bottom. -HE is (4.34 mm) .171" to (6.35 mm) .250"
- Insertion Force:** (Single contact only) 5 oz (1.39 N) avg. (.025" (0.64 mm) SQ pin)
- Withdrawal Force:** (Single contact only) 3 oz (0.83 N) avg. (.025" (0.64 mm) SQ pin)
- RoHS Compliant:** Yes
- Lead-Free Solderable:** Yes



Contact autosalesgroup@samtec.com

RECOGNITIONS

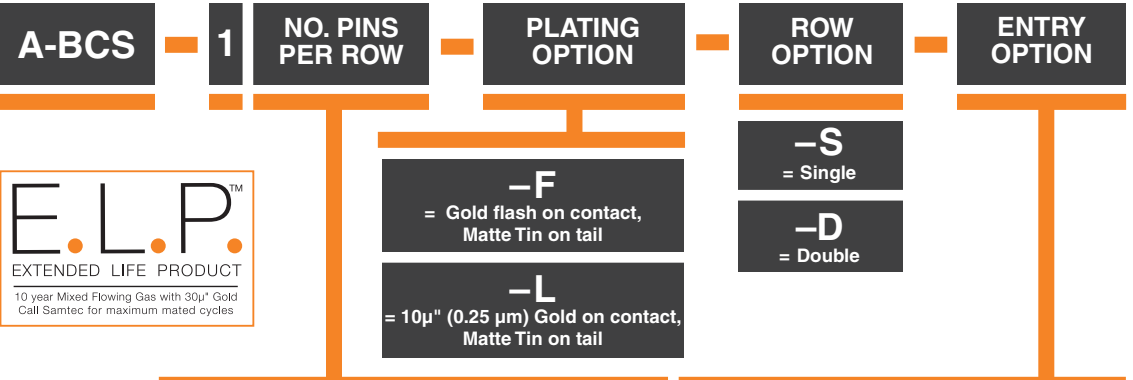
For complete scope of recognitions see www.samtec.com/quality



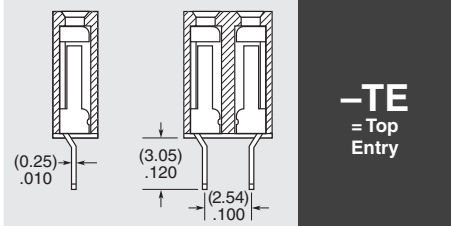
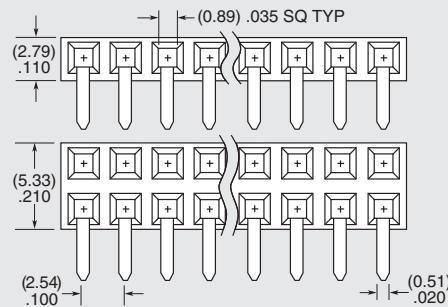
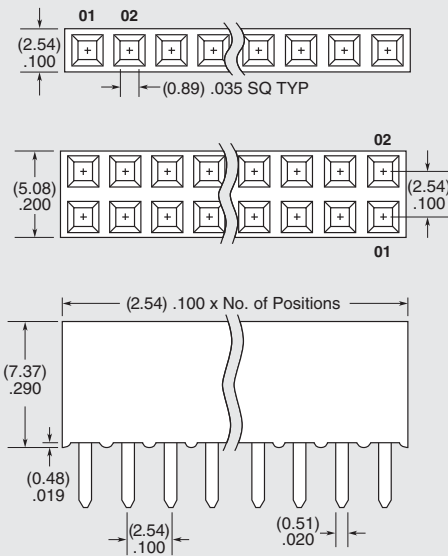
ALSO AVAILABLE (MOQ Required)

- Other platings

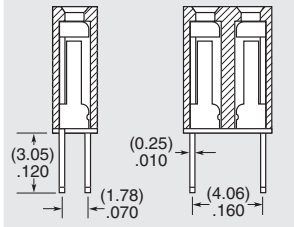
Note: Some lengths, styles and options are non-standard, non-returnable.



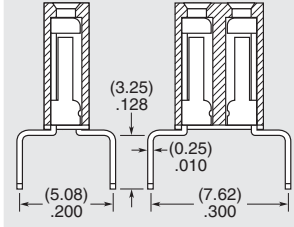
01 thru 50



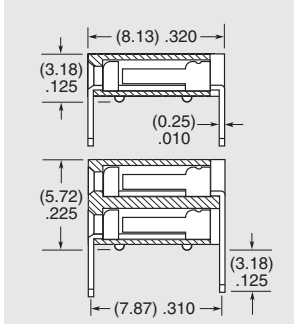
-TE
= Top Entry



-DE
= Top Entry (For Bottom Entry specify -DE-BE) Cannot be used with plated through-holes



-PE
= Pass-Through Entry (For Bottom Entry specify -PE-BE)

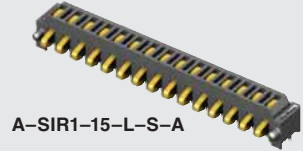
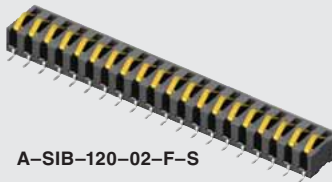


-HE
= Horizontal Entry

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(2.54 mm) .100"

A-SIB, A-SIR1 SERIES

ONE PIECE INTERFACES

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SIB

Insulator Material:
Black Liquid Crystal Polymer
Contact Material:
Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni
Current Rating:
2.6 A per pin
(1 pin powered per row)
Operating Temp Range:
-55°C to +125°C
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (02-19)
(0.15 mm) .005" max (20-30)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



A-SIB	1	NO. OF POSITIONS	02	PLATING OPTION	S
02 thru 30 (Per Row)			-F = Gold flash on contact, Matte Tin on tail		

Note: The A-SIB Series is intended for vertical mating only.

Note: Some sizes, styles and options are non-standard, non-returnable.

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-SIR1

Insulator Material:
Black LCP
Contact Material:
Phosphor Bronze
Plating:
Au or Sn over 50µ" (1.27 µm) Ni
Current Rating:
2.8 A per pin
(1 pin powered per row)
Weld Tab:
Phosphor Bronze
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

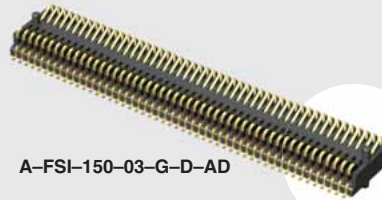


A-SIR1	NO. OF POSITIONS	PLATING OPTION	S	OPTION
-03, -05, -10, -15 (Per Row)		-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail		-A = Alignment Pin
		-S = 30µ" (0.76 µm) Gold on contact, Matte Tin on tail		-K = (4.00 mm) .157" DIA Polyimide Film Pick & Place Pad
				-TR = Tape & Reel

Note: Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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A-FSI-150-03-G-D-AD



(1.00 mm) .0394"

LOW PROFILE & ELEVATED ONE PIECE

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-FSI

Insulator Material:
Liquid Crystal Polymer

Contact Material:
BeCu

Current Rating:
2.8 A per pin

(1 pin powered per row)
Operating Temp Range:
-55°C to +125°C

Plating:
Au over 50µ" (1.27 µm) Ni
RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:
Yes

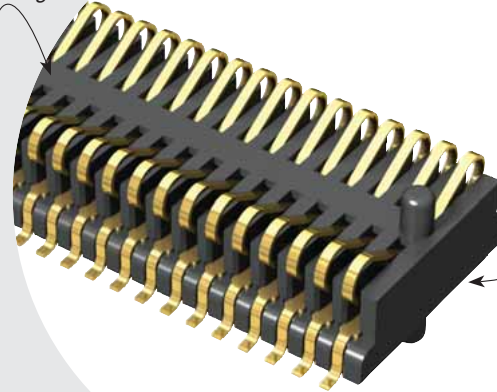
SMT Lead Coplanarity:
(0.10 mm) .004" max (05-30)
(0.15 mm) .006" max (50)

Compression Board:
Gold Pads required

ALSO AVAILABLE (MOQ Required)

- No alignment pin
 - Top side alignment pin
 - Bottom side alignment pin
 - Other platings
- Contact autosalesgroup@samtec.com

Choice of board stacking profiles



Short version

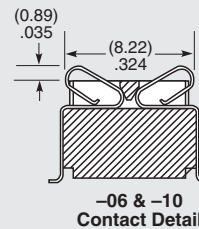
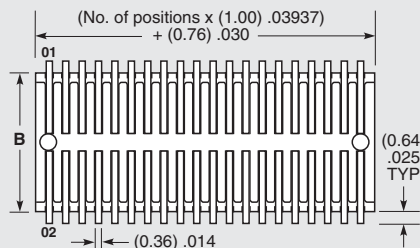
RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

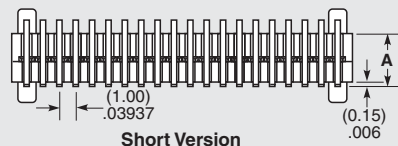


FILE NO. E111594

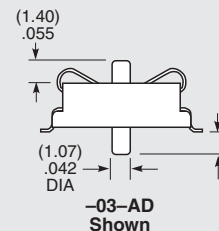
A-FSI	1	PINS PER ROW	BODY HEIGHT	PLATING OPTION
05, 10, 20, 30, 50 (Short Version)			-03 = 3.00 mm -06 = 6.00 mm -10 = 10.00 mm	-G = 10µ" (0.25 µm) Gold (-03 only) -L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail (Not available with -03 body height)



BODY HEIGHT	A	B
-03	(3.00) .118	(8.76) .345
-06	(6.00) .236	(9.02) .355
-10	(10.00) .394	(9.02) .355



Short Version

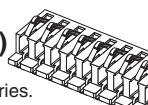


-03-AD Shown

Double Row Version -03, -06, -10

Other Solutions

.100"
(2.54 mm)
Pitch
See A-SIB Series.

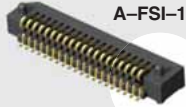


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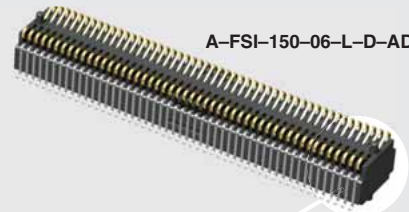
A-FSI-120-03-G-S-AD



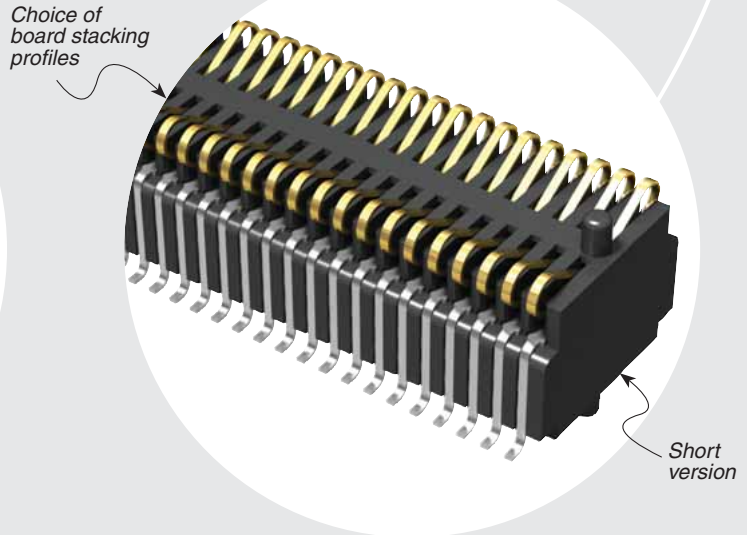
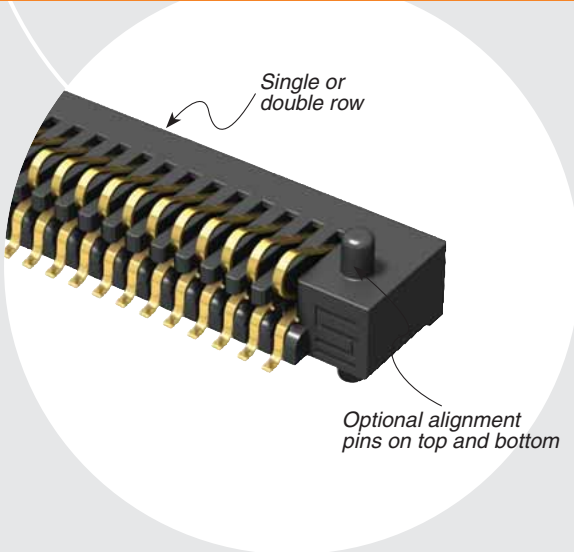
A-FSI-120-06-L-S-AD



A-FSI-150-06-L-D-AD



A-FSI SERIES



ROW OPTION

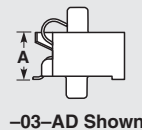
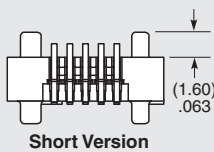
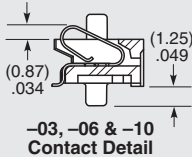
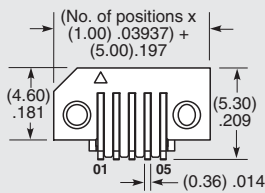
- S
= Single Row
(Available with 5, 10 & 20 pins with -AD alignment pin)
- D
= Double Row

ALIGNMENT OPTION

- Leave blank for no Alignment Pin
- AD
= Alignment Pin Top & Bottom

OTHER OPTION

- K
= Polyimide Film Pick & Place Pad
(50 position with threaded insert option only)
- P
= Plastic Pick & Place Pad
(5.08 mm) .200" x (12.45 mm) .490"
(50 not available with -E)
(Not available with -S row option or -03 body height)
- TR
= Tape & Reel Packaging



Single Row Version -03, -06, -10

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(0.50 mm) .0197"

A-FT5, A-FS5 SERIES

HIGH SPEED FLOATING CONTACT SYSTEM

A-FT5 Mates with:

A-FS5

A-FS5 Mates with:

A-FT5

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-FT5 or www.samtec.com?A-FS5

Insulator Material:

Black Liquid Crystal Polymer

Contact Material:

Phosphor Bronze (A-FT5)
BeCu (A-FS5)

Weld Tab:

Phosphor Bronze

Plating:

Au or Sn over

50µ" (1.27 µm) Ni

Current Rating:

1.8 A per pin
(1 pin powered per row)

Operating Temp Range:

-55°C to +125°C

RoHS Compliant:

Yes

Lead-Free Solderable:

Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

MATED HEIGHT

MATED HEIGHT*		
A-FS5 LEAD STYLE	A-FT5 LEAD STYLE	
-04.0	-01.0	-03.0
(5.00) .197	(7.00) .276	

*Processing conditions will affect mated height.

Note: Floating contact system provides 0.50 mm float in X and Y directions.

Note: Some lengths, styles and options are non-standard, non-returnable.

A-FT5	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	ROW OPTION	TH	OPTION
	-15, -30 (Per Row)	-01.0 = 1 mm Body Height -03.0 = 3 mm Body Height -01 = Right Angle	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail	-DV = Vertical	-TH = Through-hole weld tab	Required callouts -P = Pick & Place Pad -TR = Tape & Reel

LEAD STYLE	A
-01.0	(3.72) .146
-03.0	(5.72) .225

A-FS5	NO. OF POSITIONS	LEAD STYLE	PLATING OPTION	DV	TH	K	TR
	-15, -30 (Per Row)	-04.0 = 4 mm Body Height	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail		-TH = Through-hole weld tab	-K = (8.25 mm) .325" DIA Polyimide Film Pick & Place Pad	-TR = Tape & Reel

ALSO AVAILABLE (MOQ Required)

- Other lead counts
- Contact autosalesgroup@samtec.com

Due to technical progress, all designs, specifications and components are subject to change without notice.

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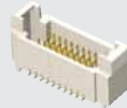
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T1M-07-GF-SV



T1M-10-GF-DV



ISS1-10



CC09R-01-GF



ISD1-10

T1M-05-GF-SH



(1.00 mm) .0394"

A-ISS1, A-ISD1, A-CC09, A-T1M SERIES

DISCRETE WIRE COMPONENTS & TOOLING

SPECIFICATIONS

For complete specifications see www.samtec.com?A-ISS1, www.samtec.com?A-ISD1 or www.samtec.com?A-CC09

Insulator Material:
Natural Nylon

TOOLING

- Hand tool:
CAT-HT-309-2830-12
- Clamp for mounting hand tool to work table:
CAT-HT-MNT-01
- Mini Applicator:
CAT-MA-309-2830-XX-01

TYPE	NO. OF POSITIONS	LATCH	TYPE	01	PLATING
A-ISS1 = Single Row Body	-02, -03, -05, -07, -10, -15, -20 (Single Row only)	-L = Positive Latch (Single row only)	A-CC09R = Contact, Full Reel (30,000 Parts per Reel)		-GF = 3µ" (0.07 µm) Gold contact and tail
A-ISD1 = Double Row Body	-02, -03, -04, -05, -10 (Double Row only)		A-CC09M = Contact, Mini Reel (5,000 Parts per Reel)		-T = Tin

ISS1 dimensions: No. of positions x (1.00) .03937 + (1.20) .047; No. of positions x (1.00) .03937 + (3.00) .118; (1.00) .03937; (4.20) .165; (5.00) .197

ISD1 dimensions: No. of positions x (1.00) .03937 + (7.30) .287; (1.00) .03937; No. of positions x (1.00) .03937 + (5.30) .209

A-CC09R dimensions: (9.01) .355; (2.76) .109; (3.60) .141; (3.81) .150; (3.60) .141

Contact Material: Phosphor Bronze

SPECIFICATIONS

For complete specifications see www.samtec.com?A-T1M

Insulator Material:
Natural LCP

Terminal Material:
Phosphor Bronze

Weld Tab:
Phosphor Bronze

Plating:
Au or Sn over

50µ" (1.27 µm) Ni

Operating Temp Range:
-55°C to +85°C

Current Rating:
3.3 A per pin

(1 pin powered)

Voltage Rating:
250 VAC/353 VDC

RoHS Compliant:
Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



Note: Some lengths, styles and options are non-standard, non-returnable.

A-T1M	NO. OF POSITIONS	PLATING OPTION	ROW OPTION	LATCH	OPTION	TR
	-02, -03, -05, -07, -10, -15, -20 (Single Row only)	-GF = 3µ" (0.07 µm) Gold contact and tail	-SH = Single Row Horizontal	-L = Positive Latch (-SH & -SV only)	-K = (4.00 mm) .157" DIA Polyimide Film Pick & Place Pad (-SH, DH & -DV only)	-TR = Tape & Reel
	-02, -03, -04, -05, -10 (Double Row only)	-T = Tin	-SV = Single Row Vertical		-P = Pick & Place Pad (-SV only)	
			-DH = Double Row Horizontal			
			-DV = Double Row Vertical			

A-T1M dimensions: No. of positions x (1.00) .0394 + (2.40) .094; (4.25) .167; (5.20) .205; (4.60) .181; (1.00) .0394; (0.20) .008

-SH dimensions: (4.25) .167; (5.50) .217; (4.45) .179; (1.00) .0394; (0.20) .008

-SV dimensions: (4.50) .177; (0.80) .031 DIA; (0.20) .008; (0.60) .024; (0.30) .012; (0.80) .031

-DV dimensions: (6.25) .246; (3.95) .156; (1.00) .03937; (6.80) .268; (0.30) .012; (0.20) .008; (0.60) .024; (0.80) .031

-DH dimensions: No. of positions x (1.00) .03937 + (9.00) .354; (7.55) .297; (1.00) .03937; (6.70) .264; No. of positions x (1.00) .03937 + (7.85) .309

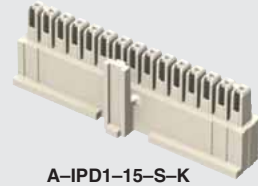
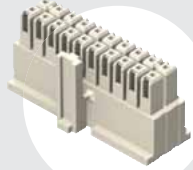
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A-IPD1-10-D-K



A-IPD1-15-S-K

A-CC79L-2630-01-L



(2.54 mm) .100"

A-IPD1, A-CC79 SERIES

DISCRETE WIRE CABLE COMPONENTS

SPECIFICATIONS

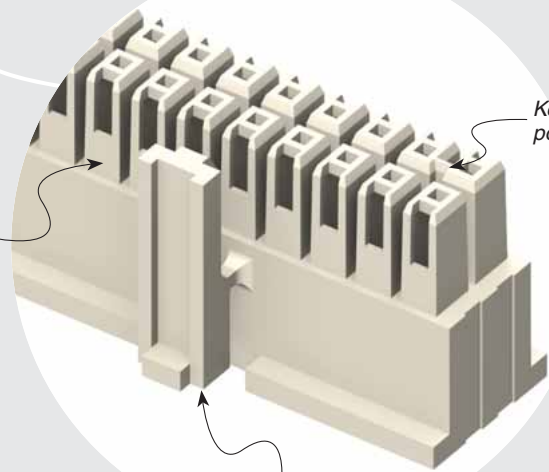
For complete specifications see www.samtec.com?A-IPD1 or www.samtec.com?A-CC79

TOOLING

- Hand tool (20-30 AWG): CAT-HT-179-2030-13
- Mini Applicator (20-24 AWG): CAT-MA-179-2024-XX-01
- Mini Applicator (26-30 AWG): CAT-MA-179-2630-XX-01



Single or double row



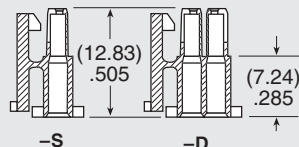
Keyed polarization

Plastic Latch

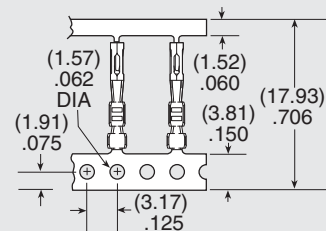
PK-79

- Replaces the A-CC79 contact in the Mini Mate® housing (A-IPD1) for customizable polarization
- Plugs are molded black for better visibility against the white Mini Mate® housing
- PK-79 plugs are packaged in standard 50 pcs/bulk bag
- Handle is easily removed after insertion
- See www.samtec.com?PK79 for complete specifications

TYPE	POSITIONS PER ROW	ROW OPTION	K	TYPE	WIRE GAUGE	01	PLATING OPTION
A-IPD1 = Body, Loose	-02, -03, -04, -05, -06, -08, -10, -12, -15, -16, -20, -25 (Standard sizes)	-S = Single Row -D = Double Row	-K = Keyed Polarization	A-CC79L = Contact, Loose A-CC79R = Contact, Full Reel (14,000 Parts per Reel)	-2630 = 26 to 30 AWG -2024 = 20 to 24 AWG		-L = 10µ" (0.25 µm) Gold on contact, Tin on tail



Insulator Material: Nylon 66



Contact Material: Phosphor Bronze

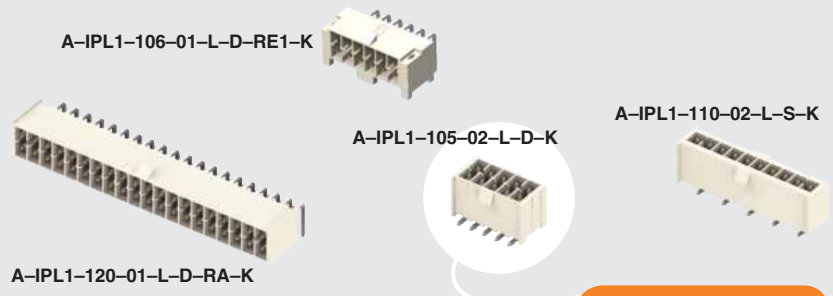
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WWW.SAMTEC.COM

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(2.54 mm) .100"



A-IPL1 SERIES

DISCRETE WIRE HEADER

SPECIFICATIONS

For complete specifications www.samtec.com?A-IPL1

Insulator Material:

Natural LCP

Terminal Material:

Phosphor Bronze

Plating:

Sn or Au over

50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +125°C

Voltage Rating:

675 VAC/954 VDC

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

-S & -D (-02 Lead Style)

SMT Lead Coplanarity:

(0.10 mm) .004" max (02-05)

(0.13 mm) .005" max (06-10)

(0.15 mm) .006" max (11-25)

-SH SMT Lead Coplanarity:

(0.15 mm) .006" max (02-25)

Mates with discrete wire cable assemblies

Keyed Polarization

Align & Latch™



(2.54 mm) .100" pitch

Surface Mount, Right Angle, Right Angle Elevated and Vertical Through-hole

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



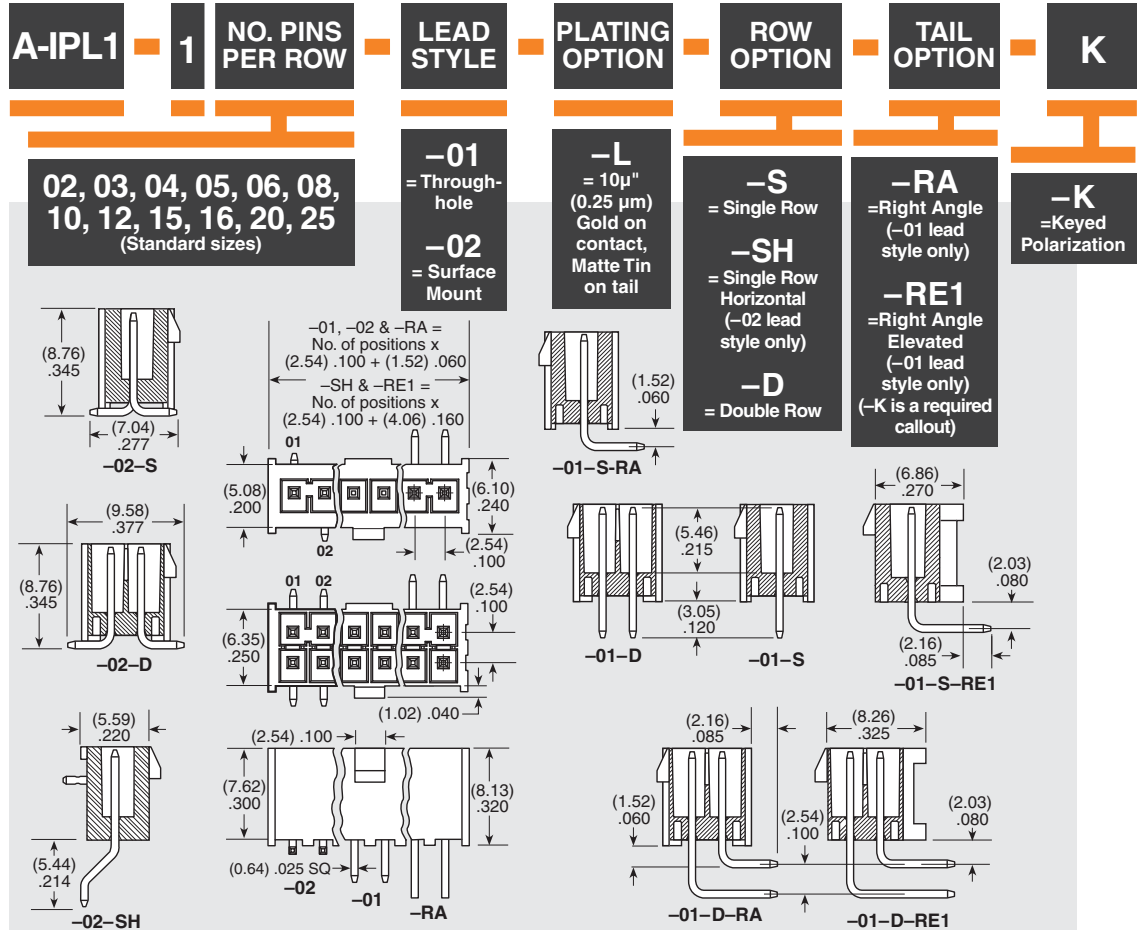
FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Other sizes
- With or without plug polarization
- Guide post holes
- Other platings
- Weld tab

Contact autosalesgroup@samtec.com

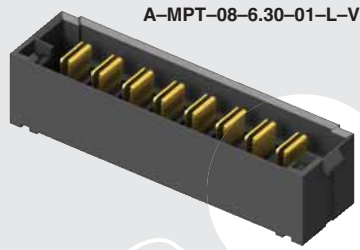
Note: Some lengths, styles and options are non-standard, non-returnable.



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(5.00 mm) .1969"

A-MPT SERIES

30 A DUAL BLADE HEADER

SPECIFICATIONS

For complete specifications see www.samtec.com?A-MPT

Insulator Material: Black LCP

Terminal Material: Copper Alloy

Plating: Sn or Au over 50µ" (1.27 µm) Ni

Operating Temp Range: -55°C to +105°C with Tin; -55°C to +125°C with Gold

Voltage Rating: 600 VAC/848 VDC

RoHS Compliant: Yes

Lead-Free Solderable: Yes

Lead-Free Solderable: Yes

Yes

Yes

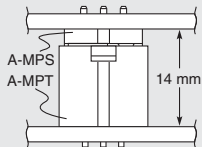
RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

MATED HEIGHT

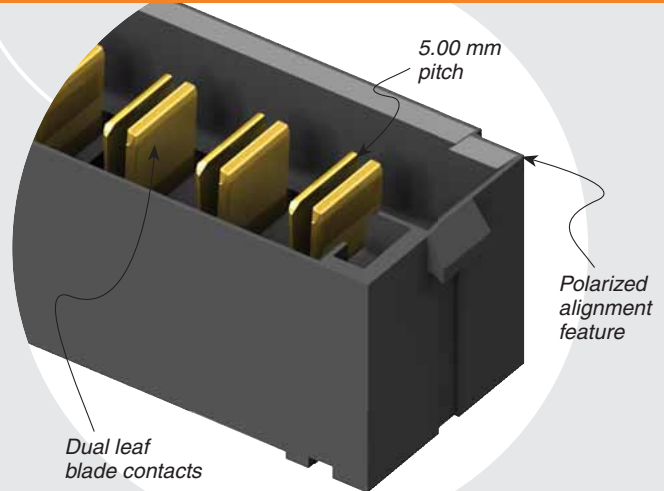


Mates with:
A-MPS

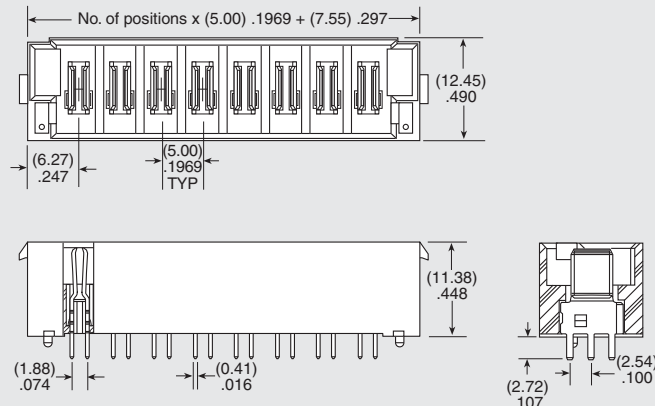


A-MPT-V/A-MPS-V	
POWER PINS	CURRENT RATING (PER CONTACT)
1	28.8 A
2	24.7 A
3	24.1 A
4	22.3 A
All	18.5 A

-T PLATING



A-MPT	POWER PINS	LEAD STYLE	TAIL LENGTH	PLATING OPTION	V
	-02, -03, -04, -06, -08	-6.30 = (6.30 mm) 0.248"	-01 = Use with (1.60 mm) .062" Thick PCB -03 = Use with (2.36 mm) .093" Thick PCB	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail -T = Matte Tin	



Note: Some sizes, styles and options are non-standard, non-returnable.

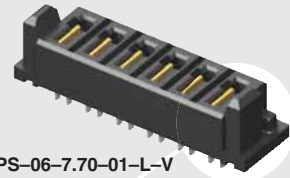
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A-MPS-02-7.70-01-L-V



A-MPS-06-7.70-01-L-V

A-MPS SERIES

(5.00 mm) .1969"

30 A DUAL LEAF SOCKET

SPECIFICATIONS

For complete specifications see www.samtec.com?A-MPS

Insulator Material:

Black LCP

Terminal Material:

Copper Alloy

Plating:

Sn or Au over

50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +105°C with Tin;

-55°C to +125°C with Gold

Voltage Rating:

600 VAC/848 VDC

RoHS Compliant:

Yes

Lead-Free Solderable:

Yes

Mates with:

A-MPT



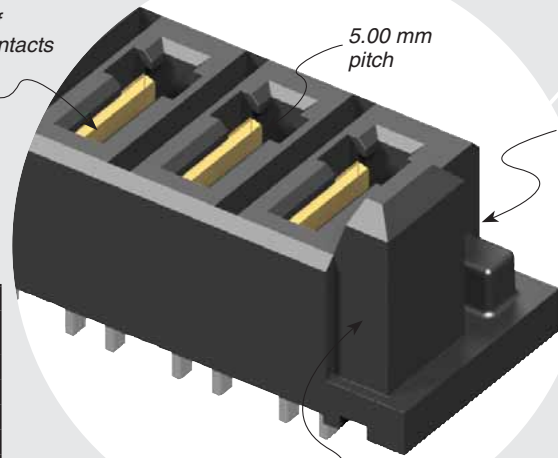
A-MPT-V/A-MPS-V	
POWER PINS	CURRENT RATING (PER CONTACT)
1	28.8 A
2	24.7 A
3	24.1 A
4	22.3 A
All	18.5 A

-T PLATING

Dual leaf blade contacts

5.00 mm pitch

14 mm stack height



Polarized guide posts

RECOGNITIONS

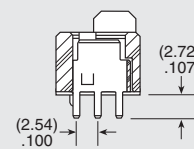
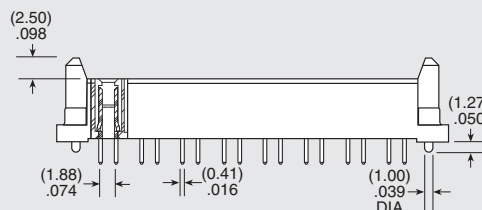
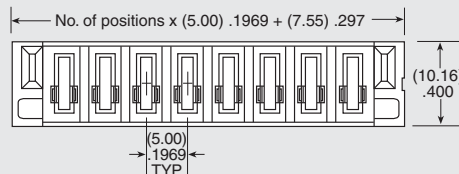
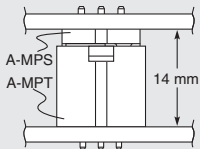
For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

A-MPS	POWER PINS	LEAD STYLE	TAIL LENGTH	PLATING OPTION	V
	-02, -03, -04, -06, -08	-7.70 = (7.70 mm) .303"	-01 = Use with (1.60 mm) .062" Thick PCB -03 = Use with (2.36 mm) .093" Thick PCB	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail -T = Matte Tin	

MATED HEIGHT

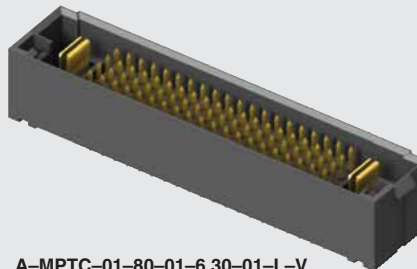


Note: Some sizes, styles and options are non-standard, non-returnable.

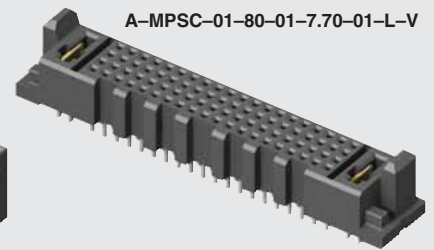
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A-MPTC-01-80-01-6.30-01-L-V



A-MPSC-01-80-01-7.70-01-L-V

(5.00 mm) .197" (PWR) (2.00 mm) .079" (SIG)

A-MPTC, A-MPSC SERIES

30 A SIGNAL/POWER COMBO SYSTEM

A-MPTC Mates with:

A-MPSC

A-MPSC Mates with:

A-MPTC

SPECIFICATIONS

For complete specifications see www.samtec.com?A-MPTC or www.samtec.com?A-MPSC

Insulator Material:

Black LCP

Terminal/Contact Material:

Signal: Phosphor Bronze

Power: Copper Alloy

Plating:

Sn or Au over

50µ" (1.27 µm) Ni

Operating Temp Range:

-55°C to +105°C with Tin

-55°C to +125°C with Gold

Voltage Rating:

300 VAC/424 VDC

RoHS Compliant:

Yes

Lead-Free Solderable:

Yes

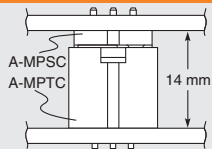
RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

MATED HEIGHT



ALSO AVAILABLE (MOQ Required)

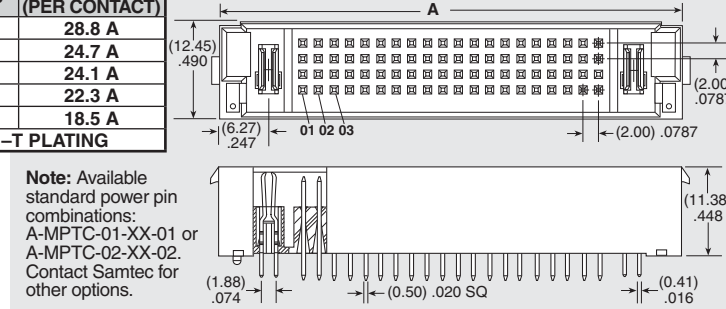
- 4, 8, 36 and 48 total signal pins

Contact autosalesgroup@samtec.com

Note: Some sizes, styles and options are non-standard, non-returnable.

A-MPTC	PWR PINS	SIG PINS	PWR PINS	LEAD STYLE	TAIL LENGTH	PLATING OPTION	V
-01, -02 = Power Pins Per End	-16 = Signal Pins -24 = Signal Pins -80 = Signal Pins	-01, -02 = Power Pins Per End	-6.30 = (6.30 mm) 0.248"	-01 = Use with (1.60 mm) .062" Thick PCB -03 = Use with (2.36 mm) .093" Thick PCB	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail (Power & Signal) -T = Matte Tin on contacts and tail (Power), Gold on contact, Matte Tin on tail (Signal)		

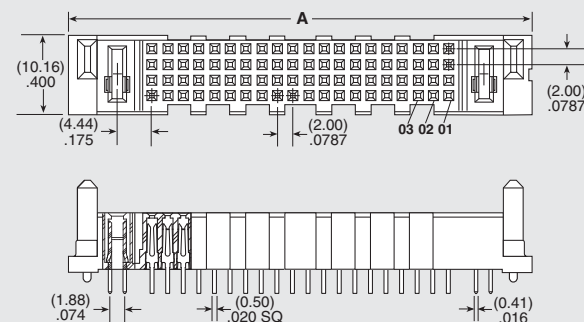
A-MPTC-V/A-MPSC-V	
POWER PINS	CURRENT RATING (PER CONTACT)
1	28.8 A
2	24.7 A
3	24.1 A
4	22.3 A
All	18.5 A



POWER PINS/END	A		
	16 SIGNAL PINS	24 SIGNAL PINS	80 SIGNAL PINS
-01	(27.44) 1.081	(31.45) 1.238	(59.44) 2.340
-02	(37.44) 1.474	(41.45) 1.632	(69.44) 2.734



A-MPSC	PWR PINS	SIG PINS	PWR PINS	LEAD STYLE	TAIL LENGTH	PLATING OPTION	V
-01, -02 = Power Pins Per End	-16 = Signal Pins -24 = Signal Pins -80 = Signal Pins	-01, -02 = Power Pins Per End	-7.70 = (7.70 mm) .303"	-01 = Use with (1.60 mm) .062" Thick PCB -03 = Use with (2.36 mm) .093" Thick PCB	-L = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail (Power & Signal) -T = Matte Tin on contacts and tail (Power), Gold on contact, Matte Tin on tail (Signal)		



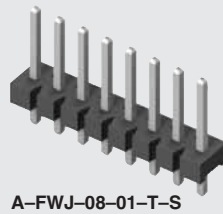
POWER PINS/END	A		
	16 SIGNAL PINS	24 SIGNAL PINS	80 SIGNAL PINS
-01	(27.44) 1.081	(31.45) 1.238	(59.44) 2.340
-02	(37.44) 1.474	(41.45) 1.632	(69.44) 2.734



Due to technical progress, all designs, specifications and components are subject to change without notice.

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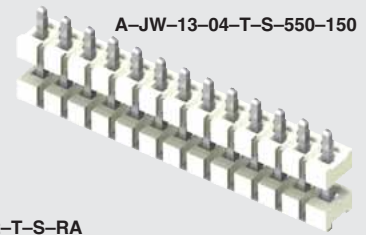
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A-FWJ-08-01-T-S



A-FWJ-05-02-T-S-RA



A-JW-13-04-T-S-550-150

(3.96 mm) .156"

A-FWJ, A-HFWJ, A-JW SERIES

POWER HEADERS & BOARD STACKERS

Mates with:
A-FHP

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-FWJ or www.samtec.com?A-HFWJ

Insulator Material:
A-FWJ = Black Glass Filled Polyester
A-HFWJ = Natural Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze

Plating:
Sn over 50µ" (1.27 µm) Ni
Operating Temp Range:
-55°C to +105°C
RoHS Compliant: Yes

Processing:
Lead-Free Solderable:
A-FWJ = Wave only
A-HFWJ = Yes
SMT Lead Coplanarity:
(0.20 mm) .008" max (02-16)
(0.25 mm) .010" max (17-24)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



TYPE STRIP	NO. OF PINS	LEAD STYLE	PLATING OPTION	S	OTHER OPTION														
A-FWJ = Standard Header	<table border="1"> <thead> <tr> <th colspan="2">A-FHP/A-HFWJ</th> </tr> <tr> <th>PINS</th> <th>CURRENT RATING (PER CONTACT)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13.1 A</td> </tr> <tr> <td>2</td> <td>11.2 A</td> </tr> <tr> <td>3</td> <td>10.3 A</td> </tr> <tr> <td>4</td> <td>9.2 A</td> </tr> <tr> <td>ALL</td> <td>6.7 A</td> </tr> </tbody> </table>	A-FHP/A-HFWJ		PINS	CURRENT RATING (PER CONTACT)	1	13.1 A	2	11.2 A	3	10.3 A	4	9.2 A	ALL	6.7 A	Specify LEAD STYLE from chart below.	-T = Matte Tin		Leave blank for Through-hole -RA = Right Angle (Style -02 & -04 only) -VS = Surface Mount Requires A-HFWJ (2 pins/row minimum) Style -05 not available. -P = Pick & Place Pad (3 Pos. min.) (6.98 mm) .275" min. post height (-VS only)
A-FHP/A-HFWJ																			
PINS	CURRENT RATING (PER CONTACT)																		
1	13.1 A																		
2	11.2 A																		
3	10.3 A																		
4	9.2 A																		
ALL	6.7 A																		
A-HFWJ = High Temp Header																			

Note: Some lengths, styles and options are non-standard, non-returnable.

LEAD STYLE	A	B	C	D	E	F
-01	(11.43) .450	(4.45)	(10.46) .412			
-02	(12.70) .500		(11.73) .462	(4.45) .175	(8.13) .320	(2.54) .100
-04	(20.55) .809	(3.96) .156	(19.10) .752	(3.96) .156	(13.56) .534	(4.95) .195
*-05	(3.81) .150	(12.07) .475				

*A-FWJ Only

Mates with:
A-FHP

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-JW

Insulator Material:
Natural Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Sn over 50µ" (1.27 µm) Ni
RoHS Compliant: Yes

Processing:
Lead-Free Solderable: Yes
SMT Lead Coplanarity:
(0.20 mm) .008" max (02-16)
(0.25 mm) .010" max (17-24)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

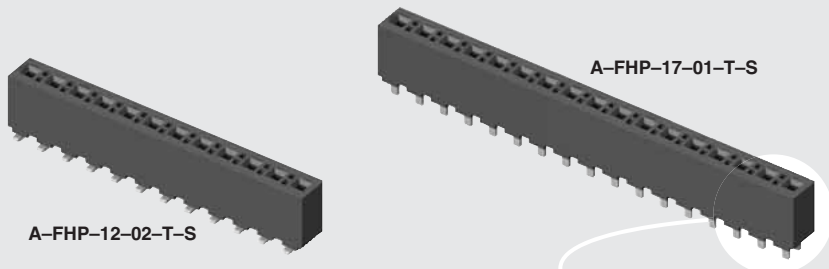


A-JW	NO. OF PINS	04	PLATING OPTION	S	STACK HEIGHT	POST HEIGHT	OTHER OPTION
			-T = Matte Tin		"XXX" = Stacker Height (in inches) (0.13 mm) .005" increments Example: -250 = (6.35 mm) .250"	"XXX" = Post Height (in inches)	Leave blank for Through-hole -VS = Surface Mount (2 pins/row minimum) -P = Pick & Place Pad (3 Pos. min.) (6.98 mm) .275" min. post height (-VS only)

Note: This Series is non-standard, non-returnable.

02 thru 24

Due to technical progress, all designs, specifications and components are subject to change without notice.



A-FHP SERIES

(3.96 mm) .156"

POWER SOCKETS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?A-FHP

Insulator Material: Black LCP

Contact Material: BeCu

Plating: Sn over 50µ" (1.27 µm) Ni

Operating Temp Range: -55°C to +105°C

Insertion Depth: (3.57 mm) .140" to (8.76 mm) .345" or pass-through from top

Wiping Distance: (0.38 mm) .015"

Insertion Force: (Single contact only)

56 oz (15.57 N) avg.

Withdrawal Force: (Single contact only)

52 oz (14.46 N) avg.

RoHS Compliant: Yes

Processing: Lead-Free Solderable:

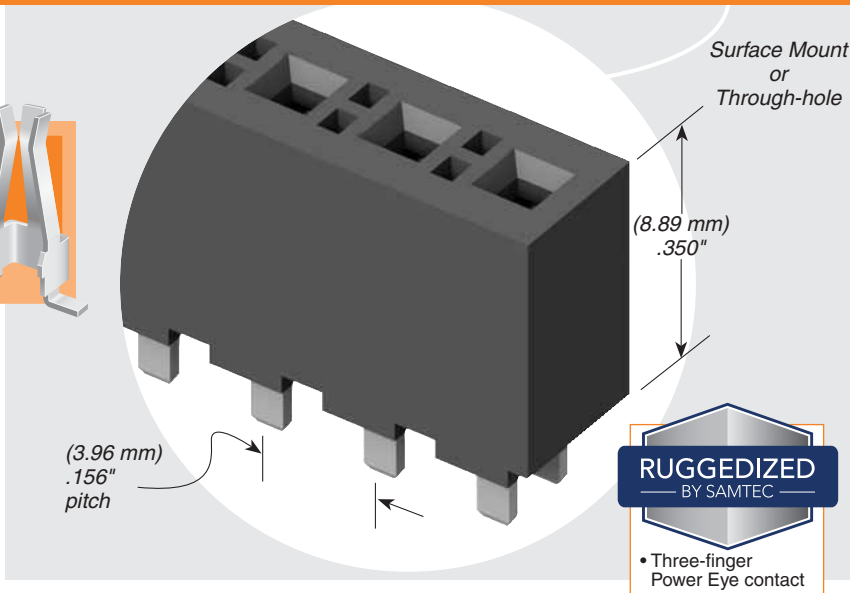
Yes

SMT Lead Coplanarity: (0.10 mm) .004" max

Mates with:
A-FWJ, A-HFWJ,
A-JW



A-FHP/A-HFWJ	
PINS	CURRENT RATING (PER CONTACT)
1	13.1 A
2	11.2 A
3	10.3 A
4	9.2 A
ALL	6.7 A



RECOGNITIONS

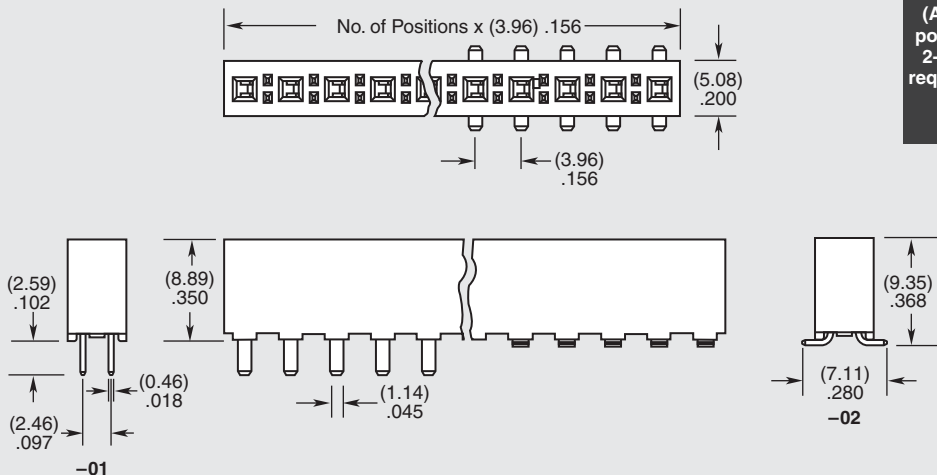
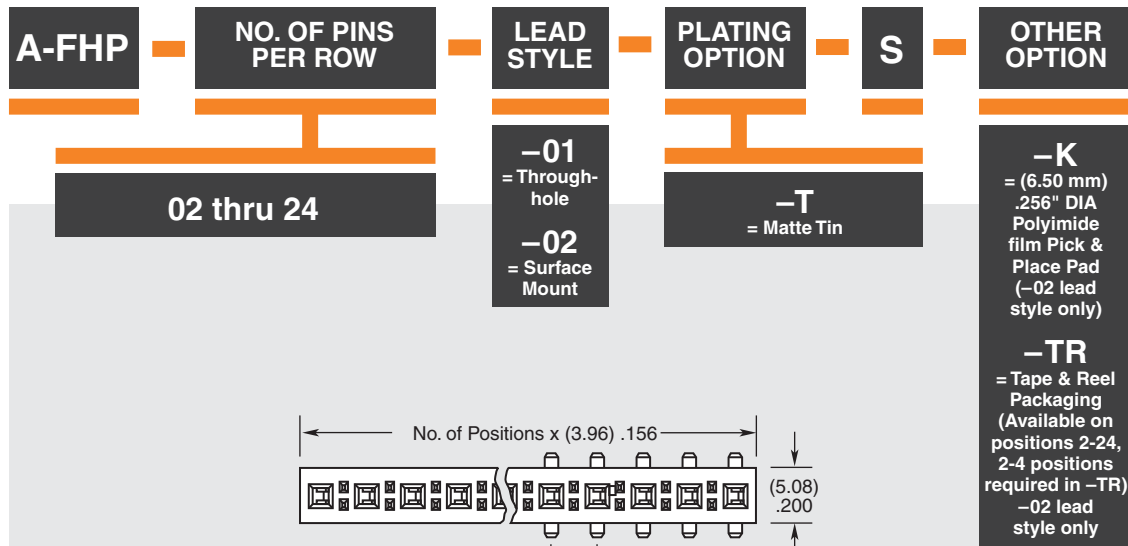
For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Alignment pins

Contact autosalesgroup@samtec.com

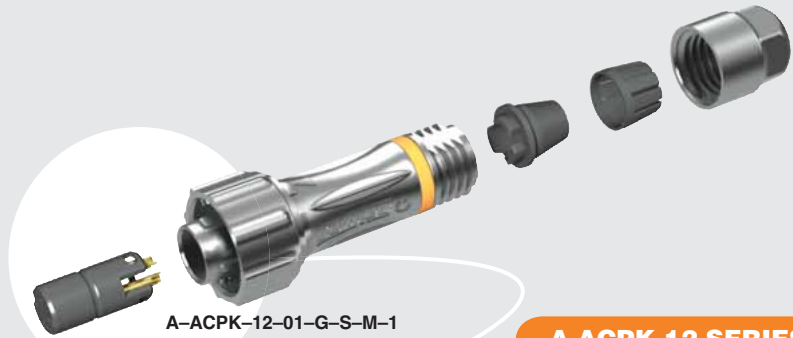


Note: Some lengths, styles and options are non-standard, non-returnable.

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A-ACPK-12 SERIES

12 mm IP68 FIELD TERMINATION KIT

SPECIFICATIONS

For complete specifications and processing guidelines see www.samtec.com?A-ACPK-12

Insulator Material: Thermoplastic

Terminal Material: Brass

Contact Material: Brass/BeCu

Plating: Au over

50µ" (1.27 µm) Ni

Operating Temp Range: -40°C to +80°C

Housing: -P: Black Nylon

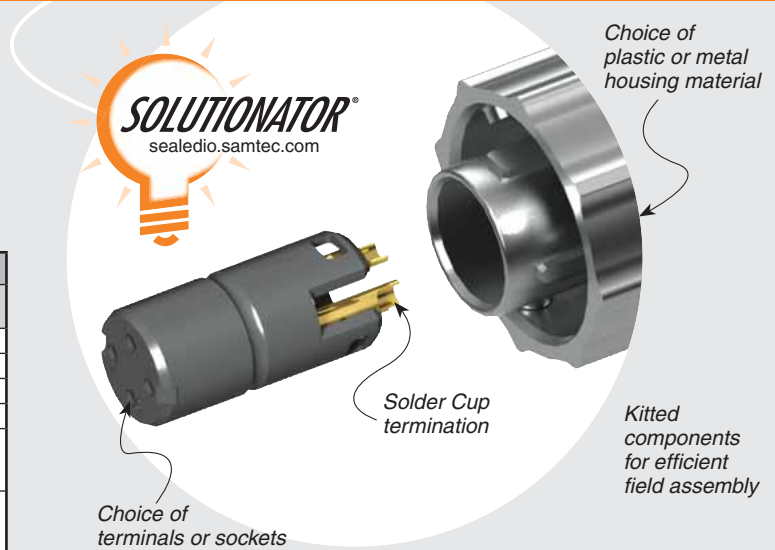
-M: Zinc Alloy

RoHS Compliant: Yes



CURRENT RATING		
LEAD STYLE	PINS POWERED	CCC per PIN
-01	4	3.8 A
-02	5	3.6 A
-03	6	1.9 A
-04	8	1.8 A
-05	2 (plus 4 signal pins powered @ 1.2 A)	5.0 A

For general reference only. See www.samtec.com?A-ACPK-12 for complete test data or contact AccliMate@samtec.com for applications requiring higher current carrying capacity.



DUST CAPS

- DCA-ACP-12-M-X (Metal)
- DCA-ACP-12-P-X (Plastic)



- Visit sealedio.samtec.com for a complete list of sealed systems

NOTE

For complete specifications and processing guidelines see www.samtec.com?A-ACPK-12

Note: Some lengths, styles and options are non-standard, non-returnable.

A-ACPK	12	LEAD STYLE	PLATING	GENDER	HOUSING MATERIAL	KEYING OPTIONS
		<p>-01 = 1.0 mm DIA (4) terminals or sockets (20-24 AWG)</p> <p>-02 = 1.0 mm DIA (5) terminals or sockets (20-24 AWG)</p> <p>-03 = 0.5 mm DIA (6) terminals or sockets (26-30 AWG)</p> <p>-04 = 0.5 mm DIA (8) terminals or sockets (26-30 AWG)</p> <p>-05 = 1.0 mm DIA (2) terminals or sockets (20-24 AWG) + 0.5 mm DIA (4) terminals or sockets (26-30 AWG)</p>	<p>-G = 10µ" (0.25 µm) Gold over 50µ" (1.27 µm) Ni on contact</p>	<p>-T = Terminal</p> <p>-S = Socket</p>	<p>-P = Plastic</p> <p>-M = Metal</p>	<p>-1 = Orange, 45°</p> <p>-2 = Green, 135°</p> <p>-3 = Blue, 225°</p> <p>-4 = Yellow, 315°</p>
				<p>-T-P SHOWN</p>		

Due to technical progress, all designs, specifications and components are subject to change without notice.

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A-ACPK-16-03-G-T-M-1



A-ACPK-16-01-G-S-P-4

A-ACPK-16 SERIES

16 mm IP68 FIELD TERMINATION KIT

SPECIFICATIONS

For complete specifications and processing guidelines see www.samtec.com?A-ACPK-16

Insulator Material:

Thermoplastic

Terminal Material:

Brass

Contact Material:

Brass/BeCu

Operating Temp Range:

-40°C to +105°C

Housing:

-P: Thermoplastic

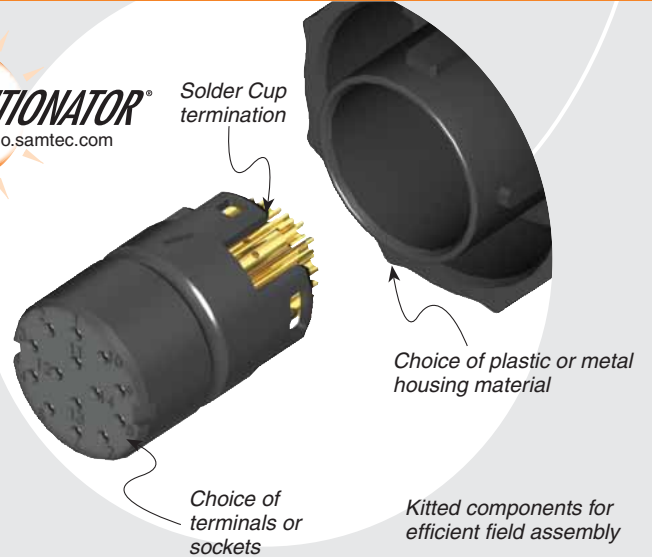
-M: Zinc Alloy

RoHS Compliant:

Yes



Solder Cup termination



Choice of plastic or metal housing material

Choice of terminals or sockets

Kitted components for efficient field assembly

DUST CAPS

- DCA-ACP-16-M-X (Metal)
- DCA-ACP-16-P-X (Plastic)



• Visit sealedio.samtec.com for a complete list of sealed systems

CURRENT RATING		
LEAD STYLE	PINS POWERED	CCC per PIN
-01	14	1.3 A
-02	10	2.6 A
-03	4	10.1 A
-06	2 (plus 8 signal pins powered @ 1A)	11.6 A

For general reference only. See www.samtec.com?A-ACPK-16 for complete test data or contact AccliMate@samtec.com for applications requiring higher current carrying capacity.

NOTE

For complete specifications and processing guidelines see www.samtec.com?A-ACPK-16

A-ACPK	16	LEAD STYLE	PLATING	GENDER	HOUSING MATERIAL	KEYING OPTIONS
		<p>-01 = 0.5 mm DIA (14) (26-30 AWG)</p> <p>-02 = 1.0 mm DIA (10) (20-24 AWG)</p> <p>-03 = 1.5 mm DIA (4) (14-18 AWG)</p> <p>-06 = 1.5 mm DIA (2) (14-18 AWG) + 0.5 mm DIA (8) (26-30 AWG)</p>	<p>-G = 10µ" (0.25 µm) Gold over 50µ" (1.27 µm) Ni on contact</p>	<p>-T = Terminal</p> <p>-S = Socket</p>	<p>-P = Plastic</p> <p>-M = Metal</p>	<p>-1 = Orange, 45°</p> <p>-2 = Green, 135°</p> <p>-3 = Blue, 225°</p> <p>-4 = Yellow, 315°</p>

Note: Some lengths, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

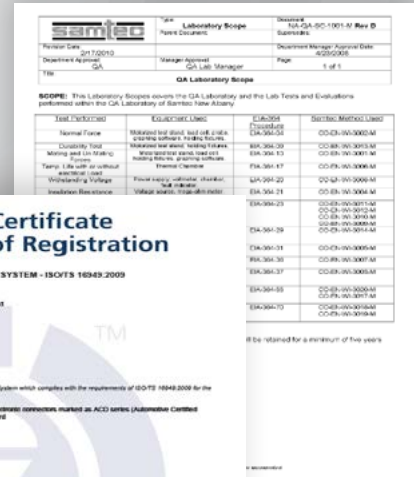
Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.

PPAP

PRODUCTION PART APPROVAL PROCESS

Samtec uses proven process that meet our TS 16949 certification. Samtec designates these products with an ACD (A-) Series part number. For each ACD Series product, a customer will receive a Level 3 Product Part Approval Process (PPAP) package. Contents shown below are the supporting documents required to meet level 3 PPAP.

1. INDEX PAGE
2. SERIES DESIGN RECORD - SAMTEC RELEASED PRINT
3. CHANGE HISTORY
4. SERIES DESIGN FMEA
5. PROCESS FLOW DIAGRAM
6. PROCESS FMEA
7. CONTROL PLAN - PRE-LAUNCH
8. CONTROL PLAN - SERIAL PRODUCTION
9. MEASUREMENT SYSTEM STUDIES (GAGE R&R)
 - a. Total Gage R&R < 10% is acceptable
 - b. Total Gage R&R >10% , <30% is acceptable for non-critical characteristics
10. ASSEMBLY DIMENSIONAL RESULTS (100% FAI & BALLOONED PRINT)
 - a. Tabular Summary Format (according to AIAG manual)
 - 100% layout for 5 parts for each cavity (1 cavity)
 - 100% layout for 3 parts for each cavity (2 cavities)
 - 100% layout for 2 parts for each cavity (3 or 4 cavities)
 - 100% layout for 1 part for each cavity (6 or more cavities)
 - b. Drawing numbered to correlate with submitted dimensional results and drawing notes
11. INITIAL PROCESS STUDY (SPC)
 - Cpk > 1.67 or 100% in process inspection
12. COMPONENT PPAP
13. MATERIAL CERTIFICATION
14. QUALIFIED LABORATORY DOCUMENTATION
15. CAPACITY & RUN AT RATE DATA FORM - DATA FROM PRODUCTION TRIAL RUN
 - Data must come from a minimum run of 300 parts
16. RUN @ RATE CHECKLIST
17. EVIDENCE OF IMDS SUBMISSION
 - Proof of submission into the International Material Data System
18. PART SUBMISSION WARRANT (PSW)
19. FACILITY TS CERTIFICATION



ORANGE- SUBMITTED

BLACK - RETAINED

EXTENDED LIFE PRODUCT™

Samtec's certified Extended Life Product™ are tested to rigorous standards to evaluate contact resistance in simulated storage and field conditions.

- 10 year Mixed Flowing Gas (MFG)
- High Mating Cycles (250 to 2,500)
- Certain plating and/or contact options will apply

For complete details on Samtec's E.L.P.™ program and test results for E.L.P.™ products, please visit www.samtec.com/ELP or email the Customer Engineering Support Group at CES@samtec.com.

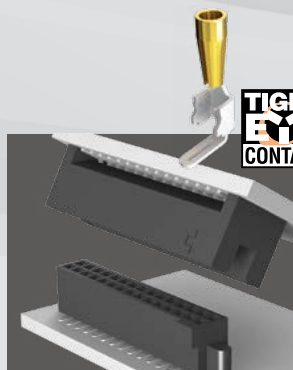
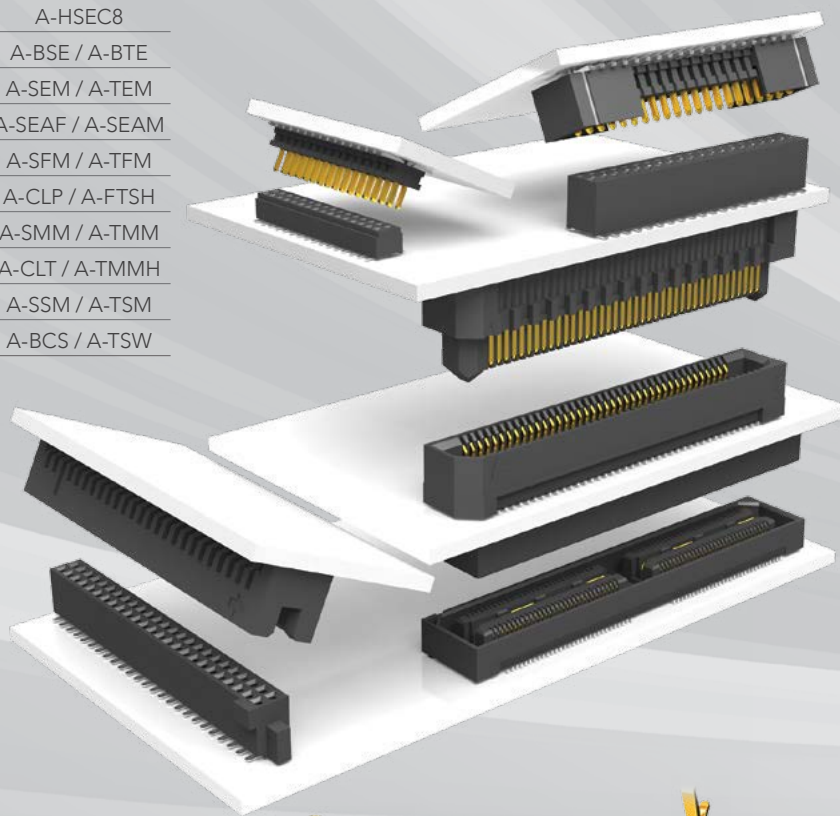
E.L.P.™

EXTENDED LIFE PRODUCT

10 year Mixed Flowing Gas (MFG)
High Mating Cycles

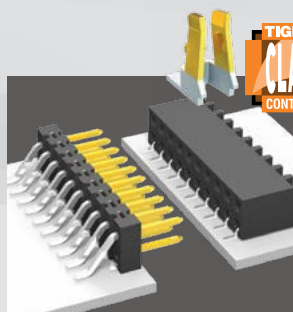
Pitch	Type	Contact	Series*
0.80 mm	Edge Rate® Strip	Edge Rate®	A-ERF8 / A-ERM8
	Edge Card	Edge Rate®	A-HSEC8
	Basic Strip	Blade & Beam	A-BSE / A-BTE
	Strip	Tiger Eye™	A-SEM / A-TEM
1.27 mm	SEARAY™ Array	Edge Rate®	A-SEAF / A-SEAM
	Strip	Tiger Eye™	A-SFM / A-TFM
	Strip	Tiger Claw™	A-CLP / A-FTSH
2.00 mm	Strip	Tiger Eye™	A-SMM / A-TMM
	Strip	Tiger Claw™	A-CLT / A-TMMH
2.54 mm	Strip	Tiger Claw™	A-SSM / A-TSM
	Strip	Tiger Claw™	A-BCS / A-TSW

* Tested socket/terminal combination shown. Other mating headers also available. Contact Samtec if header design you need is not shown.



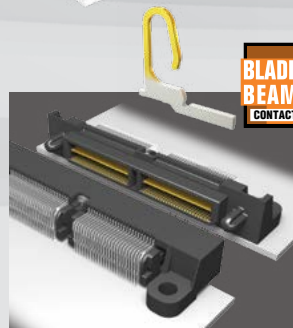
TIGER EYE™
CONTACT

TIGER EYE™
High Reliability
High Mating Cycles
Multi-finger Contact



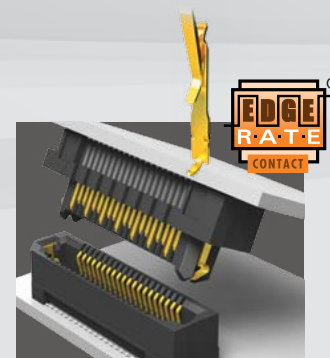
TIGER CLAW™
CONTACT

TIGER CLAW™
Dual Wipe Contact
Pass-through Applications
Ultra Low Profile



BLADE & BEAM
CONTACT

BLADE & BEAM
Mating / Alignment "Friendly"
Cost Effective
Special Plating Required



EDGE RATE®
CONTACT

EDGE RATE®
Designed for Signal Integrity
Superior Impedance Control
Reduced Broadside Coupling

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The information contained in this catalog is accurate to the best of our knowledge. Due to technical progress, it is subject to change without notice. Application information is informational in nature and shall not be construed to warrant suitability of products for any particular purpose as performance may vary with the conditions encountered. Any cut strip or custom made items or options are considered "special," non-returnable items. Samtec products are warranted for 30 days and the warranty is limited strictly to replacement of products with defective workmanship.

Federal Supply Code: 55322

samtec

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