REVISION V

**DESIGNED AND DIMENSIONED IN MILLIMETERS[INCHES]**
**ALL DIMENSIONS REFERENCE EXCEPT AS SHOWN**

DO NOT SCALE FROM THIS PRINT

# APF6-XXX-XX.X-XXX-XX-X-XX-XR

No OF POSITIONS
**-010, -020, △-025, **-030, △-037, -040, *-050,-060, **-070, **-080, **-090, -100 (PER ROW)

LEAD STYLE
-03.5: 3.5MM

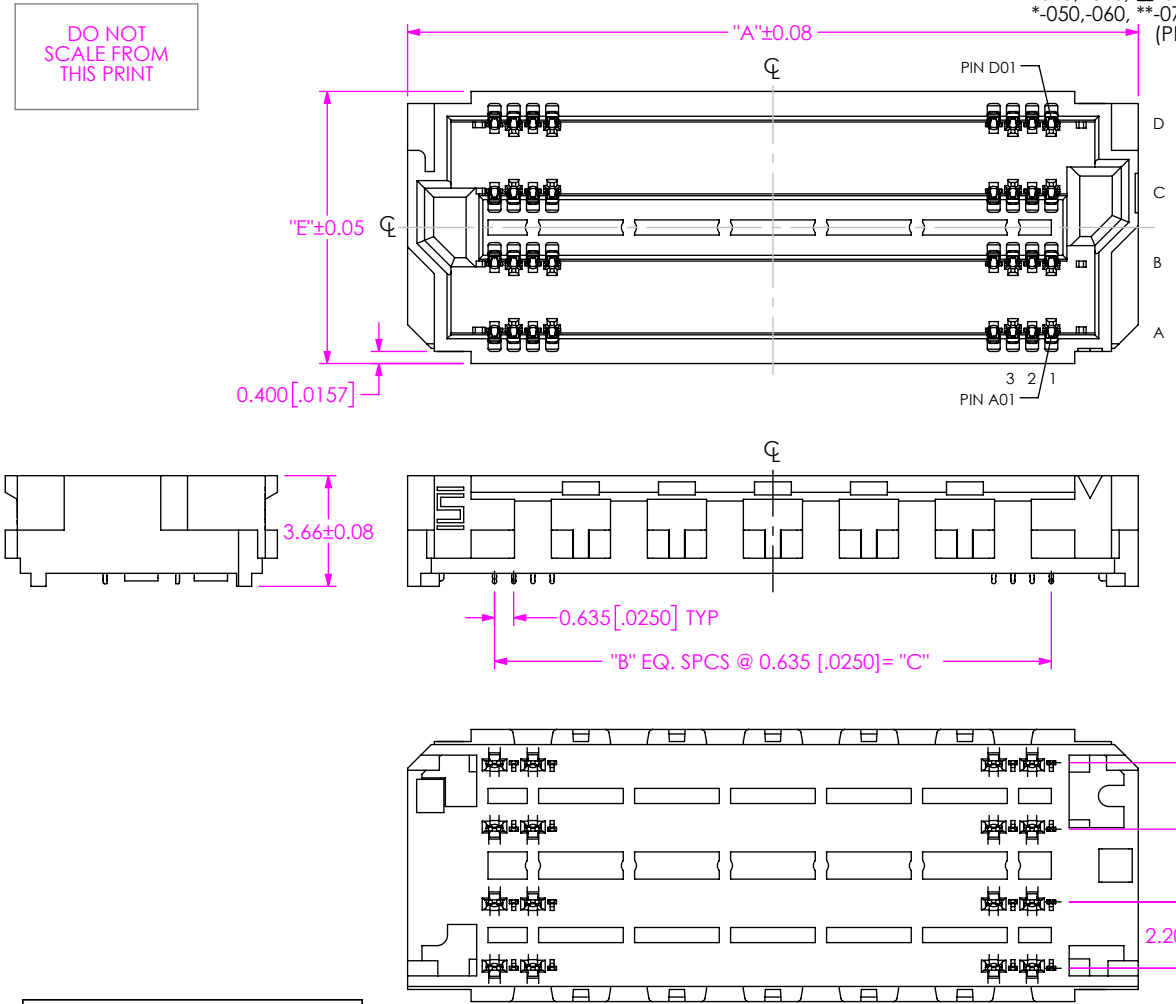
PLATING SPECIFICATION
-L: 10µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-STL: 30µ" SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD ON TAIL.

ROW
-04: 4 ROW
-06: 6 ROW (NOT AVAILABLE WITH -A OR BLANK OPTIONS)
⊠-08: 8 ROW

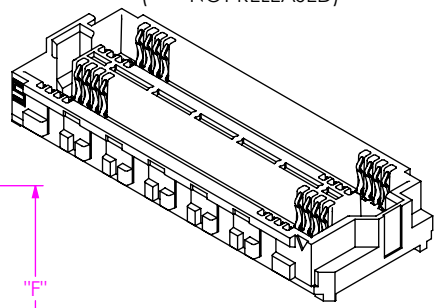
TAPE & REEL (SEE NOTE 7)
-TR: TAPE & REEL
-FR: FULL QTY TAPE AND REEL

OPTION
BLANK: NO ALIGNMENT PIN
-A: ALIGNMENT PIN (SEE SHT 4, FIG 4)
-L: SQUEEZE LATCH (SEE SHT 6, FIG 7, NOT AVAILABLE WITH -A OPTION, ONLY AVAILABLE IN -025 & -037 POS WITH -04, -06 & -08 ROW)
-T: TH LOCKING TOOL (SEE SHT 6, FIG 8, NOT AVAILABLE WITH -A OPTION, ONLY AVAILABLE IN -025 & -037 POS WITH -04, -06 & -08 ROW)
-S: SM LOCKING TOOL (SEE SHT 7, FIG 9, NOT AVAILABLE WITH -A OPTION, ONLY AVAILABLE IN -025 & -037 POS WITH -06 & -08 ROW)

TERMINATION
-0: COLUMN (SEE NOTE 8)
-2: BALL (95.5% TIN/3.8% SILVER/0.7% COPPER) (FOR EXISTING CUSTOMERS ONLY)




(PACKAGING: TAPE & REEL, SEE NOTE 1)
( ⊠ = ONLY AVAILABLE IN -025, -037 & -100 POSITIONS. ONLY AVAILABLE WITH -0 TERMINATION)
(△= ONLY AVAILABLE IN -L, -T & -S OPTION)
(** = NOT RELEASED)



| TABLE 2 | | | |
|---|---|---|---|
| No OF POS PER ROW | "A" | "B" | "C" |
| -010 | 11.47 [0.451] | 9 | 5.72 [0.225] |
| -020 | 17.82 [0.701] | 19 | 12.07 [0.475] |
| -030 | 24.17 [0.951] | 29 | 18.42 [0.725] |
| -040 | 30.52 [1.201] | 39 | 24.77 [0.975] |
| -050 | 36.87 [1.451] | 49 | 31.12 [1.225] |
| -060 | 43.22 [1.701] | 59 | 37.47 [1.475] |
| -070 | 49.57 [1.951] | 69 | 43.82 [1.725] |
| -080 | 55.92 [2.201] | 79 | 50.17 [1.975] |
| -090 | 62.27 [2.451] | 89 | 56.52 [2.225] |
| -100 | 68.62 [2.701] | 99 | 62.87 [2.475] |

| TABLE 4 | | |
|---|---|---|
| No. OF ROWS | "E" | "F" |
| -04 | 9.00 [0.354] | 6.80 [0.268] |
| -06 | 13.60 [0.535] | 11.40 [0.449] |
| -08 | 18.20 [0.717] | 16.00 [0.630] |

| TABLE 1 | | |
|---|---|---|
| STACK HEIGHT | | |
| APF6 LEAD STYLE | APM6 LEAD STYLE | |
| | -01.5 | -06.5 |
| -03.5 | 5.00 [0.197] | 10.00 [0.394] |

FIG 1
APF6-030-03.5-XXX-04-0-XR SHOWN
(SOME CENTER FEATURES REMOVED FOR CLARITY)

NOTES:

1. TAPE & REEL IS STANDARD PACKAGING.
2. NOTE DELETED.
3. NOTE DELETED.
4. K-DOT PROVIDED AS STANDARD.
5. MEASURE BOTH OUTSIDE ROWS ONLY.
6. SEE SHEET 3 FOR PROCESSING INFORMATION.
7. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
8. PARTS ARE SOLDERED WITH OPTIMIZED SOLDER PASTE VOLUME IN PLACE OF AN ATTACHED SOLDER BALL. FOR MORE INFORMATION, CONTACT SAMTEC's INTERCONNECT PROCESSING GROUP (IPG@SAMTEC.COM)

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e-Mail info@SAMTEC.com code 55322


DO NOT SCALE DRAWING
MATERIAL: SHEET SCALE: 4:1
INSULATOR: LCP, UL 94 V-0; COLOR: BLACK
CONTACT: COPPER ALLOY

DESCRIPTION:
APF6 0.635MM SOCKET ARRAY ASSEMBLY

DWG. NO.
APF6-XXX-XX.X-XXX-XX-X-XX-XR

BY: B BLESSING 5/26/2018 SHEET 1 OF 7

REVISION V

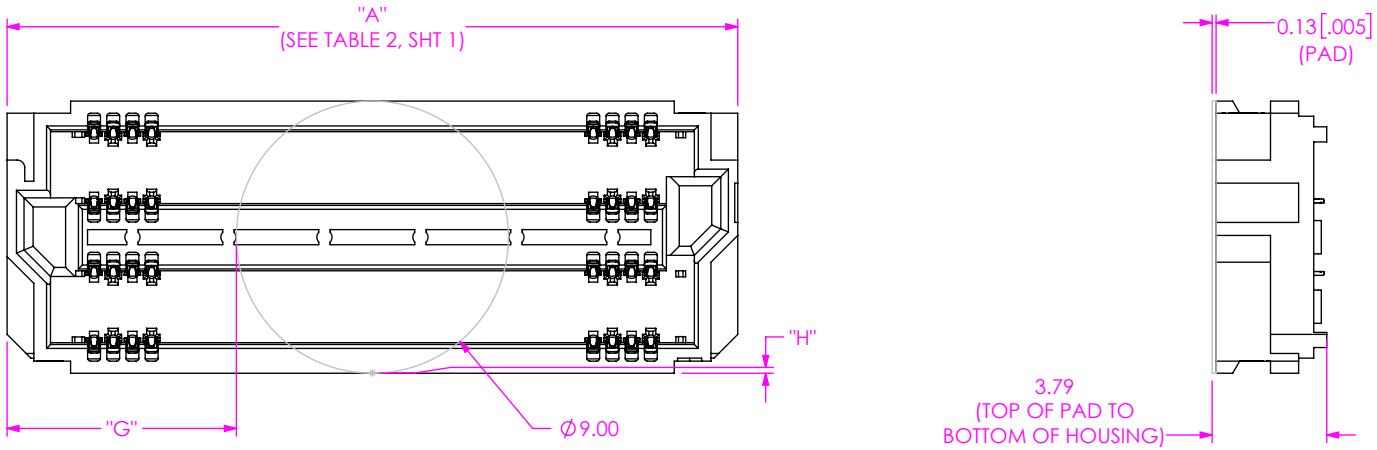


FIG 2
POLYIMIDE PAD
APF6-030-03.5-XXX-04-0-XR SHOWN
(SOME CENTER FEATURES REMOVED FOR CLARITY)

**TABLE 5**

| -No. OF ROWS | "G" -010 | -020 | -025 | -030 | -037 | -040 | -050 | -060 | -070 | -080 | -090 | -100 | "H" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -04 | 1.23 [0.049] | 4.41 [0.174] | 6.70 [0.264] | 7.58 [0.299] | 10.51 [0.414] | 10.76 [0.424] | 13.93 [0.549] | 17.11 [0.674] | 20.28 [0.799] | 23.46 [0.924] | 26.63 [1.049] | 29.81 [1.174] | 0.00 [0.000] |
| -06 | | | | | | | | | | | | | 2.30 [0.091] |
| -08 | | | | | | | | | | | | | 4.60 [0.181] |


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DO NOT SCALE DRAWING

SHEET SCALE: 4:1

DESCRIPTION:
APF6 0.635MM SOCKET ARRAY ASSEMBLY

DWG. NO.
APF6-XXX-XX.X-XXX-XX-X-XX-XR

BY: B BLESSING 5/26/2018 SHEET 2 OF 7

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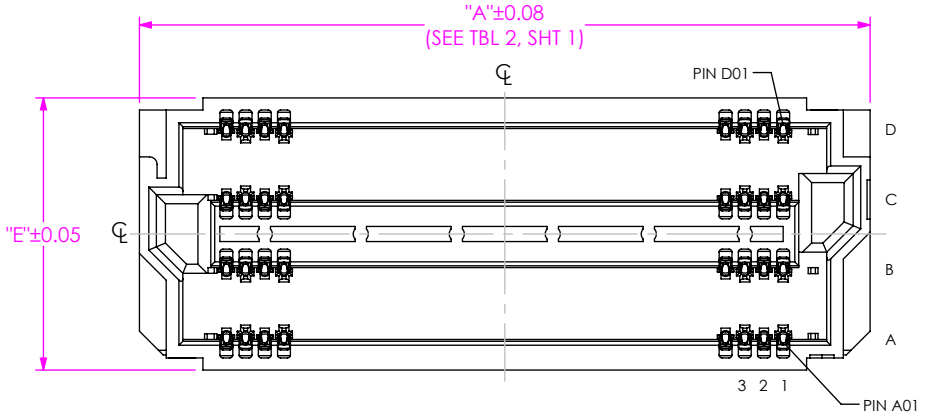
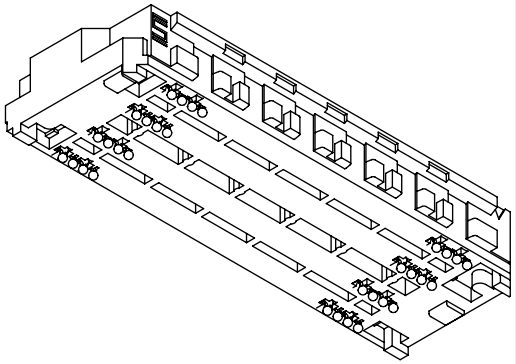
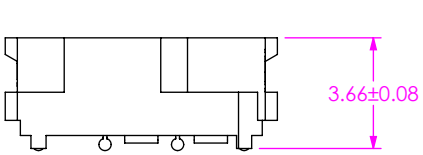
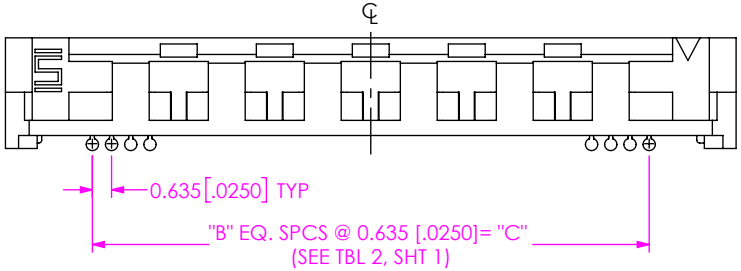
REVISION V





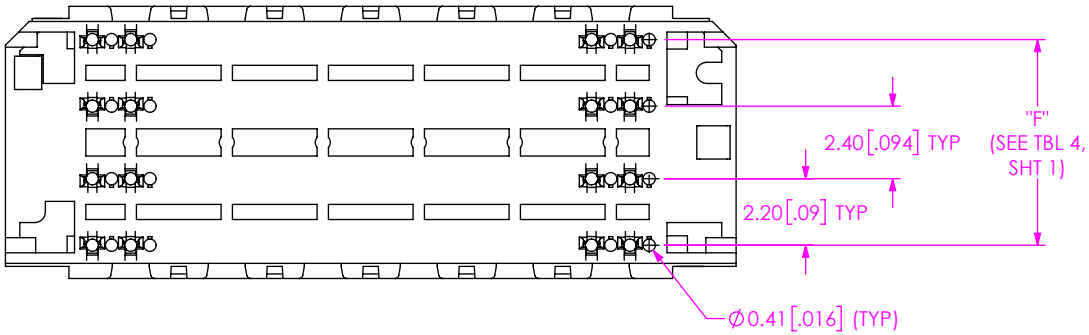




FIG 3
APF6-030-03.5-XXX-04-2-XR SHOWN
(SOLDER BALL OPTION)
(SOME CENTER FEATURES REMOVED FOR CLARITY)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DO NOT SCALE DRAWING

SHEET SCALE: 4:1

DESCRIPTION:
APF6 0.635MM SOCKET ARRAY ASSEMBLY

DWG. NO.
APF6-XXX-XX.X-XXX-XX-X-XX-XR

BY: B BLESSING 5/26/2018 SHEET 3 OF 7

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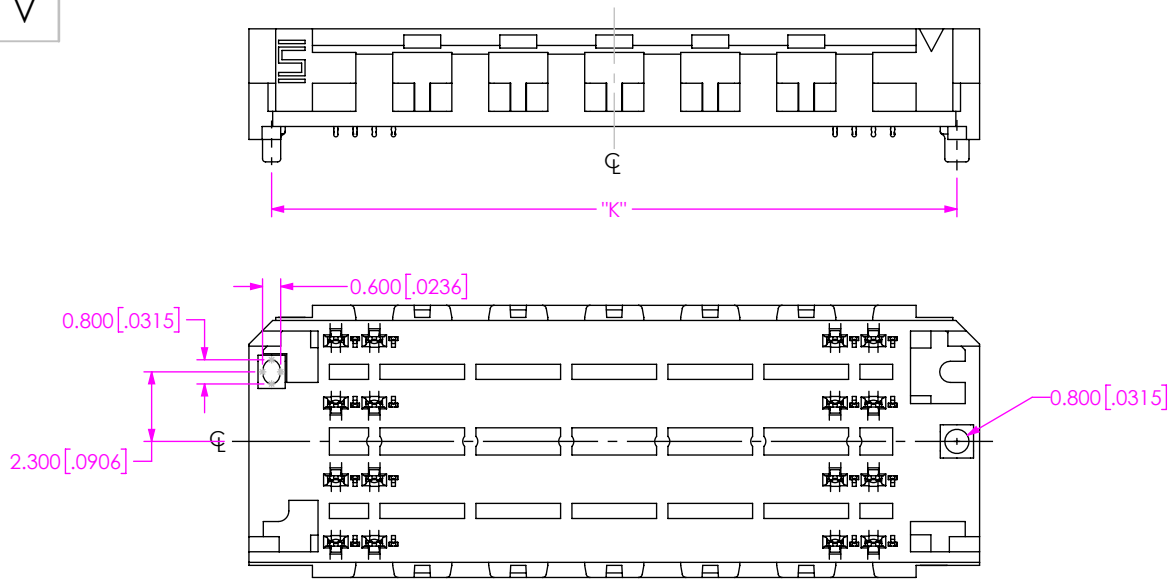


FIG 4
-A: ALIGNMENT PIN
APF6-030-03.5-XXX-04-0-A-XR SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

| TABLE 7 | |
|---|---|
| No OF POS PER ROW | "K" |
| -010 | 9.97 [0.392] |
| -020 | 16.32 [0.642] |
| -030 | 22.67 [0.892] |
| -040 | 29.02 [1.142] |
| -050 | 35.37 [1.392] |
| -060 | 41.72 [1.642] |
| -070 | 48.07 [1.892] |
| -080 | 54.42 [2.142] |
| -090 | 60.77 [2.392] |
| -100 | 67.12 [2.642] |

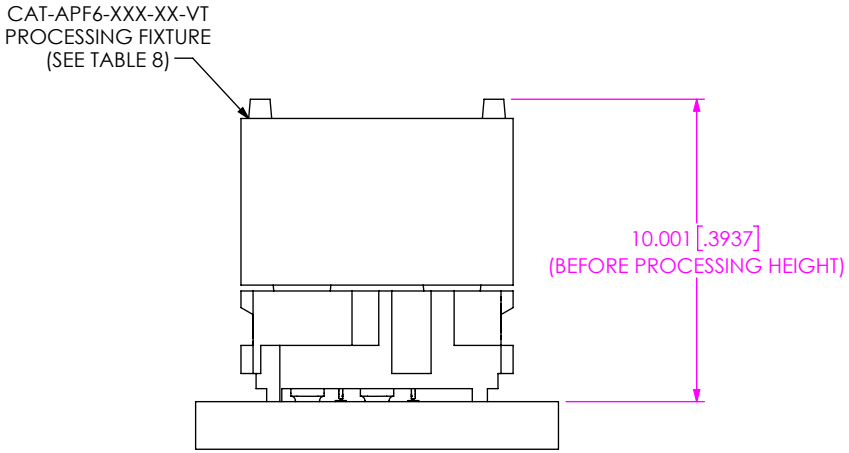


FIG 5
APF6-100-03.5-XXX-XX-0-XR PROCESSING VIEW
(CAT-APF6-XXX-XX-VT)

| TABLE 8 | | |
|---|---|---|
| APF6 FIXTURE TOOLS | | |
| PART NUMBER | POSITIONS | ROW |
| CAT-APF6-100-04-VT | -100 | -04 |
| CAT-APF6-100-08-VT | -100 | -08 |

NOTE:
FIG 4 DIMENSION 10.001(TOP OF PCB TO TOP OF PROCESSING FIXTURE) INDICATES CONNECTOR/FIXTURE HEIGHT ON PCB TO GUARANTEE ENOUGH REFLOW OVEN WORKING SPACE, DIMENSION 10.001, PCB THINKNESS AND THE HEIGHT OF THE COMPONENTS ON THE OTHER SIDE OF THE BOARD NEED TO BE CONSIDERED.


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DO NOT SCALE DRAWING

SHEET SCALE: 4:1

DESCRIPTION:
APF6 0.635MM SOCKET ARRAY ASSEMBLY

DWG. NO.
APF6-XXX-XX.X-XXX-XX-X-XX-XR

BY: B BLESSING 5/26/2018 SHEET 4 OF 7

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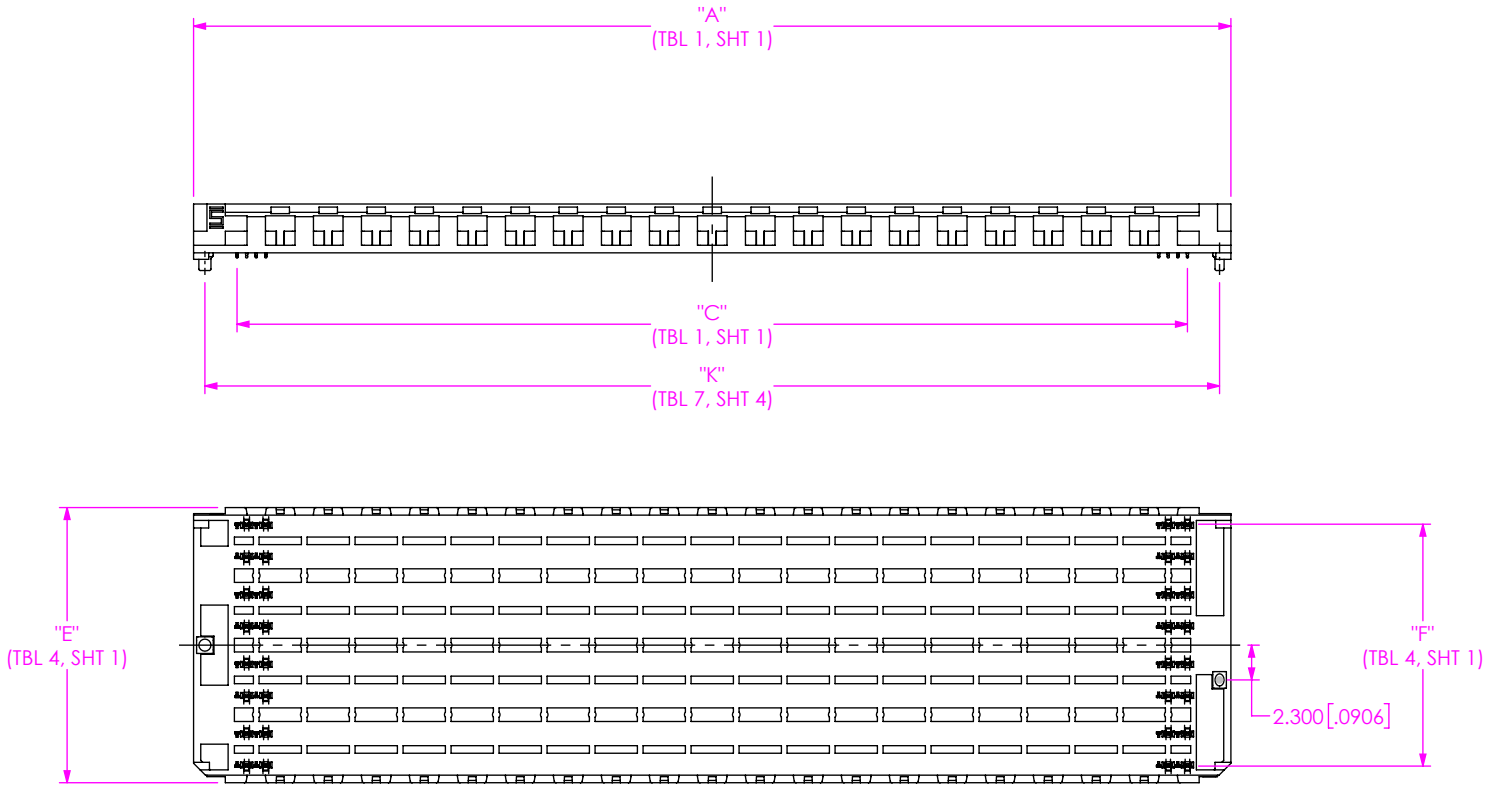


FIG 6
APF6-100-03.5-S-08-0-A-XR
(SAME AS FIG 1 EXCEPT AS SHOWN)


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SHEET SCALE: 4:1


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DESCRIPTION:
APF6 0.635MM SOCKET ARRAY ASSEMBLY

DWG. NO.
APF6-XXX-XX.X-XXX-XX-X-XX-XR

BY: B BLESSING 5/26/2018 SHEET 5 OF 7

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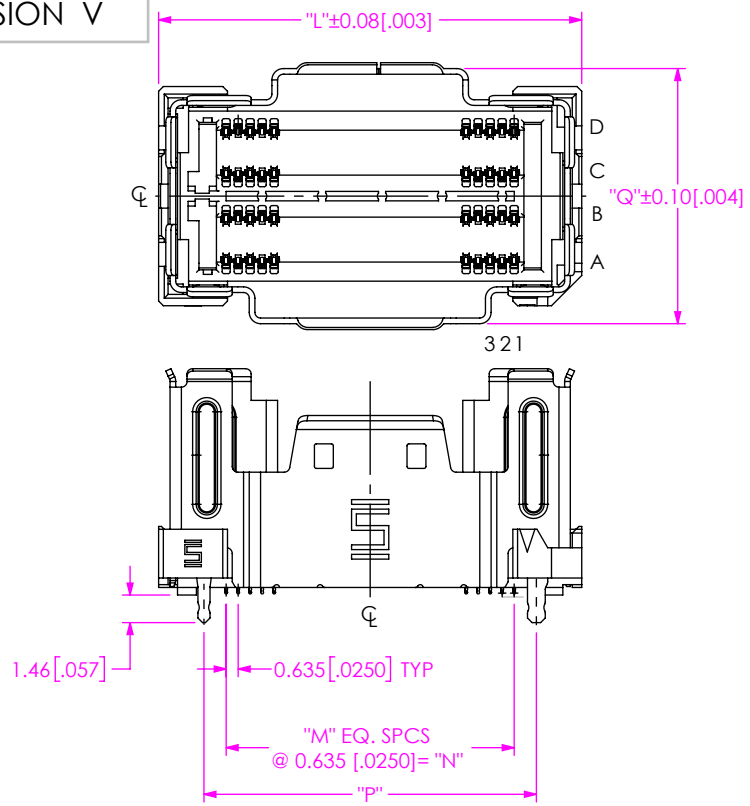


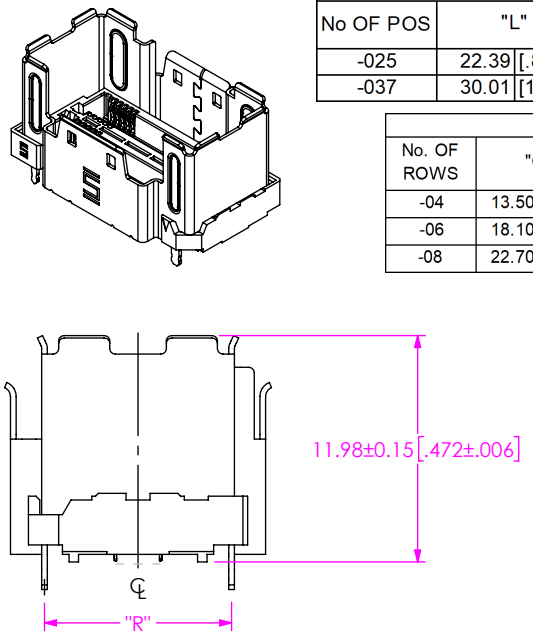


| TABLE 9 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No OF POS | "L" | | "M" | "N" | | "P" | | "U" | |
| -025 | 22.39 | [.881] | 24 | 15.24 | [.600] | 17.59 | [.693] | 21.18 | [.834] |
| -037 | 30.01 | [1.181] | 36 | 22.86 | [.900] | 25.21 | [.993] | 28.80 | [1.134] |

| TABLE 10 | | | |
|---|---|---|---|
| No. OF ROWS | "Q" | "R" | "S" |
| -04 | 13.50 [.531] | 9.90 [.390] | 11.60 [.457] |
| -06 | 18.10 [.713] | 14.50 [.571] | 16.20 [.638] |
| -08 | 22.70 [.894] | 19.10 [.752] | 20.80 [.819] |

FIG 7
-L: SQUEEZE LATCH
APF6-025-03.5-XXX-04-0-L-XR SHOWN
(SAME AS FIG 1, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

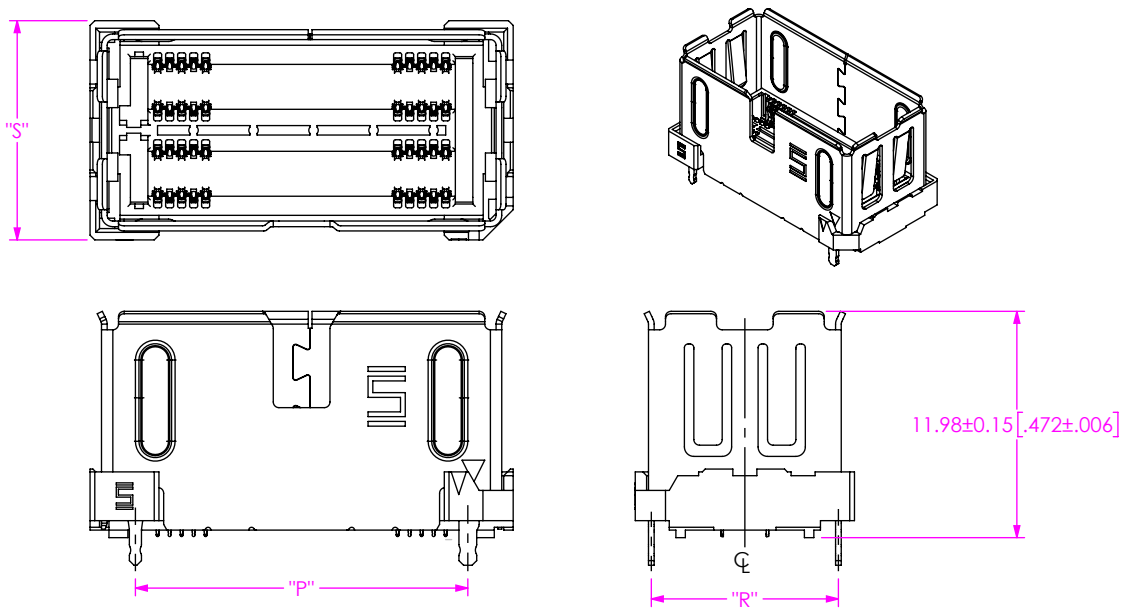


FIG 8
-T: LOCKING TOOL
APF6-025-03.5-XXX-04-0-T-XR SHOWN
(SAME AS FIG 1 & FIG 7, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)


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SHEET SCALE: 5:2

DESCRIPTION: APF6 0.635MM SOCKET ARRAY ASSEMBLY

DWG. NO. APF6-XXX-XX.X-XXX-XX-X-XX-XR

BY: B BLESSING 5/26/2018 SHEET 6 OF 7

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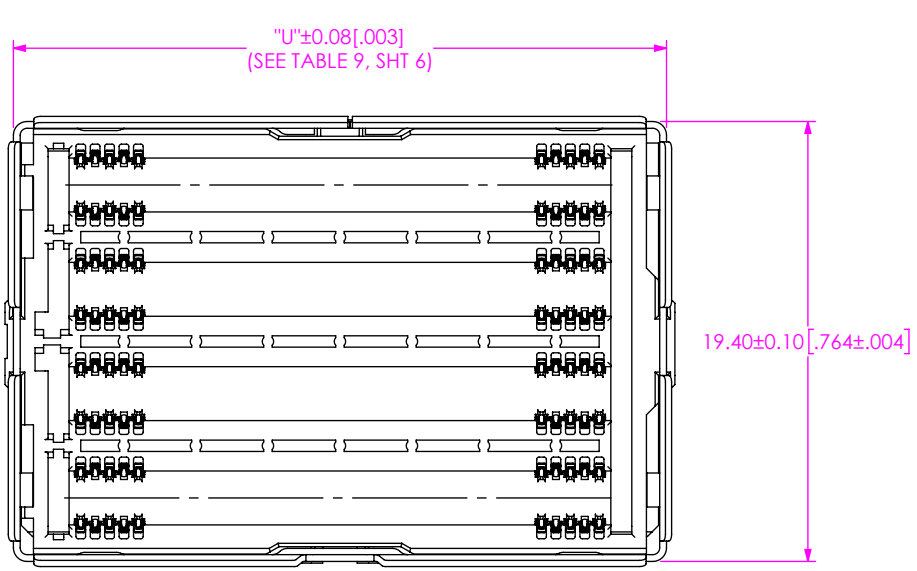


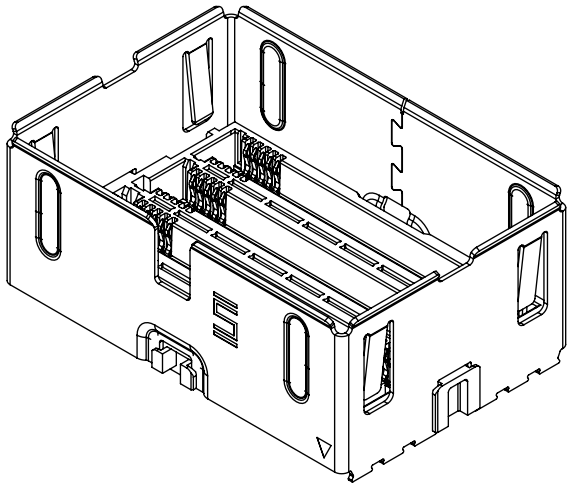

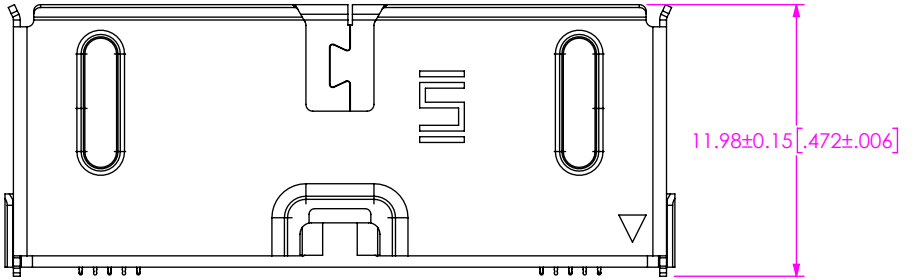


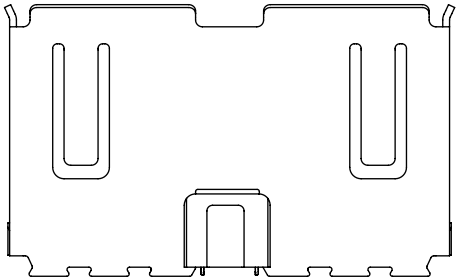

FIG 9
-S: SM LOCKING TOOL
APF6-037-03.5-XXX-08-0-S-XR SHOWN
(SAME AS FIG 1 & FIG 7, EXCEPT AS SHOWN)
(SOME CENTER FEATURES REMOVED FOR CLARITY)

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SHEET SCALE: 4:1

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e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
APF6 0.635MM SOCKET ARRAY ASSEMBLY

DWG. NO.
APF6-XXX-XX.X-XXX-XX-X-XX-XR

BY: B BLESSING 5/26/2018 SHEET 7 OF 7

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