

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

**APM6-XXX-XX.X-XXX-XX-X-X-XR**

DO NOT SCALE FROM THIS PRINT

No. OF POSITIONS  
\* -010, -020, \*-030, -040, \*-050, -060, Δ -064 \*-070, \*-080, \*-090, -100 (PER ROW)

TAPE & REEL (SEE NOTES 2 & 3)  
-TR: TAPE & REEL  
-FR: FULL REEL QTY TAPE & REEL

LEAD STYLE  
-01.5: 1.5MM  
Δ -01.9: 1.9MM  
-06.5: 6.5MM

OPTION  
BLANK: NO ALIGNMENT PIN  
-A: ALIGNMENT PIN (SEE SHT 3, FIG 3)

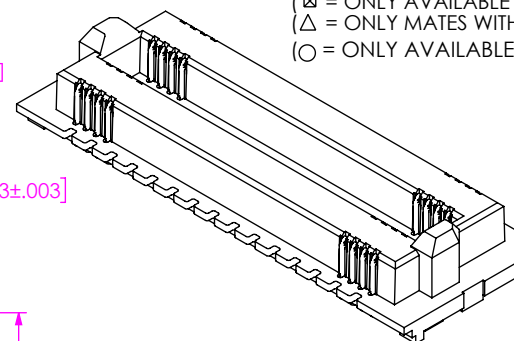
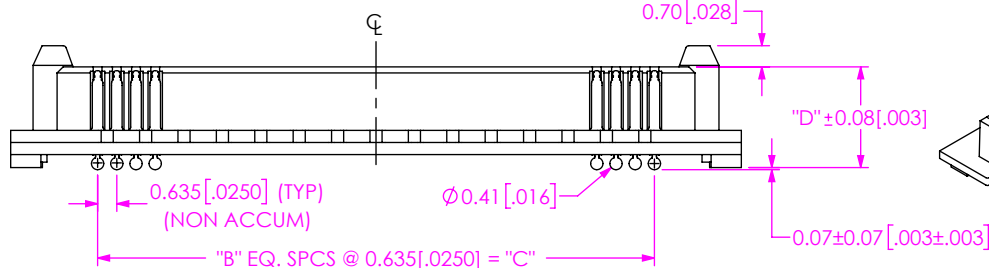
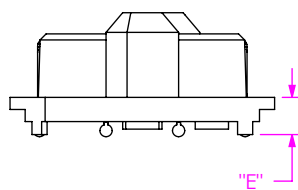
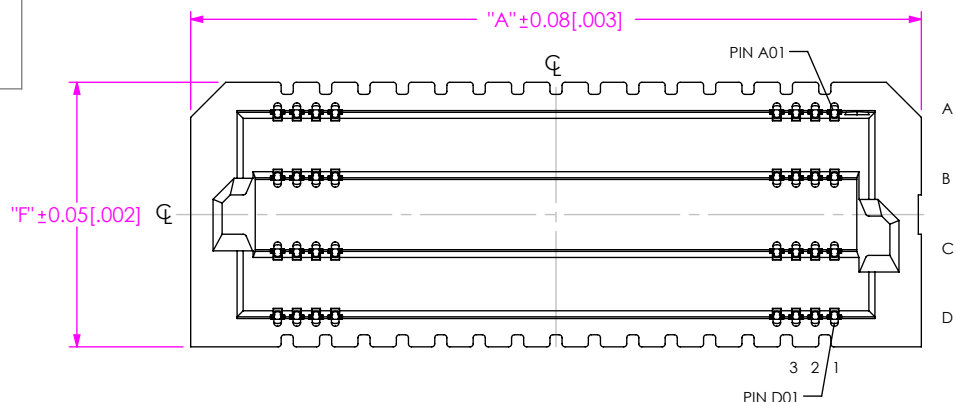
PLATING SPECIFICATION  
-L: 10μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
-S: 30μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL  
\*-STL: 30μ" SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD ON SOLDER TAIL.

SOLDER BALL COMPOSITION

\*\*0: NO SOLDER BALLS  
\*1: 63.0% TIN/37.0% LEAD  
-2: 95.5% TIN/3.8% SILVER/0.7% COPPER

ROW  
-04: 4 ROW  
\*-06: 6 ROW  
○ \* ⊠ -08: 8 ROW  
\*-10: 10 ROW  
\* □ -16: 16 ROW

(\* = NOT TOOLED)  
(\*\* = NOT RELEASED)  
(□ = ONLY AVAILABLE IN -50 POS)  
(⊠ = ONLY AVAILABLE IN -100 POS)  
(Δ = ONLY MATES WITH -RA OPTION)  
(○ = ONLY AVAILABLE WITH -01.5 LEAD STYLE)

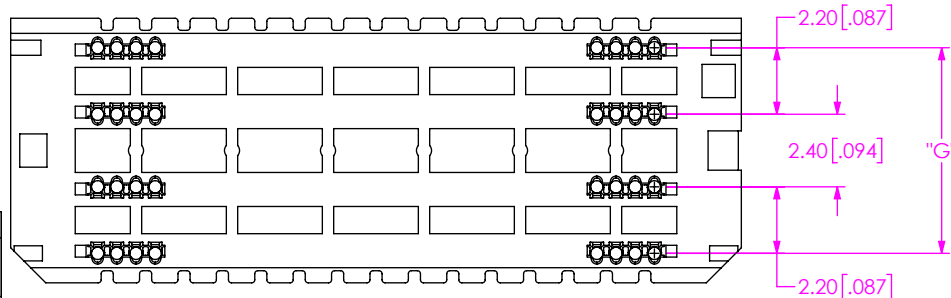


**TABLE 3**

LEAD STYLE	"D"	"E"
-01.5	3.33 [0.131]	1.23 [0.048]
-01.9	3.71 [0.146]	1.23 [0.048]
-06.5	8.33 [0.328]	6.23 [0.245]

**TABLE 4**

-No. OF ROWS	"F"	"G"
-04	8.75 [0.344]	6.80 [0.268]
-06	13.35 [0.526]	11.40 [0.449]
-08	17.95 [0.707]	16.00 [0.630]
-10	22.55 [0.888]	20.60 [0.811]
-16	36.35 [1.431]	34.40 [1.354]



**TABLE 1**  
STACK HEIGHT

APF6 LEAD STYLE	APM6 LEAD STYLE	
	-01.5	-06.5
-03.5	5.00 [0.197]	10.00 [0.394]

**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]
-064	45.21 [1.780]	63	40.01 [1.575]
-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]

**FIG 1**  
APM6-030-01.5-XXX-04-X-XR SHOWN  
(SOME CENTER FEATURES REMOVED FOR CLARITY)

NOTES:

- NOTE DELETED.
- ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS [SPES] FOUND ON WWW.SAMTEC.COM.
- ATTACH LABEL -4X2 TO EACH REEL.
- K-DOT PROVIDED AS STANDARD.
- MEASURE BOTH OUTSIDE ROWS ONLY.
- SEE SHT 3 FOR PROCESSING INFORMATION.

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DO NOT SCALE DRAWING  
SHEET SCALE: 4:1  
MATERIAL: INSULATOR: LCP, COLOR: BLACK  
TERMINAL: COPPER ALLOY



520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
APM6 0.635MM TERMINAL ARRAY ASSEMBLY  
DWG. NO.  
APM6-XXX-XX.X-XXX-XX-X-X-XR  
BY: B BLESSING 4/24/2018 SHEET 1 OF 4

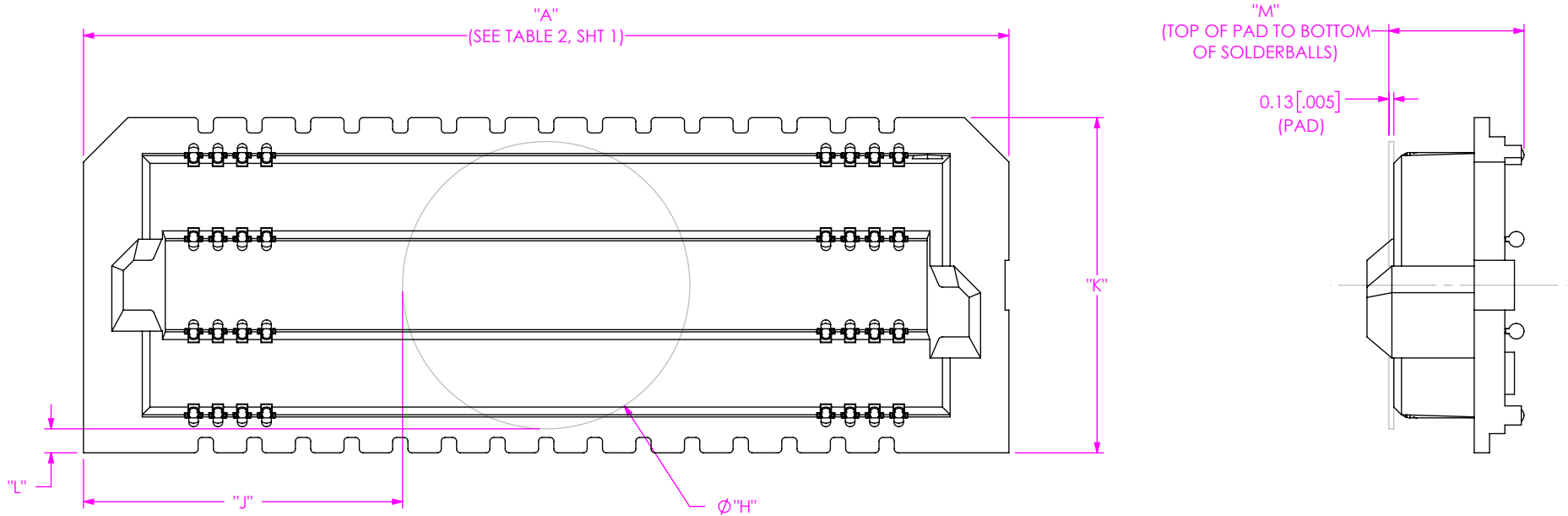


FIG 2  
 POLYIMIDE PAD  
 APM6-030-1.5-XXX-XX-X-XR SHOWN  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

TABLE 5

-No. OF ROWS	ø"H"	"J"											"L"
		10 POS	20 POS	30 POS	40 POS	50 POS	60 POS	64 POS	70 POS	80 POS	90 POS	100 POS	
-04	7.50 [0.295]	1.98 [0.078]	5.16 [0.203]	8.33 [0.328]	11.51 [0.453]	14.68 [0.578]	17.86 [0.703]	19.13 [0.753]	21.03 [0.828]	24.21 [0.953]	27.38 [1.078]	30.56 [1.203]	0.63 [0.025]
-06	9.00 [0.354]	1.23 [0.049]	4.41 [0.174]	7.58 [0.299]	10.76 [0.424]	13.93 [0.549]	17.11 [0.674]	18.38 [0.724]	20.28 [0.799]	23.46 [0.924]	26.63 [1.049]	29.81 [1.174]	2.18 [0.086]
-08													4.48 [0.176]
-10													6.78 [0.267]
-16													13.68 [0.538]

TABLE 6

LEAD STYLE	"M"
-01.5	3.53 [0.139]
-01.9	3.91 [0.154]
-06.5	8.53 [0.336]

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 APM6 0.635MM TERMINAL ARRAY ASSEMBLY

DWG. NO.  
 APM6-XXX-XX.X-XXX-XX-X-XR

BY: B BLESSING 4/24/2018 SHEET 2 OF 4

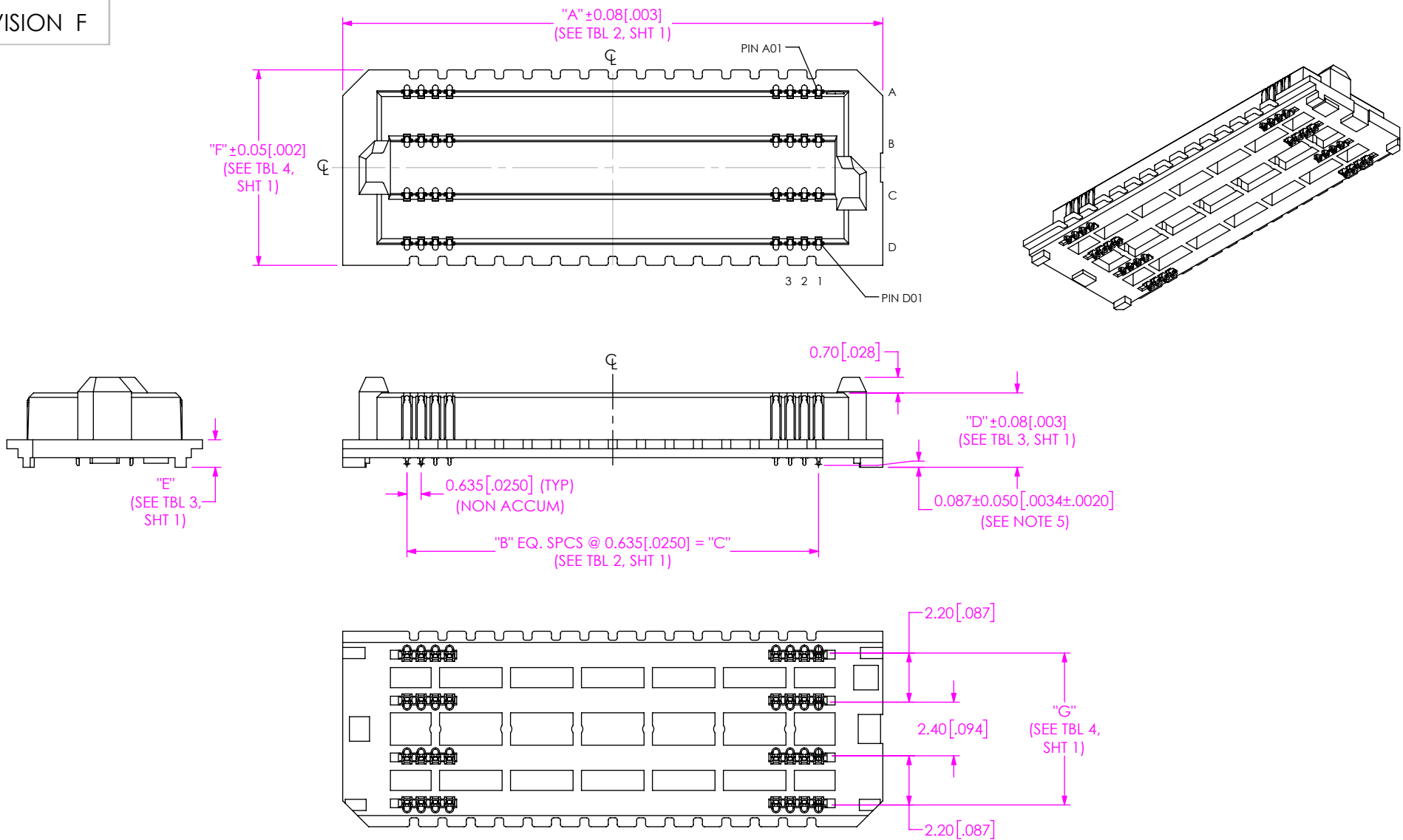


FIG 5  
 APM6-030-01.5-XXX-04-0-XR SHOWN  
 (NO SOLDER BALLS OPTION)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

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DO NOT SCALE DRAWING  
 SHEET SCALE: 3:1

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 APM6 0.635MM TERMINAL ARRAY ASSEMBLY  
 DWG. NO.  
**APM6-XXX-XX.X-XXX-XX-X-X-XR**  
 BY: B BLESSING 4/24/2018 SHEET 3 OF 4

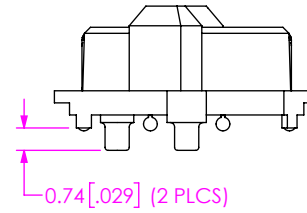
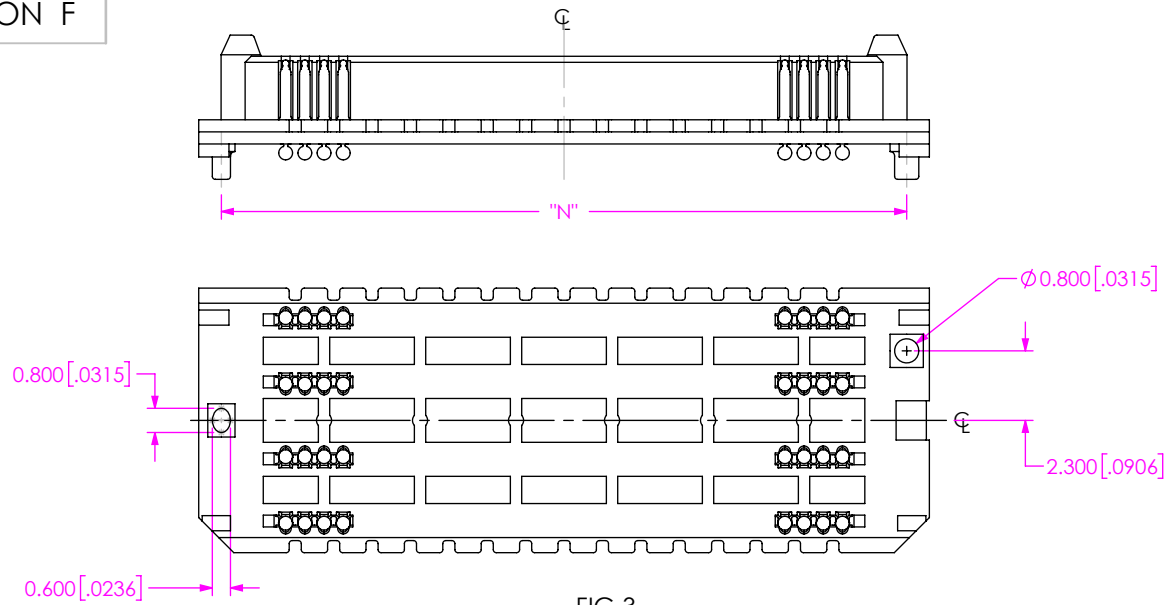


TABLE 7	
No OF POS PER ROW	"N"
-010	9.97 [0.392]
-020	16.32 [0.642]
-030	22.67 [0.892]
-040	29.02 [1.142]
-050	35.37 [1.392]
-060	41.72 [1.642]
-064	44.26 [1.742]
-070	48.07 [1.892]
-080	54.42 [2.142]
-090	60.77 [2.392]
-100	67.12 [2.642]

FIG 3  
 -A: ALIGNMENT PIN  
 APM6-030-01.5-XXX-04-X-A-XR SHOWN  
 (SAME AS FIG 1, EXCEPT AS SHOWN)  
 (SOME CENTER FEATURES REMOVED FOR CLARITY)

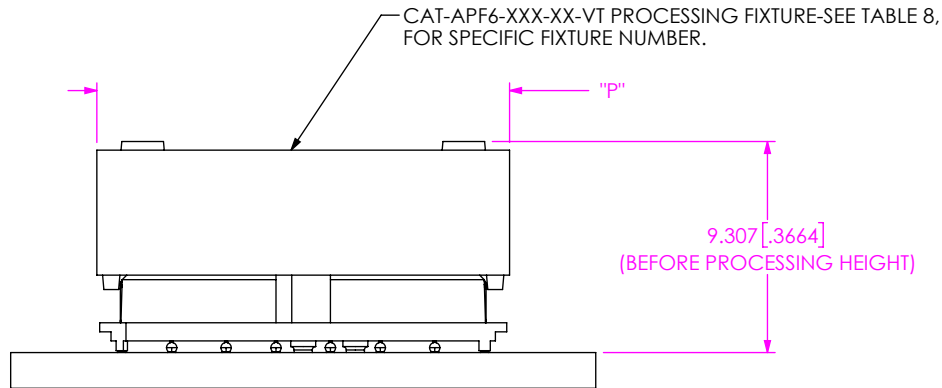


FIG 4  
 PROCESSING FIXTURE  
 (ONLY AVAILABLE IN -01.5 LEAD STYLE)

NOTE:  
 FIG 4, DIMENSION 9.307 [.3664] INDICATES CONNECTOR/FIXTURE HEIGHT ON PCB.  
 TO GUARANTEE ENOUGH REFLOW OVEN WORKING SPACE, DIMENSION 9.307 [.3664],  
 PCB THICKNESS, AND THE HEIGHT OF THE COMPONENTS ON THE OPPOSITE  
 SIDE OF THE BOARD NEED TO BE CONSIDERED.

TABLE 8			
APX6 FIXTURE TOOLS			
PART NUMBERS	POSITIONS	ROW	"P"
CAT-APF6-100-04-VT	100	-04	8.99 [0.354]
CAT-APF6-100-08-VT	100	-08	18.21 [0.717]

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