REVISION AH

PATENT NUMBER
6159045

DO NOT SCALE FROM THIS PRINT

MEC1-1XX-XX-XX-D-RAX-XX-SL-XX

No OF POSITIONS
-05, -08, -20, -30, -40, -50 (SEE FIG 1)
-60 & -70 (SEE FIG 2, SHT 3)
(PER ROW)

CARD THICKNESS
*-01: .031 THICK CARD
(USE MEC1-XX-T-D-RAX-X-SL)
(SEE NOTE 9)
-02: .062 THICK CARD
(USE MEC1-XX-S-D-RAX-X-SL)
(SEE NOTE 9)

PLATING
-F: 3µ" FLASH GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-L: 10µ" LIGHT GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
-FM: 3µ" FLASH GOLD IN CONATACT AREA, MATTE ON TIN TAIL
-LM: 10µ" LIGHT IN CONTACT AREA, MATTE TIN ON TAIL
-SM: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL

* = FOR EXISTING CUSTOMERS ONLY

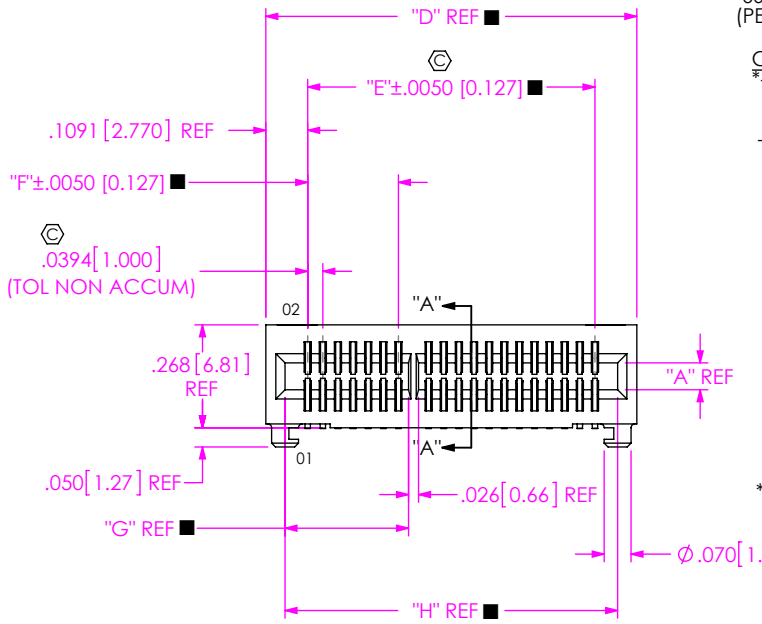
OPTION
-TR: TAPE & REEL
(SUBSTITUTE -T: FOR -TR: DESIGNATION WHEN USING -XM PLATING DESIGNATION WITH BOTH -NP AND -SL OPTIONS)
(-T OR -TR OPTION NOT AVAILABLE FOR 70 POS)

SOLDER LOCKS

NON-POLARIZED OPTION
-NP: NO POLARIZED POSITION
(ONLY AVAILABLE ON -05, -08, -20, & -30 POSITIONS)
(SEE FIG 4, SHT 3)
-BLANK: BODY IS POLARIZED

TAIL OPTION
-RA1: STANDARD
-RA2: ELEVATED (SEE FIG 3, SHT 3)

ROW SPECIFICATION
-D: DOUBLE (USE MEC1-XX-X-D-RAX-X-SL)



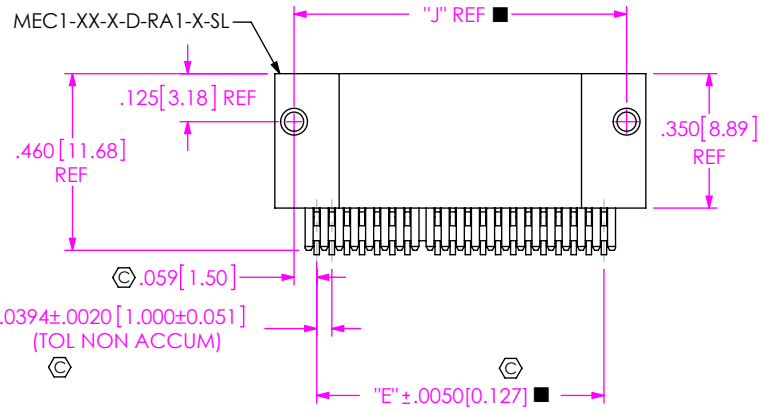


FIG 1
MEC1-120-02-XX-D-RA1-SL SHOWN
■= SEE TABLE 3, SHT 2

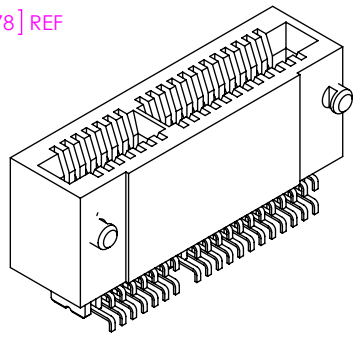


TABLE 1			
CARD	"A"	"B"	"C"
*-01	.0400 [1.016]	.0161 [0.409]	.008 [0.20]
-02	.0700 [1.778]	.0298 [0.757]	.010 [0.25]

* = FOR EXISTING CUSTOMERS ONLY

TABLE 2		
POSITION	COPLANARITY	STRAIGHTNESS
-05, -08, -20, -30, -40	.0040[0.102]	.004[0.10]
-50, -60, -70	.0060[0.152]	.006[0.15]

NOTES:

1. ⓒ REPRESENTS A CRITICAL DIMENSION.
2. MAXIMUM BURR ALLOWANCE: .004[0.10].
3. MINIMUM PUSHOUT FORCE: .5 LB.
4. TAIL OPTION -RA1 TO HAVE C-150-01-XX-X CONTACT FULLY PRE-FORMED.
5. BODIES TO BE LAYER PACKAGED FOR TRANSIT BETWEEN INVENTORY AND PRODUCTION.
6. TO BE MEASURED AT 2 MAIN 90° BENDS.
7. MEASURE FIRST AND LAST PIN OF EACH ROW.
8. FOR QUANTITIES UP TO 49 PIECES, NO LEADER, TRAILER, OR REEL WILL BE SUPPLIED.
   FOR QUANTITIES OF 50-124 PIECES, NO LEADER OR TRAILER WILL BE SUPPLIED.
9. MATING EDGE CARD THICKNESS TOLERANCE TO BE ±10% OF NOMINAL FOR -01; ±7.5% FOR -02.
10. TOP ROW TAIL MUST BE POSITIONED BELOW BOTTOM ROW TAIL BY A MINIMUM OF .002". WHEN PLACED ON A PRINTED CIRCUIT BOARD, THE TOP ROW TAIL MUST BE CLOSEST TO THE BOARD.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS
.XX: ±.01 [0.3]
.XXX: ±.005 [0.13]
.XXXX: ±.0020 [0.051]
ANGLES
2°

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

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1
FLAMMABILITY RATING: UL 94V-0

INSULATOR: LCP
-01: COLOR: NATURAL
-02: COLOR: BLACK
CONTACT: PHOS BRONZE

DESCRIPTION: 1mm MEC1 -RA ASSEMBLY

DWG. NO.
MEC1-1XX-XX-XX-D-RAX-XX-SL-XX

BY: MARKS 01/25/00 SHEET 1 OF 5

F:\DWG\MISC\MKTG\MEC1-1XX-XX-XX-D-RAX-XX-SL-XX-MKT.SLDDRW

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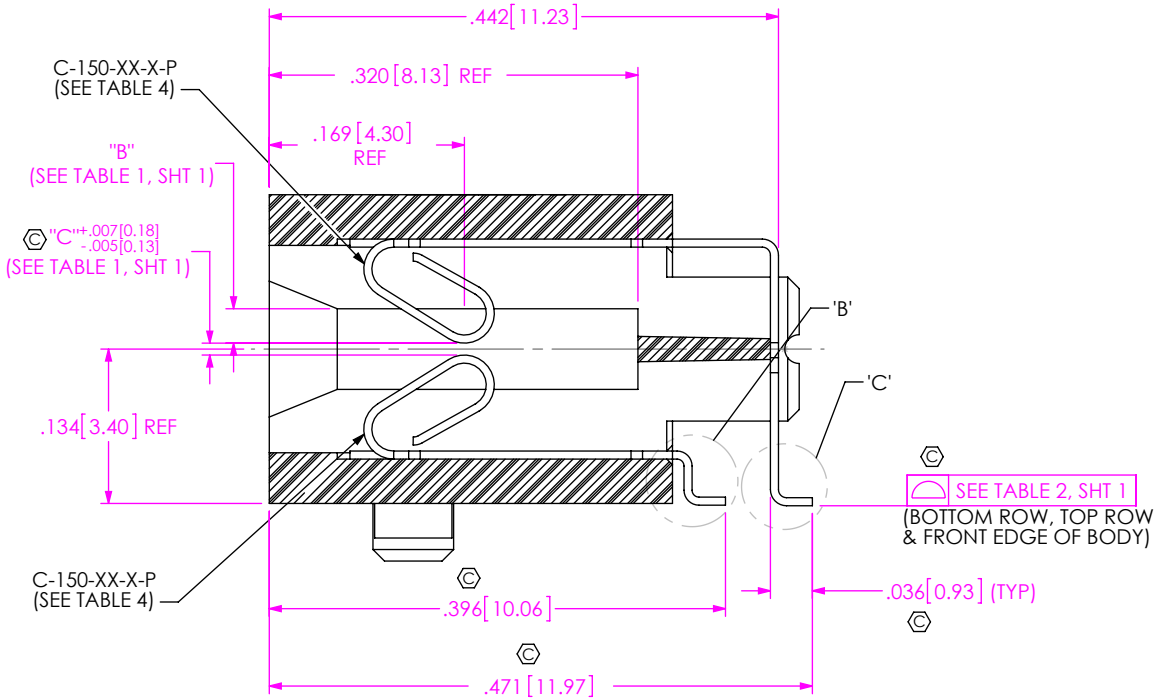
TABLE 3

No OF POSITIONS	POLARIZED POSITIONS	"D"	"E"	"F"	"G"	"H"	"J"
-05	3 & 4	.3756 [9.540]	.1575 [4.000]	N/A	.0854 [2.169]	.275 [6.99]	.2756 [7.000]
-08	5 & 6	.4937 [12.540]	.2756 [7.000]	.0394 [1.001]	.1248 [3.170]	.394 [10.01]	.3937 [10.000]
-20	15 & 16	.9661 [24.540]	.7480 [19.000]	.2362 [5.999]	.3216 [8.169]	.866 [22.00]	.8661 [22.000]
-30	21 & 22	1.3598 [34.540]	1.1417 [29.000]	.3543 [8.999]	.4398 [11.171]	1.260 [32.00]	1.2598 [32.000]
-40	31 & 32	1.7535 [44.540]	1.5354 [39.000]	.5512 [14.000]	.6366 [16.170]	1.654 [42.01]	1.6535 [42.000]
-50	41 & 42	2.1472 [54.540]	1.9291 [49.000]	.7480 [18.999]	.8334 [21.168]	2.047 [51.99]	2.0472 [52.000]
-60	31 & 32, 63 & 64	2.5409 [64.540]	2.3228 [59.000]	.5512 [14.000]	.6366 [16.170]	2.441 [62.00]	2.4409 [62.000]
-70	53 & 54, 115 & 116	2.9346 [74.540]	2.7165 [69.000]	.9843 [25.001]	1.0696 [27.168]	2.835 [72.01]	2.8346 [71.999]

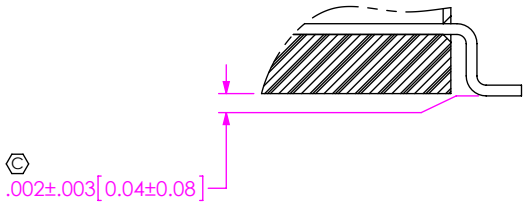
TABLE 4

CARD THICKNESS	TAIL OPTION	BOTTOM ROW	TOP ROW
*-01	-RA1	C-150-11-X-P	C-150-14-X-P
*-01	-RA2	C-150-15-X-P	C-150-16-X-P
-02	-RA1	C-150-01-X-P	C-150-04-X-P
-02	-RA2	C-150-05-X-P	C-150-06-X-P

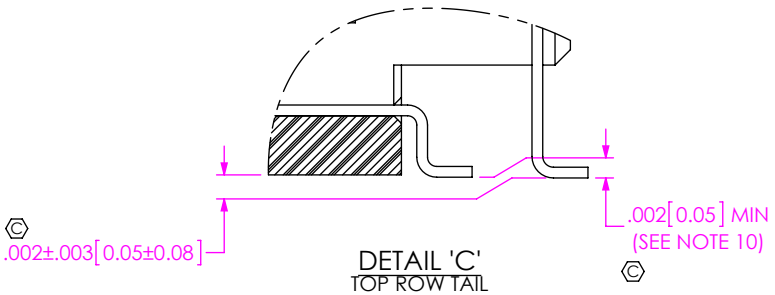
* = FOR EXISTING CUSTOMERS ONLY



SECTION "A"-"A"



DETAIL 'B'
BOTTOM ROW TAIL



DETAIL 'C'
TOP ROW TAIL

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

DESCRIPTION: 1mm MEC1 -RA ASSEMBLY

DWG. NO. MEC1-1XX-XX-XX-D-RAX-XX-SL-XX

BY: MARKS 01/25/00 SHEET 2 OF 5

REVISION AH

TABLE 5		
No OF POSITION	"K"	"L"
-60	.5512 [14.000]	.604 [15.34]
-70	1.1417 [28.999]	1.196 [30.37]

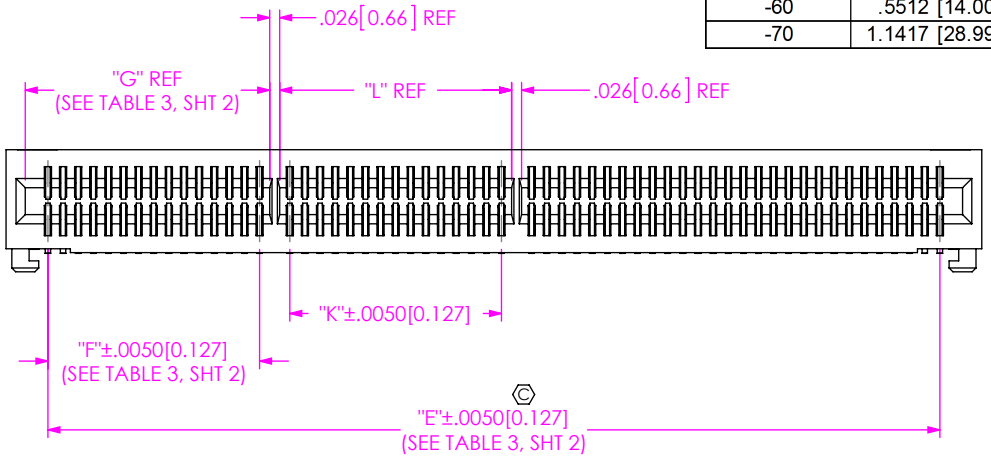


FIG 2
MEC1-160-02-XX-D-RA1-SL SHOWN
(-60 & -70 POSITION ONLY)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

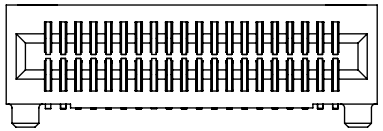
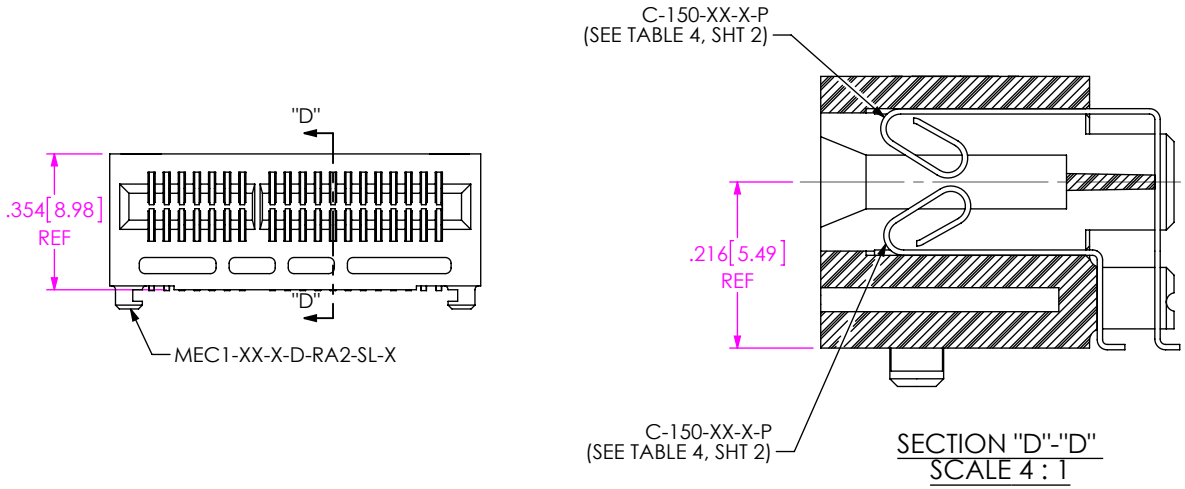


FIG 4
MEC1-120-02-XX-D-RA1-NP-SL SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

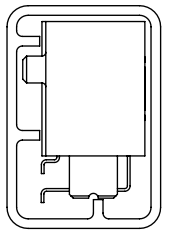


SECTION "D"-"D"
SCALE 4 : 1

FIG 3
MEC1-120-02-XX-D-RA2-SL SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

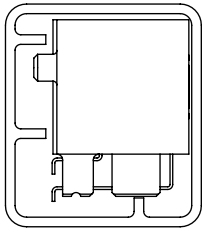
PACKAGING VIEW

-RA1 TAIL OPTION



TUBE: PT-1-24-01-106
PLUG: TP-07

-RA2 TAIL OPTION



TUBE: PT-1-24-02-106
PLUG: TP-13

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1mm MEC1 -RA ASSEMBLY

DWG. NO.
MEC1-1XX-XX-XX-D-RAX-XX-SL-XX

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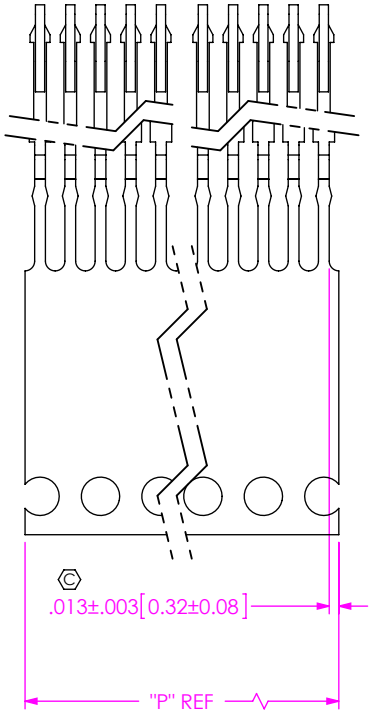
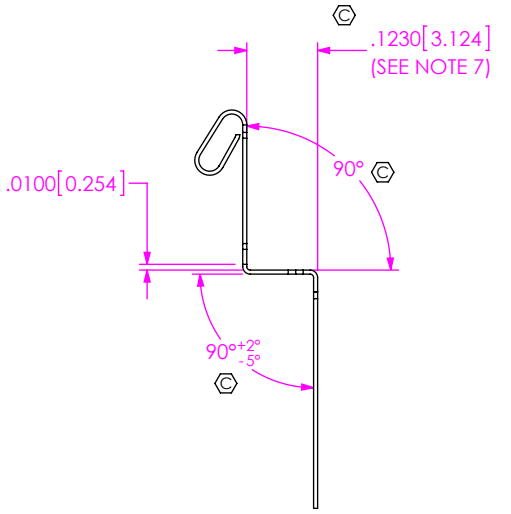
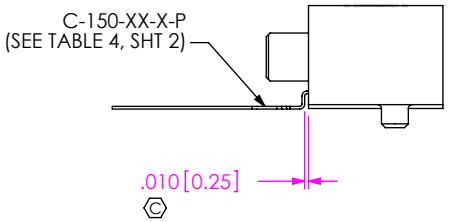


TABLE 6	
No OF POSITIONS	"P"
-05	.197 [5.00]
-08	.315 [8.00]
-20	.787 [20.00]
-30	1.181 [30.00]
-40	1.575 [40.00]
-50	1.969 [50.00]
-60	2.362 [60.00]
-70	2.756 [70.00]

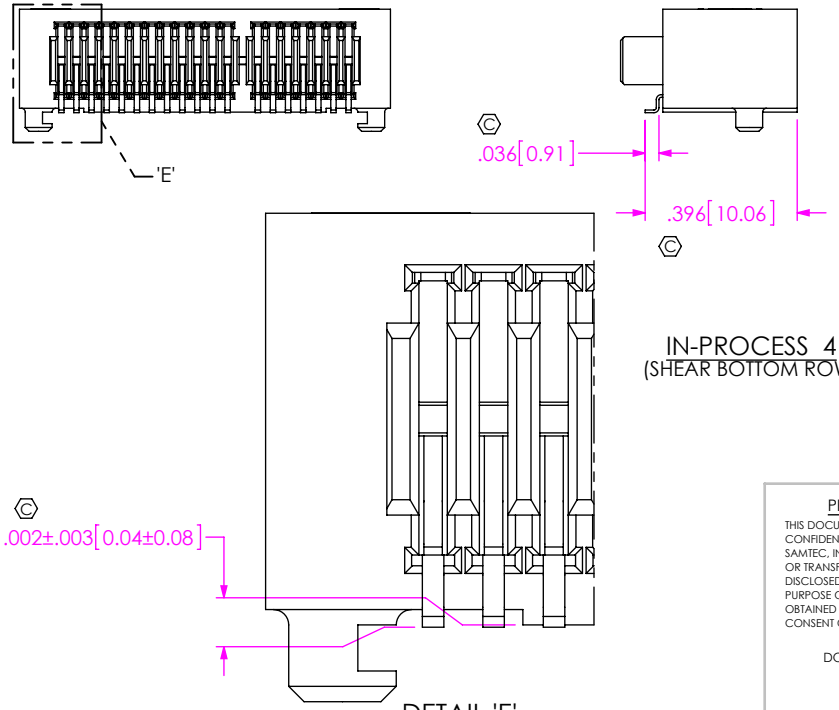
IN-PROCESS 1 & 5
(COMB CUT CONTACT)



IN-PROCESS 2
(FORM BOTTOM ROW)
(C-150-05-X-P SHOWN)
(-RA2 ONLY)



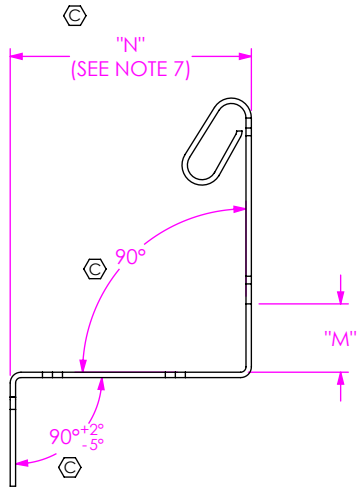
IN-PROCESS 3
(FILL BOTTOM ROW)



IN-PROCESS 4
(SHEAR BOTTOM ROW)

DETAIL 'E'
SCALE 8 : 1

TABLE 7		
TAIL OPTION	"N"	"M"
-RA1	.2295 [5.829]	.085 [2.16]
-RA2	.3140 [7.976]	.089 [2.26]



IN-PROCESS 6
(FORM TOP ROW)
(C-150-06-X-P SHOWN)

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PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
1mm MEC1 -RA ASSEMBLY

DWG. NO.
MEC1-1XX-XX-XX-D-RAX-XX-SL-XX

BY: MARKS 01/25/00 SHEET 4 OF 5

F:\DWG\MISC\MKTG\MEC1-1XX-XX-XX-D-RAX-XX-SL-XX-MKT.SLDDRW

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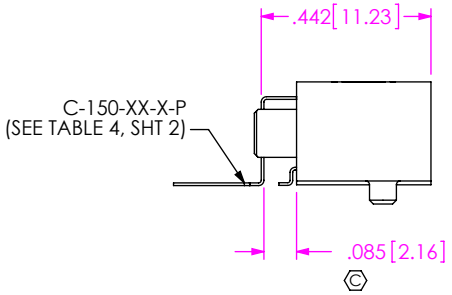
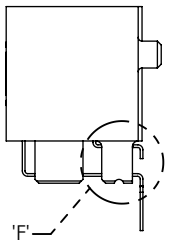
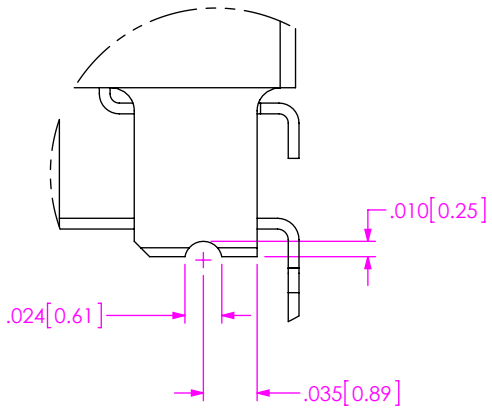
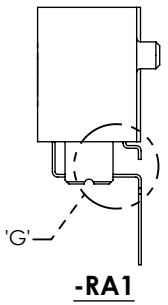


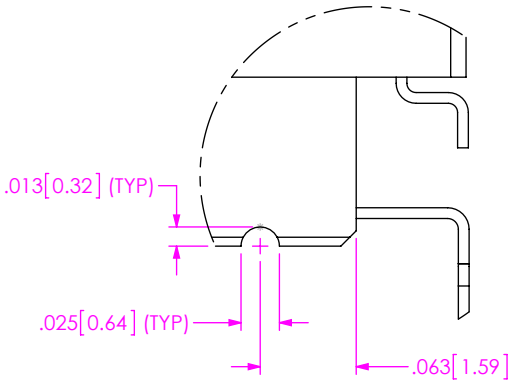
IN-PROCESS 7
(FILL TOP ROW)





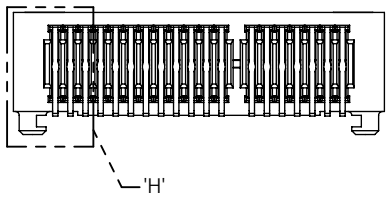
DETAIL 'F'
SCALE 8 : 1

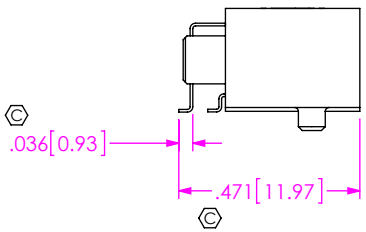




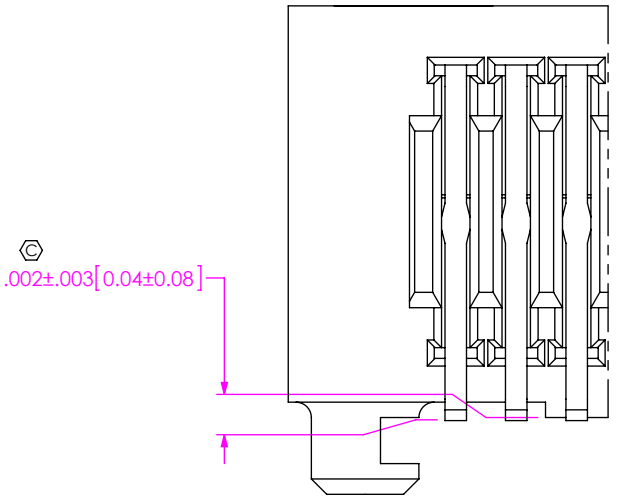
DETAIL 'G'
SCALE 8 : 1

IN PROCESS 8
HEAT STAKE TOP ROW





IN-PROCESS 9
(SHEAR TOP ROW)



DETAIL 'H'
SCALE 8 : 1

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DESCRIPTION:
1mm MEC1 -RA ASSEMBLY

DWG. NO.
MEC1-1XX-XX-XX-D-RAX-XX-SL-XX

BY: MARKS 01/25/00 SHEET 5 OF 5