

DO NOT
SCALE FROM
THIS PRINT

NOTES:

1. $\odot$ REPRESENTS A CRITICAL DIMENSION.
2. PARTS MAY BE CUT TO POSITION.
3. MAXIMUM CUT FLASH: .020[0.51], LOOSE FLASH MUST BE REMOVED.
4. MINIMUM PUSHOUT FORCE: 1.0 LB.
5. MEASURED AT BEND RADIUS, NOT AT END OF PIN.
6. NOTE DELETED.
7. SHEAR TAILS TO DIMENSION SHOWN.
8. MAXIMUM BURR ALLOWANCE: .003 [0.08]
9. GOLD PLATING TO BE ON POST, TIN PLATING TO BE ON TAIL.
10. FILL WITH ALIGNMENT PIN HOLES TO TAIL SIDE.
11. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, LOCKING CLIPS ARE NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH LOCKING CLIPS.
12. VOIDS MAY OR MAY NOT BE PRESENT ON POSITIONS 5 THRU 8 AND CAN BE MIXED WITHIN AN ORDER.
13. ON LEAD STYLES -02 THROUGH -03 THE T-1S15-18-XXX CAN BE SUBSTITUTED FOR T-1S15-16-XXX.
14. ON LEAD STYLES -01 AND -04, T-1S15-17 CAN BE SUBSTITUTED FOR T-1S15-15-XXX.
15. NO TIN PLATING ALLOWED ON THE POST FOR LEAD STYLES -01, -02, -03 & -04 IN COMBINATION WITH THE T-1S15-XX-XXX TERMINAL.
16. MAXIMUM HEIGHT VARIATION .005[0.13] BETWEEN ROWS.
17. NOTE DELETED.
18. NOTE DELETED.
19. TUBES ARE STANDARD PACKAGING FOR 4-50 POS. 2-3 POS ARE LAYER PACKAGED.
20. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
21. ATTACH LABEL-4X2 TO EACH REEL.
22. FOR LEAD STYLE -01, TERMINAL TAILS MAY BE SHEARED OR UNSHEARED AND MIXED WITHIN AN ORDER

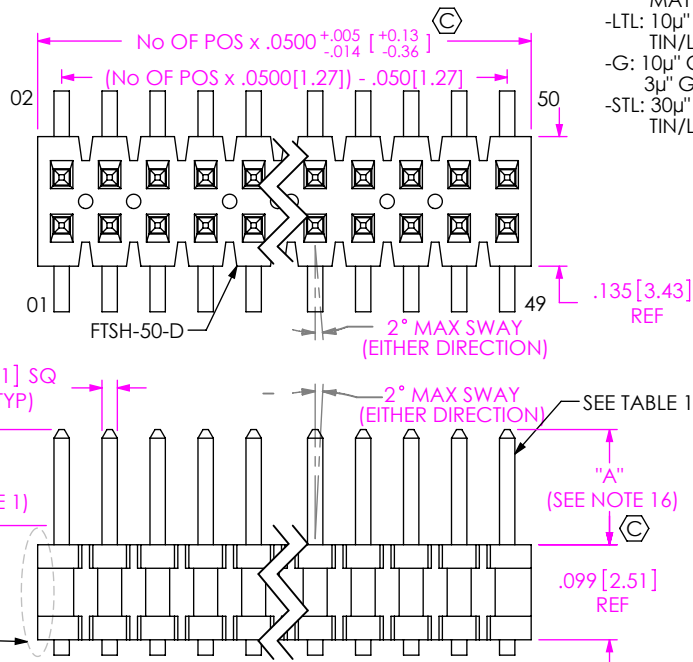
FIG 1
FTSH-1XX-XX-XXX-DV SHOWN

TABLE 1						
LEAD STYLE	"A"	"B" REF	AUTOMATED BKT	"C" (OAL)	HAND FILL	"C" (OAL)
-01	.120 [3.05]	.070 [1.78]	*** T-1S15-15-XXX	.675 [17.15]	T-1S40-03-XX-2	.309 [7.85]
-02	.075 [1.91]	.050 [1.27]	* T-1S15-16-XXX	.675 [17.15]	* T-1S15-18-XXX	.800 [20.32]
-03	.065 [1.65]	.050 [1.27]	* T-1S15-16-XXX	.675 [17.15]	* T-1S15-18-XXX	.800 [20.32]
-04	.150 [3.81]	.070 [1.78]	*** T-1S15-15-XXX	.675 [17.15]	*** T-1S15-17-XXX	.800 [20.32]
-05	.170 [4.32]	.070 [1.78]	T-1S15-17-XXX	.800 [20.32]	T-1S15-17-XXX	.800 [20.32]
-14	.150 [3.81]	.135 [3.43]	T-1S15-63-XXX	.800 [20.32]	T-1S15-63-XXX	.800 [20.32]

* = SEE NOTE 13

*** = SEE NOTE 14

FTSH-1XX-XX-XXX-DV-XXX-XXX-X-XX

NO OF POSITIONS

-02 THRU -50
(PER ROW)

LEAD STYLE

-01: .120 [3.05]
 -02: .075 [1.91]
 -03: .065 [1.65]
 -04: .150 [3.81]
 -05: .170 [4.32]
 -14: .150 [3.81]

PLATING SPECIFICATION

- L: 10 μ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -F: 3 μ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -S: 30 μ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -H: 30 μ " GOLD IN CONTACT AREA, 3 μ " GOLD ON TAIL
 -LM: 10 μ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -FM: 3 μ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -SM: 30 μ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
 -LTL: 10 μ " SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10 +/-5%) TAIL
 -G: 10 μ " GOLD IN CONTACT AREA, 3 μ " GOLD ON TAIL
 -STL: 30 μ " SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10 +/-5%) ON TAIL

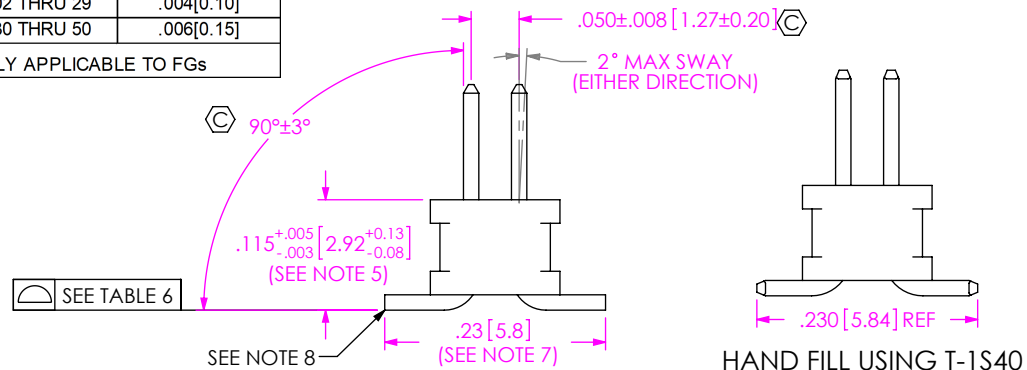
TAIL OPTION

-DV: DOUBLE VERTICAL

TABLE 6

POSITIONS	COPLANARITY
02 THRU 29	.004[0.10]
30 THRU 50	.006[0.15]

ONLY APPLICABLE TO FGs



HAND FILL USING T-1S40

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES
 .XX: $\pm .01$ [.3]
 .XXX: $\pm .005$ [.13]
 .XXXX: $\pm .0010$ [.025]

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MATERIAL: DO NOT SCALE DRAWING
 INSULATOR: LCP UL 94 VO
 TERMINAL: PHOSPHOR BRONZE

SHEET SCALE: 5:1

DESCRIPTION:
 .050 x .050 CL DOUBLE VERTICAL SMT TERMINAL STRIP

DWG. NO.

FTSH-1XX-XX-XXX-DV-XXX-XXX-X-XX

BY: PURVIS

10/12/1995

SHEET 1 OF 5

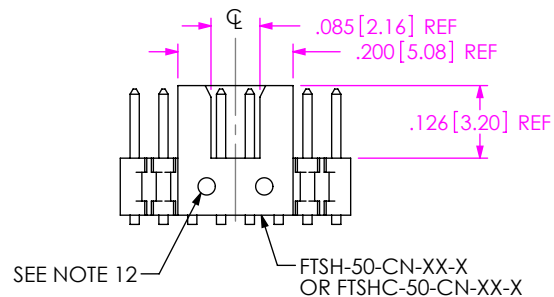


FIG 2
-K OPTION
(LEAD STYLE -01 ONLY)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(POSITION 13, 17, 20 & 25 AVAILABLE WITH
-EXX OPTION)

No OF POS	BODY	No OF PARTS PER FULL STRIP
-05	FTSH-50-CN-05	10
-06	FTSH-50-CN-06	8
-07	FTSH-50-CN-07	7
-08	FTSH-50-CN-08	6
-09	FTSH-50-CN-09	5
-10	FTSH-50-CN-10	5
-11	FTSH-50-CN-11	4
-12	FTSH-50-CN-12	4
-13	FTSH-50-CN-13	3
-14	FTSH-50-CN-14	3
-15	FTSH-50-CN-15	3
-16	FTSH-50-CN-16	3
-17	FTSH-50-CN-17	2
-18	FTSH-50-CN-18	2
-19	FTSH-50-CN-19	2
-20	FTSH-50-CN-20	2
-21	FTSH-50-CN-21	2
-22	FTSH-50-CN-22	2
-23	FTSH-50-CN-23	2
-24	FTSH-50-CN-24	2
-25	FTSH-50-CN-25	2

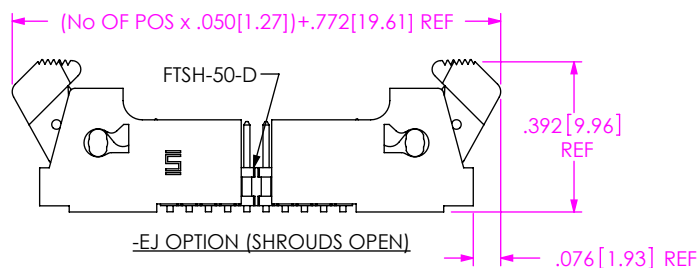


FIG 4
-EJ OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(-01 LEAD STYLE ONLY)

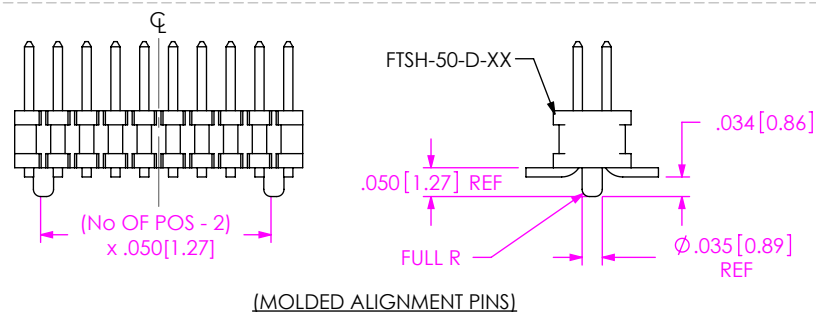
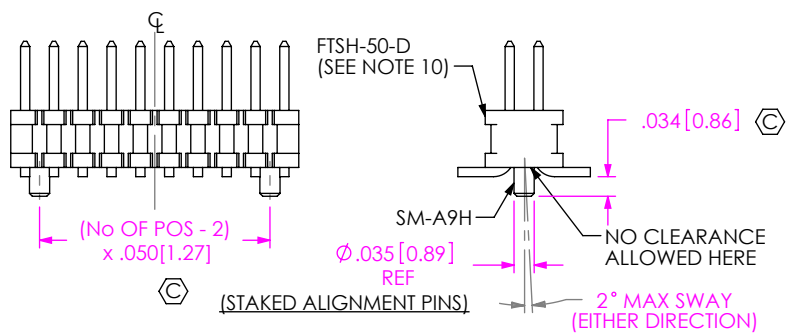


FIG 3
-A OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(6 POSITION MINIMUM FOR STAKED ALIGNMENT PINS)
(3 POSITION MINIMUM FOR MOLDED ALIGNMENT PINS)

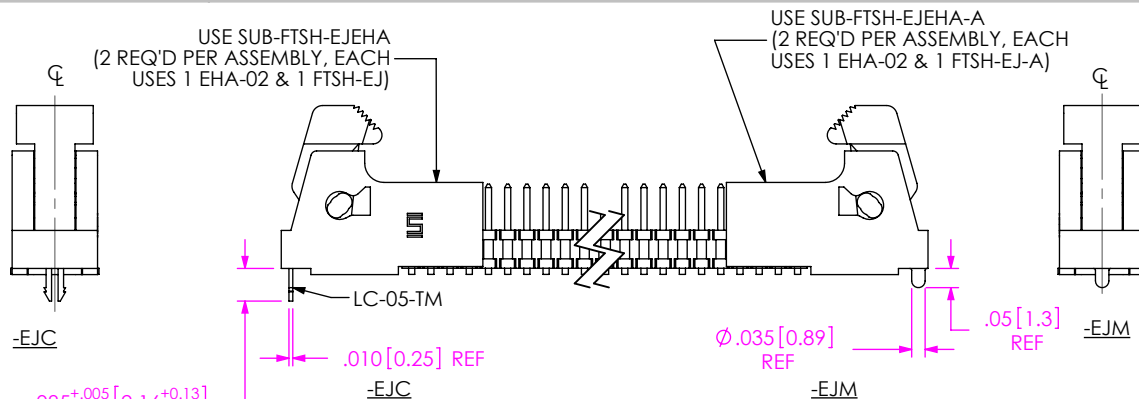


FIG 5
-EJC & -EJM OPTIONS
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 4)
(-01 LEAD STYLE ONLY)

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santec

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

DESCRIPTION:
.050 x .050 CL DOUBLE VERTICAL SMT TERMINAL STRIP

DWG. NO. FTSH-1XX-XX-XXX-DV-XXX-XXX-X-XX

BY: PURVIS	10/12/1995	SHEET 2 OF 5
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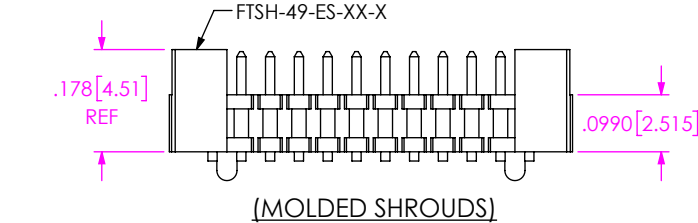
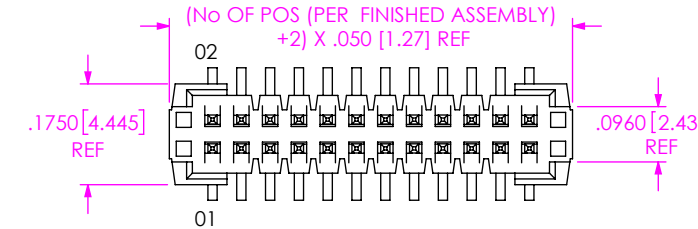
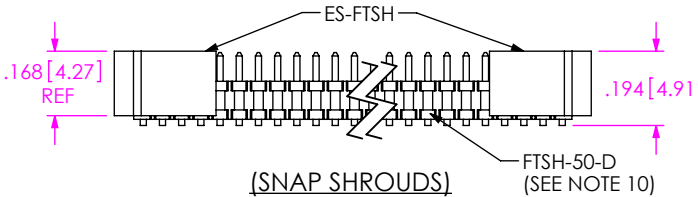
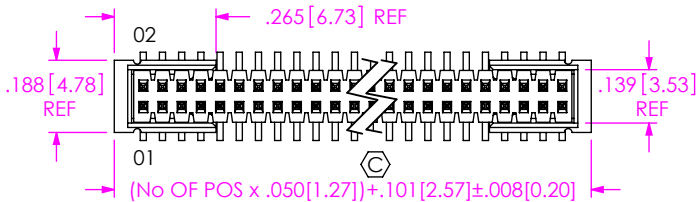


FIG 6
-ES OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(USE -02 OR -03 LEAD STYLE ONLY)
(9 POS MIN FOR SNAP SHROUDS)
(5 POS MIN FOR MOLDED SHROUDS)

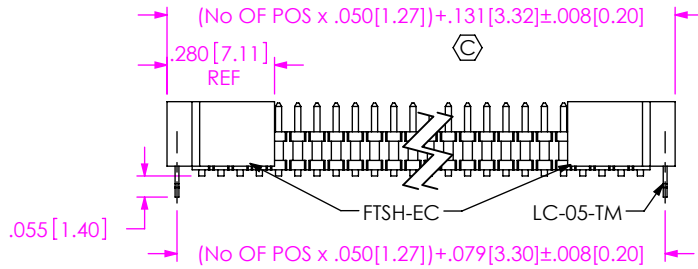


FIG 7
-EC OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)

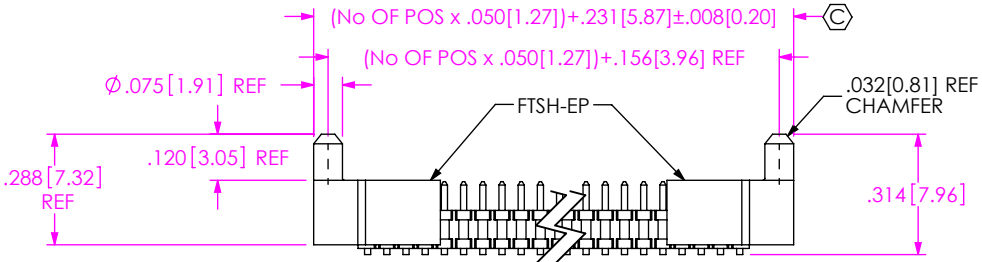


FIG 8
-EP OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(USE ONLY WHEN MATING WITH CLP)

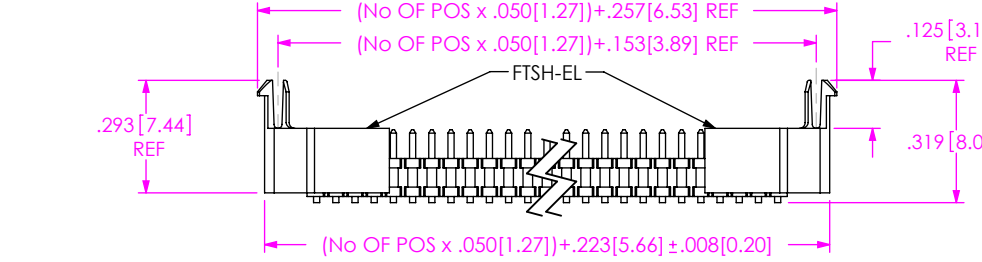


FIG 9
-EL OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(USE ONLY WHEN MATING WITH CLP)

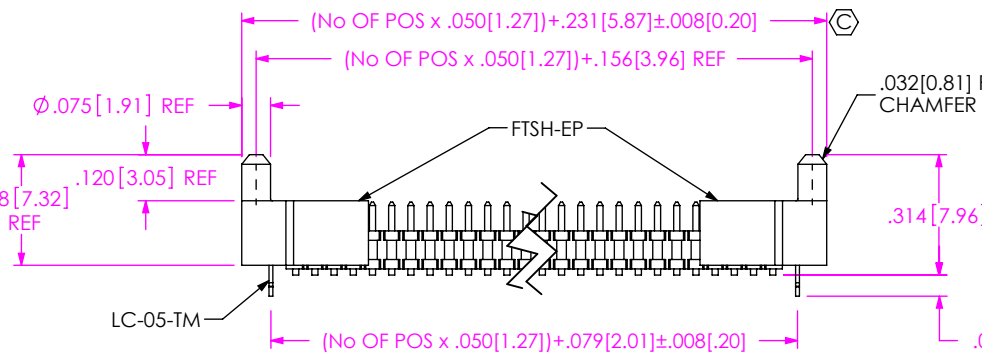


FIG 10
-EPC OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(USE ONLY WHEN MATING WITH CLP)

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	DESCRIPTION: .050 x .050 CL DOUBLE VERTICAL SMT TERMINAL STRIP		
	DWG. NO. FTSH-1XX-XX-XXX-DV-XXX-XXX-X-XX	BY: PURVIS	10/12/1995
		SHEET 3 OF 5	

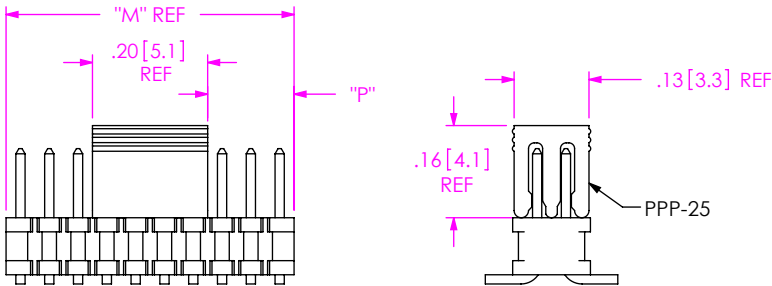
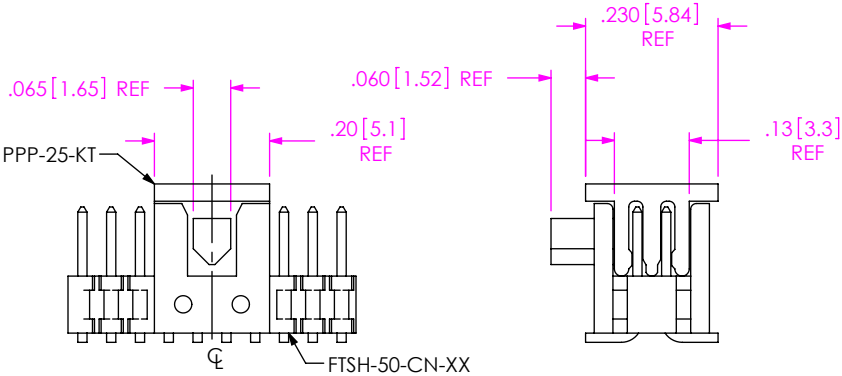
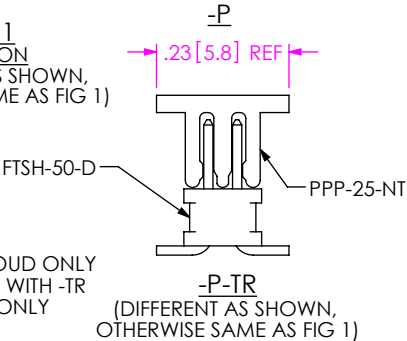


FIG 11
-P OPTION
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

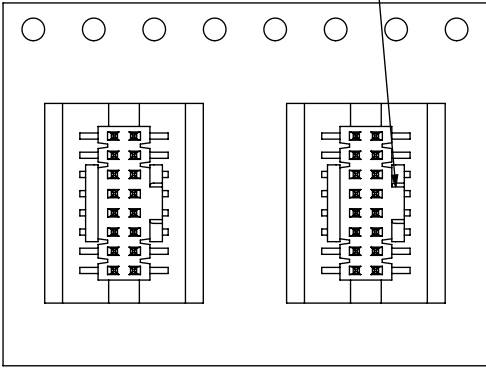
TABLE 5		
OPTION(S)	PAD	MIN. POS
NONE, -A	PPP-25**	4
-EJ, -EJC, -EJM	PPP-41	10
-ES, -EC, -EP, -EL	PPP-25**	9
-EPC	PPP-25**	5*
-K	PPP-25-KT	5
-K-EJ	PPP-25-KT	10

*MOLDED SHROUD ONLY
** USE PPP-25-NT WITH -TR
PACKAGING ONLY

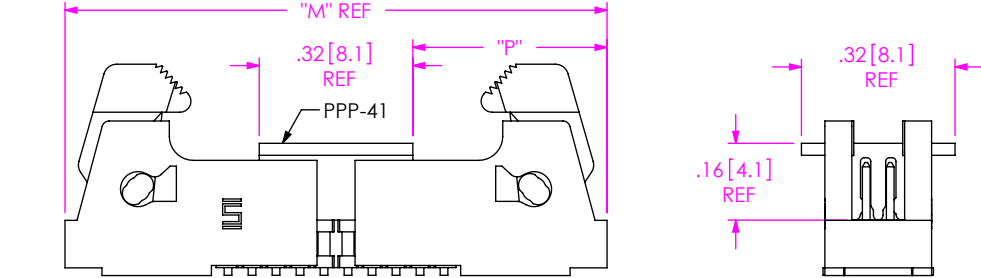


-K-P-TR/FR
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 2)

NOTE: TAPE & REEL ORIENTATION:
POLARIZATION NOTCH TO THE RIGHT



TAPE & REEL VIEW
USER DIRECTION OF UN-REELING
POCKET NOT DETAILED



-EJ-P & -EJX -P
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIGS 4 & 5)

"M" REF = OVERALL LENGTH
"P" = {("M" - .32 [8.1]) / 2} ± .020 [.51]

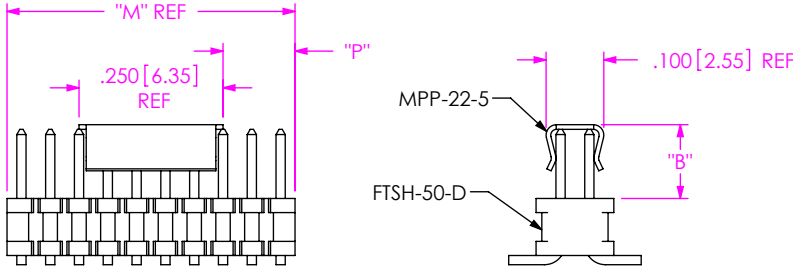


FIG 12
-M: METAL PICK & PLACE PAD
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(NOT AVAILABLE WITH -K OPTION)(5 POS MIN)

"M" REF = OVERALL LENGTH
"P" = {("M" - .250 [6.35]) / 2} ± .020 [0.51]

TABLE 4		
LEAD STYLE	"B" REF	
-01	.125	[3.18]
-02	.080	[2.03]
-03	.070	[1.78]
-04	.155	[3.94]
-14	.155	[3.94]

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
.050 x .050 CL DOUBLE VERTICAL SMT TERMINAL STRIP
DWG. NO.
FTSH-1XX-XX-XXX-DV-XXX-XXX-X-XX
BY: PURVIS 10/12/1995 SHEET 4 OF 5

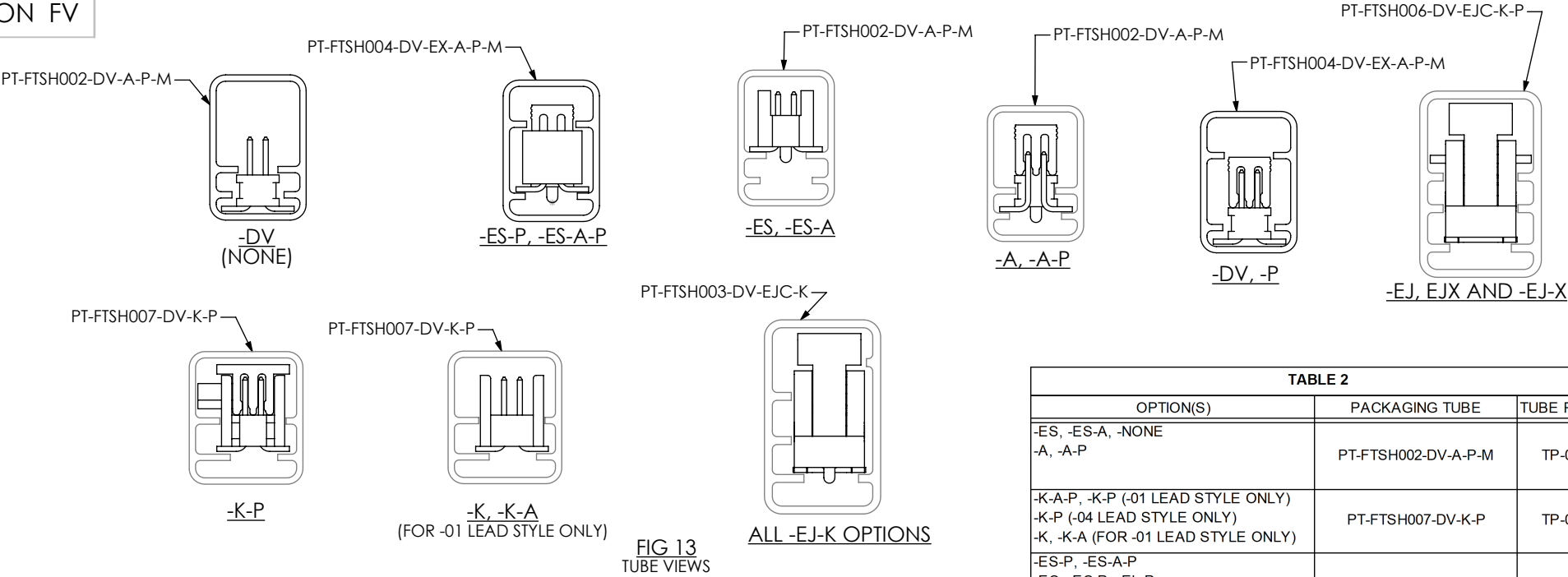
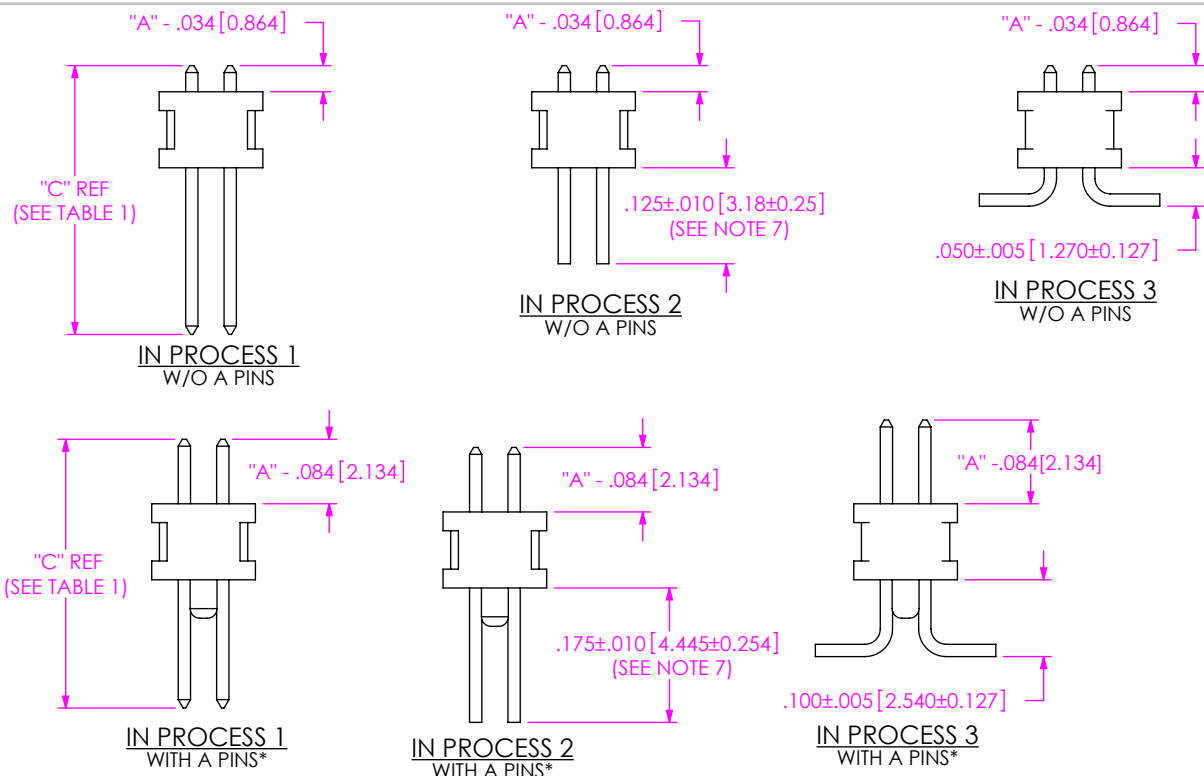


TABLE 2		
OPTION(S)	PACKAGING TUBE	TUBE PLUG
-ES, -ES-A, -NONE -A, -A-P	PT-FTSH002-DV-A-P-M	TP-03
-K-A-P, -K-P (-01 LEAD STYLE ONLY) -K-P (-04 LEAD STYLE ONLY) -K, -K-A (FOR -01 LEAD STYLE ONLY)	PT-FTSH007-DV-K-P	TP-09
-ES-P, -ES-A-P -EC, -EC-P, -EL-P -EP, -EP-A, EP-P, -EP-A-P -EPC, -EPC-D, -EPC-P -EL, -EL-A, -EL-A-P -P (ALL LEAD STYLES)	PT-FTSH004-DV-EX-A-P-M	TP-03
-EJ-K, -EJ-K-P -EJ-K-A, -EJ-K-A-P	PT-FTSH003-DV-EJC-K	TP-03
-EJ, -EJ-P, -EJ-A-P, -EJ-A, -EJM, -EJC	PT-FTSH006-DV-EJC-K-P	TP-03



* = FOR -01, -04, -05 AND -14 LEAD STYLES ONLY

IN-PROCESS VIEWS ARE FOR HANDFILL ONLY

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