

NOTES:

1. MINIMUM PUSHOUT FORCE TO BE 12 OZ RETENTION FOR CONTACTS AND WELD TABS.
2. COPLANARITY: .004[.10] = POS 02 THRU 26
.006[.15] = POS 27 THRU 50
3. NOTE DELETED.
4. Ⓞ REPRESENTS A CRITICAL DIMENSION.
5. [] DIMENSIONS ARE IN MILLIMETERS.
6. MEASURED FROM BEND.
7. DIMENSION CHANGED PER REVISION AD.
CONTACT ENGINEERING FOR INFORMATION.
8. SIDES OF PLASTIC BODIES ON ALL LEAD STYLES EXCEPT THE -01 & -02 WILL BE SOLID, NOT RIBBED.
9. MEASURE FROM TIPS OF PIN.
10. NOTE DELETED.
11. .003[.08] MAXIMUM TERMINAL BURR.
12. .005 MAXIMUM HEIGHT VARIATION BETWEEN ANY TWO PINS.
13. MINIMUM LOCKING CLIP RETENTION TO BE 8 OZS.
14. THIS FEATURE ONLY PRESENT ON -01 & -02 LEAD STYLES.
15. AVAILABLE IN -05, -07, -10, -15, -20, -25 & -30 POS. ONLY.
16. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, THE -LC OPTION IS NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE -LC OPTION.

DO NOT SCALE FROM THIS PRINT

TFM-1XX-XX-XXX-X-XXX

EC

- LEAD STYLE -01: (-02 THRU -50 ALL POSITIONS AVAILABLE)
LEAD STYLE -02: (-02 THRU -50 ALL POSITIONS AVAILABLE)
ALL OTHER LEAD STYLES: (-5 THRU -50 MULTIPLES OF 5)
LEAD STYLES -11, -12 POS 12, 16, 17 ALSO AVAILABLE
LEAD STYLES -21, -22, -31, -32 POS 12 AND 13 ALSO AVAILABLE

No OF POSITIONS

LEAD STYLE

- | THROUGH HOLE | SURFACE MOUNT |
|-----------------------|------------------|
| -01, -03 (SEE FIG. 1) | -02 (SEE FIG. 2) |
| -11, -13 (SEE FIG. 1) | -12 (SEE FIG. 2) |
| -21, -23 (SEE FIG. 1) | -22 (SEE FIG. 2) |
| -31 (SEE FIG. 1) | -32 (SEE FIG. 2) |

PLATING SPECIFICATION

- S: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
- L: LIGHT SELECTIVE, 15 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
- F: FLASH GOLD, 3 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
- H: HEAVY GOLD, 30 Au / 50 Ni MIN ON CONTACT, 3 Au / 50 Ni MIN ON TAIL
- SM: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
- LM: LIGHT SELECTIVE, 15 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
- FM: FLASH GOLD, 3 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
- STL: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, TIN/LEAD (90/10+/-5%) TAIL

BODY SPECIFICATION

- D: DOUBLE ROW

OPTION

- A: ALIGNMENT PIN (USE TFM-XX-D-XX-A, SEE TABLE 1) (SEE FIG. 8 SHEET 3) (NOT AVAILABLE FOR -RA OR -REX)
- LC: LOCKING CLIP (USE LC-05-TM) SEE NOTE 16 (NOT AVAILABLE FOR -RA OR -REX) (SEE FIG. 10 SHEET 3) (SEE NOTE 13)
- P: PICK AND PLACE PAD (USE PPP-04) (AVAILABLE IN ALL POSITIONS EXCEPT -05 WITH -WT) (NOT AVAILABLE FOR -RA OR -REX, SEE FIG. 7 SHEET 3)
- RA: RIGHT ANGLE (AVAILABLE ONLY IN LEAD STYLE: -01 SEE FIG. 5, SHEET 2)
- TR: TAPE AND REEL (SEE FIG. 4, SHEET 5)
- SA: STAKED ALIGNMENT PIN (SEE FIG. 9, SHEET 3) (NOT AVAILABLE FOR -RA OR -RE)
- K: POLYIMIDE FILM (SEE FIG. 3) (NOT AVAILABLE FOR -RA OR -REX)
- WT: WELD TABS (USE WT-25-XX-T) (AVAILABLE ON -01 AND -02 LEAD STYLES ONLY) (SEE FIG. 6 SHEET 2) (NOT AVAILABLE WITH -A, -LC, -RA, OR -SA OPTIONS)
- RE1: RIGHT ANGLE ELEVATED .062 PCB (USE TFM-XX-D-01-RE, NOT AVAILABLE WITHOUT -WT, AVAILABLE IN LEAD STYLE -01 ONLY, -05 THRU -50 POS) (SEE FIG. 11, SHEET 4) (SEE NOTE 15)
- RE2: RIGHT ANGLE ELEVATED .093 PCB (USE TFM-XX-D-01-RE, NOT AVAILABLE WITHOUT -WT, AVAILABLE IN LEAD STYLE -01 ONLY, -05 THRU -50 POS) (SEE FIG. 11, SHEET 4) (SEE NOTE 15)
- SN: SOLDER NAIL FOR .062 BOARD (TFM-XX-D-01-SN AND WT-27-01-T) (SEE FIG. 12, SHT 3) (ONLY AVAILABLE WITH -02 LEAD STYLE) (NOT AVAILABLE WITH OPTIONS -A, -LC, -RA, -SA, -WT, -RE1 OR -RE2)
- SN2: SOLDER NAIL FOR .093 BOARD (TFM-XX-D-01-SN AND WT-27-02-T) (SEE FIG. 12, SHT 3) (ONLY AVAILABLE WITH -02 LEAD STYLE) (NOT AVAILABLE WITH OPTIONS -A, -LC, -RA, -SA, -WT, -RE1 OR -RE2)

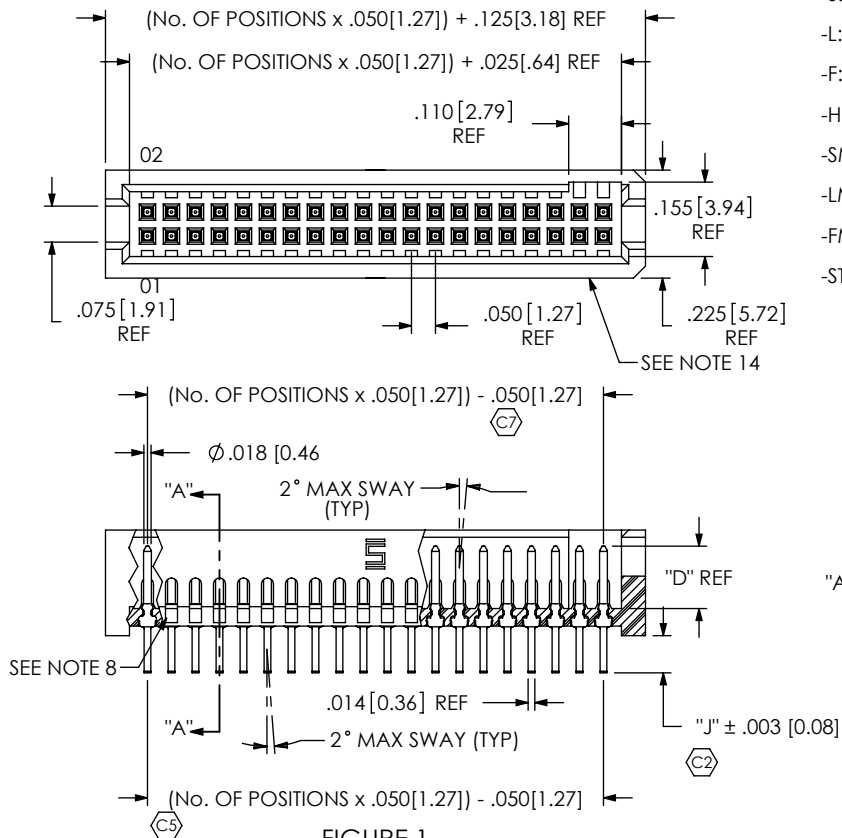
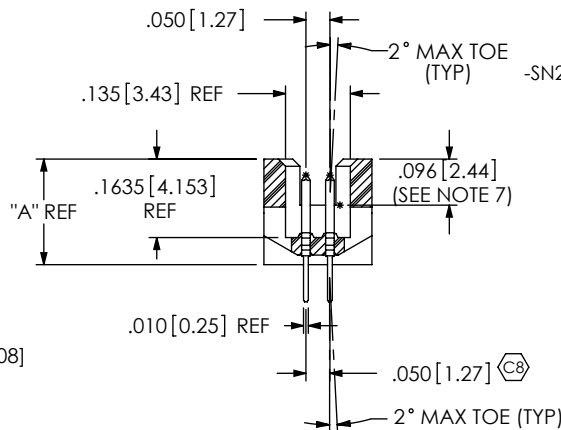
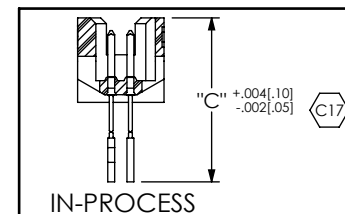


FIGURE 1 THROUGH HOLE -01, -03, -11, -13, -21, -23, -31



SECTION "A"- "A"



IN-PROCESS

LEAD STYLE	BODY	"A"	TERMINAL 1	TERMINAL 2	"C"	"D"	"E"	"J"
-01, -02	TFM-XX-D-01-XX	2200 [5.588]	T-1R16-01-XX-2	N/A	0.427 [10.85]	0.133 [3.38]	0.230 [5.84]	0.078 [1.97]
-11, -12	TFM-XX-D-02-XX	2900 [7.366]	T-1R20-03-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.300 [7.62]	0.078 [1.97]
-21, -22	TFM-XX-D-03-XX	3600 [9.144]	T-1R20-04-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.370 [9.40]	0.078 [1.97]
-31, -32	TFM-XX-D-04-XX	4850 [11.049]	T-1R20-02-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.446 [11.30]	0.078 [1.97]
-01-RA	TFM-XX-D-01-XX	2200 [5.588]	T-1R16-02-XX	T-1R16-03-XX	N/A	0.133 [3.38]	0.230 [5.84]	N/A N/A
-01-RE1	TFM-XX-D-01-RE	2400 [6.096]	T-1R16-06-XX	T-1R16-07-XX	N/A	0.138 [3.51]	N/A	N/A N/A
-01-RE2	TFM-XX-D-01-RE	2400 [6.096]	T-1R16-08-XX	T-1R16-09-XX	N/A	0.138 [3.51]	N/A	N/A N/A
-03	TFM-XX-D-01-XX	2200 [5.588]	T-1R16-10-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.230 [5.84]	0.109 [2.77]
-13	TFM-XX-D-02-XX	2900 [7.366]	T-1R20-05-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.300 [7.62]	0.109 [2.77]
-23	TFM-XX-D-03-XX	3600 [9.144]	T-1R20-06-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.370 [9.40]	0.109 [2.77]

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

DECIMALS ANGLES
.XX: ±.01 [.3] 2°
.XXX: ±.005 [.13]
.XXXX: ±.0020 [.051]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2.5:1

INSULATOR: LCP, UL 94-VO
COLOR: BLACK

TERMINAL: PHOSPHOR BRONZE

F:\DWG\MISC\MKTG\TFM-1XX-XX-XXX-X-XXX-MKT.SLDDRW

DESCRIPTION: .050 X .050 TERMINAL STRIP

DWG. NO. TFM-1XX-XX-XXX-X-XXX

BY: B RAY 7-10-2007 SHEET 1 OF 5



520 PARK EAST BLVD. NEW ALBANY, IN 47150
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FIGURE 2
SURFACE MOUNT
-02, -12, -22, -32
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1)

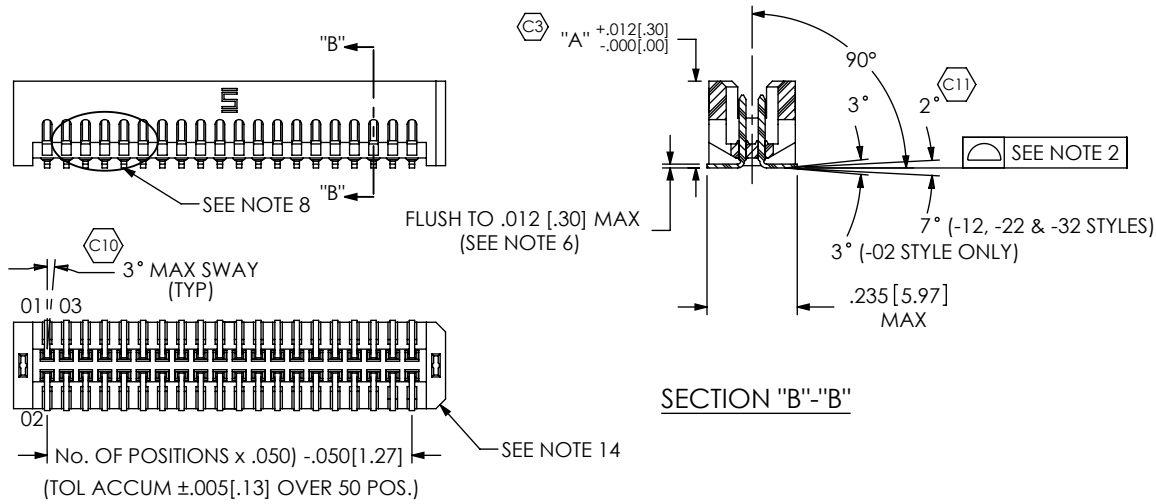


FIGURE 3
-K: POLYIMIDE FILM PAD

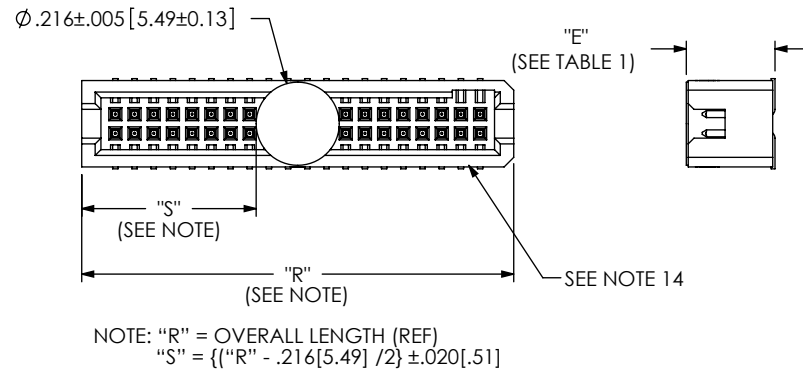


FIGURE 5
-RA OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

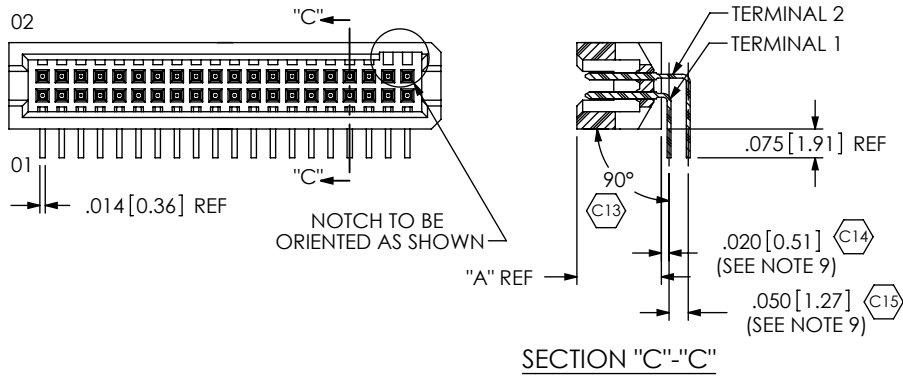
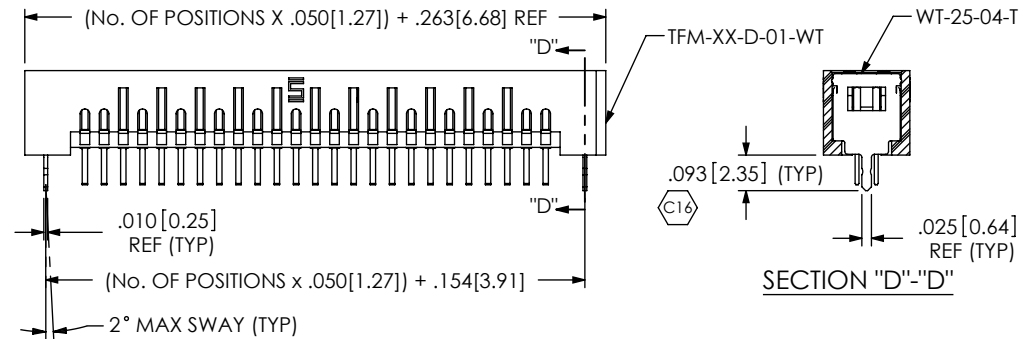
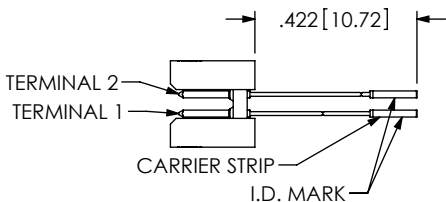


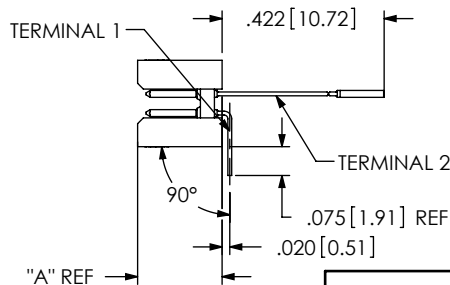
FIGURE 6
-WT OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1



IN-PROCESS 1
(ORIENT I.D. MARK AS SHOWN)
(FOR -RA OPTION ONLY)



IN-PROCESS 2



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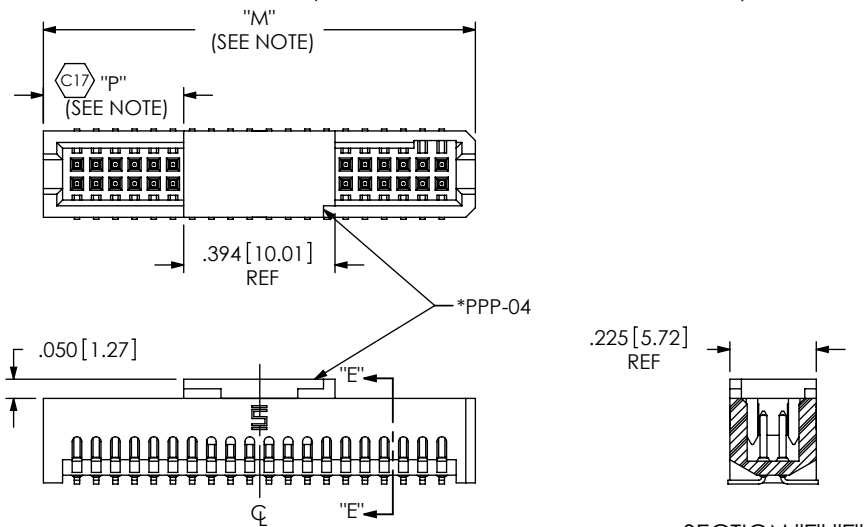
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DESCRIPTION: .050 X .050 TERMINAL STRIP
DWG. NO. TFM-1XX-XX-XXX-X-XXX
BY: B RAY 7-10-2007 SHEET 2 OF 5

FIGURE 7
-P OPTION

DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1
(PAD TO BE POSITIONED ON C.L. AS SHOWN)



NOTE: "M" = (No. OF POSITIONS X .050[1.27]) + .125[3.18] (REF)
WITH -WT "M" = (No. OF POSITIONS X .050[1.27]) + .263[6.68] (REF)
"P" = {("M" - .394[10.01]) / 2} ±.020[.51]

* NOTCH ON PAD TO BE ON SAME END AS THE NOTCH IN THE TFM BODY

SECTION "E"-E"

FIGURE 8
-A OPTION

DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

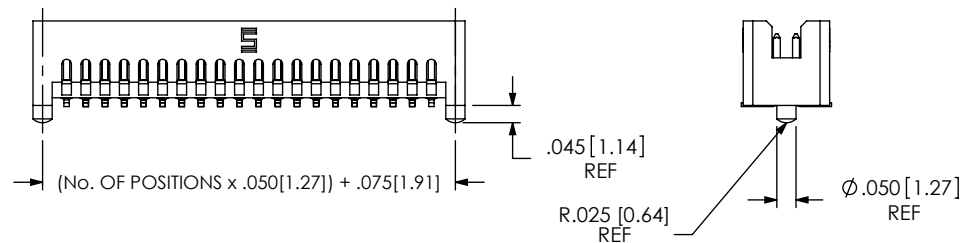


FIGURE 9

-SA OPTION: STAKED ALIGNMENT PIN
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

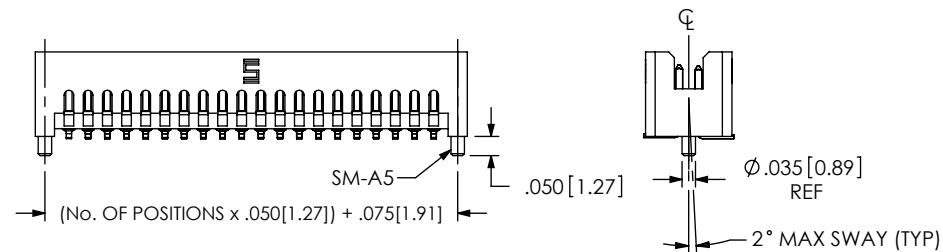


FIGURE 10
-LC OPTION

DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1
(NOT AVAILABLE ON -RA)

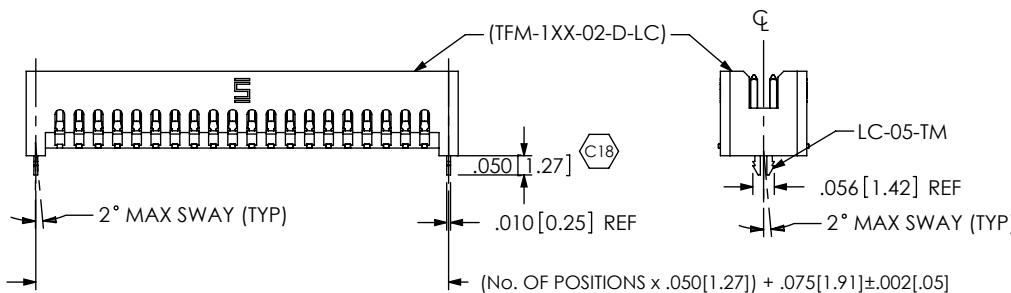


FIGURE 12

-SNX: SOLDER NAIL
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

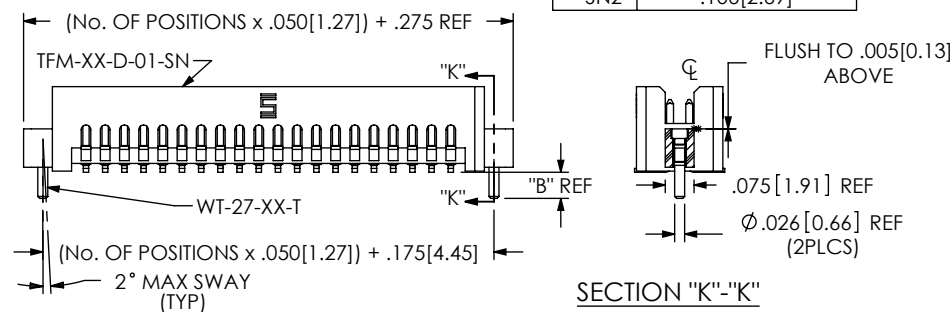


TABLE 4	
OPTION	"B"
-SN	.071 [1.80]
-SN2	.106 [2.69]

SECTION "K"-K"

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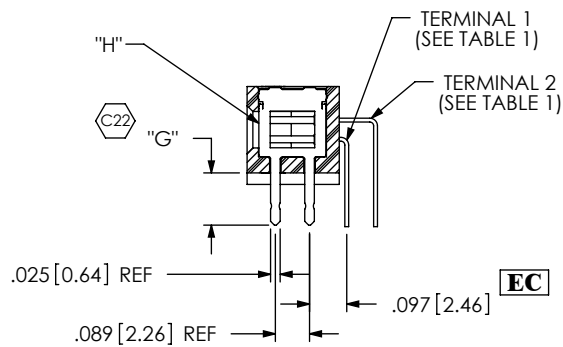
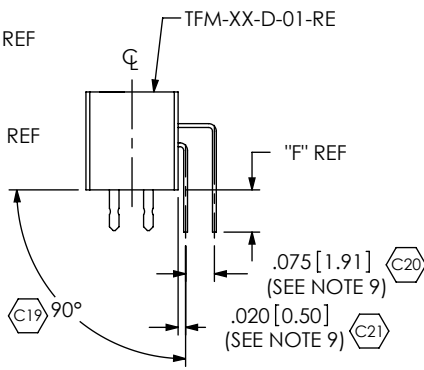
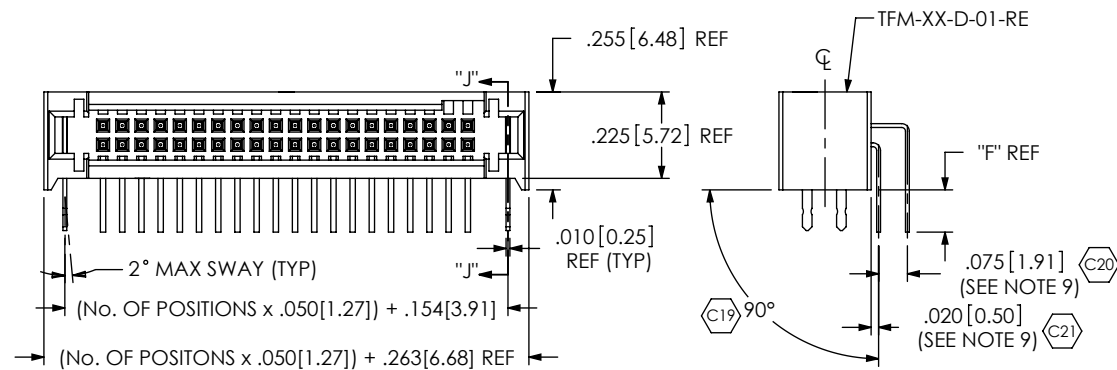
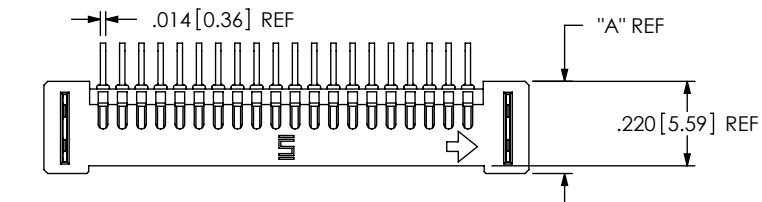
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DWG. NO.	TFM-1XX-XX-XXX-X-XXX
BY: B RAY	7-10-2007
	SHEET 3 OF 5

FIGURE 11
 -REX: RIGHT ANGLE ELEVATED
 TFM-120-XX-XXX-D-RE2 SHOWN
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

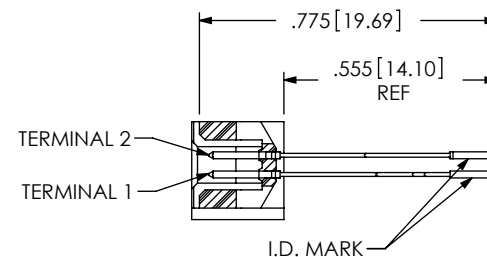


SECTION "J"-"J"

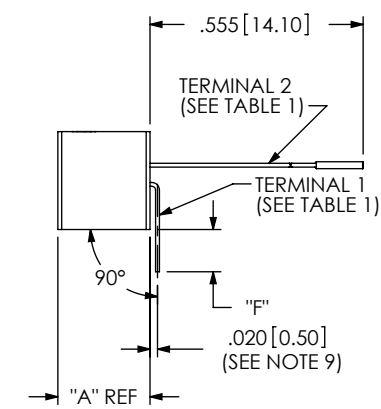
TABLE 3

LEAD STYLE	"F"	"G"	"H"
-01-RE1	.078 [1.98]	.074 [1.88]	WT-25-05-T
-01-RE2	.110 [2.79]	.106 [2.69]	WT-25-06-T

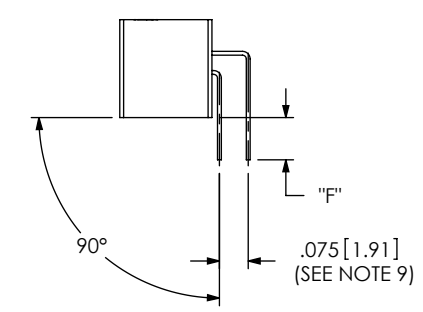
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IN-PROCESS 2



IN-PROCESS 3



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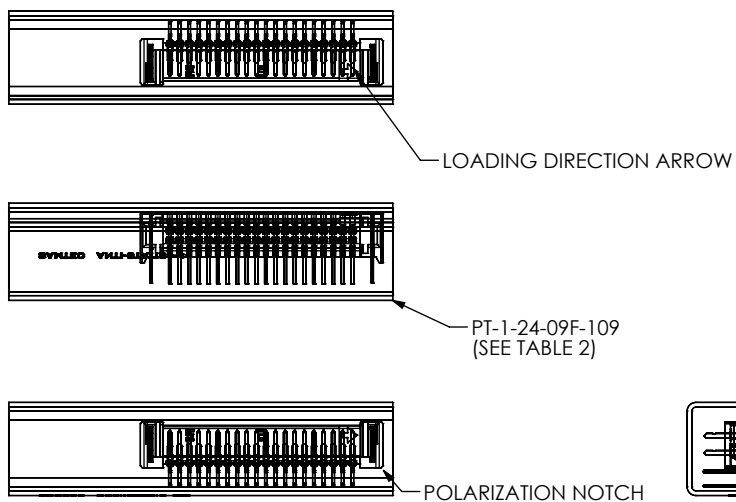
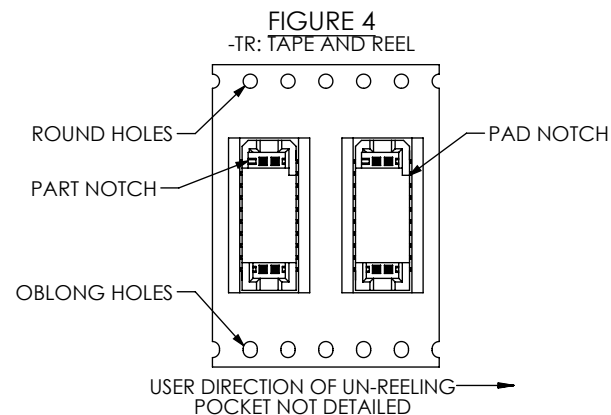
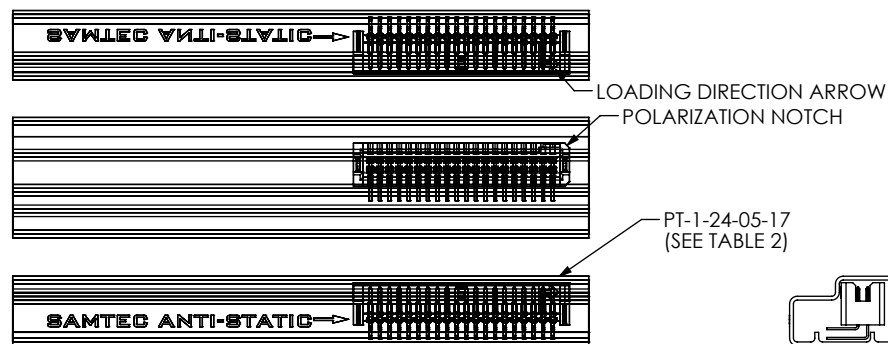
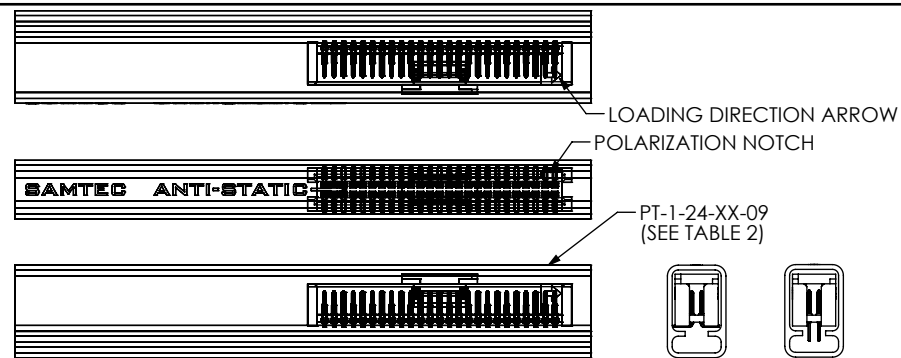
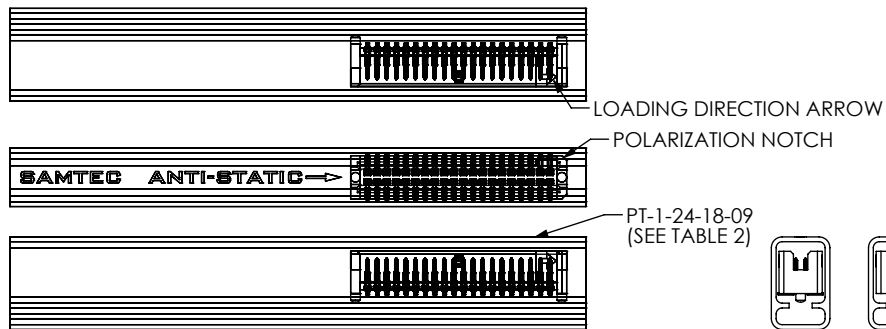


TABLE 2		
LEAD STYLE	PACKAGING TUBE	PLUG
-RA (ALL LEAD STYLES)	PT-1-24-5-17	TP-07
-REX	PT-1-24-09F-109	TP-29
-02, -02-A, -02-A-K, -02-LC	PT-1-24-01-09	TP-24
-12 (ALL OPTIONS), -22-K, -22, -22-A, -22-A-K, -22-LC, -22-LC-K	PT-1-24-04-09	TP-07
-02-A-P, -02-K, -02-LC-K, -02-LC-P, -02-P, -02-WT,A8	PT-1-24-18-09	TP-09
-01 (ALL OPTIONS), -11, -11-A, -11-LC, -11-K, -11-LC-K, -11-A-K		
-03 (ALL OPTIONS)		
-13, -13-A, -13-LC, -13-K, -13-LC-K, -13-A-K	PT-1-24-02-09	TP-07
-31-A-K, -31-A-P, -31-LC-P, -31-P, -32, -32-K, -32-A, -32-A-K, -32-A-P, -32-LC-K, -32-LC-P, -32-P, -32-LC		
-31, -21-P, -22-P, -31-LC, -21-A-P, -21-LC-P, -22-LC-P, -22-A-P, -31-A, -13-P, -13-LC-P, -13-A-P, -21, -23, -23-P, -23-A-P, -11-P, -11-LC-P, -11-A-P, -21-K, -21-A, -21-LC, -21-A-K, -21-LC-K, -23-K, -23-A, -23-A-K, -23-LC, -23-LC-K	PT-1-24-05-09	TP-07
	PT-1-24-20-09	TP-07

NOTE:
PARTS TO BE PACKAGED WITH THE LOADING DIRECTION ARROW POINTED IN SAME DIRECTION AS THE ARROW ON TUBE.

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.050 X .050 TERMINAL STRIP

DWG. NO. TFM-1XX-XX-XXX-X-XXX

BY: B RAY 7-10-2007 SHEET 5 OF 5