

NOTES:

- ⊕ REPRESENTS A CRITICAL DIMENSION.
- MINIMUM PUSHOUT FORCE FOR CONTACTS, WELD TABS AND THREADED INSERTS: 12 OZ.
- MINIMUM LOCKING CLIP RETENTION: 8 OZS.
- MAXIMUM HEIGHT VARIATION BETWEEN ANY TWO PINS: .005[0.13]
- MAXIMUM TERMINAL BURR: .003[0.08]
- COPLANARITY: .004[0.10] = POS 02 THRU 26
.006[0.15] = POS 27 THRU 50 ⊕
- MEASURED FROM BEND.
- DIMENSION CHANGED PER REVISION AD. CONTACT ENGINEERING FOR INFORMATION.
- MEASURE FROM TIPS OF PIN.
- THIS FEATURE ONLY PRESENT ON -01 & -02 LEAD STYLES.
- 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.
- SIDES OF PLASTIC BODIES ON ALL LEAD STYLES EXCEPT THE -01 & -02 WILL BE SOLID, NOT RIBBED.

DO NOT SCALE FROM THIS PRINT

TFM-1XX-XX-XXX-D-XXX

No OF POSITIONS	
LEAD STYLE -01, -02, -03: -02 THRU -50 [ALL POSITIONS AVAILABLE]	
LEAD STYLES -11, -12, -13: (-05 THRU -50 MULTIPLES OF 5) POSITIONS 12, 16, 17 ALSO AVAILABLE	
LEAD STYLES -21, 22, 23: (-05 THRU -50 MULTIPLES OF 5) POSITIONS 12 & 13 ALSO AVAILABLE	
LEAD STYLES 31, 32: 12 POSITION ALSO AVAILABLE	

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)

- OPTION
- A: ALIGNMENT PIN (USE TFM-XX-D-XX-A, SEE TABLE 1) (SEE FIG 8, SHT 3) (NOT AVAILABLE FOR -RA OR -REX)
 - LC: LOCKING CLIP (USE LC-05-TM) (NOT AVAILABLE FOR -RA OR -REX) (SEE FIG 10, SHT 3 & NOTES 3 & 11)
 - P: PICK AND PLACE PAD (USE PPP-04) (AVAILABLE IN ALL POSITIONS -05 THRU -50 EXCEPT -05 WITH -WT) (NOT AVAILABLE FOR -RA OR -REX, SEE FIG 7, SHT 3)
 - RA: RIGHT ANGLE (AVAILABLE ONLY IN LEAD STYLE: -01 (SEE FIG 5, SHT 2))
 - TR: TAPE AND REEL (SEE FIG 4, SHT 5) (NOT AVAILABLE WITH -DS OPTION)
 - SA: STAKED ALIGNMENT PIN (SEE FIG 9, SHT 3) (NOT AVAILABLE FOR -RA OR -RE)
 - K: POLYIMIDE FILM (SEE FIG 3, SHT 2) (NOT AVAILABLE FOR -RA OR -REX) (ALL LEAD STYLES EXCEPT -21 AVAILABLE)
 - WT: WELD TABS (USE WT-25-XX-T) (AVAILABLE ON -01, -02 & -03 LEAD STYLES ONLY) (SEE FIG 6, SHT 2) (MATES WITH SFSS/SFSD -SR & -DR ONLY) (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, -03 THRU -50 POS) (MATES WITH SFSS/SFSD -SR & -DR ONLY) (SEE FIG 11, SHT 4)
 - RE2: RIGHT ANGLE ELEVATED .093 PCB (USE TFM-XX-D-01-RE, NOT AVAILABLE WITHOUT -WT, AVAILABLE IN LEAD STYLE -01 ONLY, -03 THRU -50 POS) (MATES WITH SFSS/SFSD -SR & -DR ONLY) (SEE FIG 11, SHEET 4)
 - SN: SOLDER NAIL FOR .062 BOARD (TFM-XX-D-01-SN AND WT-27-01-T) (SEE FIG12, 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 FIG12, SHT 3) (ONLY AVAILABLE WITH -02 LEAD STYLE) (NOT AVAILABLE WITH OPTIONS -A, -LC, -RA, -SA, -WT, -RE1 OR -RE2)
 - DS: DUAL SCREW DOWN FOR .062 BOARD (SEE FIG 17, SHT 5) (ONLY AVAILABLE WITH -01 & -02 LEAD STYLE, 02 THRU 40 POSITIONS) (NOT AVAILABLE WITH OPTIONS -A, -LC, -P, -RA, -TR, -SA, -K, -WT, -RE1, -RE2, -SN, -SN2) (-01 LEAD STYLE USES TFM-XX-D-01-DSL & T1-M2-4-VSFM-T, 02 LEAD STYLE USES TFM-XX-D-01-DSA & T1-M2-4-VSFM-T)

- PLATING SPECIFICATION
- S: 30μ" SELECTIVE GOLD ON CONTACT AREA, MATTE TIN TAIL
 - L: 15μ" SELECTIVE GOLD ON CONTACT AREA, MATTE TIN TAIL
 - F: 3μ" FLASH GOLD ON CONTACT AREA, MATTE TIN TAIL
 - H: 30μ" SELECTIVE GOLD ON CONTACT AREA, 3μ" FLASH GOLD ON TAIL
 - SM: 30μ" SELECTIVE GOLD ON CONTACT AREA, MATTE TIN TAIL
 - LM: 15μ" SELECTIVE GOLD ON CONTACT AREA, MATTE TIN TAIL
 - FM: 3μ" FLASH GOLD ON CONTACT AREA, MATTE TIN TAIL
 - STL: 30μ" SELECTIVE GOLD ON CONTACT AREA, TIN/LEAD (90/10 ±5%) TAIL

BODY SPECIFICATION
-D: DOUBLE ROW

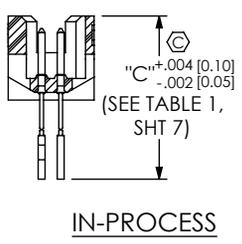
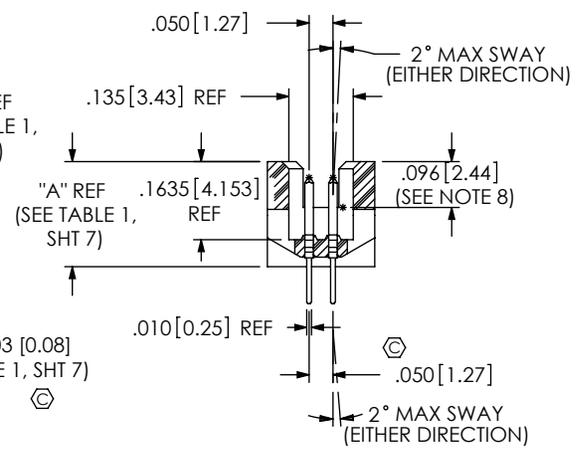
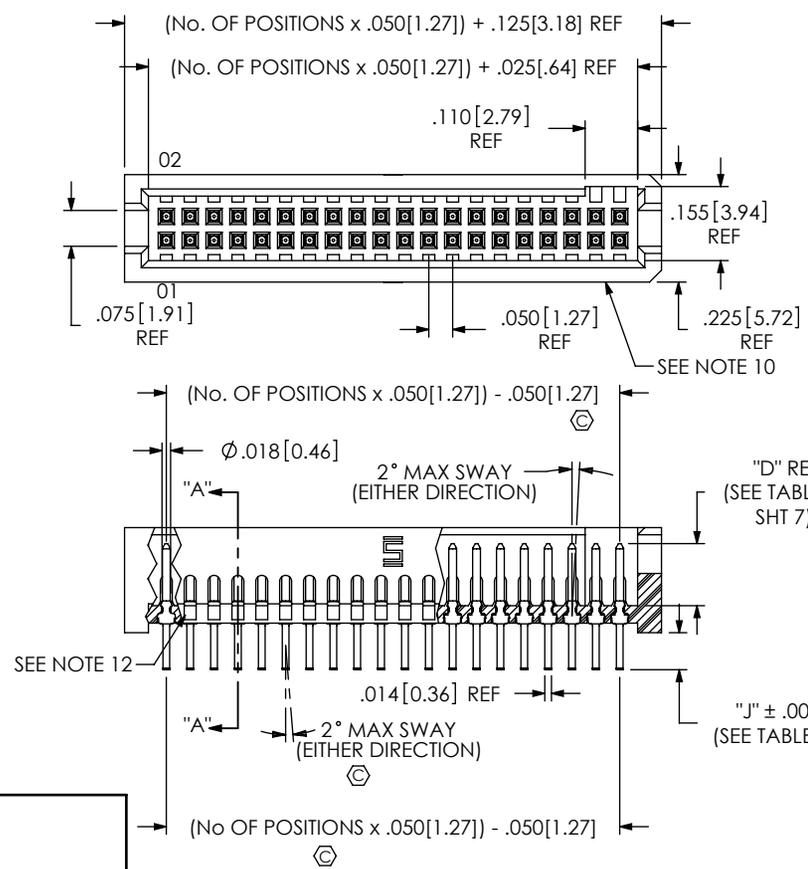


FIG 1 THROUGH HOLE -01, -03, -11, -13, -21, -23, -31

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX: ±.01 [.3] .XXX: ±.005 [.13] .XXXX: ±.0020 [.051]	PROPRIETARY NOTE THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL AND PROPRIETARY TO SAMTEC, INC. AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE OTHER THAN THAT WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF SAMTEC, INC.	DESCRIPTION: .050 X .050 TERMINAL STRIP	
		DWG. NO. TFM-1XX-XX-XXX-D-XXX	
MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2.5:1		BY: B RAY 7-10-2007 SHEET 1 OF 7	

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REVISION EK

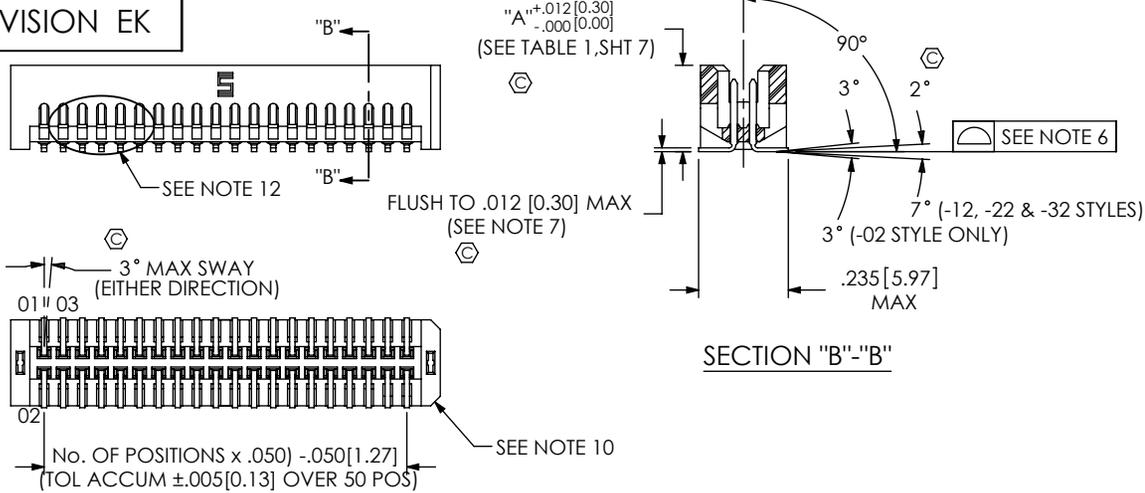
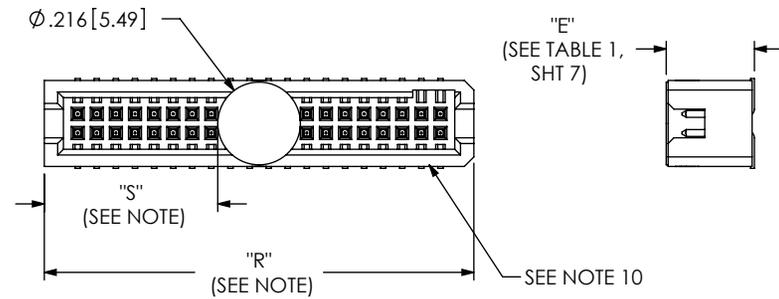


FIG 2
SURFACE MOUNT
-02, -12, -22, -32
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1



NOTE: "R" = OVERALL LENGTH (REF)
"S" = {"R" - .216 [5.49] / 2} ±.020 [0.51]

FIG 3
-K: POLYIMIDE FILM PAD

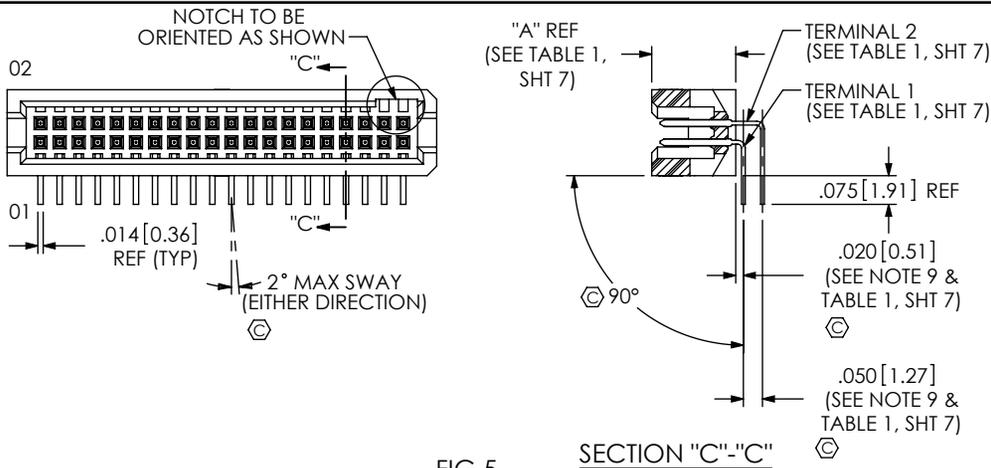


FIG 5
-RA OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

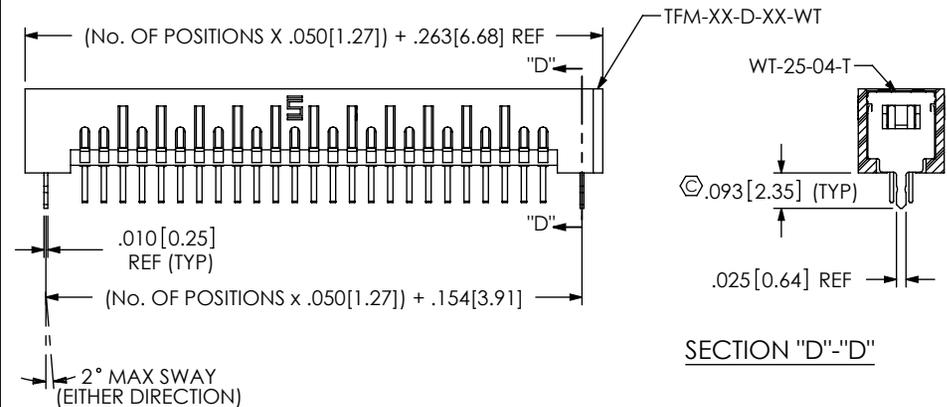
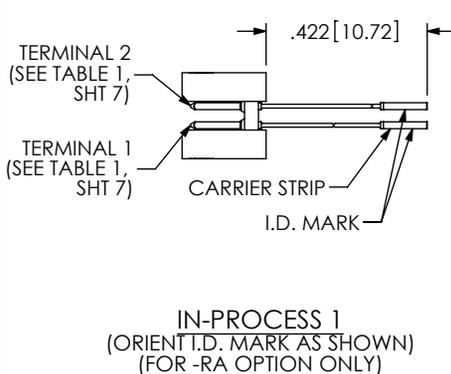
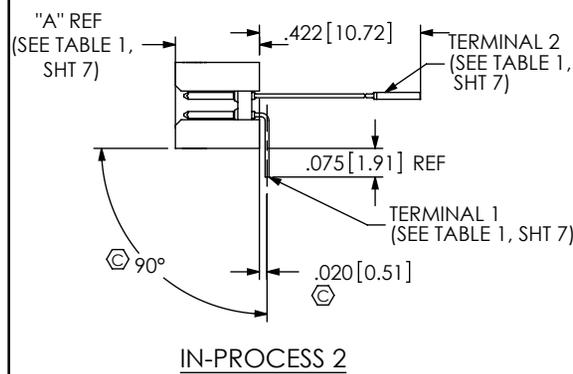


FIG 6
-WT OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

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



IN-PROCESS 2

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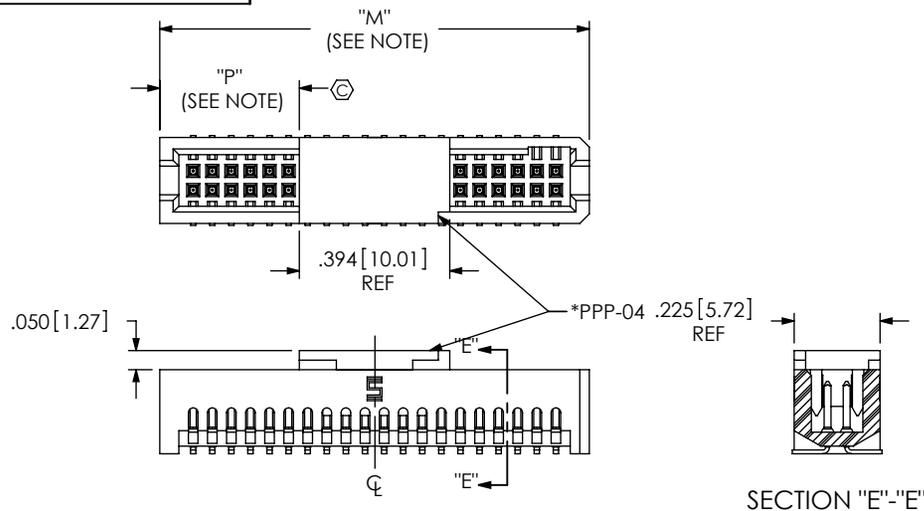
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520 PARK EAST BLVD., NEW ALBANY, IN 47150
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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:
.050 X .050 TERMINAL STRIP

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

BY: B RAY 7-10-2007 SHEET 2 OF 7



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

FIG 7
 -P OPTION
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1
 (PAD TO BE POSITIONED ON C.L. AS SHOWN)

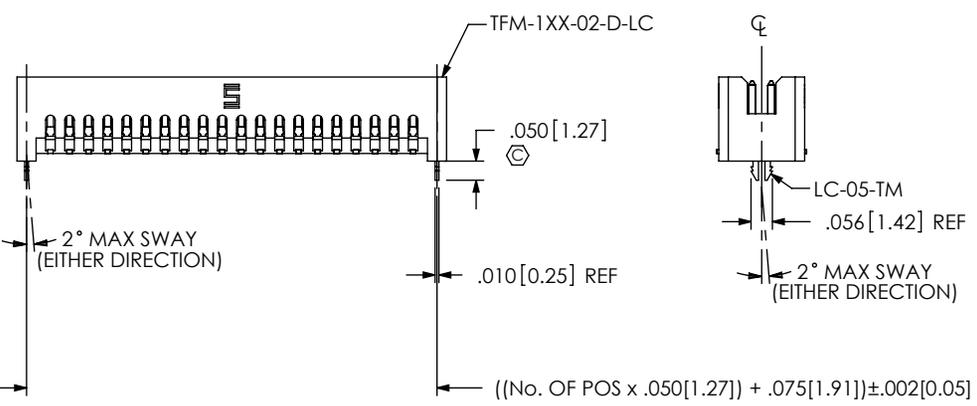


FIG 10
 -LC OPTION
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1
 (NOT AVAILBLE ON -RA)

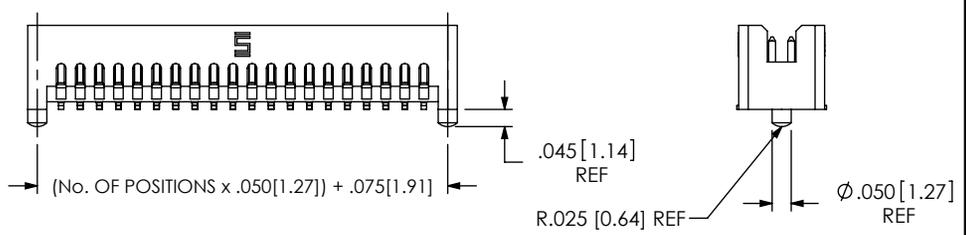


FIG 8
 -A OPTION
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

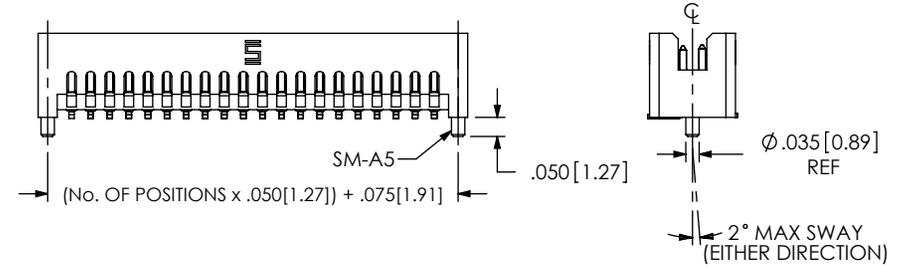


FIG 9
 -SA OPTION: STAKED ALIGNMENT PIN
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

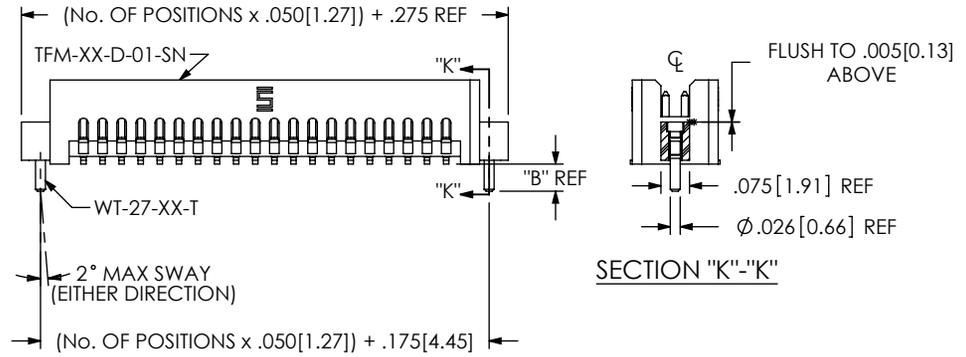


FIGURE 12
 -SNX: SOLDER NAIL
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

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

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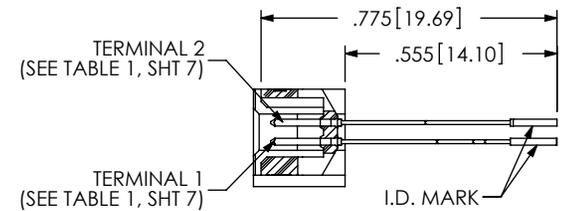
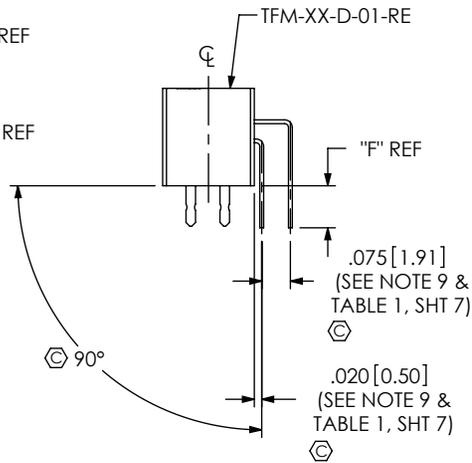
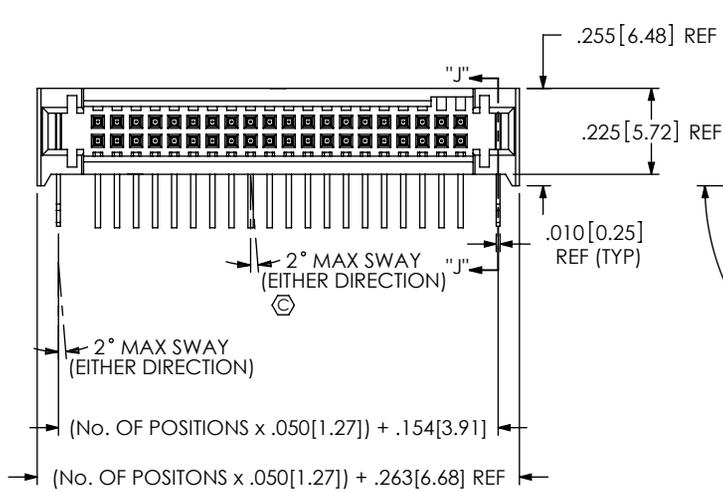
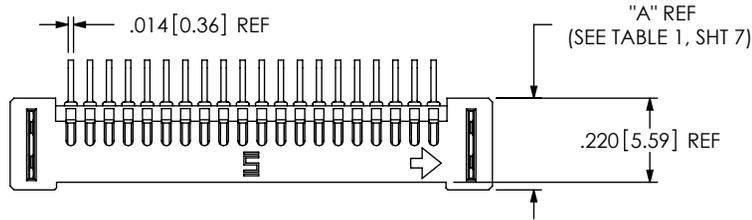


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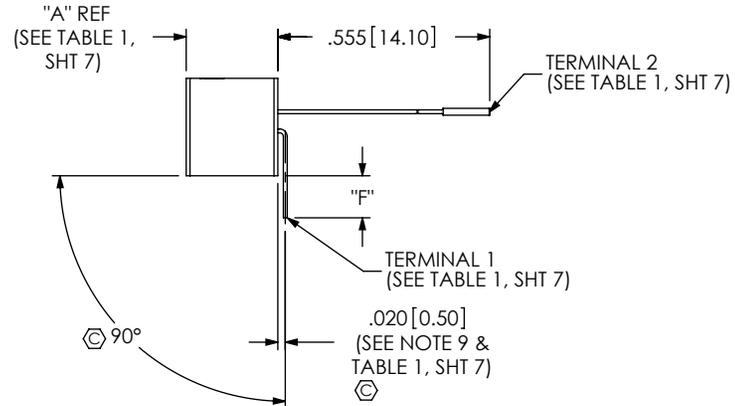
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 .050 X .050 TERMINAL STRIP

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

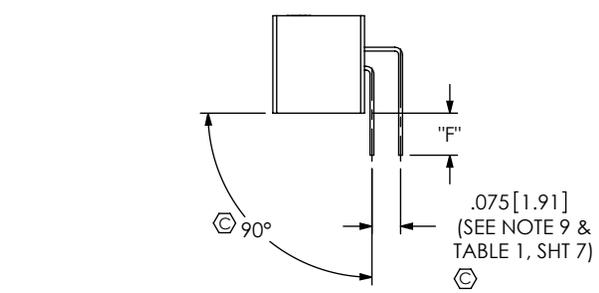
BY: B RAY 7-10-2007 SHEET 3 OF 7



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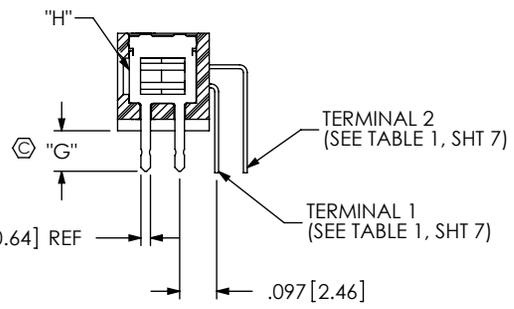


IN-PROCESS 2



IN-PROCESS 3

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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

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

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.050 X .050 TERMINAL STRIP
DWG. NO.
TFM-1XX-XX-XXX-D-XXX
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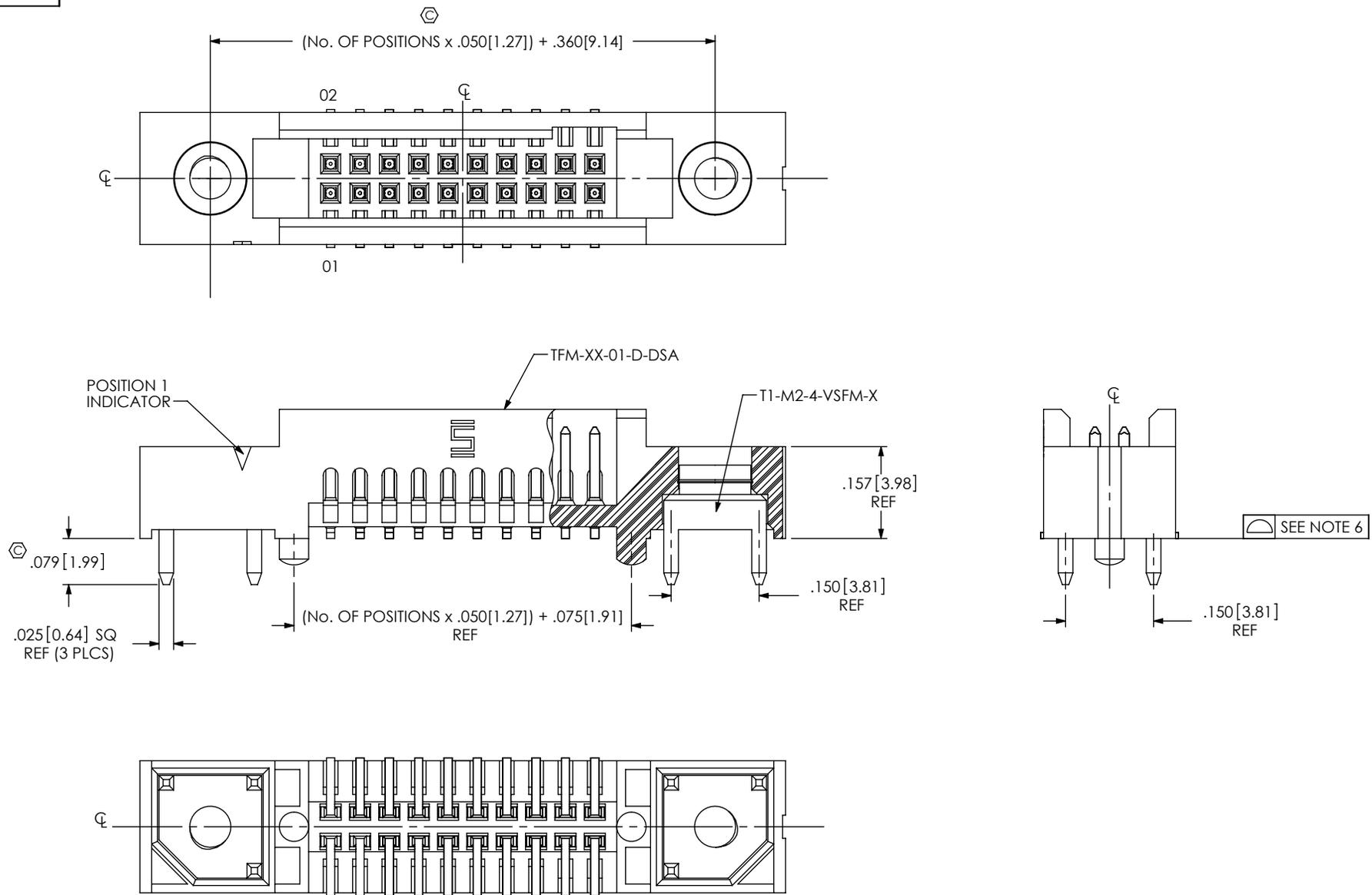


FIG 17
 -DS: DUAL SCREW DOWN
 TFM-110-02-XXX-D-DS SHOWN
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

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

PARTS TO BE PACKAGED IN TUBES AS SHOWN

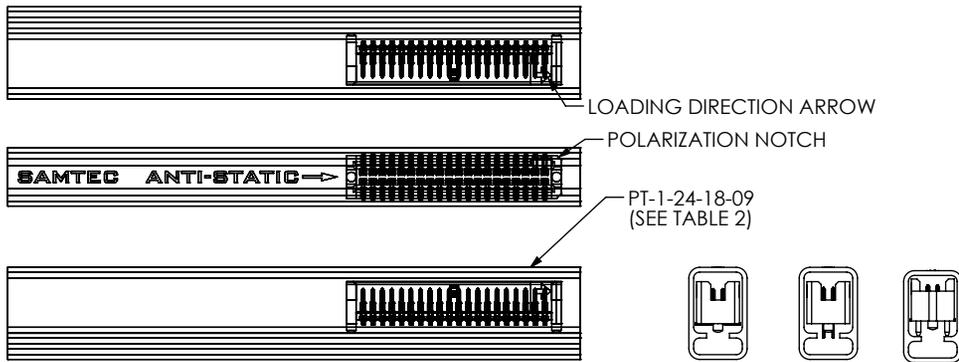


FIG 13
PT-T-24-18-09

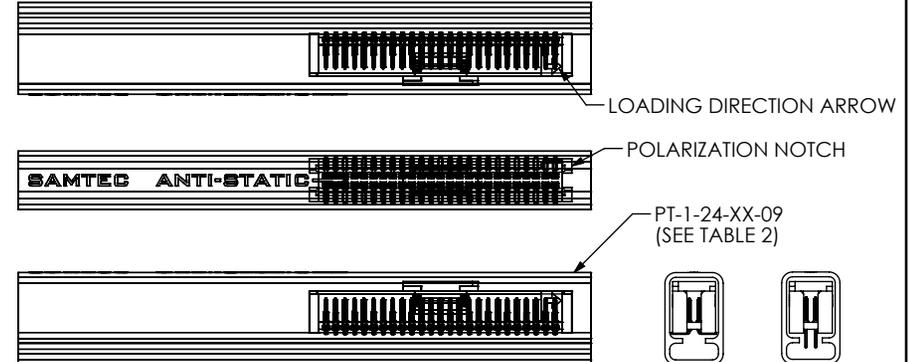


FIG 14
PT-T-24-XX-09

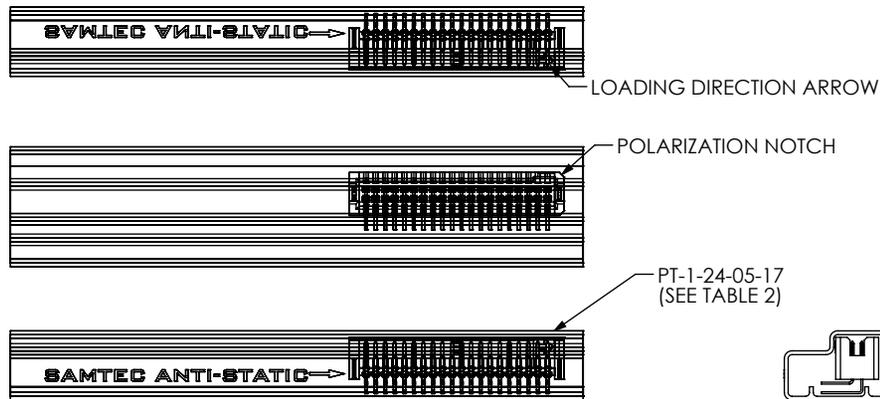


FIG 15
PT-T-24-05-17

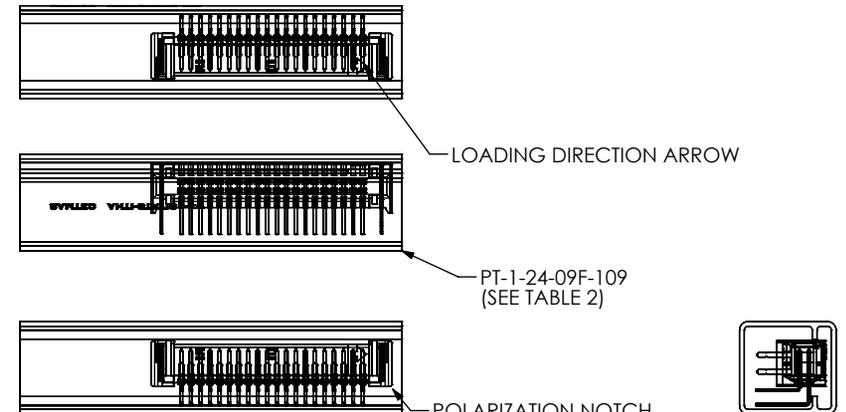


FIG 16
PT-T-24-09F-109

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, -02-WT-K		
-01 (ALL OPTIONS), -11, -11-A, -11-LC, -11-K, -11-LC-K, -11-A-K		
-03 (ALL OPTIONS)	PT-1-24-18-09	TP-09
-13, -13-A, -13-LC, -13-K, -13-LC-K, -13-A-K		
-01-DS, -02-DS		
-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	PT-1-24-02-09	TP-07
-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-D-XXX

BY: B RAY 7-10-2007 SHEET 6 OF 7

TABLE 1								
LEAD STYLE	BODY	"A"	TERMINAL 1	TERMINAL 2	"C"	"D"	"E"	"J"
-01	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	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	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	TFM-XX-D-04-XX	.4350 [11.049]	T-1R20-02-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.445 [11.30]	0.078 [1.97]
-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]	N/A
-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]	N/A
-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]	N/A
-32	TFM-XX-D-04-XX	.4350 [11.049]	T-1R20-02-XX	N/A	0.644 [16.36]	0.141 [3.58]	0.445 [11.30]	N/A
-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
-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
-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
-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]

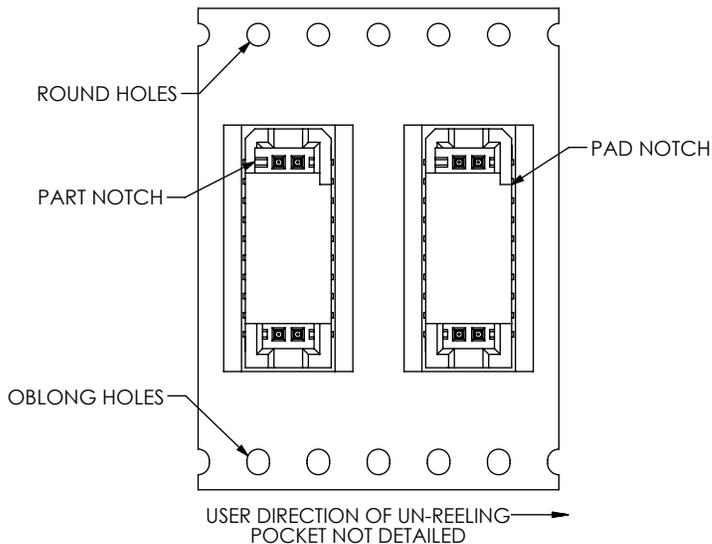


FIG 4
-TR: TAPE AND REEL

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