

- ⊕ 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 & -03 WILL BE SOLID AND WITHOUT SIDE SLOTS.
- VOIDS AT KEYING NOTCH LOCATION MAY BE BLIND AT VENDOR'S DISCRETION FOR -01, -02 & -03 LEAD STYLES.

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)

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

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) (USE K-DOT-.217-.313-.005) (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 18, 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)

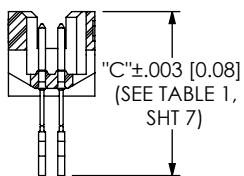
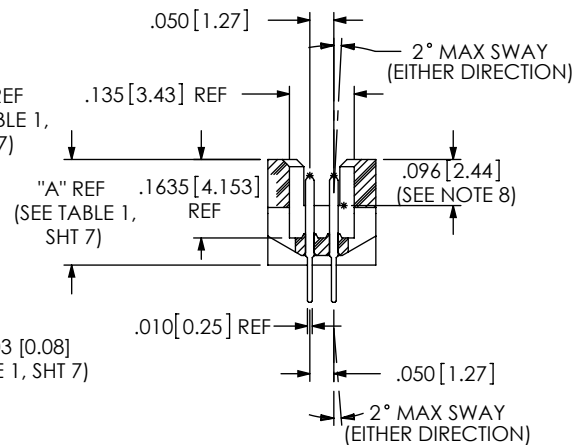
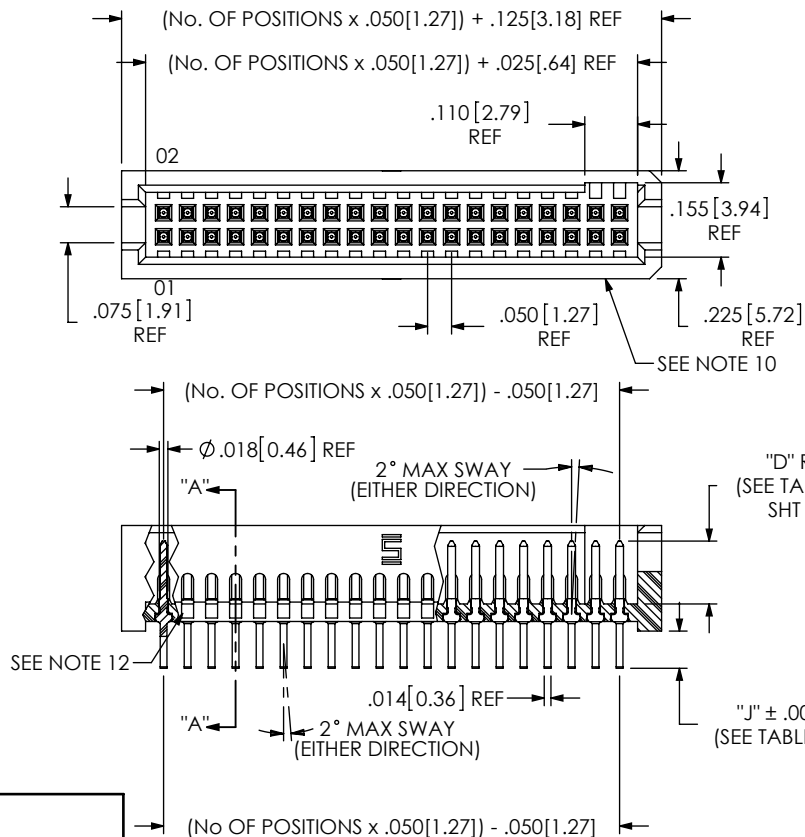


FIG 1 THROUGH HOLE -01, -03, -11, -13, -21, -23, -31

IN-PROCESS

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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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: 2.5:1  
INSULATOR: LCP, UL 94-VO COLOR: BLACK  
TERMINAL: PHOSPHOR BRONZE

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

REVISION ET

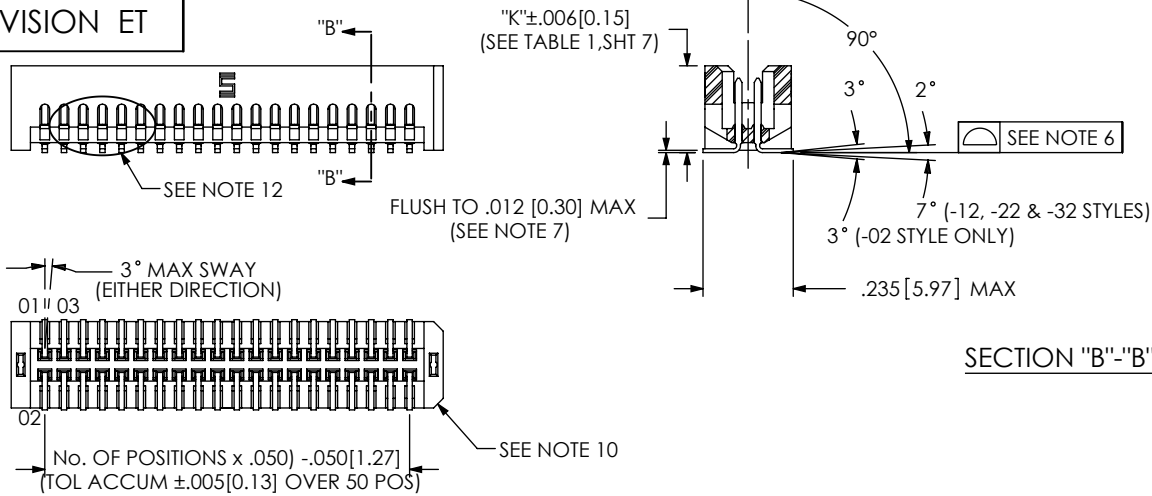
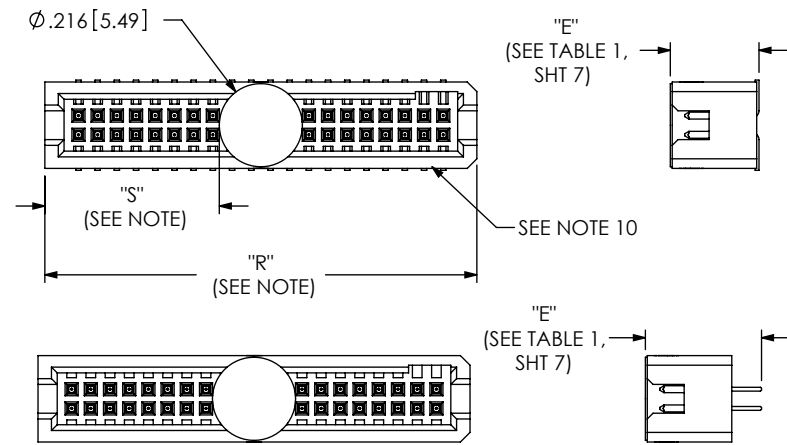


FIG 2  
SURFACE MOUNT  
-02, -12, -22, -32  
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1



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

FIG 3  
-K: POLYIMIDE FILM PAD

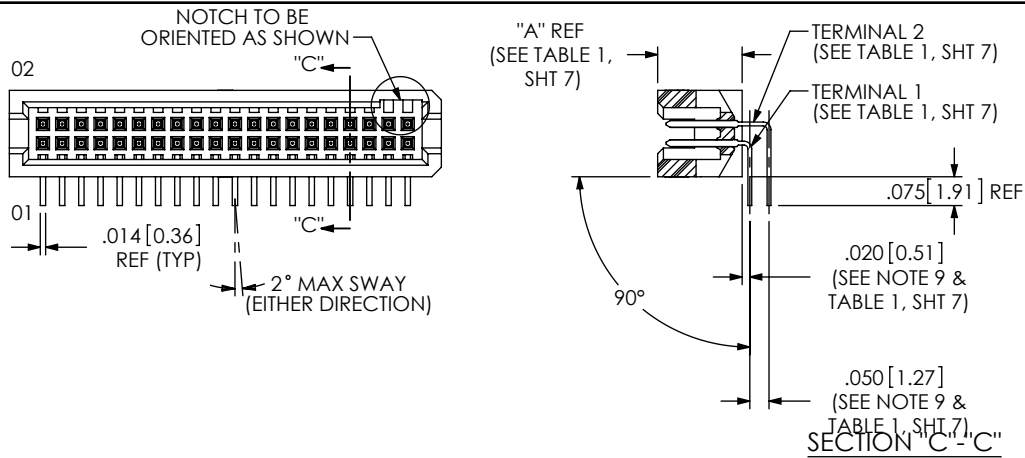


FIG 5  
-RA OPTION  
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

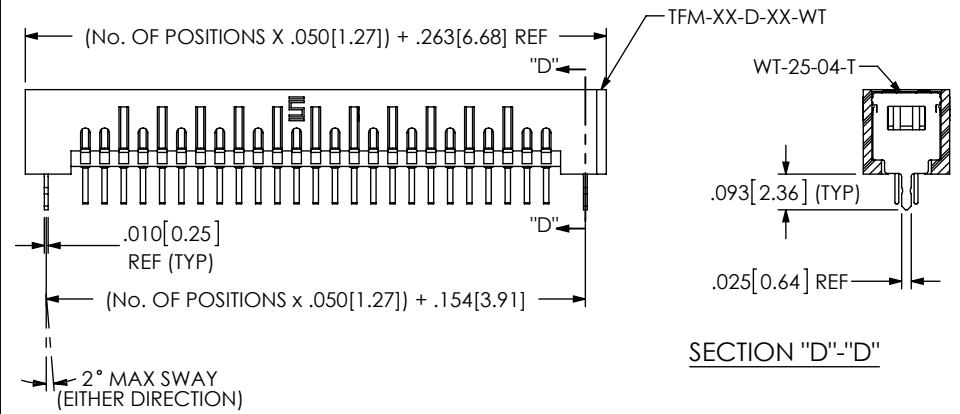
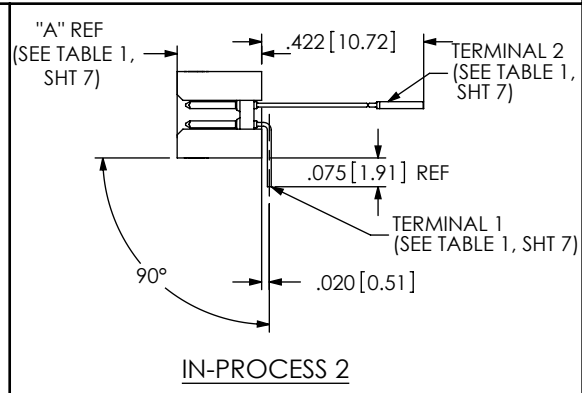
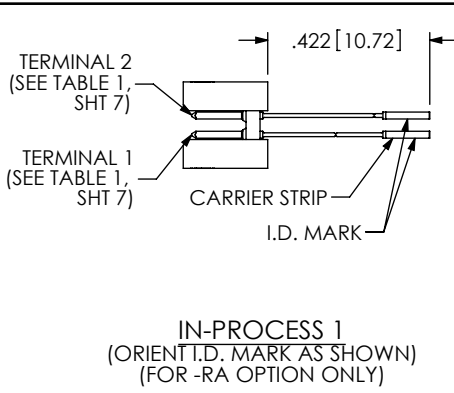
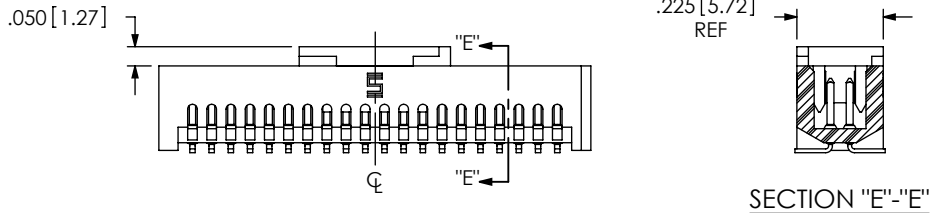
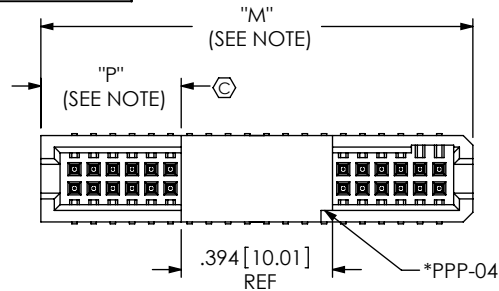


FIG 6  
-WT OPTION  
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

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	<p>DESCRIPTION:</p> <p>.050 X .050 TERMINAL STRIP</p>	
	<p>DWG. NO.</p> <p>TFM-1XX-XX-XXX-D-XXX</p>	
	<p>BY: B RAY</p>	<p>7-10-2007</p>



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)

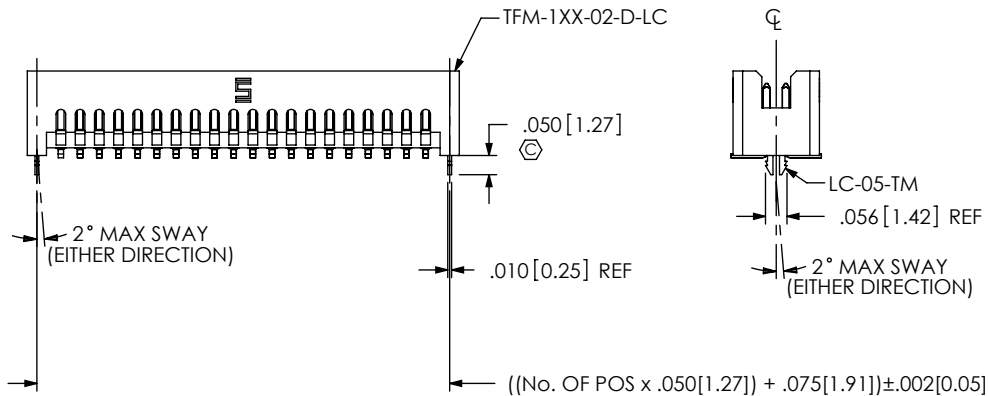


FIG 10  
 -LC OPTION  
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1  
 (NOT AVAILBLE ON -RA)

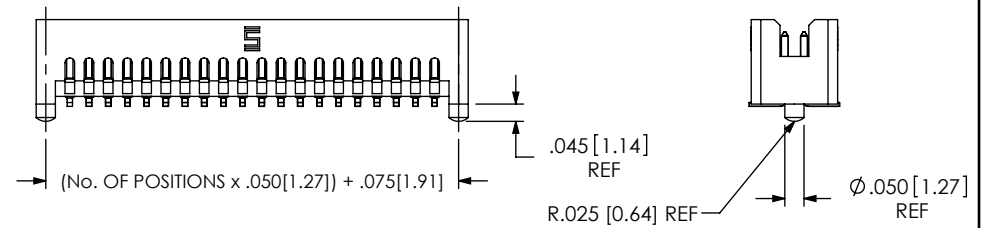


FIG 8  
 -A OPTION  
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

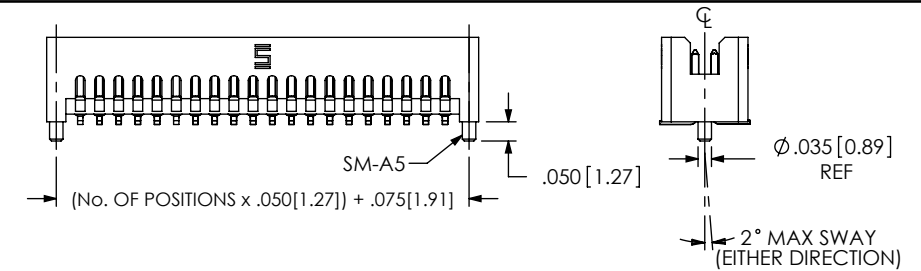


FIG 9  
 -SA OPTION: STAKED ALIGNMENT PIN  
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

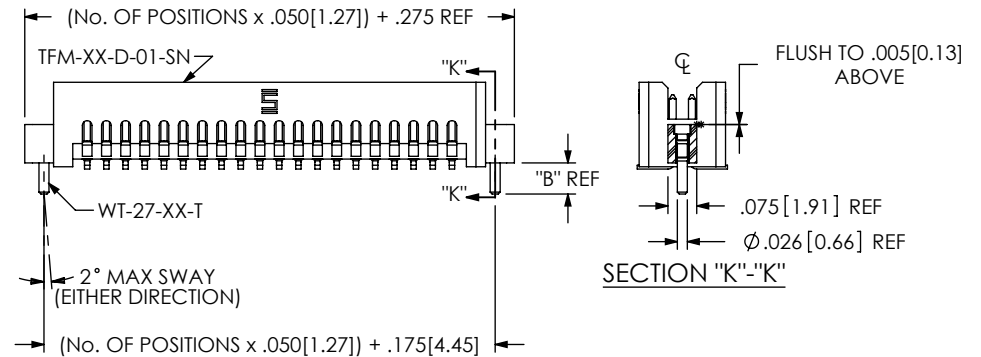


FIGURE 12  
 -SNX: SOLDER NAIL  
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

TABLE 4	
OPTION	"B"
-SN	.081 2.06
-SN2	.115 2.92

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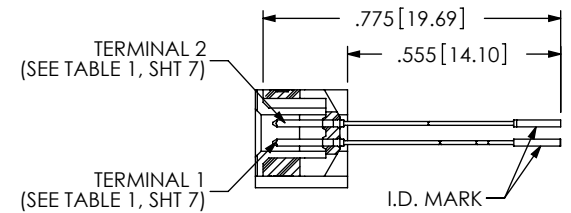
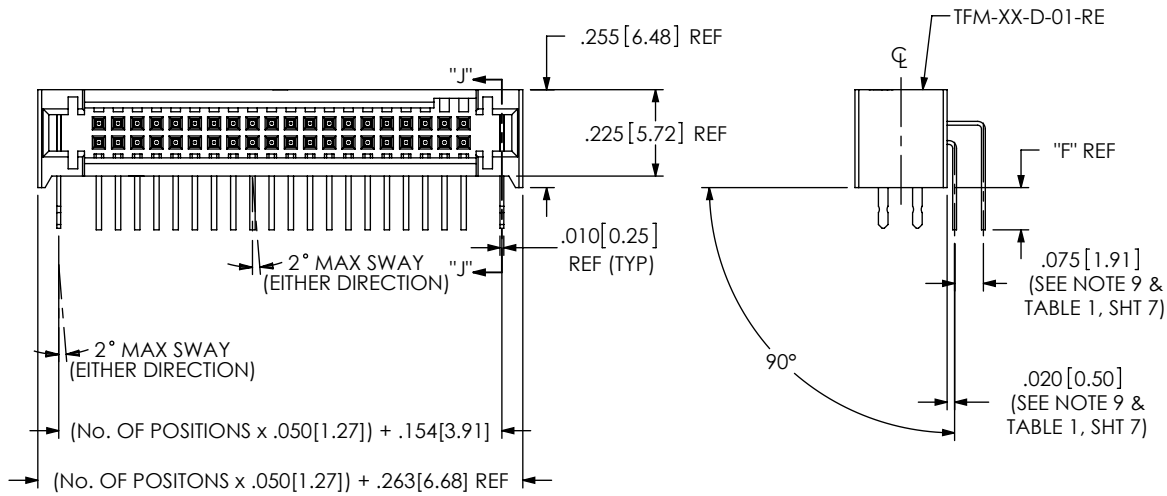
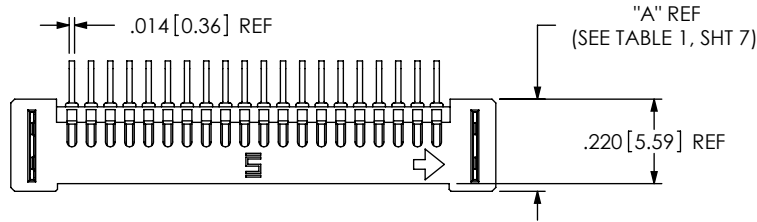
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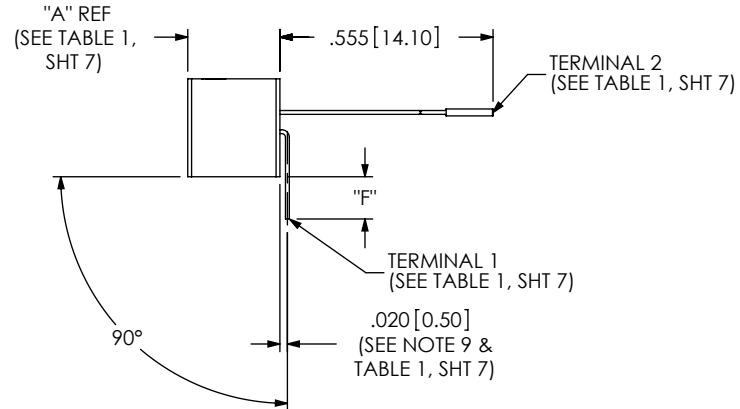
DESCRIPTION:  
 .050 X .050 TERMINAL STRIP

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

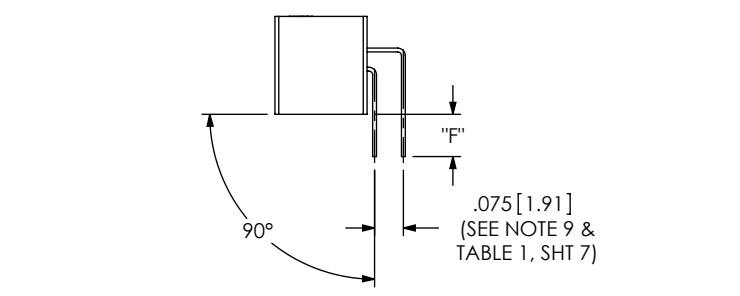
BY: B RAY 7-10-2007 SHEET 3 OF 7



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

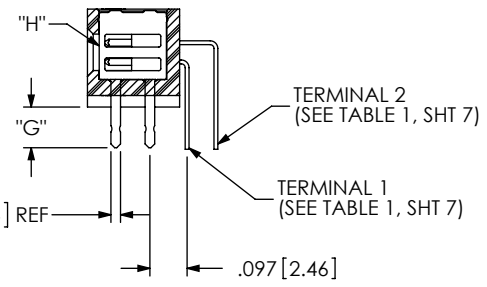


IN-PROCESS 2



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-81-01-T
-01-RE2	.110 [2.79]	.106 [2.69]	WT-81-02-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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SHEET SCALE: 2:1

DESCRIPTION:  
.050 X .050 TERMINAL STRIP  
DWG. NO.  
TFM-1XX-XX-XXX-D-XXX  
BY: B RAY 7-10-2007 SHEET 4 OF 7

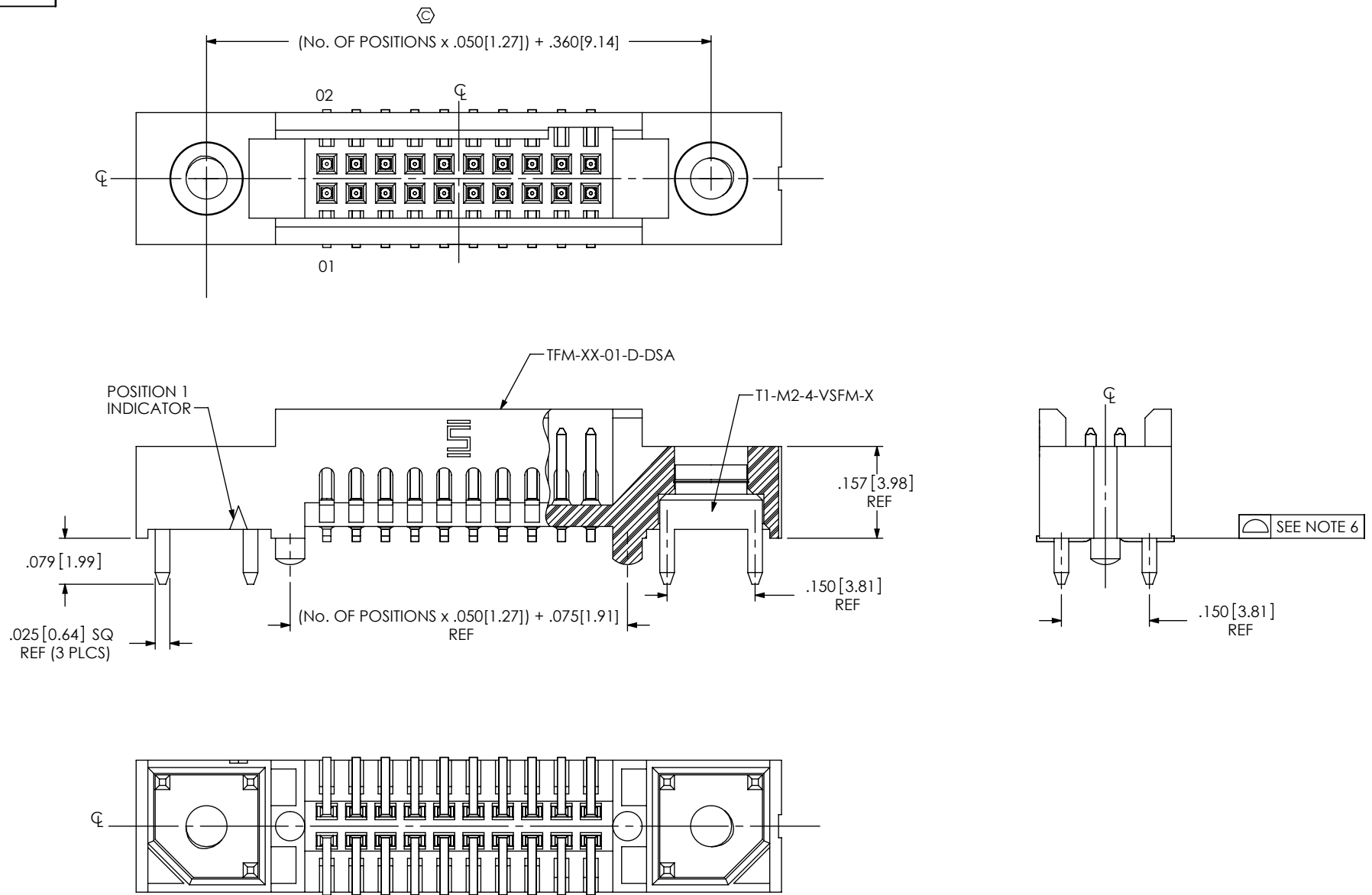



FIG 18  
 -DS: DUAL SCREW DOWN  
 TFM-110-02-XXX-D-DS SHOWN  
 DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

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	<p>DESCRIPTION:                  .050 X .050 TERMINAL STRIP</p>	
	<p>DWG. NO.                  TFM-1XX-XX-XXX-D-XXX</p>	<p>BY: B RAY</p>
		<p>SHEET 5 OF 7</p>