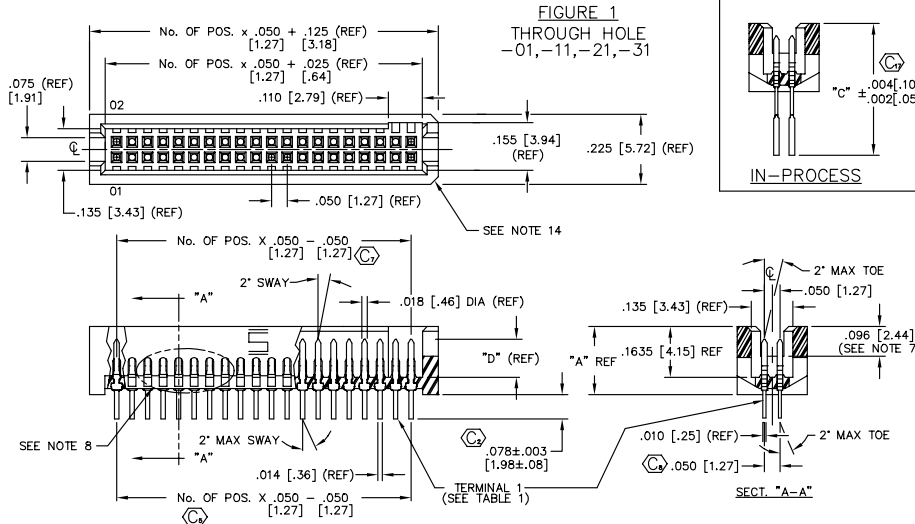


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DO NOT SCALE PRINT

FIGURE 1
THROUGH HOLE
-01, -11, -21, -31

UNLESS OTHERWISE NOTED TOLERANCES ARE:
 DIMENSIONS ARE IN INCHES
 ONE PLACE DECIMALS ±1 [2.54]
 TWO PLACE DECIMALS ±.01 [2.54]
 THREE PLACE DECIMALS ±.005 [1.27]
 FOUR PLACE DECIMALS ±.0020 [0.05]
 ANGLES ±2°

TITLE: .050 x .050 TERMINAL STRIP
 DWG NO: TFM-1XX-XX-XXX-X-XX
 SHEET 1 OF 3

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

NO. OF POSITIONS
 LEAD STYLE -01: (-5 THRU -50 ALL POSITIONS AVAILABLE)
 LEAD STYLE -02: (-5 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 & 13 ALSO AVAILABLE

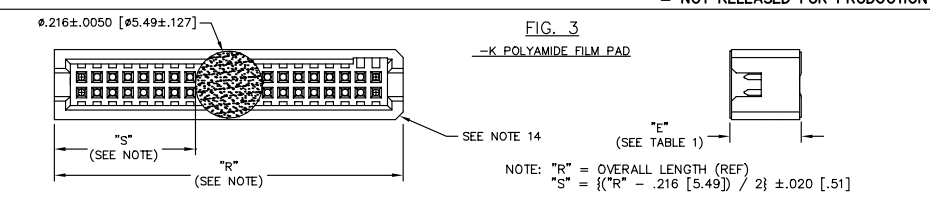
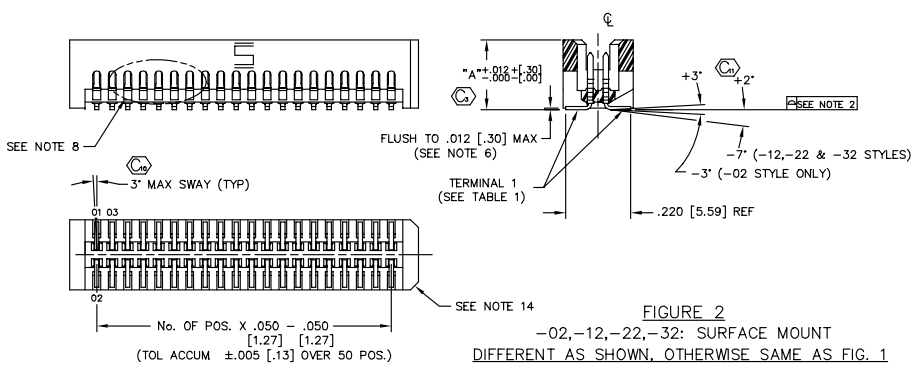
LEAD STYLE
 THROUGH HOLE SURFACE MOUNT
 -01: (SEE FIG. 1) -02: (SEE FIG. 2)
 -11: (SEE FIG. 1) -12: (SEE FIG. 2)
 -21: (SEE FIG. 1) -22: (SEE FIG. 2)
 -31: (SEE FIG. 1) -32: (SEE FIG. 2)
 (SEE TABLE 1)

PLATING SPECIFICATION
 -S: SELECTIVE
 -L: LIGHT SELECTIVE
 -F: FLASHED GOLD
 -P: GOLD FLASHED PALLADIUM NICKEL
 -G: GOLD
 -H: HEAVY GOLD
 -SM: SELECTIVE HEAVY GOLD, MATTE TIN TAIL
 -LM: SELECTIVE LIGHT GOLD, MATTE TIN TAIL
 -FM: FLASH SELECTIVE GOLD, MATTE TIN TAIL
 -STL: SELECTIVE TIN LEAD

OPTIONS
 -A: ALIGNMENT PIN (USE TFM-XX-D-XX-A, SEE TABLE 1) (SEE FIG. 8, SHEET 2) (NOT AVAILABLE FOR -RA)
 -LC: LOCKING CLIP (USE LC-05-TM) (NOT AVAILABLE WITH -RA OPTION) (SEE FIG. 10, SHEET 2) (SEE NOTE 13)
 -P: PICK AND PLACE PAD (USE PPP-04) (AVAILABLE IN ALL POSITIONS) (NOT AVAILABLE WITH -RA OPTION, SEE FIG. 7, SHEET 2)
 -RA: RIGHT ANGLE (AVAILABLE ONLY IN LEAD STYLE: -01, SEE FIG. 5, SHEET 2)
 -TR: TAPE AND REEL (SEE FIG. 4)
 -SA: STAKED ALIGNMENT PIN (SEE FIG. 9, SHEET 2) (NOT AVAILABLE FOR -RA)
 -K: POLYAMIDE FILM (SEE FIG. 3)
 * -WT: WELD TABS (USE WT-25-04-T) (AVAILABLE ON -01 & -02 LEAD STYLES ONLY) (SEE FIG. 6, SHEET 2) (AVAILABLE ON -05, -07, -10, -15, -20, -25, & -30 POS ONLY) (AVAILABLE WITH -L & -S PLATING ONLY) (NOT AVAILABLE WITH -A, -LC, -RA, OR -SA OPTIONS)

BODY SPECIFICATION
 -D: DOUBLE ROW

* = NOT RELEASED FOR PRODUCTION



- NOTES:
 1. MINIMUM PUSHOUT FORCE TO BE 12 OUNCES.
 2. COPLANARITY: .004 [10]=POS 02 THRU 26
 .006 [15]=POS 27 THRU 50
 3. MANUFACTURING IN PROCESS DIMENSION DESIGNED TO ACHIEVE FINISHED ASSEMBLY.
 4. Ⓢ REPRESENTS 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 LEADSTYLES EXCEPT THE -01 & -02 WILL BE SOLID AND NOT RIBBED.
 9. MEASURE FROM TIPS OF PIN.
 10. NOTE DELETED.
 11. .003 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.

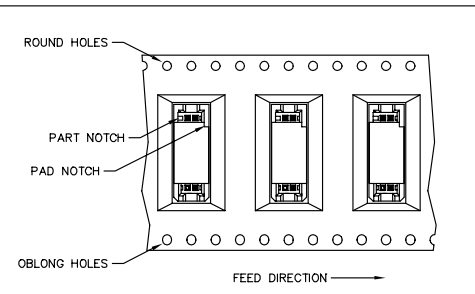


TABLE 1

LEAD STYLE	BODY	"A"	TERMINAL 1	"B"	TERMINAL 2	"c"	"D"	"E"
-01, -02	TFM-XX-D-01-X	.2200 [5.588]	T-1R16-01-XXX-2	.015 [3.8]	-----	.427 ± .004 [10.85 ± .10]	.133 [3.38]	.230 [5.84]
			T-1R16-01-XXX-2					
-11, -12	TFM-XX-D-02-X	.2900 [7.366]	T-1R20-03-XXX	.030 [7.6]	-----	.644 ± .004 [16.36 ± .10]	.130 [3.30]	.300 [7.62]
-21, -22	TFM-XX-D-03-X	.3600 [9.144]	T-1R20-04-XXX	.100 [2.54]	-----	.644 ± .004 [16.36 ± .10]	.130 [3.30]	.370 [2.00]
-31, -32	TFM-XX-D-04-X	.4350 [11.049]	T-1R20-02-XXX	.175 [4.45]	-----	.644 ± .004 [16.36 ± .10]	.130 [3.30]	.445 [11.30]
-01-RA	TFM-XX-D-01-X	.2200 [5.588]	T-1R16-02-XXX	.035 [7.6]	T-1R16-03-XXX	-----	.133 [3.38]	.230 [5.84]

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MATERIAL:
 INSULATOR:
 LIQUID CRYSTAL POLYMER
 COLOR: BLACK

TERMINAL:
 PHOSPHOR BRONZE

FIG. 4
 -TR TAPE AND REEL

EXISPROD/ASSEMBLY/050
 TFM-ASM

samtec

520 PARK EAST BLVD., NEW ALBANY, INDIANA 47150
 PHONE (812) 344-4733, P.O. BOX 1147
 CODE 55322

MADE BY: KOLB 12-8-89
 CHECKED BY: MCCARTIN

APPROVAL:
 D.E.M.

TFM-1XX-XX-XXX-X-XX
 SHEET 1 OF 3

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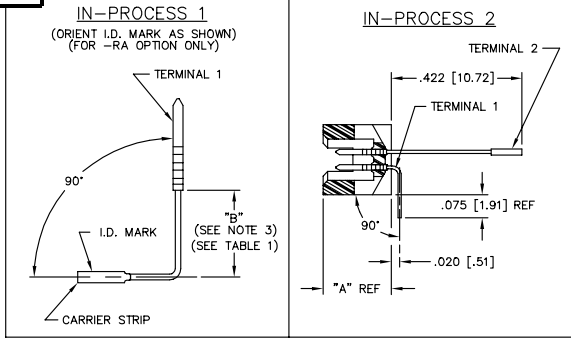
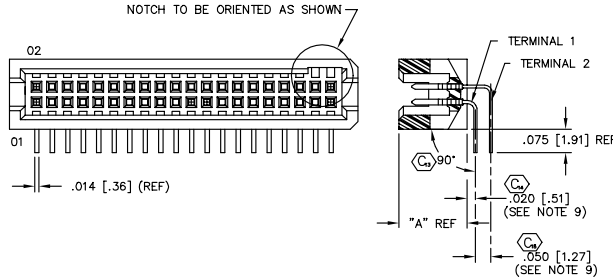


FIG. 5
-RA OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1



UNLESS OTHERWISE NOTED TOLERANCES ARE:
ONE PLACE DECIMALS ±.1 [2.54] THREE PLACE DECIMALS ±.005 [.13] ANGLES ±2°
TWO PLACE DECIMALS ±.01 [.25] FOUR PLACE DECIMALS ±.0020 [.05]

TITLE: .050 x .050 TERMINAL STRIP

DWG NO: TFM-1XX-XX-XXX-X-XX SHEET 2 OF 3

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

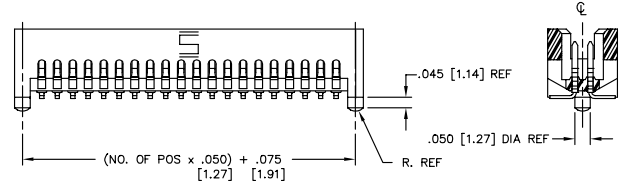


FIG. 6
*-WT OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

* = NOT RELEASED FOR PRODUCTION

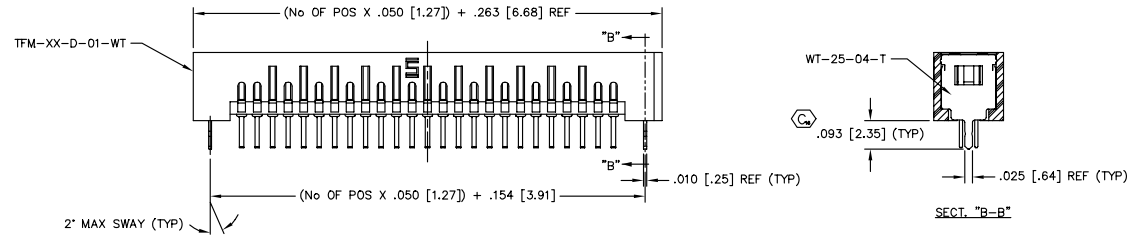


FIG. 9
-SA OPTION: STAKED AL PIN
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

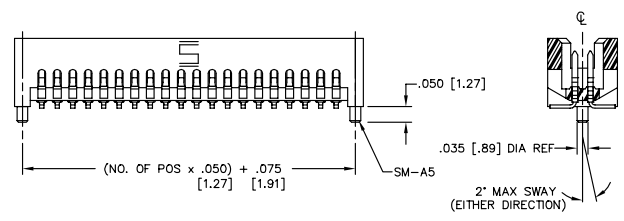


FIG. 7
-P OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1

* NOTCH ON PAD FOR 10 POSITION OR LESS TO BE ON THE SAME END AS THE NOTCH IN THE TFM BODY

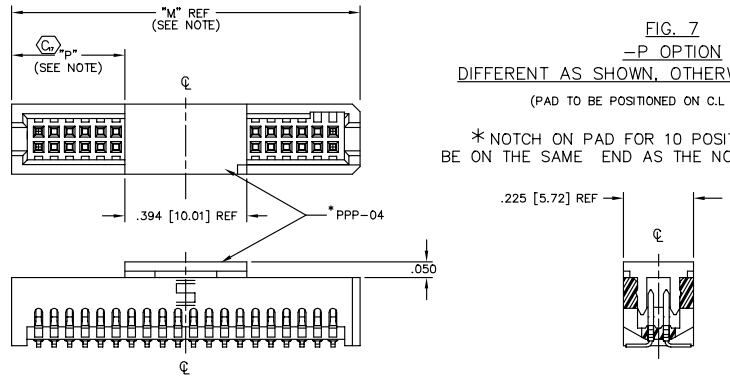
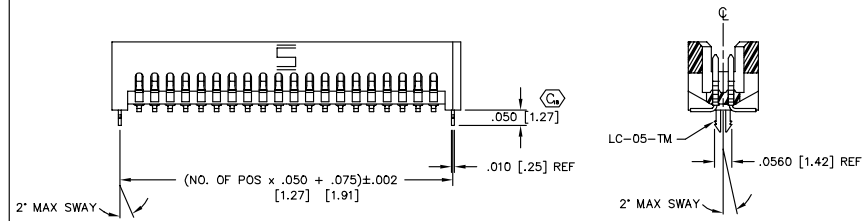


FIG. 10
-LC OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1
(STYLE -02 SHOWN)



-NOT AVAILABLE ON -RA

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NOTE: "M" = (No OF POS x .050 [1.27]) + .125 [3.18]
"P" = {"M" - .394 [10.01]} / 2 ±.020 [.51]

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PARTS TO BE PACKAGED IN TUBES AS SHOWN

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED		TOLERANCES ARE:	TITLE: .050 x .050	DWG NO: TFM-1XX-XX-XXX-X-XX
ONE PLACE DECIMALS ±.1 [2.54]	THREE PLACE DECIMALS ±.005 [.13]	ANGLES ±.2°	TERMINAL STRIP	SHEET 3 OF 3
TWO PLACE DECIMALS ±.01 [.25]	FOUR PLACE DECIMALS ±.0020 [.05]			

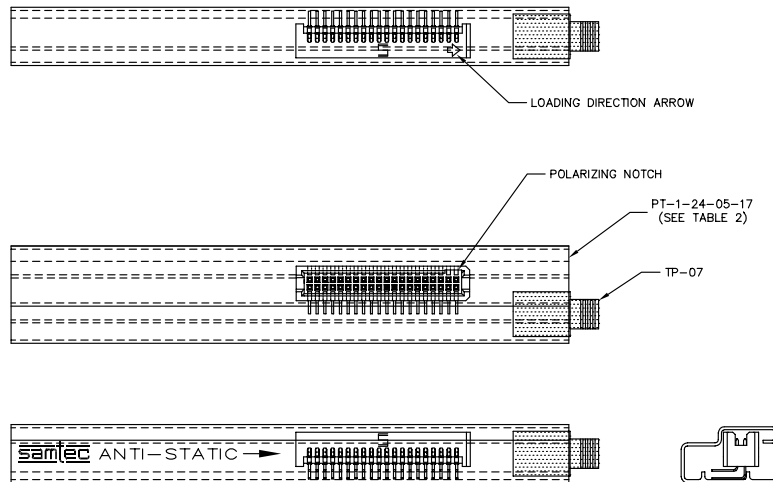
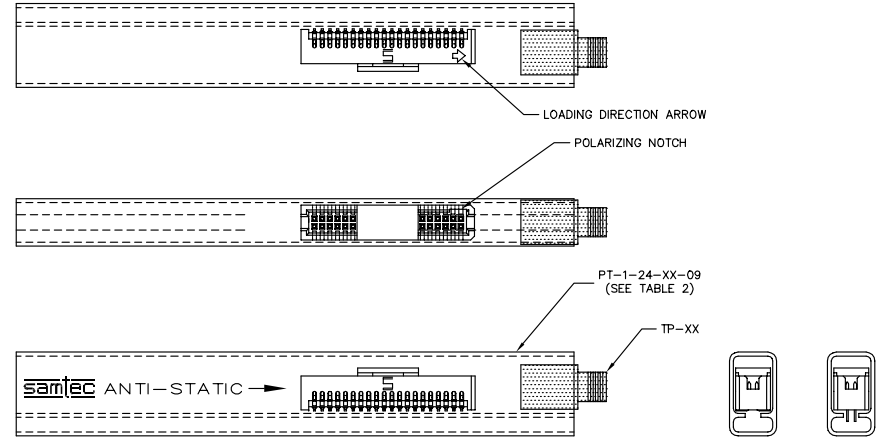
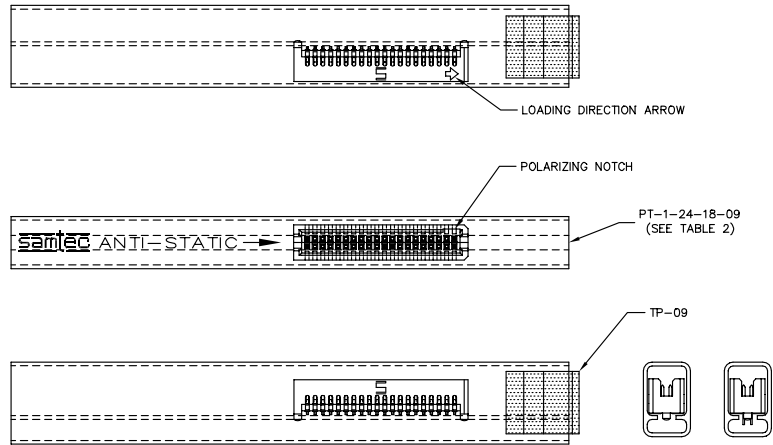


TABLE 2

LEAD STYLE	PACKAGING TUBE	PLUG
-RA (ALL LEAD STYLES)	PT-1-24-05-17	TP-07
-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 -01 (ALL OPTIONS), -11, -11-A, -11-LC, -11-K, -11-LC-K, -11-A-K	PT-1-24-18-09	TP-09
-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	PT-1-24-02-09	TP-07
-31, -21-P, -22-P, -31-LC, -21-A-P, -21-LC-P, -22-LC-P, -31-A, -32-LC, -22-A-P, -31-LC-K, -31-K	PT-1-24-05-09	TP-07
-11-P, -11-LC-P, -11-A-P, -21, -21-K, -21-A, -21-LC, -21-A-K, -21-LC-K	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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EXSPROD/ASSEMBLY/050
TFM-ASMS

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CODE 55322

MADE BY: KOLB 10-25-91

TFM-1XX-XX-XXX-X-XX
SHEET 3 OF 3