

DO NOT SCALE FROM THIS PRINT

NOTES:

1.  $\text{\textcircled{C}}$  REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: .5 LB.
3. COPLANARITY: .004[0.10] = POS 05 THRU 26  
.006[0.15] = POS 27 THRU 50
4. TUBE ALL POSITIONS. PARTS TO BE TUBED WITH NOTCH GOING WITH ARROW.
5. PINS CAN BE ORIENTED IN ANY DIRECTION; BOTH ROWS MUST FACE SAME WAY.
6. SEE NOTCH FOR PROPER ORIENTATION.
7. MAXIMUM PIN HEIGHT VARIATION: .003[0.08].
8. DUE TO 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.

SFM-1XX-XX-XXX-D-XXX

No OF POSITIONS  
ALL POSITIONS AVAILABLE  
-02 THRU -50  
(USE BODY: SFM-XX-D-XX-X)

- OPTIONS  
(LEAVE BLANK FOR STANDARD AND USE SFM-XX-D)  
-N: NO POLARIZATION NOTCH (USE SFM-XX-D-XX-N)  
-A: ALIGNMENT PIN (USE SFM-XX-D-A-X) (SEE FIG 4, SHT 2)  
-LC: LOCKING CLIP (SEE FIG 6, SHT 3 & NOTE 8) (AVAILABLE ON ALL LEADS)  
-P: PICK AND PLACE PAD (SEE FIG 5, SHT 2) (AVAILABLE ON 5 THRU 50 POSITION ONLY)  
-TR: TAPE & REEL (SEE SHT 4) (NOT AVAILABLE WITH -DS OPTION)  
-K: POLYIMIDE FILM PAD (.005[0.13] THICKNESS) (SEE FIG 3, SHT 2) (USE K-DOT-.157-.250-.005)  
-SN: SOLDER NAIL FOR .062 BOARD (SFM-XX-D-SN AND WT-27-01-T) (AVAILABLE WITH LEAD STYLE -02, -L2 & -T2) (NOT AVAILABLE WITH -A & -LC)  
-SN2: SOLDER NAIL FOR .093 BOARD (SFM-XX-D-SN AND WT-27-02-T) (AVAILABLE WITH LEAD STYLE -02, -L2 & -T2) (NOT AVAILABLE WITH -A & -LC)  
-DS: DUAL SCREW DOWN FOR .062 BOARD (SEE FIG 8, SHT 3) (ONLY AVAILABLE WITH -01, -02 AND -03 LEAD STYLE) (NOT AVAILABLE WITH OPTIONS -N, -A, -LC, -P, -TR, -K, -SN AND SN2), (USES SFM-XX-D-DS, CPS-RR-XX-XX-X, ACCRT-01 AND WT-27-XX-T ALWAYS FILLED)

- LEAD STYLE
- 01: THROUGH HOLE (USE CONTACT: C-44-01-XXX) (SEE FIG 1, SHT 1)
  - 02: SURFACE MOUNT (USE CONTACT: C-44-02-XXX) (SEE FIG 2, SHT 2)
  - 03: STRAIGHT MODIFIED (USE CONTACT: C-44-03-XXX) (SEE FIG 1, SHT 1)
  - L1: THROUGH HOLE (LOW INSERTION) (USE CONTACT: C-61-01-XXX) (SEE FIG 1, SHT 1)
  - L2: SURFACE MOUNT (LOW INSERTION) (USE CONTACT: C-61-02-XXX) (SEE FIG 2, SHT 2)
  - L3: STRAIGHT MODIFIED (LOW INSERTION) (USE CONTACT: C-61-03-XXX) (SEE FIG 1, SHT 1)
  - T1: THROUGH HOLE (PHOS BRONZE) (USE CONTACT: C-119-01-XXX) (SEE FIG 1, SHT 1)
  - T2: SURFACE MOUNT (PHOS BRONZE) (USE CONTACT: C-119-02-XXX) (SEE FIG 2, SHT 2)

\*: DIMENSIONS N/A FOR -N OPTION

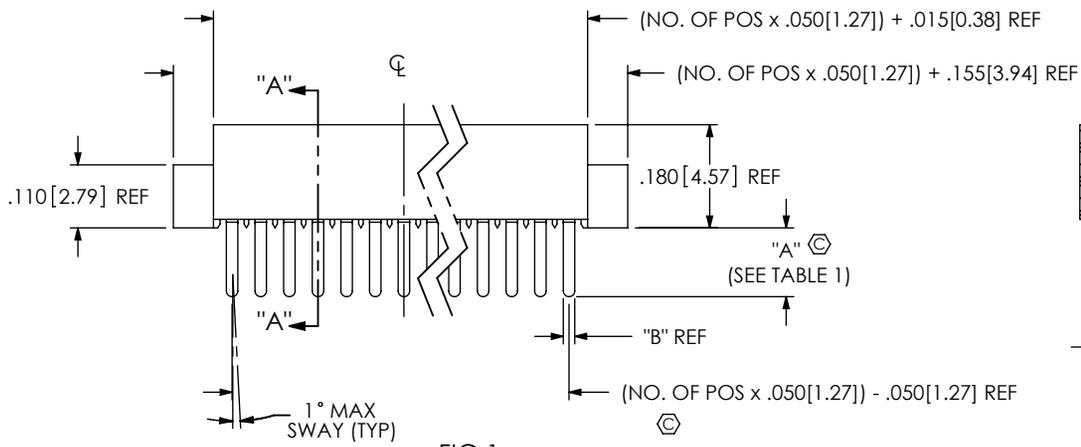
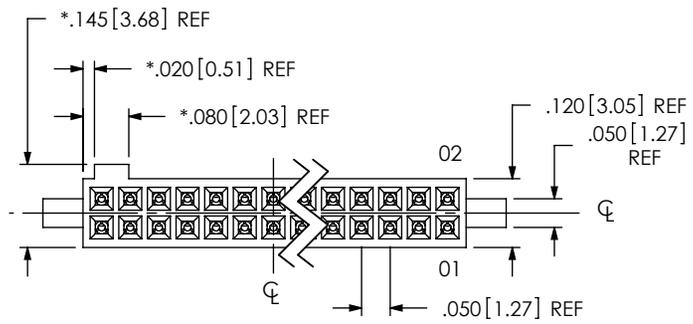
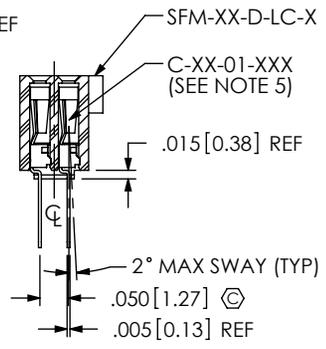


FIG 1 THROUGH HOLE/STRAIGHT MODIFIED

TABLE 1		
SUFFIX	TAIL LENGTH "A"	TAIL WIDTH "B"
-X1	.120[3.05]	.020[0.51]
-X3	.075[1.91]	.016[0.41]



SECTION "A"-"A"

PLATING SPECIFICATION

- S: 30 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- F: 3 $\mu$ " FLASH SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- H: 30 $\mu$ " HEAVY GOLD IN CONTACT AREA, 3 $\mu$ " GOLD ON TAIL
- L: 10 $\mu$ " LIGHT SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- STL: 30 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10+/-5%) TAIL (ONLY AVAILABLE ON -02 OR -L2 LEADSTYLES)
- SM: 30 $\mu$ " SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- FM: 3 $\mu$ " FLASH SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- LM: 10 $\mu$ " LIGHT SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL

BODY SPECIFICATION  
-D: DOUBLE ROW

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:  
DECIMALS ANGLES  
.XX:  $\pm .01$  [.3] 2°  
.XXX:  $\pm .005$  [.13]  
.XXXX:  $\pm .0020$  [.051]

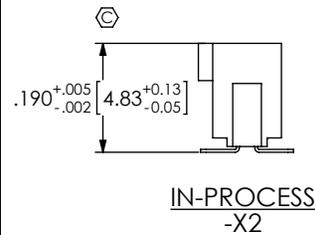
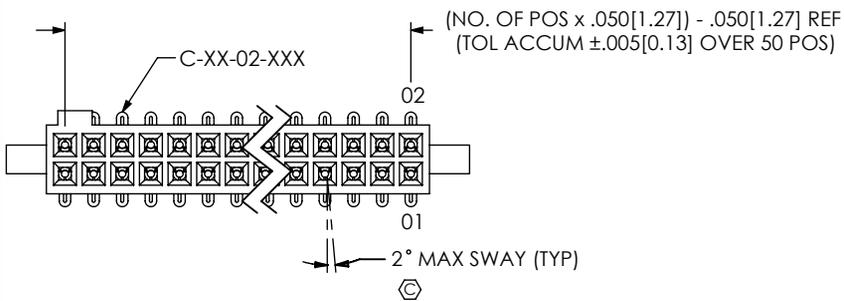
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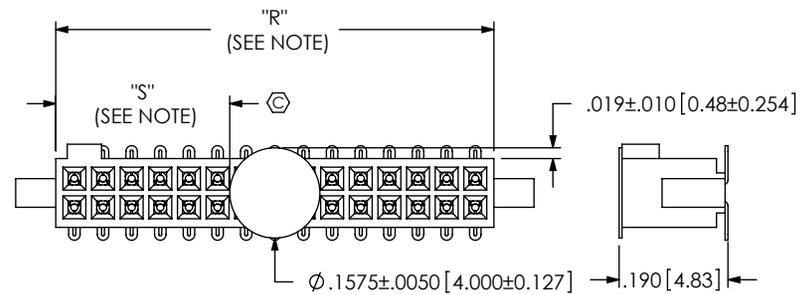
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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:1  
INSULATOR: LCP UL 94V-0, COLOR: BLACK  
CONTACT: TIGER EYE: BeCu  
TIGER EYE LITE: PHOSPHOR BRONZE

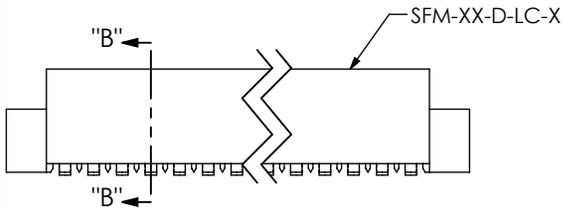
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.050 x .050 SOCKET STRIP DOUBLE ROW ASSEMBLY  
DWG. NO.  
SFM-1XX-XX-XXX-D-XXX



FOR HAND FILL ONLY  
NOTE: DIMENSION APPLIES PRIOR TO RE-PRESS, SEE SECTION "B-B" FOR FINISHED DIMENSION



**FIG 3**  
-K: POLYIMIDE FILM PAD (SAME AS FIG 1, DIFFERENT AS SHOWN)  
NOTE: "R" = USED MEASURED DIMENSION REF  
"S" = {( "R" - .1575[4.000] ) / 2 } ± .020[0.51]



**FIG 2**  
-X2: SURFACE MOUNT (SAME AS FIG 1, DIFFERENT AS SHOWN)

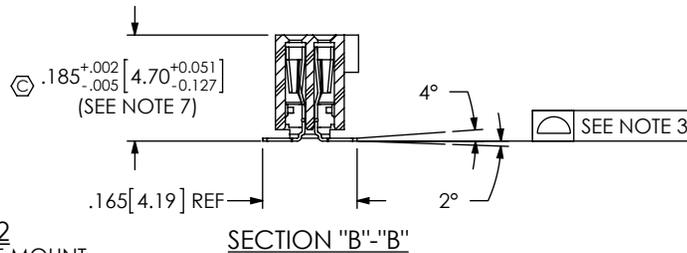
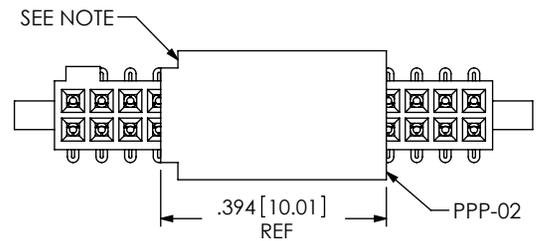
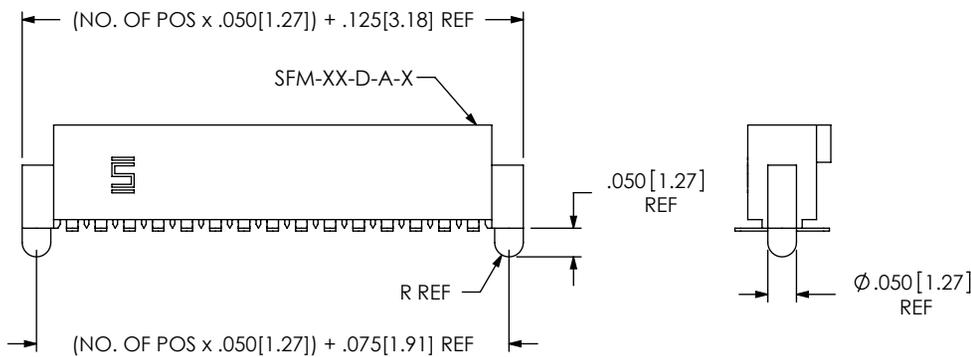


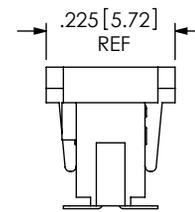
TABLE 2	
POS.	"A"
ODD	{(No. OF POS x .050[1.27])/2} - .1895[4.813]
EVEN	{(No. OF POS x .050[1.27])/2} - .2145[5.448]



**FIG 5**  
-P: PICK AND PLACE PAD (PAD TO BE ORIENTED AS SHOWN FOR 5-12 POSITION PARTS) (FOR 13-50 POSITION PARTS, PAD MAY BE ORIENTED IN EITHER DIRECTION) (SAME AS FIG 1, DIFFERENT AS SHOWN)



**FIG 4**  
-A: ALIGNMENT PIN (SAME AS FIG 1, DIFFERENT AS SHOWN)



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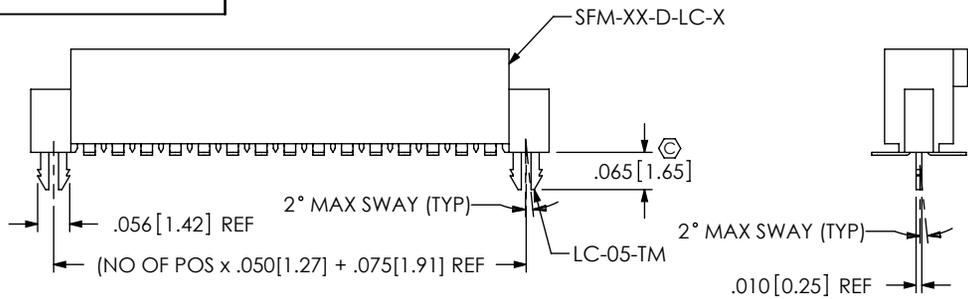
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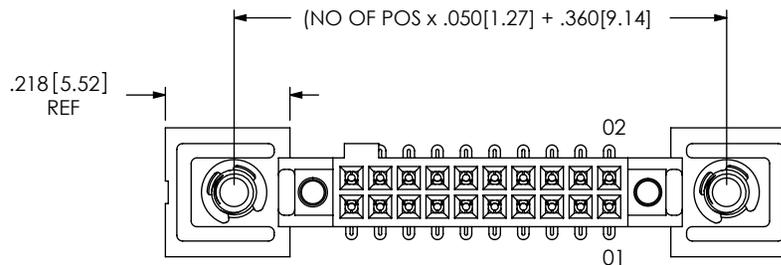
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DWG. NO.  
**SFM-1XX-XX-XXX-D-XXX**

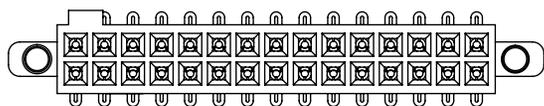
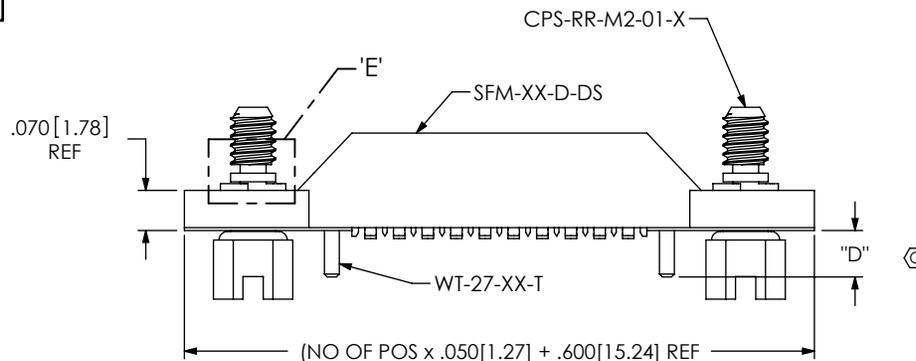
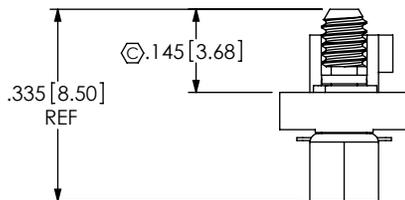
BY: JORDAN 12/11/89 SHEET 2 OF 4



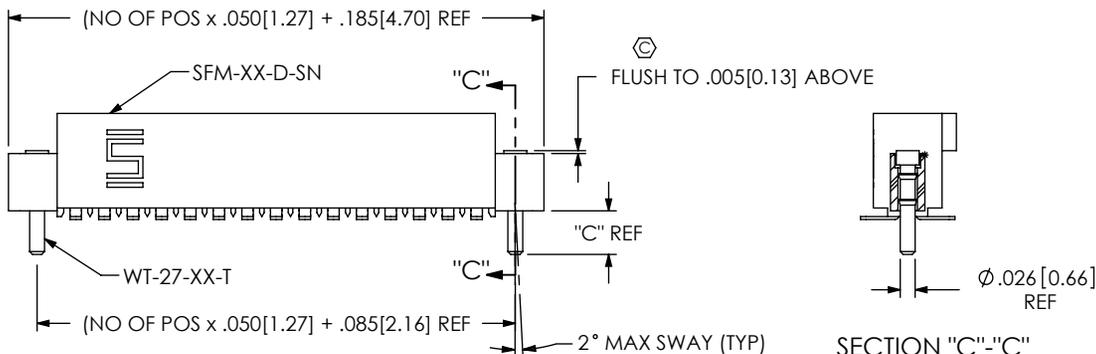
**FIG 6**  
-LC: LOCKING CLIP  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
(AVAILABLE IN ALL LEADS)



LEAD STYLE	"D"	WT-27
-01	.081	-01
-02	.081	-01
-03	.115	-02

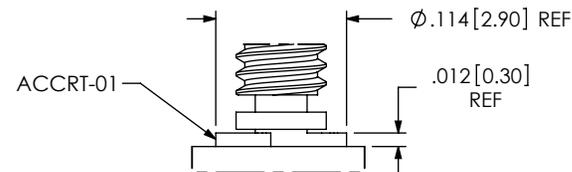


OPTION	"C"
-SN	.076 [1.93]
-SN2	.110 [2.79]



**FIG 7**  
-SNX: SOLDER NAIL  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

F:\DWG\MISC\MKTG\SFM-1XX-XX-XXX-D-XXX-MKT.SLDDRW



**FIG 8**  
-DS: DUAL SCREW DOWN  
(SAME AS FIG 2, DIFFERENT AS SHOWN)

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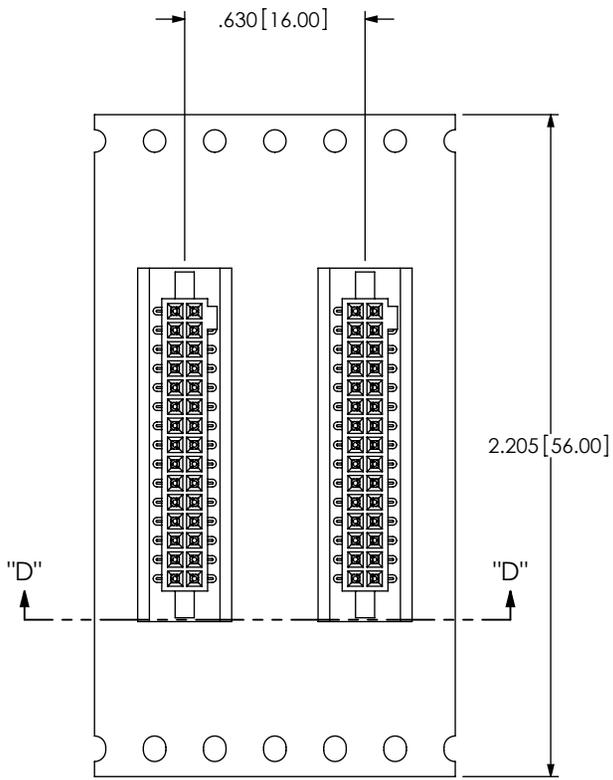
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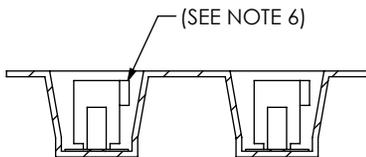
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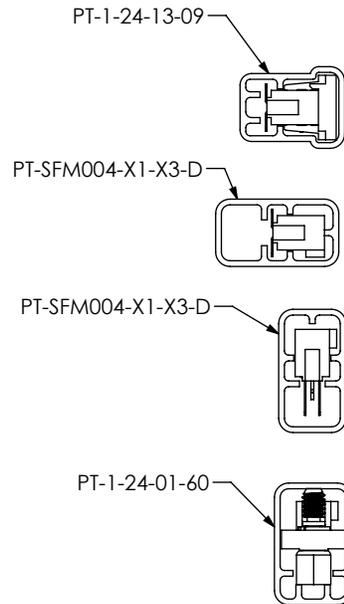
UNWINDING DIRECTION →



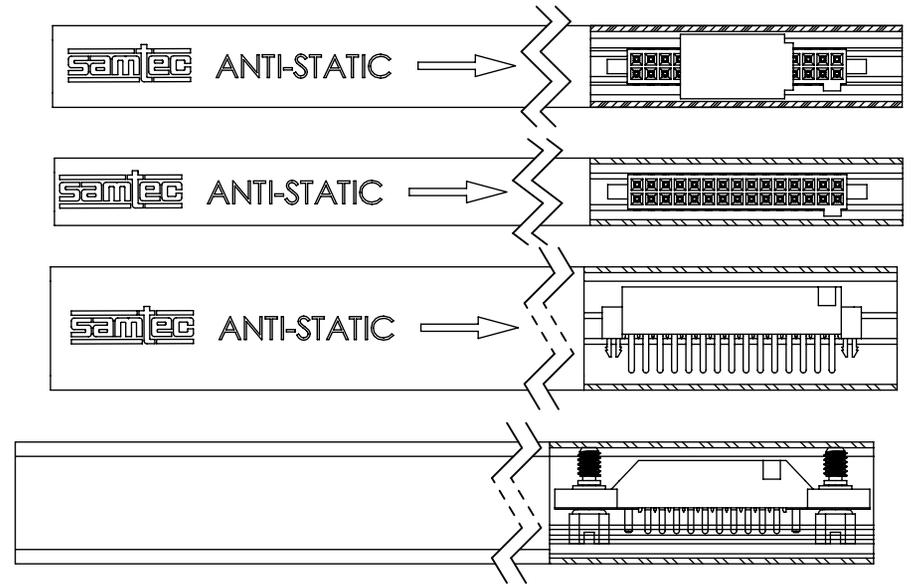
(SEE NOTE 6)

SECTION "D"-D"  
SCALE 2 : 1

PACKAGING VIEW  
-TR: TAPE AND REEL



PACKAGING VIEW  
PACKAGE PARTS IN TUBES AS SHOWN (SEE NOTE 4)



LEAD STYLE	PACKAGING TUBE	PLUG
-105-X2-X-D, -105X2-X-D-LC, -105-X2-D-A, -105-X2-D-K-LC	PT-1-24-14-09	TP-24-02
-X1-D, -X3-D, -X1-D-LC, -X3-D-LC, (NO P&P PAD), X1-D-A, -X3-D-A, -X1-D-K, -X3-D-K	PT-SFM004-X1-X3-D	TP-24-02
-X1-D-P, -X1-D-LC-P (WITH P&P PAD), X1-D-A-P	PT-1-24-02-17	TP-09
-X2-D, -X2-D-K, -X2-D-LC (NO P&P PAD), -X2-D-A, -X2-D-K-A, -X2-D-LC-K, -X2-D-SNX	PT-SFM004-X1-X3-D	TP-24-02
-X2-D-P, -X3-D-P, -X2-D-LC-P (WITH P&P PAD), -X2-D-A-P, -X3-D-A-P, -X2-D-P-SNX	PT-1-24-13-09	TP-24
-01-DS, -02-DS, -03-DS	PT-1-24-01-60	TP-03

\*FOR MACHINE LOADING OF TUBES FOR PARTS W/O PADS USE PT-1-24-14-09,  
W/PADS USE PT-1-24-13-09

5 POS -01 AND -03 LEAD STYLES MAY BE TUBED USING  
PT-1-24-15-09, TP-24-02

F:\DWG\MISC\MKTG\SFM-1XX-XX-XXX-D-XXX-MKT.SLDDRW

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

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