

DO NOT SCALE FROM THIS PRINT

NOTES:

1.  $\text{Ⓢ}$  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] FROM PIN TO PIN AND ROW TO ROW, MUST BE MEASURED BETWEEN ADJACENT PINS.
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.
9. DIMENSION TO BE MEASURED AT BEND.

\*: DIMENSIONS N/A FOR -N OPTION

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

No OF POSITIONS

ALL POSITIONS AVAILABLE  
-02 THRU -50  
(USE BODY: SFM-XX-D-XX-X)

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)

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)

BODY SPECIFICATION  
-D: DOUBLE ROW

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

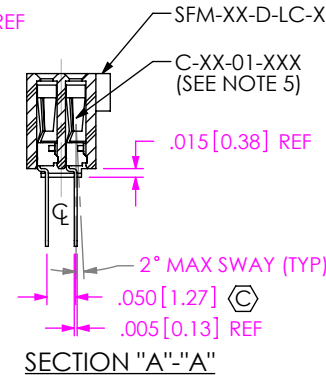
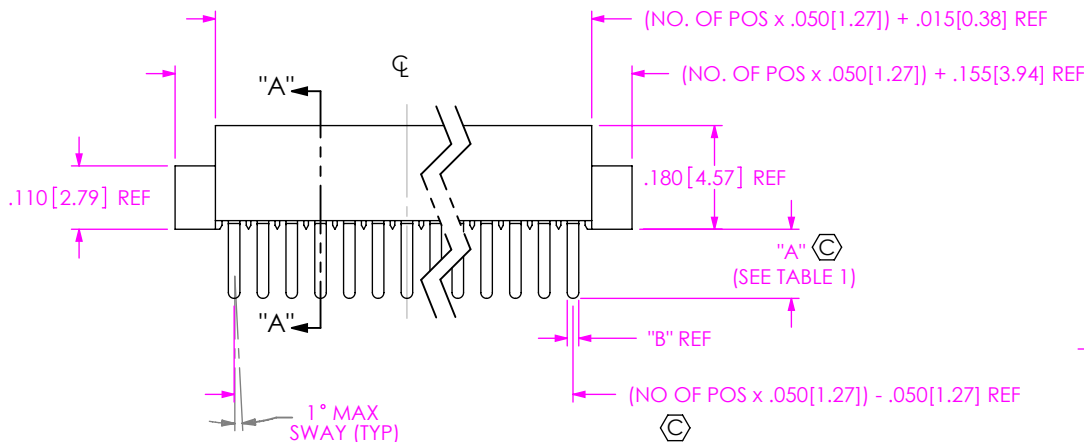
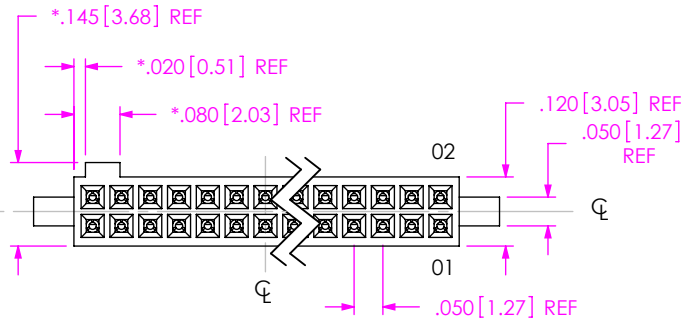


FIG 1 THROUGH HOLE/STRAIGHT MODIFIED

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

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

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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

DESCRIPTION:  
.050 x .050 SOCKET STRIP DOUBLE ROW ASSEMBLY  
DWG. NO.  
**SFM-1XX-XX-XXX-D-XXX**  
BY: JORDAN 12/11/89 SHEET 1 OF 4



520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

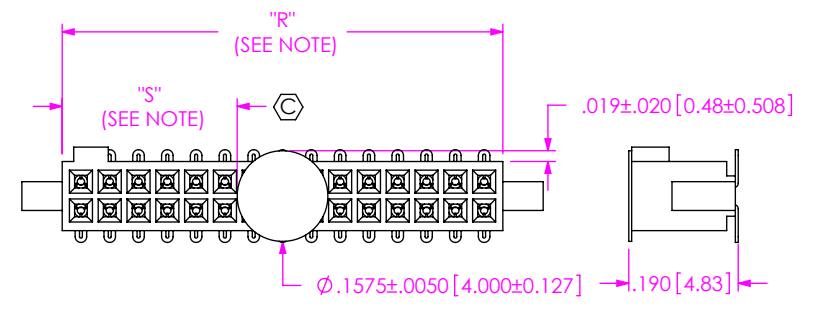
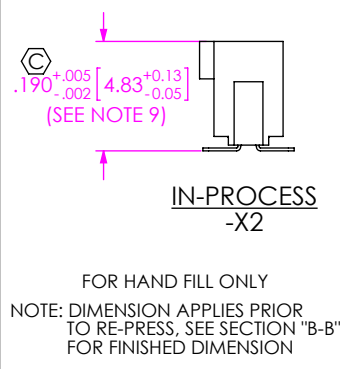
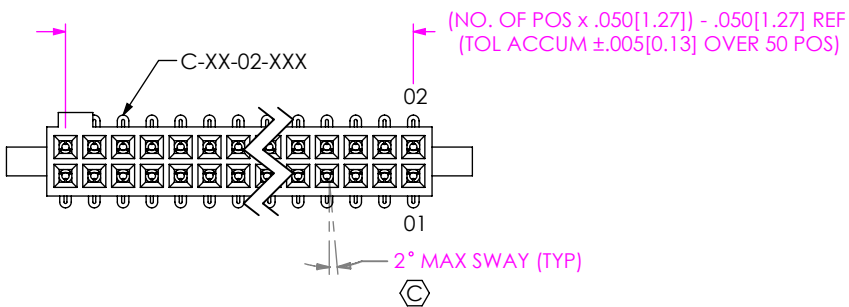


FIG 3  
-K: POLYIMIDE FILM PAD  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
NOTE: "R" = USED MEASURED DIMENSION REF  
"S" =  $\{("R" - .1575[4.000])/2\} \pm .020[0.51]$

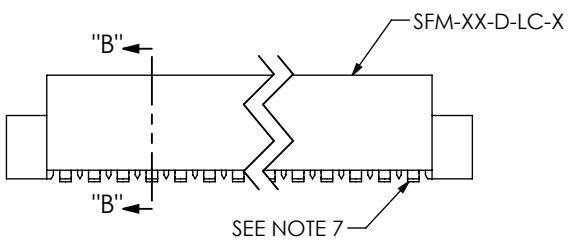


FIG 2  
-X2: SURFACE MOUNT  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

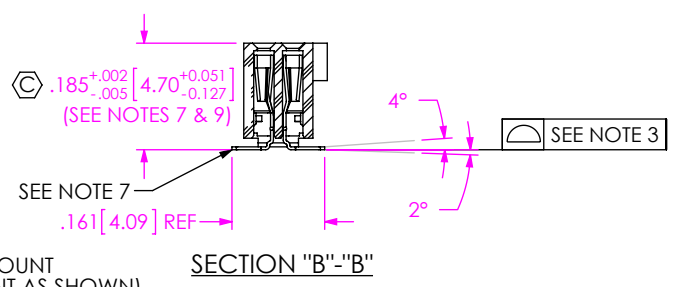


TABLE 2

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

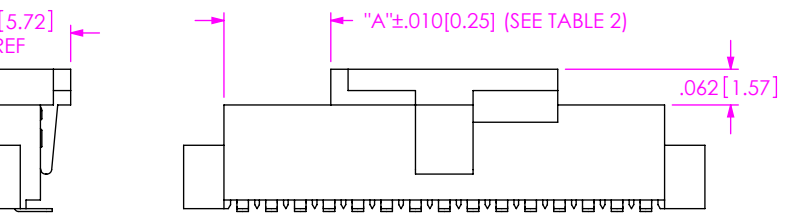
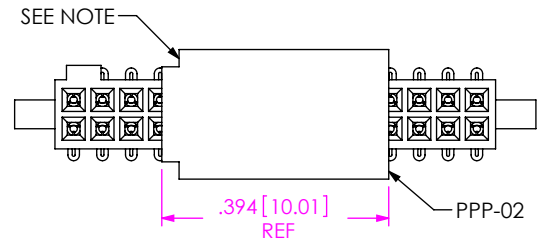


FIG 5  
-P: PICK AND PLACE PAD  
(PAD TO BE ORIENTED AS SHOWN FOR 5-12 POSITION PARTS)  
(FOR 13-50 POSITION PARTS, PAD MAY BE ORIENTED IN EITHER DIRECTION)  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

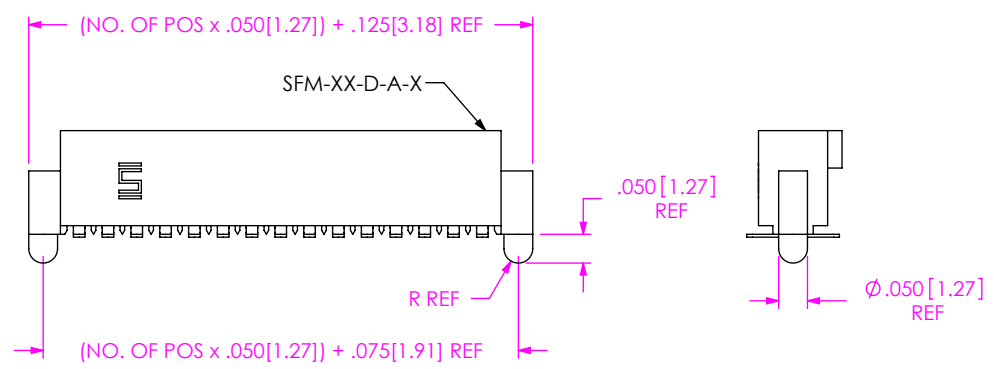


FIG 4  
-A: ALIGNMENT PIN  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

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SHEET SCALE: 3:1

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

DESCRIPTION:  
.050 x .050 SOCKET STRIP DOUBLE ROW ASSEMBLY  
DWG. NO.  
**SFM-1XX-XX-XXX-D-XXX**  
BY: JORDAN 12/11/89 SHEET 2 OF 4

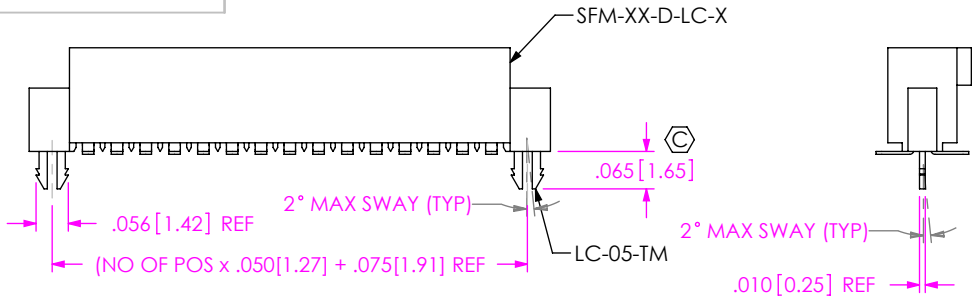
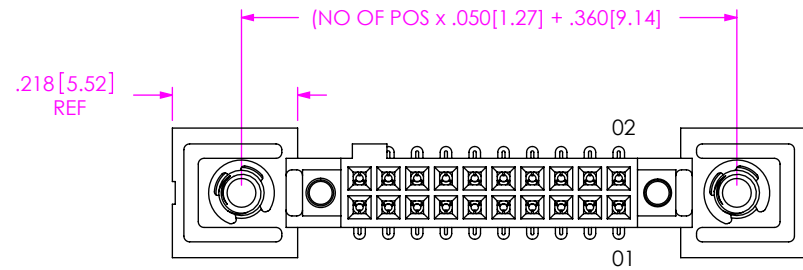
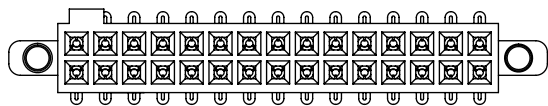
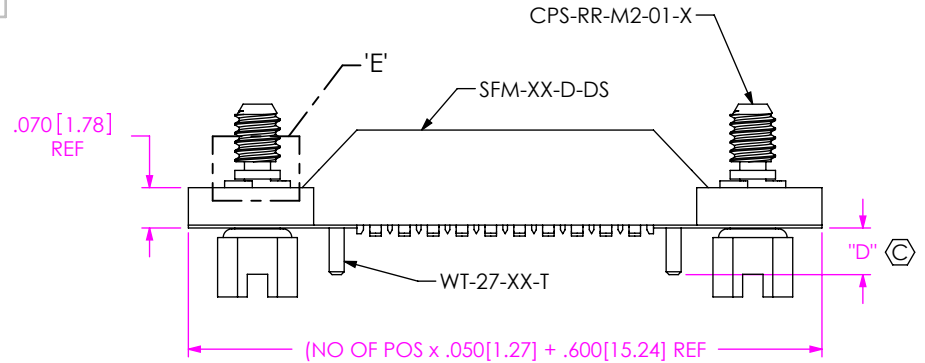
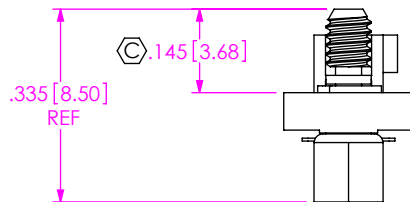


FIG 6  
-LC: LOCKING CLIP  
(SAME AS FIG 1, DIFFERENT AS SHOWN)  
(AVAILABLE IN ALL LEADS)



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



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

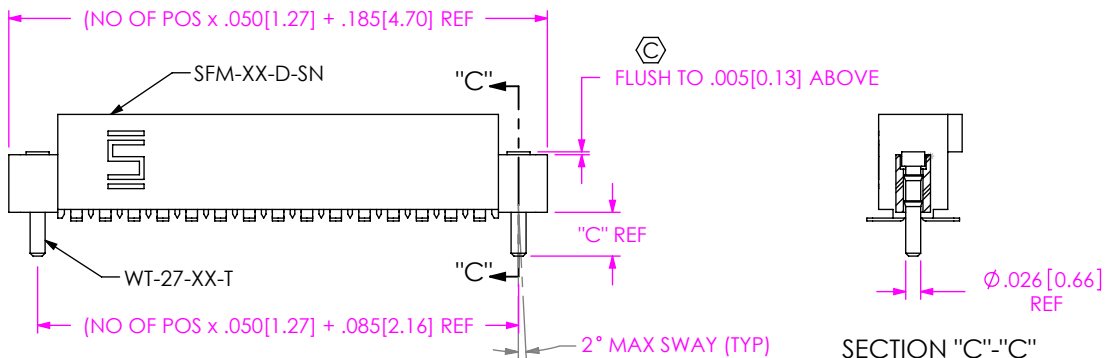


FIG 7  
-SNX: SOLDER NAIL  
(SAME AS FIG 1, DIFFERENT AS SHOWN)

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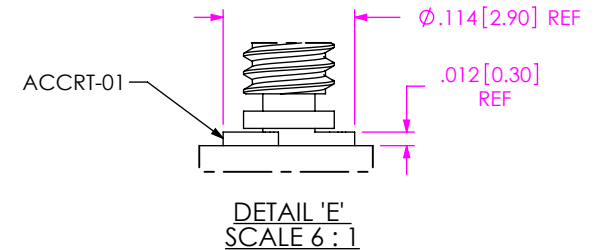


FIG 8  
-DS: DUAL SCREW DOWN  
(SAME AS FIG 2, DIFFERENT AS SHOWN)

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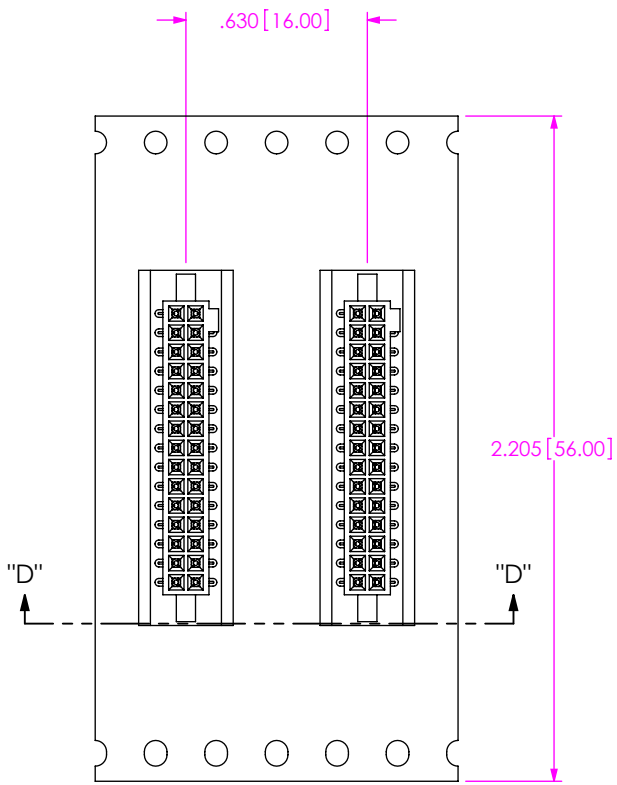


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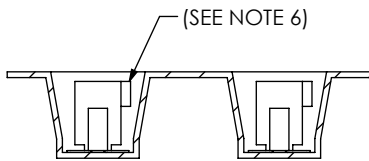
DESCRIPTION:  
.050 x .050 SOCKET STRIP DOUBLE ROW ASSEMBLY

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

BY: JORDAN 12/11/89 SHEET 3 OF 4

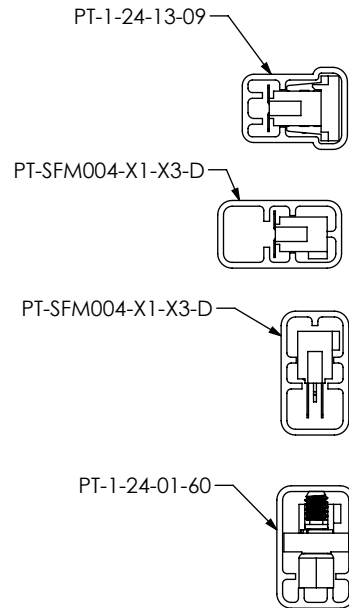


UNWINDING DIRECTION →

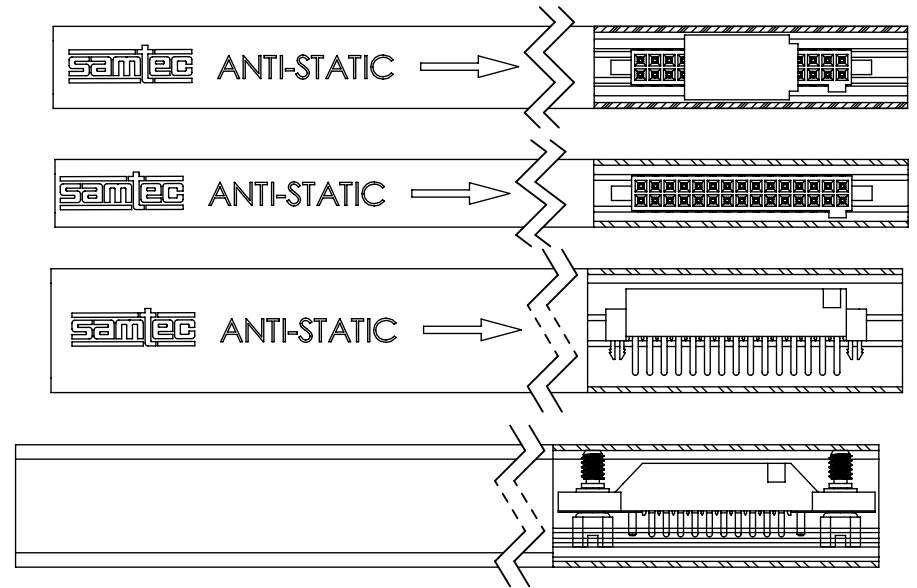


SECTION "D"-"D"  
SCALE 2 : 1

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, -105-X2-X-D-A-K	PT-1-24-14-09	TP-24-02
-X1-D, -X3-D, -X1-D-LC, -X3-D-LC, (NO P&P PAD), D-A, -X3-D-A, -X1-D-K, -X3-D-K	X1-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  
2 POS -X1 STYLE TO BE TUBED IN PT-1-24-15-09

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DESCRIPTION:  
.050 x .050 SOCKET STRIP DOUBLE ROW ASSEMBLY

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

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