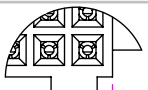


TABLE 1		
STYLE	"A"	"B"
-X1	.120 [3.05]	.020 [.51]
-X3	.075 [1.91]	.016 [.41]

DO NOT SCALE FROM THIS PRINT



SFML-1XX-XX-XXX-D-XXX

No OF POSITIONS  
-05, -07, -08, -10 THRU -50  
(PER ROW)

- LEAD STYLE**
- 01: THROUGH HOLE (USE C-44-01-XXX, SEE FIG 1, SHT 1)
  - 02: SURFACE MOUNT (USE C-44-02-XXX, SEE FIG 3, SHT 2)
  - 03: STRAIGHT MODIFIED (USE C-44-03-XXX, SEE FIG 1, SHT 1)
  - L1: THROUGH HOLE (LOW INSERTION) (USE C-61-01-XXX, SEE FIG 1, SHT 1)
  - L2: SURFACE MOUNT (LOW INSERTION) (USE C-61-02-XXX, SEE FIG 3, SHT 2)
  - L3: STRAIGHT MODIFIED (LOW INSERTION) (USE C-61-03-XXX, SEE FIG 1, SHT 1)
  - T1: THROUGH HOLE (PHOS BRONZE) (USE C-119-01-XXX, SEE FIG 1, SHT 1)
  - T2: SURFACE MOUNT (PHOS BRONZE) (USE C-119-02-XXX, SEE FIG 3, SHT 2)

- OPTIONS**
- (LEAVE BLANK FOR STANDARD AND USE SFML-XX-D)
- A: ALIGNMENT PIN (USE SFML-XX-D-A) (SEE FIG 5, SHT 3)
  - LC: LOCKING CLIP (SEE FIG 7, SHT 3) (USE (2) LC-05-TM & SFML-XX-D) (SEE NOTE 9)
  - P: PICK & PLACE PAD (SEE FIG 6, SHT 3) (USE PPP-02) (NOT AVAILABLE IN 5 POS)
  - TR: TAPE & REEL PACKAGING (N/A with -X1 AND -X3 LEAD STYLE, SEE FIG 2, SHT 1)
  - K: POLYIMIDE FILM PAD (USE K-DOT-.157-.250-.005) (SEE FIG 4, SHT 2)
  - SN: SOLDER NAIL (USE SFML-XX-D-SN & WT-27-01-T) (SEE FIG 8, SHT 4) (AVAILABLE ON -X2 LEAD STYLES ONLY)
  - SN2: SOLDER NAIL FOR .093 BOARD (USE SFML-XX-D-SN & WT-27-02-T) (SEE FIG 8, SHT 4) (ONLY AVAILABLE WITH -02, L2, AND T2 LEAD STYLE. NOT AVAILABLE WITH -A, -LC OPTIONS)

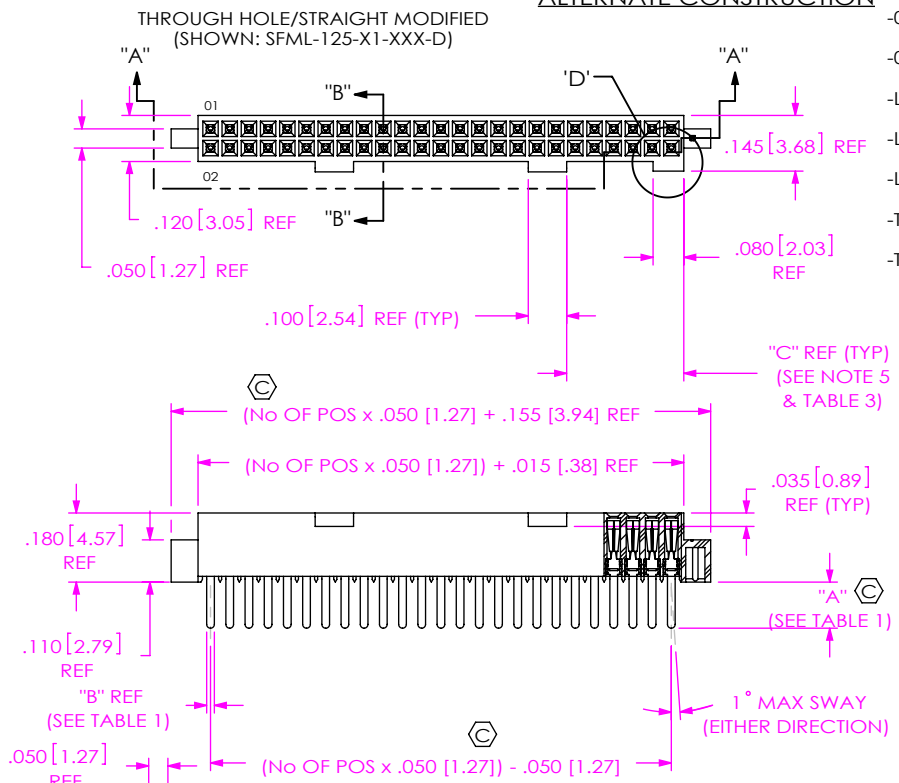
**ROW SPECIFICATION**

- D: DOUBLE ROW (USE SFML-XX-D-X)

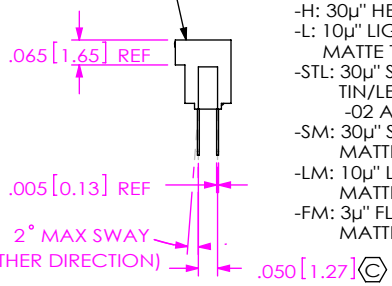
**PLATING SPECIFICATION**

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

FIG 1



SFML-XX-D



NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. COPLANARITY: .004 [0.10] FOR POS. 04 THRU 26  
.006 [0.15] FOR POS. 27 THRU 50
3. MINIMUM PUSHOUT FORCE: .5 LB.
4. MAXIMUM ALLOWABLE BOW: .002 INCH/INCH [MM/MM] AFTER ASSEMBLY.
5. POSITIONS -05, 07 AND -08 WILL HAVE ONLY ONE LOCKING TAB AT DIMENSION SHOWN AND WILL NOT HAVE POLARIZATION NOTCH;  
POSITIONS -10 THROUGH -24 WILL HAVE ONLY ONE LOCKING TAB AT DIMENSION SHOWN;  
POSITIONS -25 THROUGH -34 WILL HAVE TWO LOCKING TABS AT DIMENSION SHOWN;  
POSITIONS -35 THROUGH -50 WILL HAVE THREE LOCKING TABS: TWO AT DIMENSION SHOWN & ONE CENTERED ON INSULATOR.
6. SEE NOTCH FOR PROPER ORIENTATION.
7. PINS CAN BE ORIENTED IN ANY DIRECTION; BOTH ROWS MUST FACE SAME WAY.
8. MAXIMUM PIN HEIGHT VARIATION: .003[0.08] FROM PIN TO PIN AND ROW TO ROW, MUST BE MEASURED BETWEEN ADJACENT PINS.
9. 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.
10. TUBE PARTS WITH NOTCH AND/OR LOCKING TAB TOWARD ARROW. NOTCH NOT AVAILABLE ON -05, -07 AND -08 POSITION PARTS.

SECTION "A"- "A"

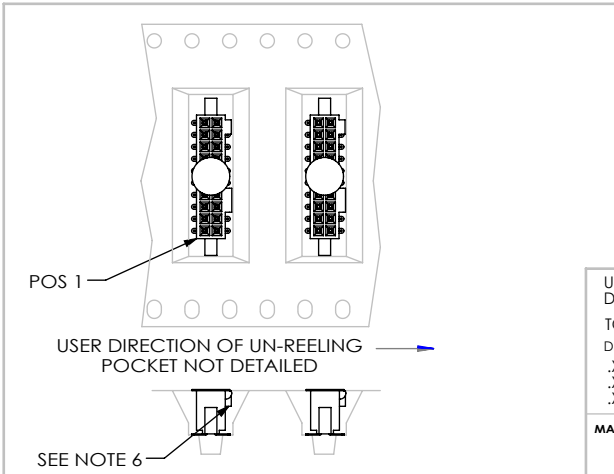
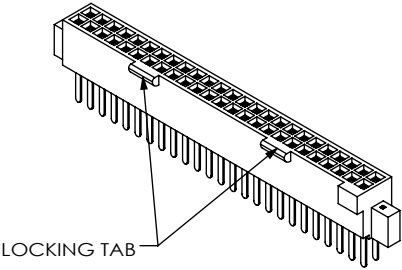


FIG 2

-TR: TAPE & REEL PACKAGING (ALTERNATE KEYING OPTION SHOWN)

TABLE 3 (SEE NOTE 5)

NO OF POS.	"C"
-05, -07	.080 [2.03]
-10 THRU -50	.305 [7.75]



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS	ANGLES
.XX: ±.01 [0.3]	2°
.XXX: ±.005 [0.13]	
.XXXX: ±.0020 [0.051]	

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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

**INSULATOR:** VECTRA E130I, LCP UL 94 VO  
**COLOR:** BLACK  
**CONTACT:** BeCu  
PHOS BRONZE

SHEET SCALE: 2:1

**DESCRIPTION:**  
.050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY

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

BY: BRATCHER 4/19/99 SHEET 1 OF 4

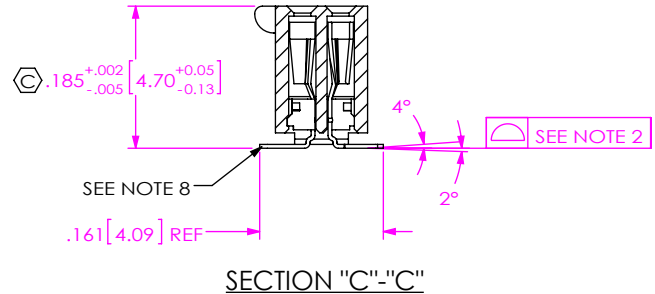
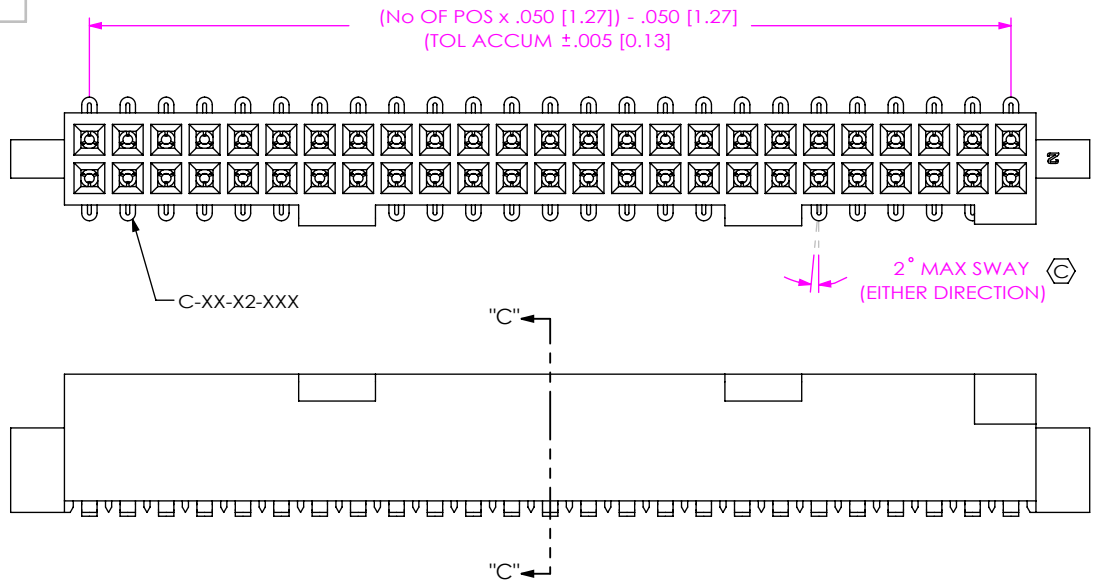
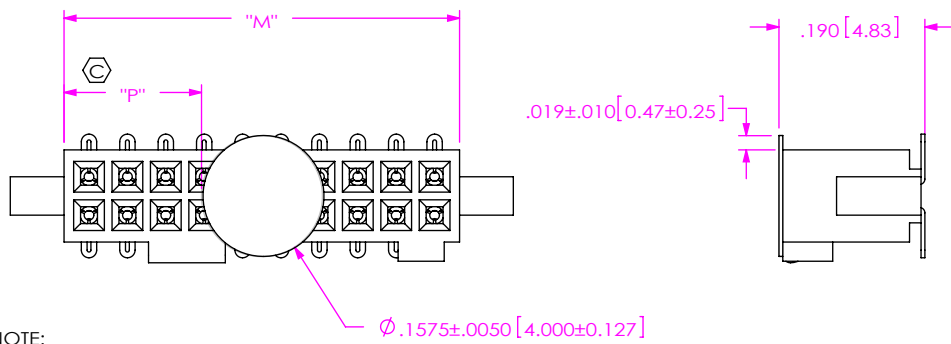
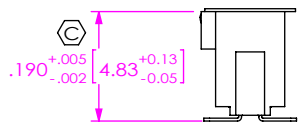


FIG 3  
-X2: SURFACE MOUNT  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)



NOTE:  
"M" = USED MEASURED DIMENSION (REF)  
"P" =  $\{("M" - .1575 [4.000]) / 2\} \pm .020 [0.51]$

FIG 4  
-K: POLYIMIDE FILM PAD OPTION  
(SHOWN: SFML-110-X2-X-D-K)  
(ALTERNATE CONSTRUCTION SHOWN)



DIMENSION APPLIES PRIOR TO RE-PRESS,  
SEE SECTION "C"-"C" FOR FINISHED DIMENSION

IN-PROCESS

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

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SHEET SCALE: 4:1



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e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:  
.050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY

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

BY: BRATCHER 4/19/99 SHEET 2 OF 4

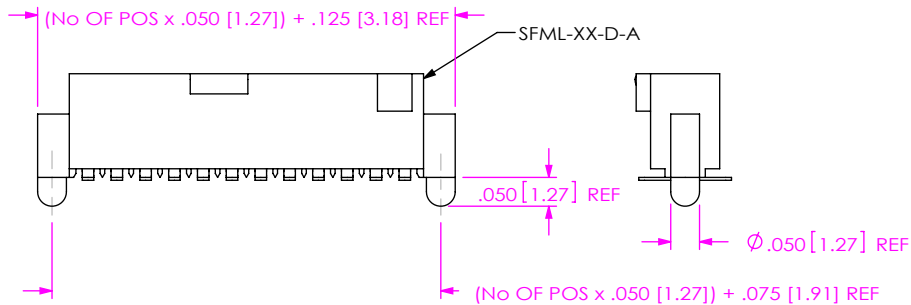


FIG 5

-A: ALIGNMENT PIN OPTION  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)  
(ALTERNATE CONSTRUCTION SHOWN)

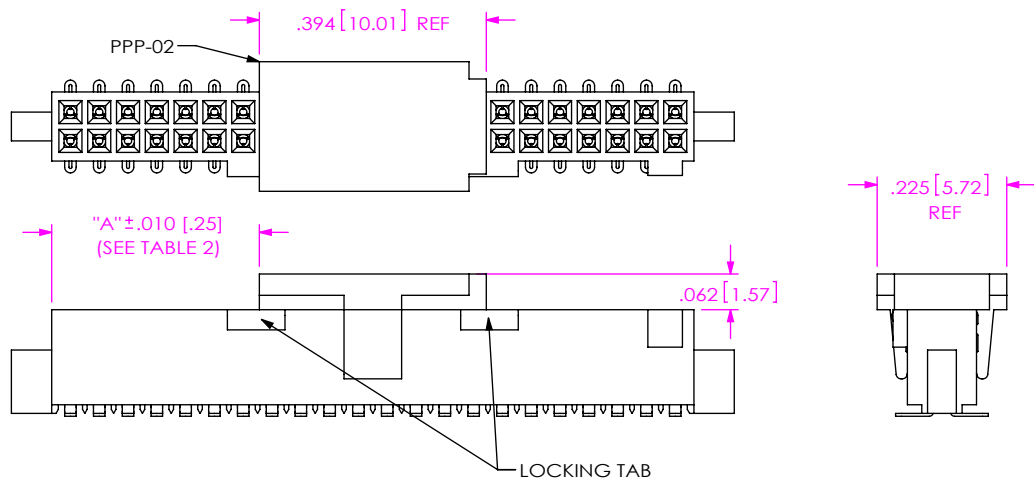
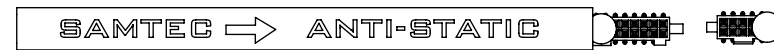
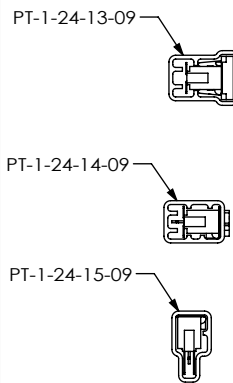


FIG 6

-P: PICK & PLACE PAD OPTION  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)  
(ALTERNATE CONSTRUCTION SHOWN)

TABLE 2	
POS.	"A"
-35 AND ABOVE (ODD)	{{(No OF POS x .050 [1.27]) / 2} -.2895 [7.353]}
EVEN ABOVE -34	{{(No OF POS x .050 [1.27]) / 2} -.3145 [7.989]}
ODD ABOVE -19	{{(No OF POS x .050 [1.27]) / 2} -.1895 [4.813]}
EVEN ABOVE -18	{{(No OF POS x .050 [1.27]) / 2} -.2145 [5.448]}
-07	.065 [1.65] OVERHANG
-10	.086 [2.18]
-11	.136 [3.45]
-12	.186 [4.72]
-13	.236 [5.99]
-14	.286 [7.26]
-15	.086 [2.18]
-16	.136 [3.45]
-17	.186 [4.72]
-18	.236 [5.99]
-19	.286 [7.26]

PACKAGE PARTS IN TUBES AS SHOWN  
(SEE NOTE 10)



LEAD STYLE	PACKAGING TUBE	PLUG
-X1-X, -X3-X (NO PAD)	PT-1-24-15-09	TP-12
-X1-X-P (W/ P&P PAD)	PT-1-24-01-09	TP-24
-X2-X (NO P&P PAD)	PT-1-24-14-09	TP-24-02
-X2-X-P, -X3-X-P (W/ P&P PAD)	PT-1-24-13-09	TP-24
-X1-K	PT-1-24-13-09	TP-24
-X2-K	PT-1-24-14-09	TP-24-02
-X2-SNX	PT-SFM004-X1-X3-D	TP-24-02

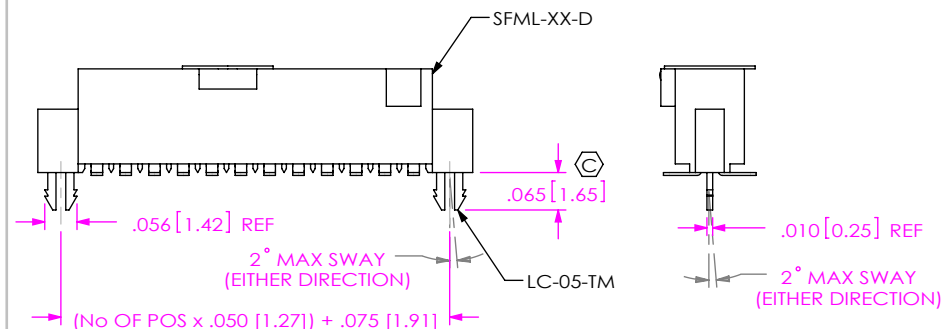


FIG 7  
-LC: LOCKING CLIP OPTION  
(SAME AS FIG 1, UNLESS OTHERWISE STATED)  
(ALTERNATE CONSTRUCTION SHOWN)

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e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:  
.050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY

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

BY: BRATCHER 4/19/99 SHEET 3 OF 4

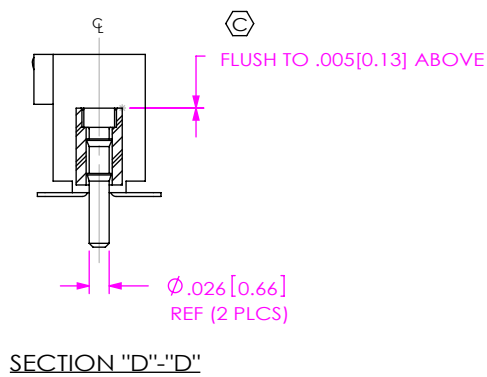
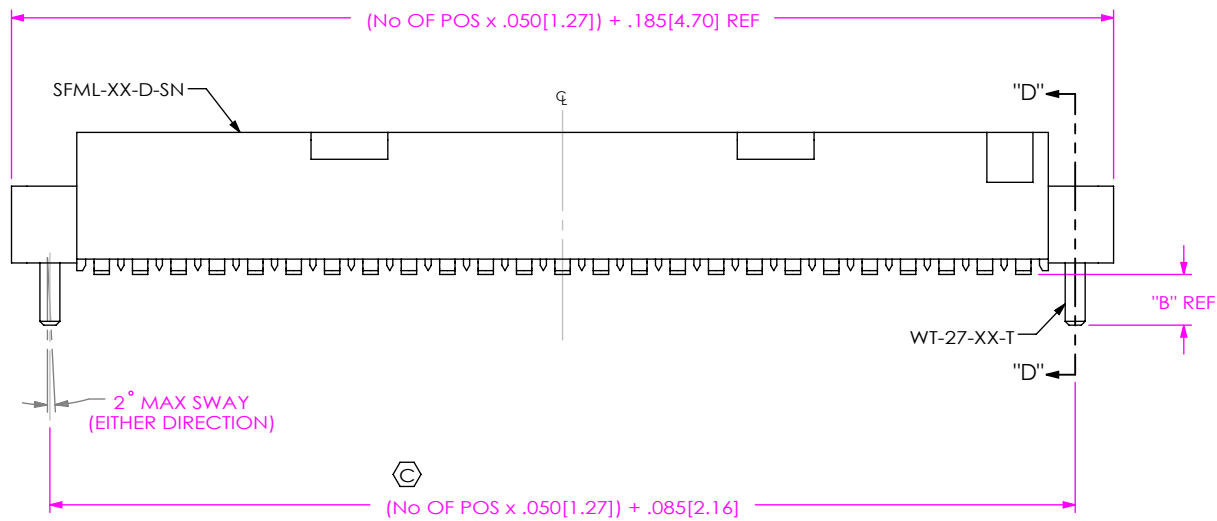


TABLE 3


OPTION	"B"
-SN	.066[1.68]
SN2	.101[1.80]

**FIG 8**  
 -SNX: SOLDER NAIL OPTION  
 (SHOWN: SFML-125-02-XXX-D-SN  
 (SAME AS FIG 1, UNLESS OTHERWISE STATED)  
 (ONLY AVAILABLE ON -X2 LEAD STYLES)

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 PHONE: 812-944-6733 FAX: 812-948-5047  
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DESCRIPTION:  
 .050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY

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

BY: BRATCHER 4/19/99 SHEET 4 OF 4