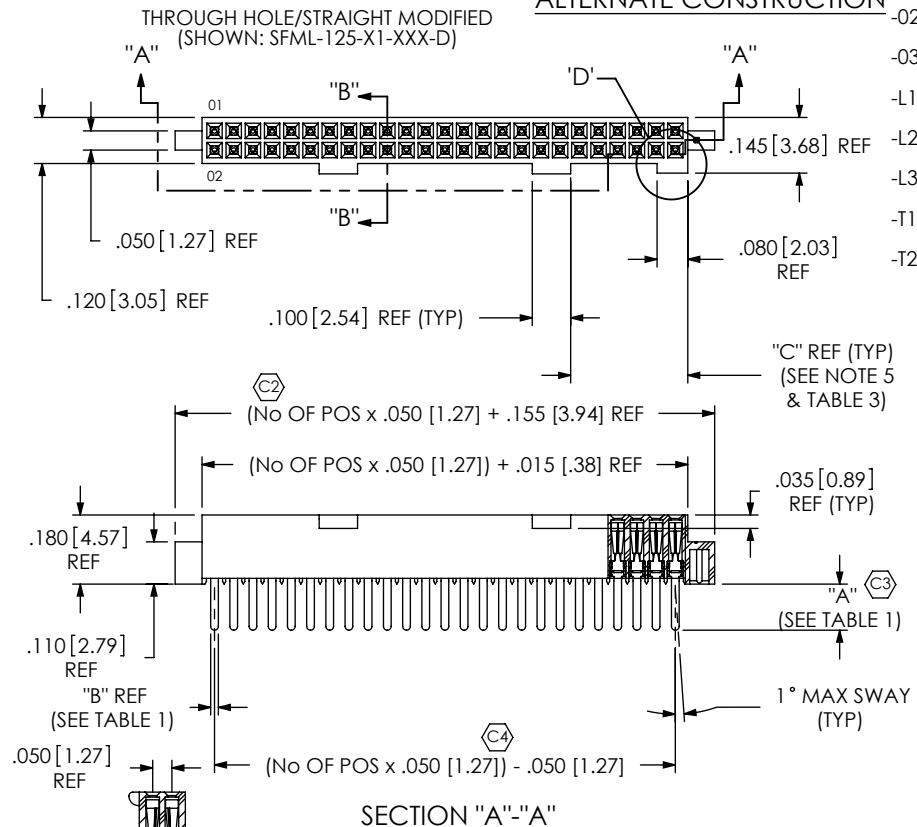


TABLE 1		
STYLE	"A"	"B"
-X1	.120 [3.05]	.020 [.51]
-X3	.075 [1.91]	.016 [.41]

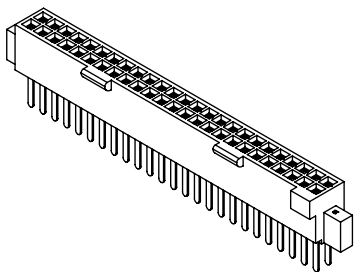
DO NOT  
SCALE FROM  
THIS PRINT

FIG 1



SECTION "B"-B"

TABLE 3 (SEE NOTE 5)	
NO OF POS.	"C"
-05, -07	.080 [2.03]
-10 THRU -50	.305 [7.75]



DETAIL 'D'  
ALTERNATE CONSTRUCTION

- 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)

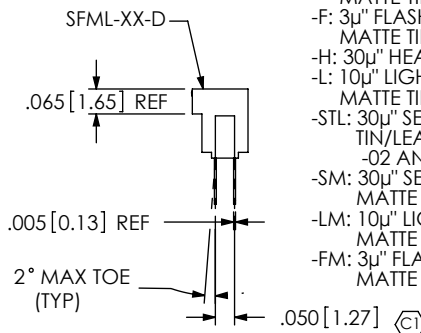
SFML-1XX-XX-XXX-D-XXX

**AE** NO OF POSITIONS  
-05, -07, -08, -10 THRU -50  
(PER ROW)

- 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-500-300) (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

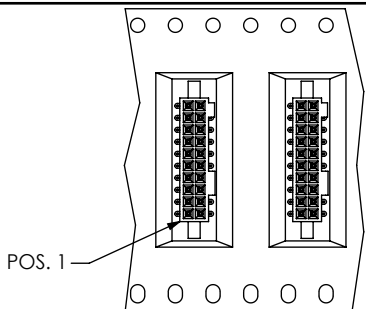


NOTES:

1. **C** REPRESENTS A CRITICAL DIMENSION.
2. COPLANARITY: .004 [.10] FOR POS. 10 THRU 26  
.006 [.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 AND -07 WILL HAVE ONLY ONE CLIP AT DIMENSION SHOWN AND WILL NOT HAVE POLARIZATION NOTCH;  
POSITIONS -10 THROUGH -24 WILL HAVE ONLY ONE CLIP AT DIMENSION SHOWN;  
POSITIONS -25 THROUGH -34 WILL HAVE TWO CLIPS AT DIMENSION SHOWN;  
POSITIONS -35 THROUGH -50 WILL HAVE THREE CLIPS: 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 FACW SAME WAY.
8. MAXIMUM PIN HEIGHT VARIATION BETWEEN ANY TWO ROWS: .003[.08].
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 TOWARD ARROW.

SECTION "A"-A"

FIG 2  
-TR: TAPE & REEL PACKAGING  
(ALTERNATE KEYING OPTION SHOWN)



USER DIRECTION OF UNREELING

SEE NOTE 6

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

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**MATERIAL:** DO NOT SCALE DRAWING SHEET SCALE: 2:1  
INSULATOR:  
VETRA E130i, LCP UL 94 VO  
COLOR: BLACK  
CONTACT: BeCu  
PHOS BRONZE

**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**

**samtec**

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

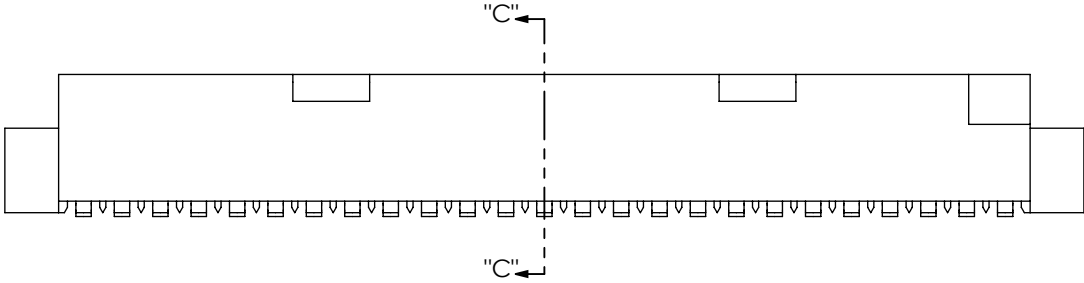
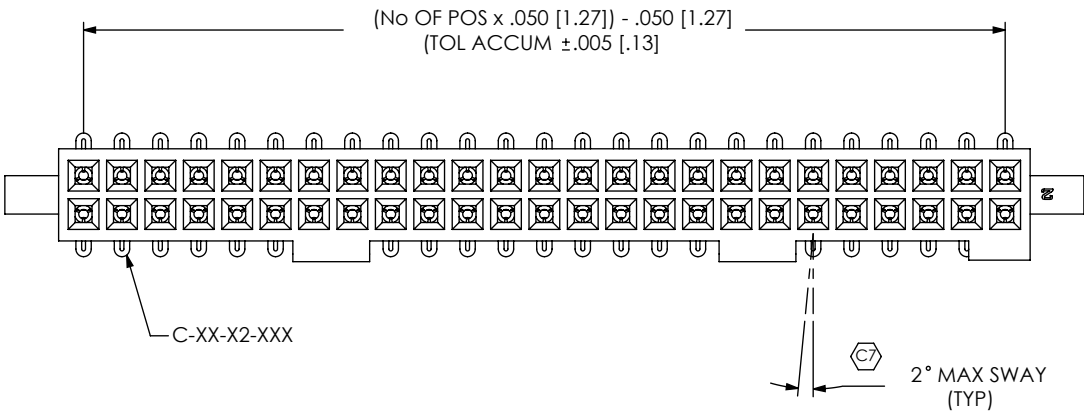
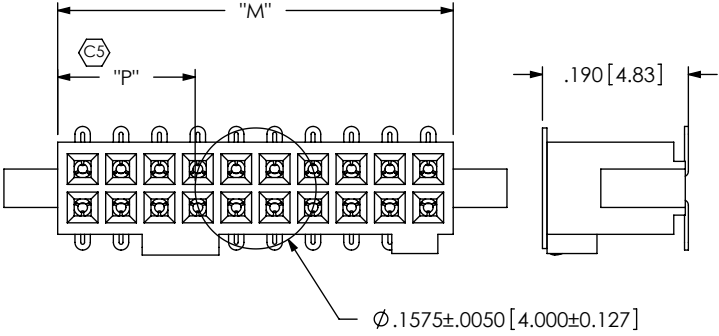
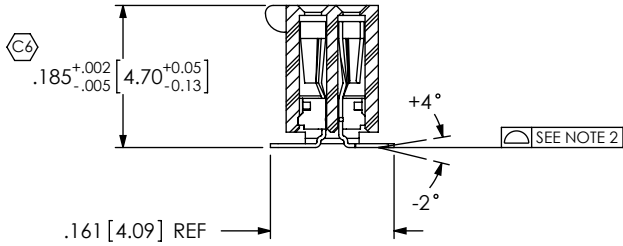


FIG 4  
-K: POLYIMIDE FILM PAD OPTION  
(SHOWN: SFML-110-X2-X-D-K)  
(ALTERNATE CONSTRUCTION SHOWN)



NOTE:  
"M" = USED MEASURED DIMENSION (REF)  
"P" =  $\{("M" - .1575 [4.000]) / 2\} \pm .020 [.51]$



SECTION "C"-"C"

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	<p>520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code: 55322</p>	
	<p>DESCRIPTION: .050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY</p>	
	<p>DWG. NO. SFML-1XX-XX-XXX-D-XXX</p>	
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)

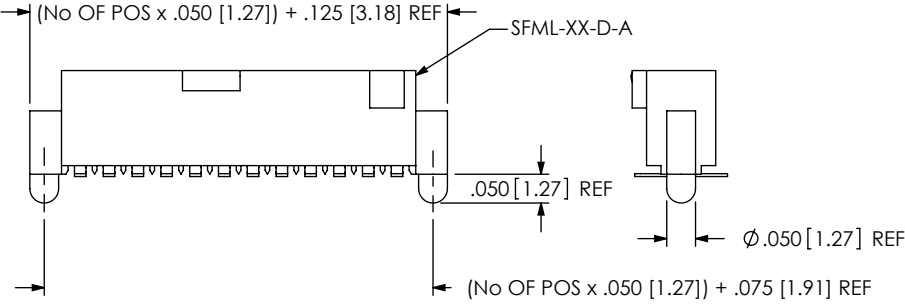


FIG 6

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

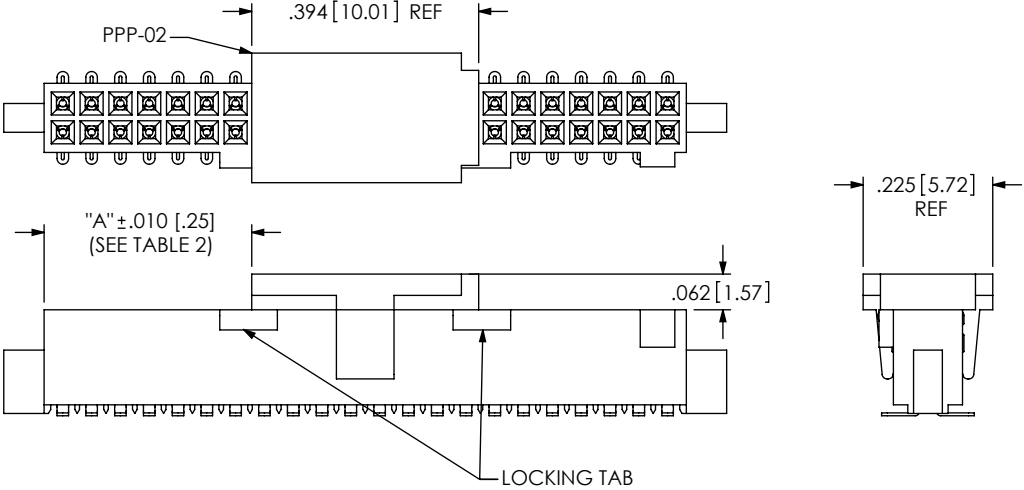
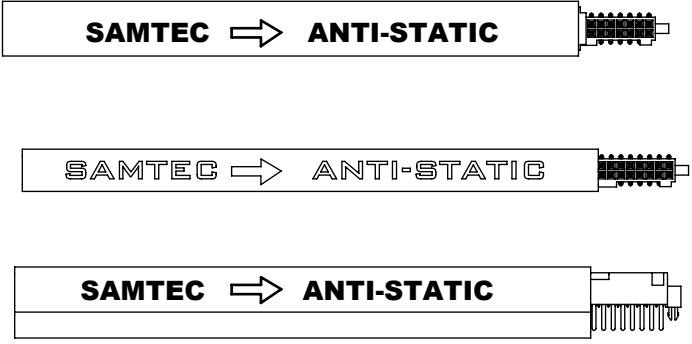
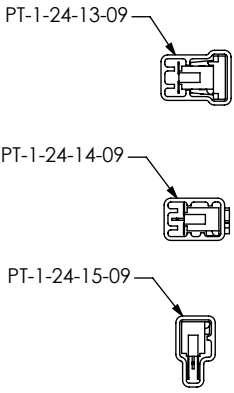


TABLE 2

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]

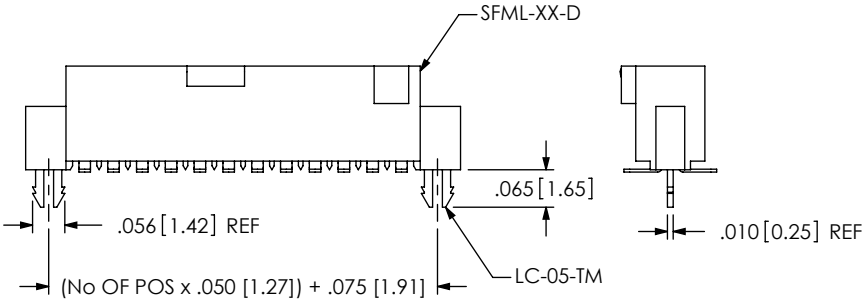
PACKAGE PARTS IN TUBES AS SHOWN  
(SEE NOTE 10)



LEAD STYLE	PACKAGING TUBE	PLUG
-X1-X, -X3-X (NO PAD)	PT-1-24-15-09	TP-24-02
-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

FIG 7

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



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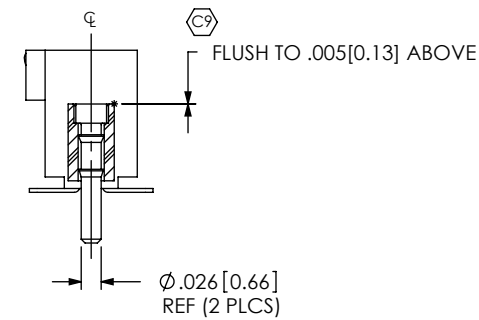
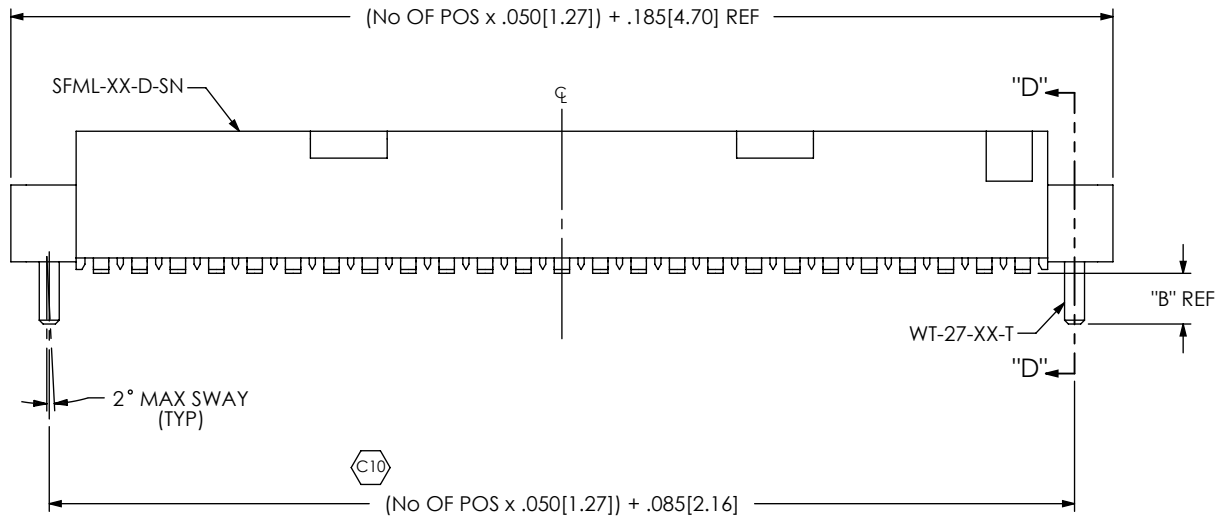
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code: 55322

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

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)



SECTION "D"-"D"

TABLE 3	
OPTION	"B"
-SN	.066[1.68]
SN2	.101[1.80]

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DESCRIPTION: .050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY		DWG. NO. <b>SFML-1XX-XX-XXX-D-XXX</b>	
BY: BRATCHER 4/19/99		SHEET 4 OF 4	

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