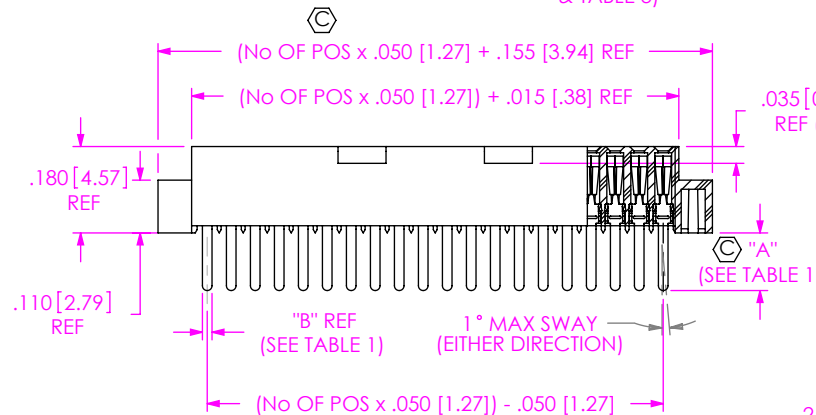
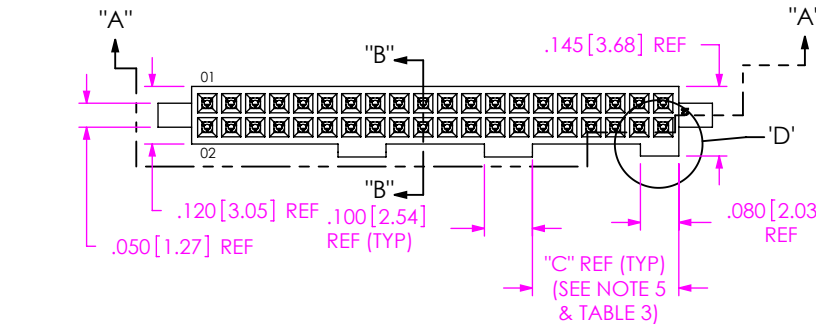


| TABLE 1 |             |            |
|---------|-------------|------------|
| STYLE   | "A"         | "B"        |
| -X1     | .120 [3.05] | .020 [.51] |
| -X3     | .075 [1.91] | .016 [.41] |

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

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

DO NOT SCALE FROM THIS PRINT



SECTION "A"- "A"

FIG 1 THROUGH HOLE/STRAIGHT MODIFIED (SHOWN: SFML-120-X1-XXX-D)

- NOTES:
1. REPRESENTS A CRITICAL DIMENSION.
  2. COPLANARITY: .004 [.10] FOR POS. 04 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, 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.
  11. TUBES ARE STANDARD PACKAGING.
  12. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
  13. ATTACH LABEL -4X2 TO EACH REEL.
  14. LOAD VISION TRAYS WITH PIN #1 OPPOSITE STANDARD - AWAY FROM THE TERMINAL INDICATOR SIDE OF TRAY.

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)

PACKAGING

- BLANK: TUBES (SEE NOTE 11)
- TR: TAPE & REEL (SEE NOTES 12 & 13)
- FR: FULL REEL QTY TAPE & REEL (SEE NOTES 12 & 13)
- (-XR N/A WITH -X1 AND -X3 LEAD STYLE, SEE FIG 2, SHT 2)

PICK AND PLACE OPTION

- P: PICK & PLACE PAD (SEE FIG 6, SHT 3) (USE PPP-02) (NOT AVAILABLE IN 5 POS)
- K: POLYIMIDE FILM PAD (SEE FIG 4, SHT 2) (USE K-DOT-.157-.250-.005)

OPTIONS

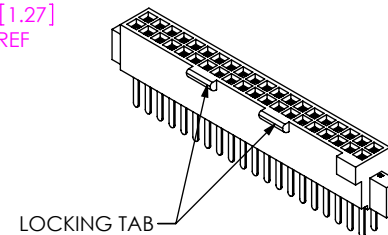
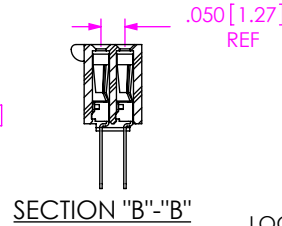
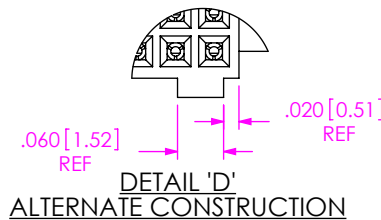
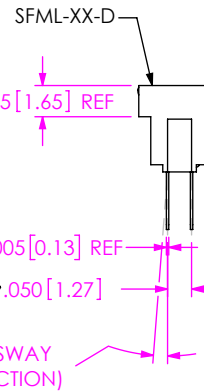
- (LEAVE BLANK FOR STANDARD AND USE SFML-XX-D)
- A: ALIGNMENT PIN (USE SFML-XX-D-A) (SEE FIG 5, SHT 3)
- LC: LOCKING CLIP (SEE FIG 7, SHT 3) (USE (2) LC-05-TM & SFML-XX-D) (SEE NOTE 9)
- SN: SOLDER NAIL (USE SFML-XX-D-SN & WT-27-01-T) (SEE FIG 8, SHT 4) (AVAILABLE ON -X2 LEAD STYLES ONLY)
- SN2: SOLDER 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



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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MATERIAL: DO NOT SCALE DRAWING

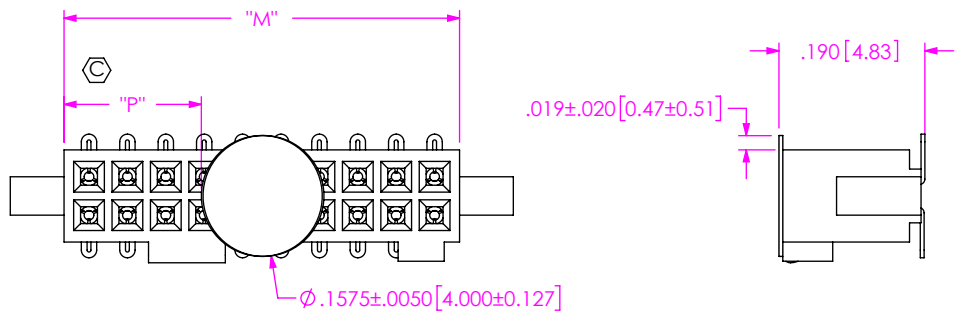
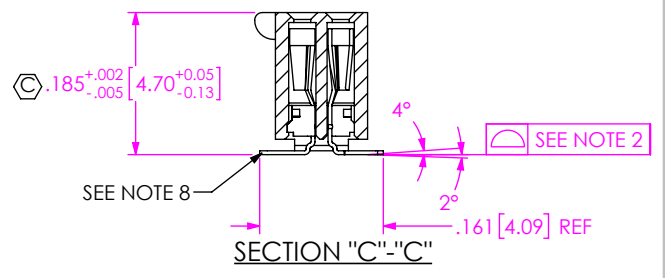
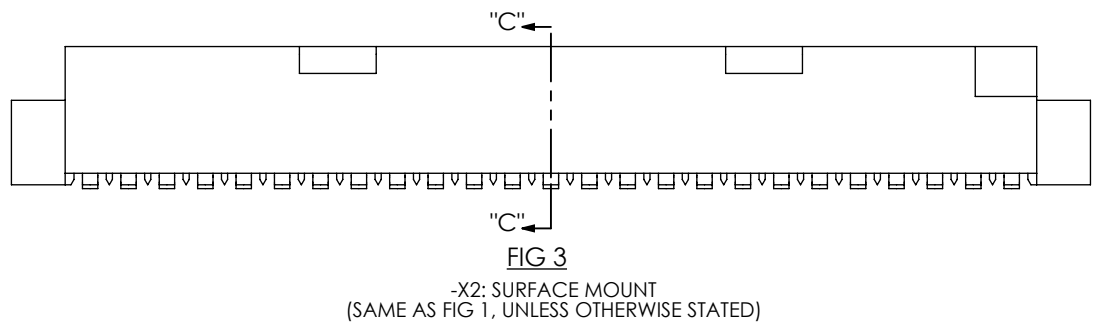
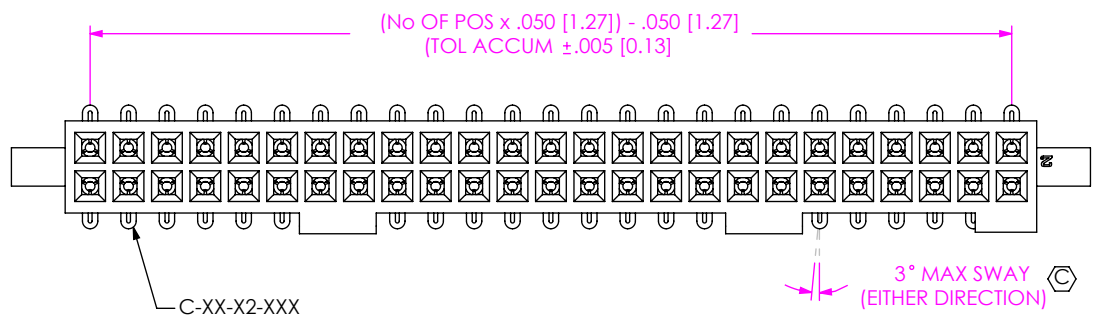
INSULATOR:  
VECTRA E130i, LCP UL 94 VO  
COLOR: BLACK  
CONTACT: BeCu  
PHOS BRONZE

SHEET SCALE: 2.5:1

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

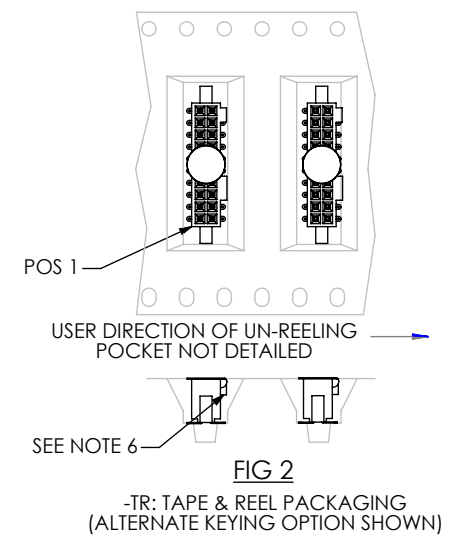
DWG. NO.  
SFML-1XX-XX-XXX-D-XXX-X-XX

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

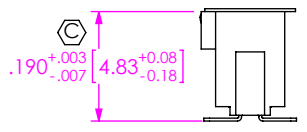


NOTE:  
 "M" = USED MEASURED DIMENSION (REF)  
 "P" =  $\{ ("M" - .1575 [4.000]) / 2 \} \pm .020 [0.51]$

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



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



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

IN-PROCESS

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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-X-XX**

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

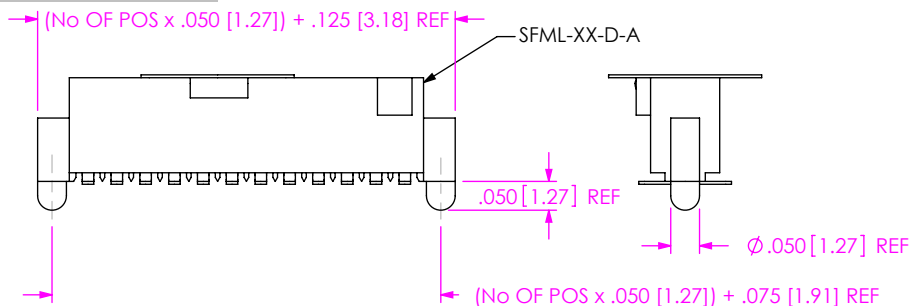


FIG 5

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

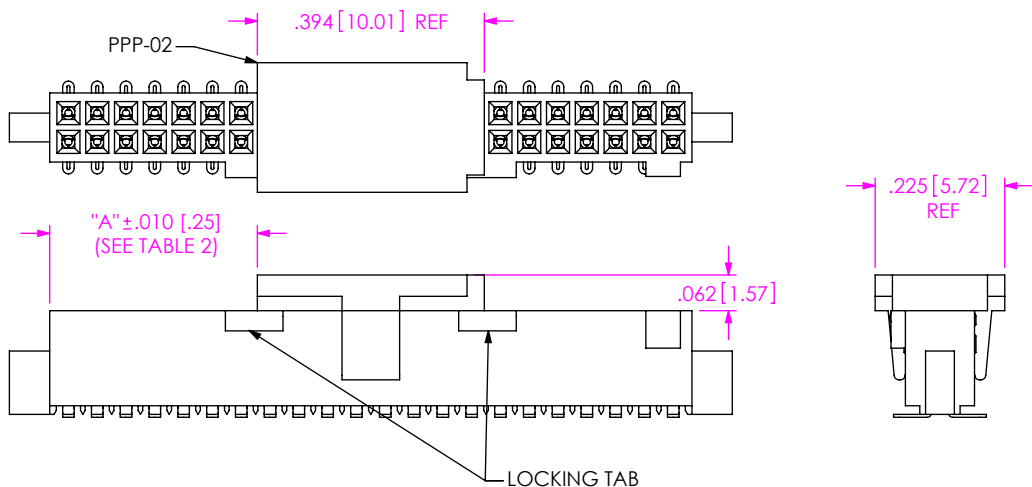
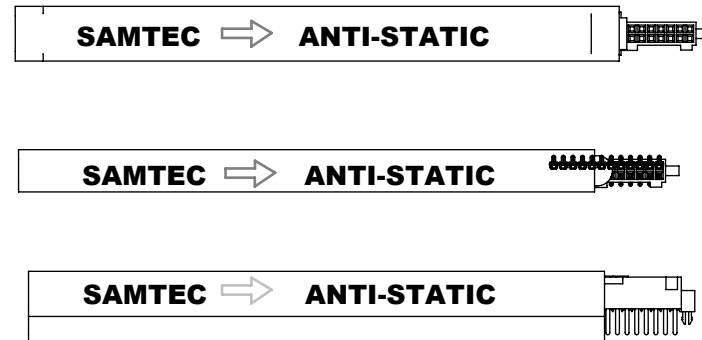
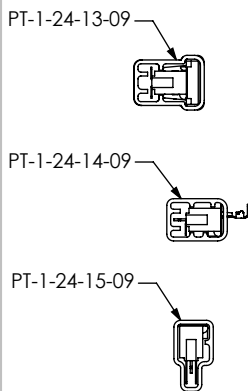


FIG 6

-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, -X3-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 |

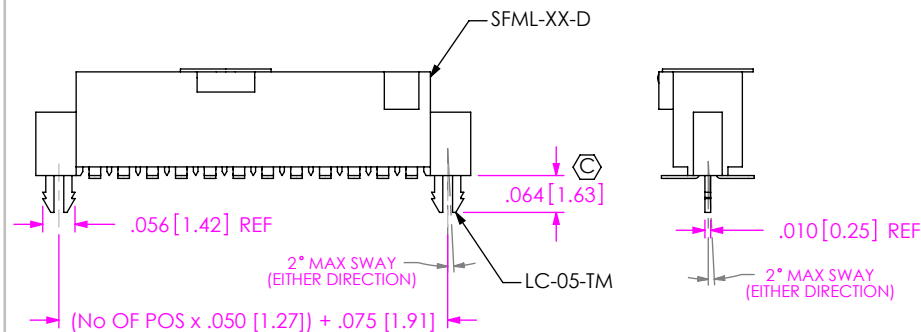


FIG 7

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

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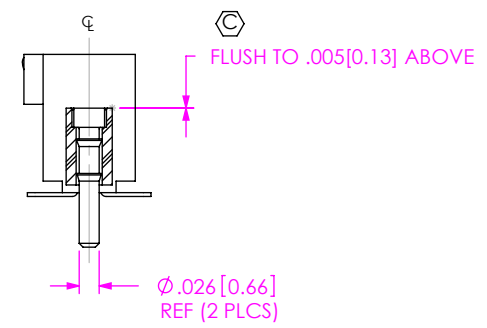
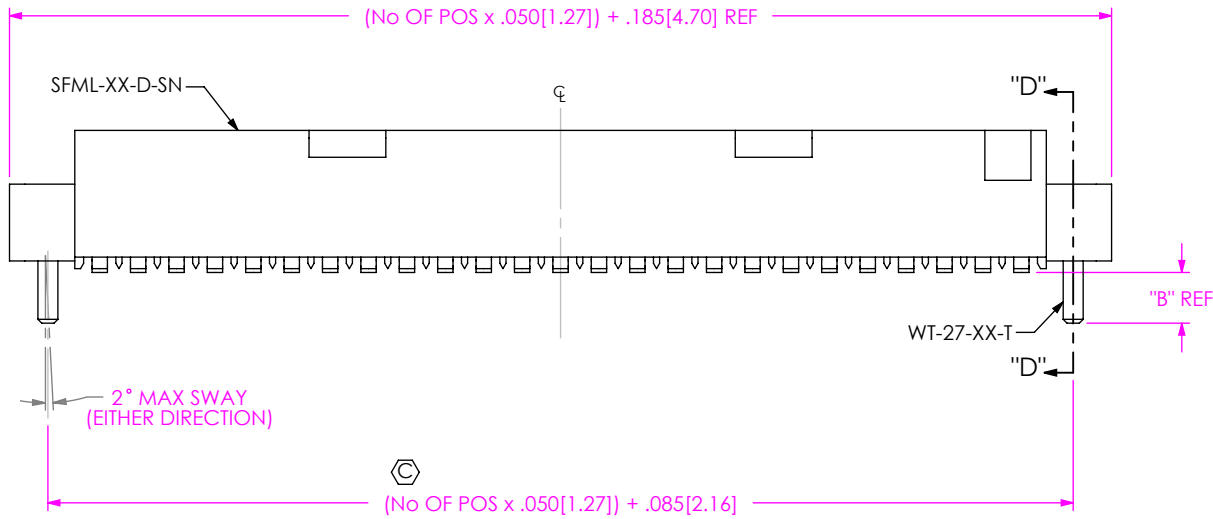


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e-Mail: info@SAMTEC.com code: 55322

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

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

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



SECTION "D"-"D"

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

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**SFML-1XX-XX-XXX-D-XXX-X-XX**

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