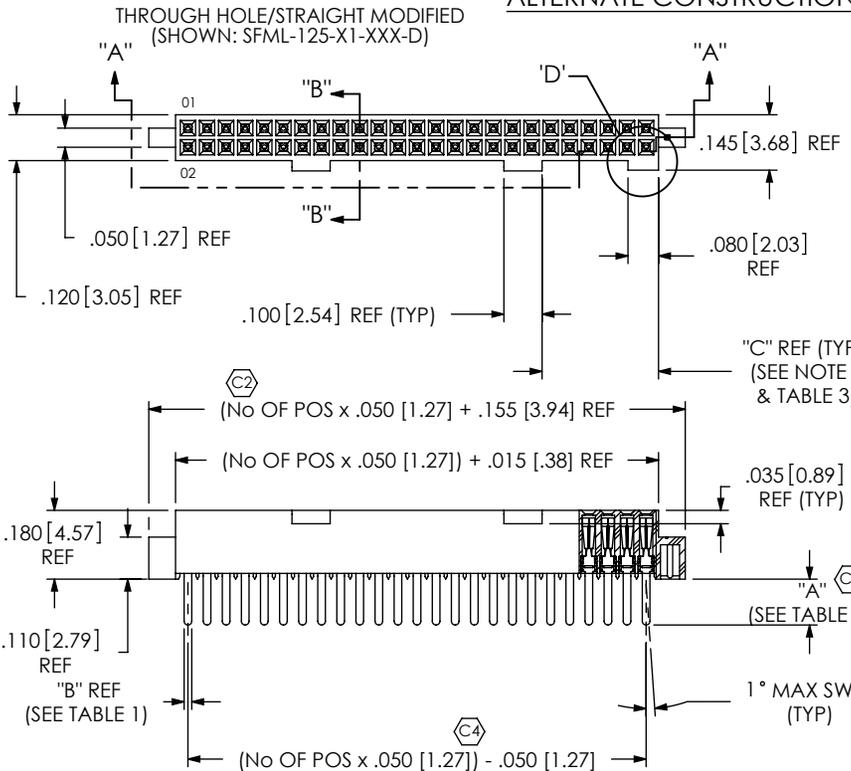


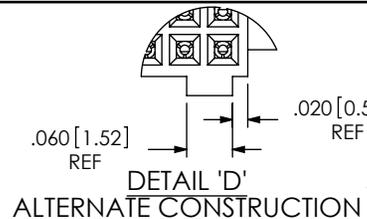
| STYLE | "A" | "B" |
|-------|-------------|------------|
| -X1 | .120 [3.05] | .020 [.51] |
| -X3 | .075 [1.91] | .016 [.41] |

FIG. 1



SECTION "A"-A

SECTION "B"-B



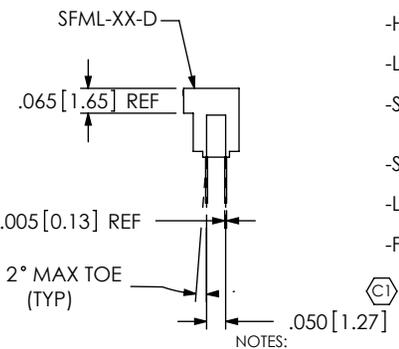
- LEAD STYLE**
- 01: THROUGH HOLE (USE C-44-01-XXX, SEE FIG 1, SHT 1)
 - 02: SURFACE MOUNT (USE C-44-02-XXX, SEE FIG 3, SHT 2)
 - 03: STRAIGHT MODIFIED (USE C-44-03-XXX, SEE FIG 1, SHT 1)
 - L1: THROUGH HOLE (LOW INSERTION) (USE C-61-01-XXX, SEE FIG 1, SHT 1)
 - L2: SURFACE MOUNT (LOW INSERTION) (USE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

No. OF POSITIONS
-05, -07, -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**

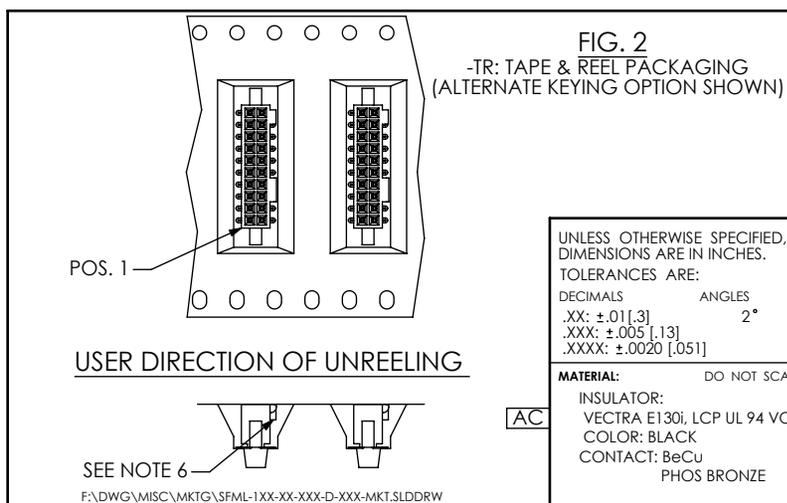
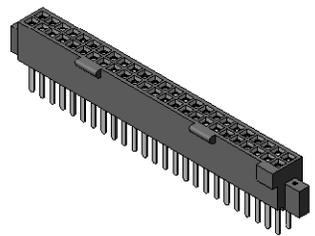
- AC**
- S: SELECTIVE, 30 Au / 50 Ni MIN, MATTE TIN TAIL
 - F: FLASH SELECTIVE, 3 Au / 50 Ni MIN, MATTE TIN TAIL
 - H: HEAVY GOLD, 30 Au / 50 Ni MIN, 3 Au / 50 Ni MIN ON TAIL
 - L: LIGHT SELECTIVE, 10 Au / 50 Ni ON CONTACT, MATTE TIN TAIL
 - STL: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, TIN/LEAD (90/10+/-5%) (ONLY AVAILABLE ON -02 AND -L2 LEADSTYLES)
 - SM: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
 - LM: LIGHT SELECTIVE, 10 Au / 50 Ni MIN ON CONTACT, MATTE TIN TAIL
 - FM: FLASH SELECTIVE, 3 Au / 50 Ni MIN ON CONTACT, MATTE TIN 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.

| 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 [.3] | 2° |
| .XXX: ±.005 [.13] | |
| .XXXX: ±.0020 [.051] | |

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1

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

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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: 53322

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)

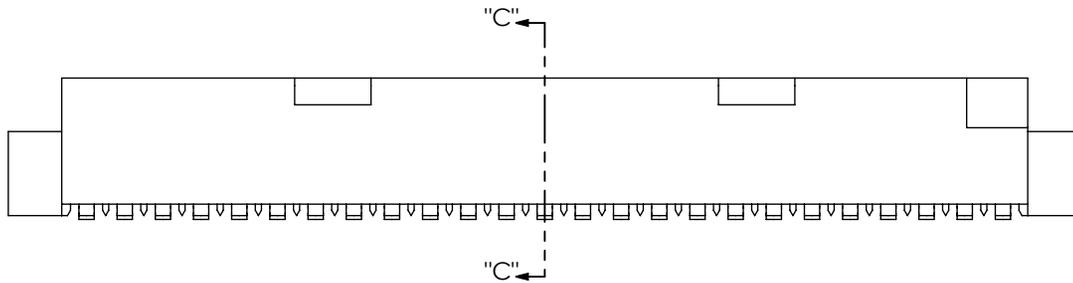
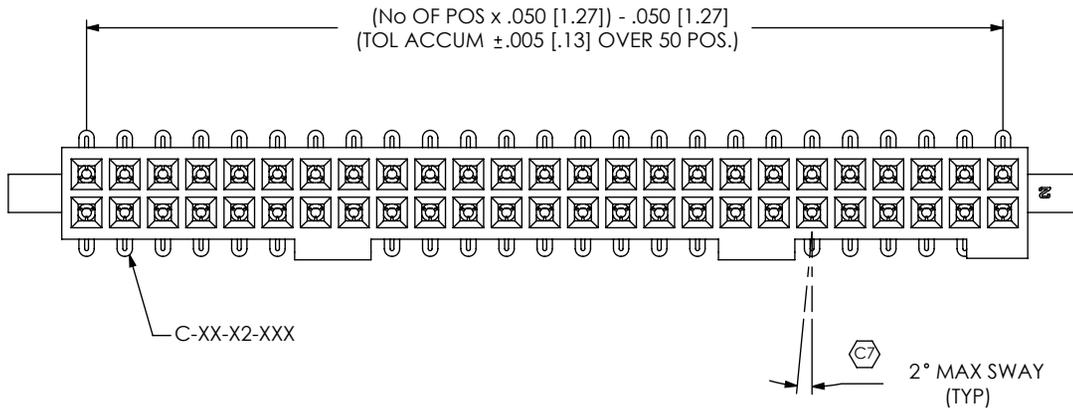
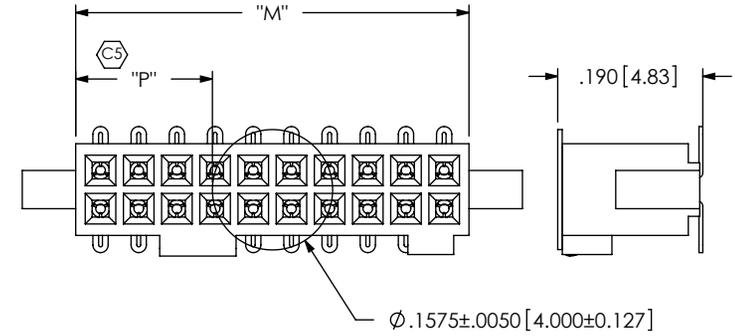
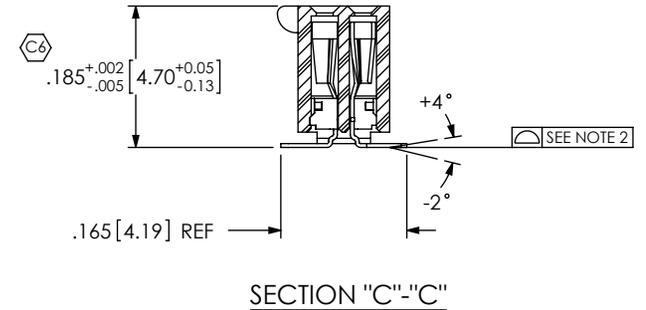


FIG. 4
 -K: POLYIMIDE FILM PAD OPTION
 (SHOWN: SFML-110-X2-X-D-K)
 (ALTERNATE CONSTRUCTION SHOWN)



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



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

| | | |
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| | <p>DESCRIPTION: .050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY</p> | |
| | <p>DWG. NO. SFML-1XX-XX-XXX-D-XXX</p> | |
| | <p>BY: BRATCHER 4/19/99</p> | <p>SHEET 2 OF 4</p> |

FIG. 5

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

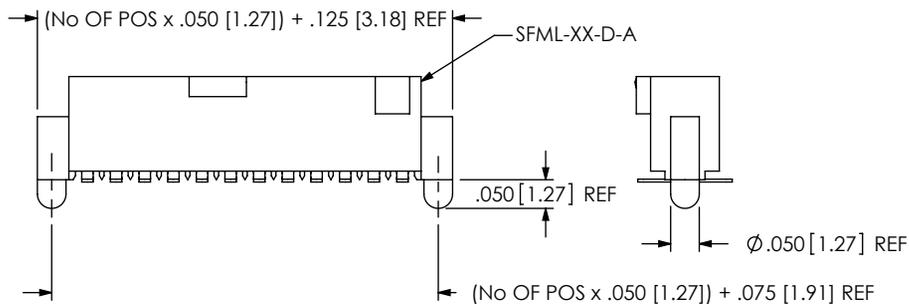


FIG. 6

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

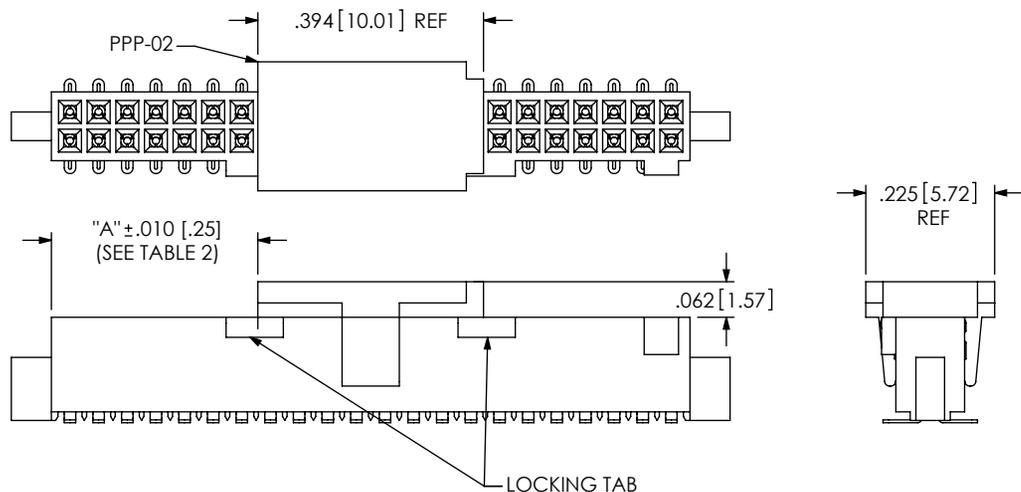
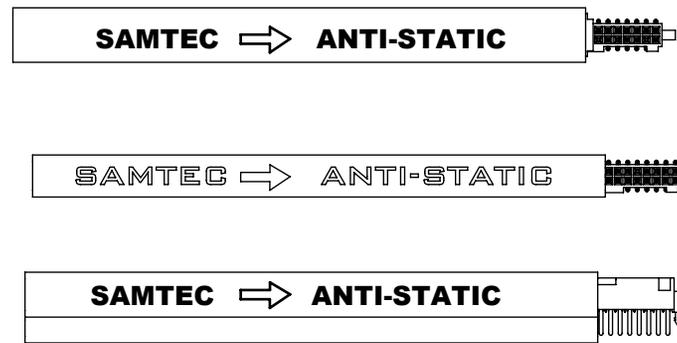
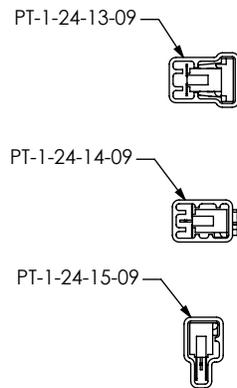


TABLE 2

| 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] |

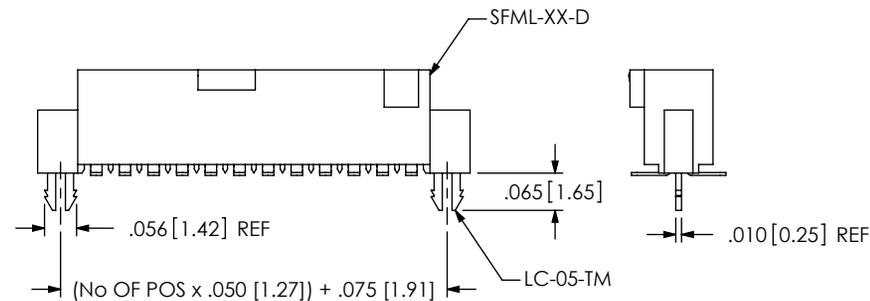
PACKAGE PARTS IN TUBES AS SHOWN
(SEE NOTE TO)



| 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-1-24-02-17 | TP-09 |
| -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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SHEET SCALE: 3:1



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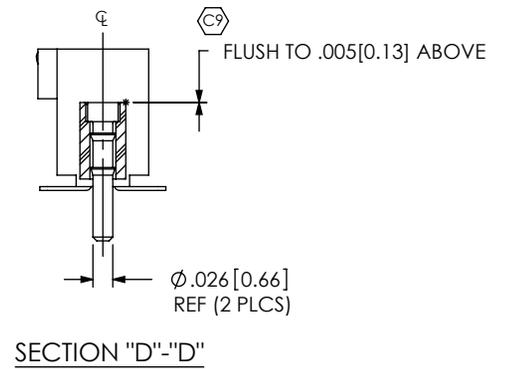
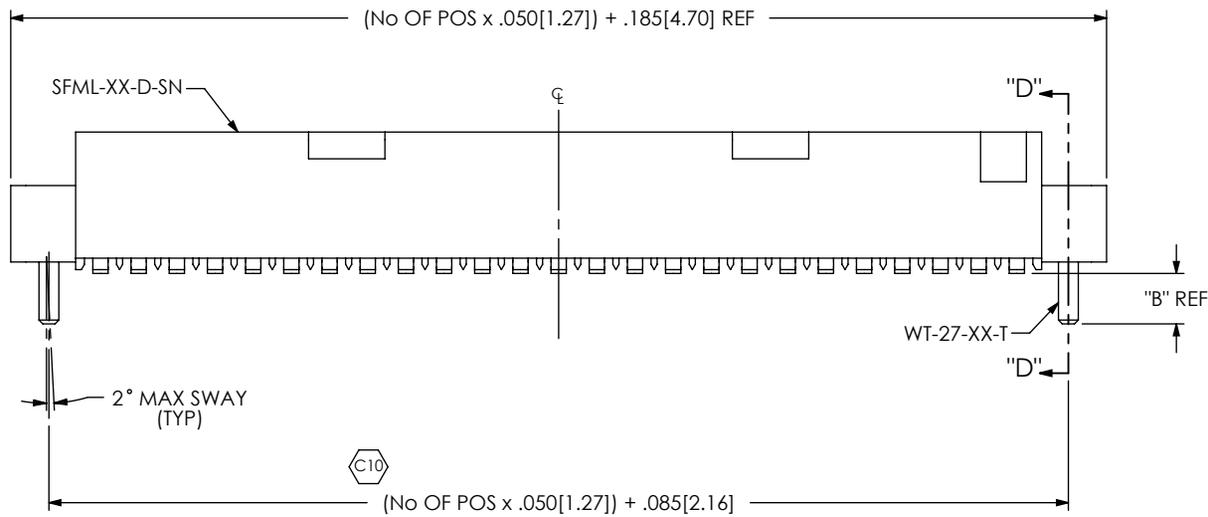
DWG. NO.

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

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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)



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

| | | |
|---|--|---------------------|
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