REVISION Q

TABLE 1

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

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

.020[0.51] REF

.060[1.52] REF

DETAIL 'D'
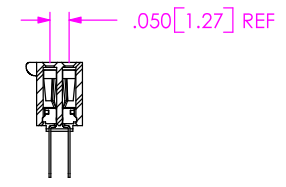ALTERNATE CONSTRUCTION
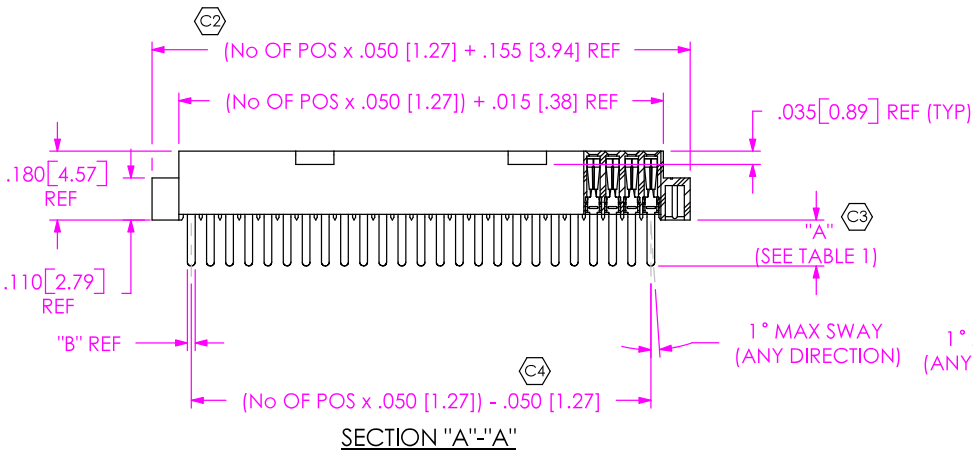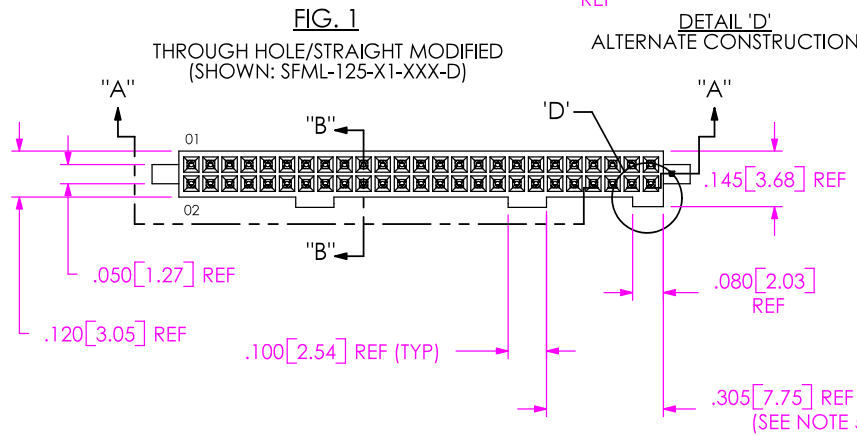
No OF POSITIONS
-10 THRU -50
(PER ROW)

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)
- -P: PICK & PLACE PAD (SEE FIG 6, SHT 3)
  (USE PPP-02)
- -TR: TAPE & REEL PACKAGING
  (SEE FIG 2, SHT 1)
- -K: POLYAMIDE 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)

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)

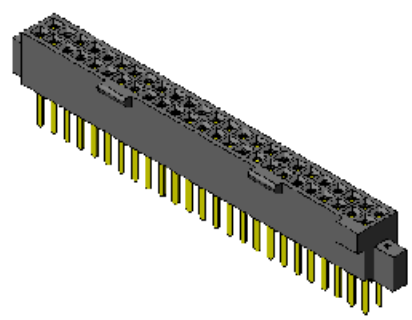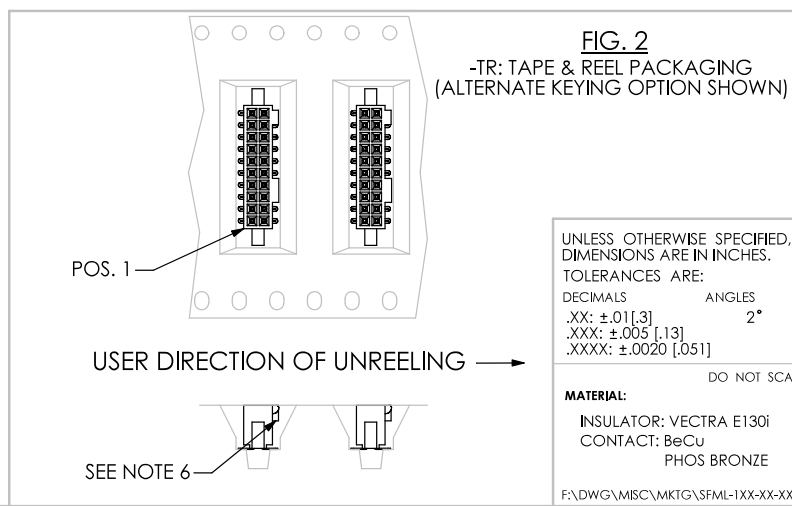**ROW SPECIFICATION**
- -D: DOUBLE ROW
  (USE SFML-XX-D-X)

PLATING SPECIFICATION
- -S: SELECTIVE
- -P: GOLD FLASHED PALLADIUM
  NICKEL
- -F: FLASH SELECTIVE GOLD
- -H: HEAVY GOLD
- -L: LIGHT SELECTIVE GOLD
- -STL: SELECTIVE GOLD/ TIN-LEAD
  (ONLY AVAILABLE ON -02 AND -L2
  LEADSTYLES)
- -SM: HEAVY SELECTIVE GOLD, MATTE TIN TAIL
- -LM: LIGHT SELECTIVE GOLD, MATTE TIN TAIL
- -FM: FLASH SELECTIVE GOLD, MATTE TIN TAIL

FIG. 1
THROUGH HOLE/STRAIGHT MODIFIED
(SHOWN: SFML-125-X1-XXX-D)

"A"
"B"
01
02
"B"
'D'
"A"

.145[3.68] REF
.080[2.03] REF

.050[1.27] REF
.120[3.05] REF
.100[2.54] REF (TYP)
.305[7.75] REF (TYP)
(SEE NOTE 5)

* = NOT RELEASED FOR PRODUCTION

C2
(No OF POS x .050 [1.27] + .155 [3.94] REF
(No OF POS x .050 [1.27]) + .015 [.38] REF

.035[0.89] REF (TYP)

SFML-XX-D

.065[1.65] REF

.050[1.27] REF

.180[4.57] REF
.110[2.79] REF
"B" REF

"A"
C3
(SEE TABLE 1)

.005[0.13] REF

1° MAX SWAY
(ANY DIRECTION)

1° MAX TOE
(ANY DIRECTION)

C4
(No OF POS x .050 [1.27]) - .050 [1.27]

C1
.050[1.27]

SECTION "A"-"A"

SECTION "B"-"B"

NOTES:
1. Ⓒ 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 -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].
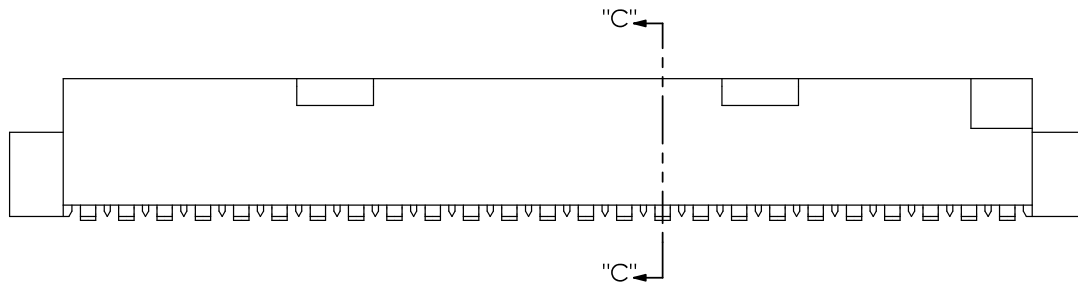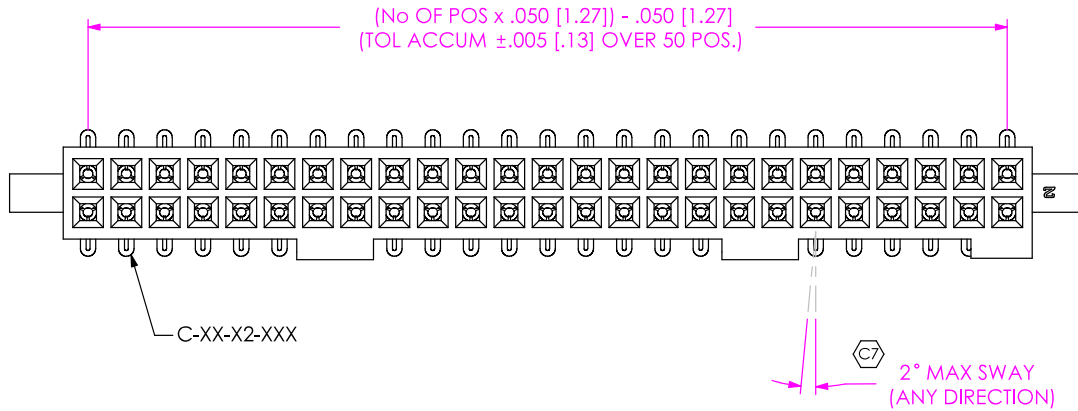9. TUBE PARTS WITH NOTCH TOWARD ARROW.

C8
Q

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

POS. 1

USER DIRECTION OF UNREELING →

SEE NOTE 6

MATERIAL:
INSULATOR: VECTRA E130i
CONTACT: BeCu
PHOS BRONZE

DO NOT SCALE DRAWING   SHEET SCALE: 2:1
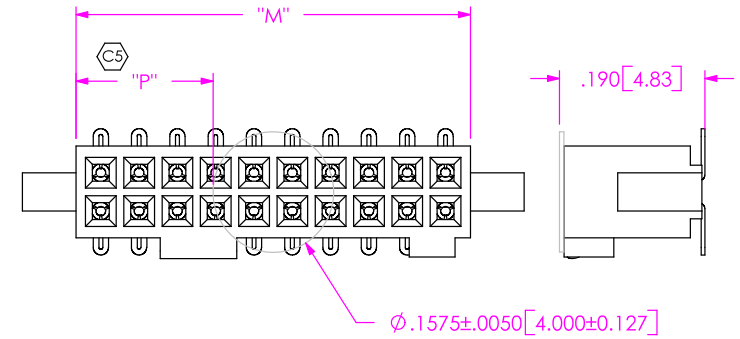
F:\DWG\MISC\MKTG\SFML-1XX-XX-XXX-D-XX-MKT.SLDDRW

S A M T E C
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-XX

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

REVISION Q

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

(No OF POS x .050 [1.27]) - .050 [1.27]
(TOL ACCUM ±.005 [.13] OVER 50 POS.)

C-XX-X2-XXX

⬡C7 2° MAX SWAY
(ANY DIRECTION)

"C"

"C"

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

"M"

⬡C5
"P"

.190[4.83]

ϕ.1575±.0050[4.000±0.127]

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

⬡C6
$.185^{+.002}_{-.005}$ $\left[4.70^{+0.05}_{-0.13}\right]$

+4°

⬡ SEE NOTE 2

-2°

.165[4.19] REF

SECTION "C"-"C"

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

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

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

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

FIG. 5
-A: ALIGNMENT PIN OPTION
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)
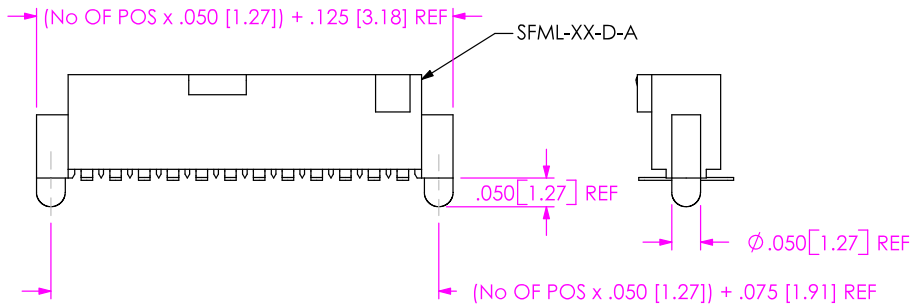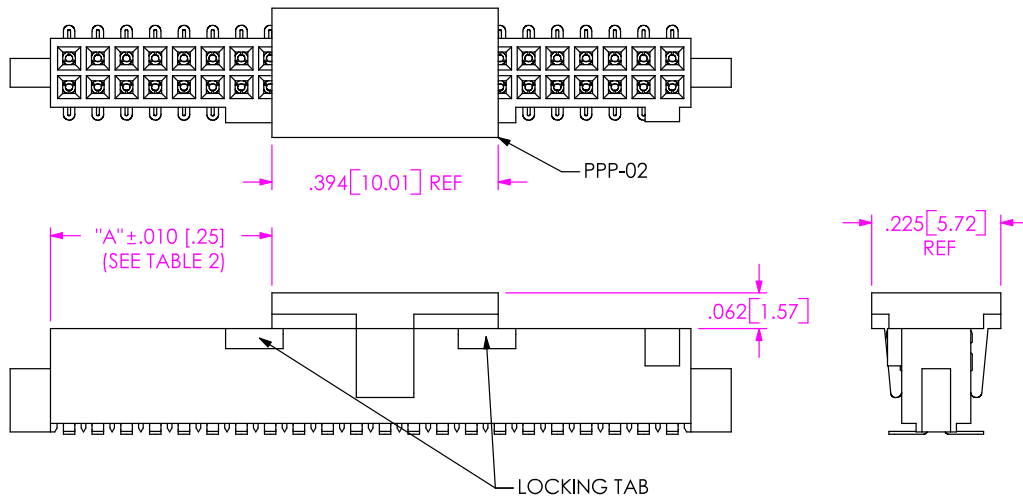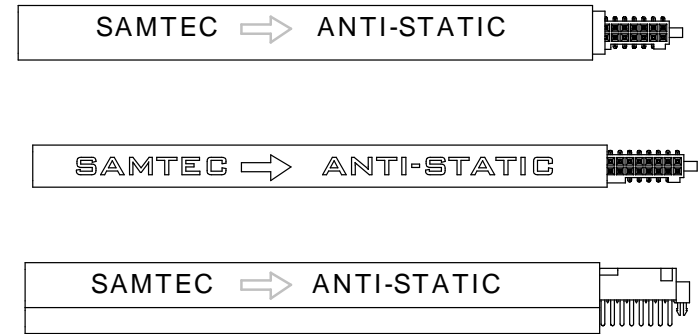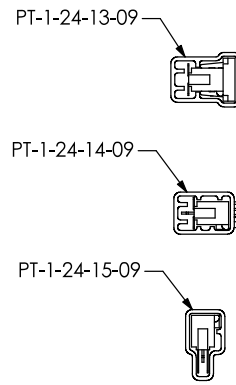(ALTERNATE CONSTRUCTION SHOWN)

(No OF POS x .050 [1.27]) + .125 [3.18] REF

SFML-XX-D-A

.050 [1.27] REF

Ø.050 [1.27] REF

(No OF POS x .050 [1.27]) + .075 [1.91] REF

PACKAGE PARTS IN TUBES AS SHOWN
(SEE NOTE 9)   Q

PT-1-24-13-09

SAMTEC ⇒ ANTI-STATIC

PT-1-24-14-09

SAMTEC ⇒ ANTI-STATIC

PT-1-24-15-09

SAMTEC ⇒ ANTI-STATIC

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

FIG. 6
-P: PICK & PLACE PAD OPTION
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)
(ALTERNATE CONSTRUCTION SHOWN)

.394 [10.01] REF

PPP-02

"A" ±.010 [.25]
(SEE TABLE 2)

.225 [5.72] REF

.062 [1.57]

LOCKING TAB

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

SFML-XX-D

.065 [1.65]

.010 [0.25] REF

.056 [1.42] REF

LC-05-TM

(No OF POS x .050 [1.27]) + .075 [1.91]

TABLE 2	
POS.	"A"
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]
-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]

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

DESCRIPTION:
.050 [1.27] x .050 [1.27] LOCKING SOCKET ASSEMBLY
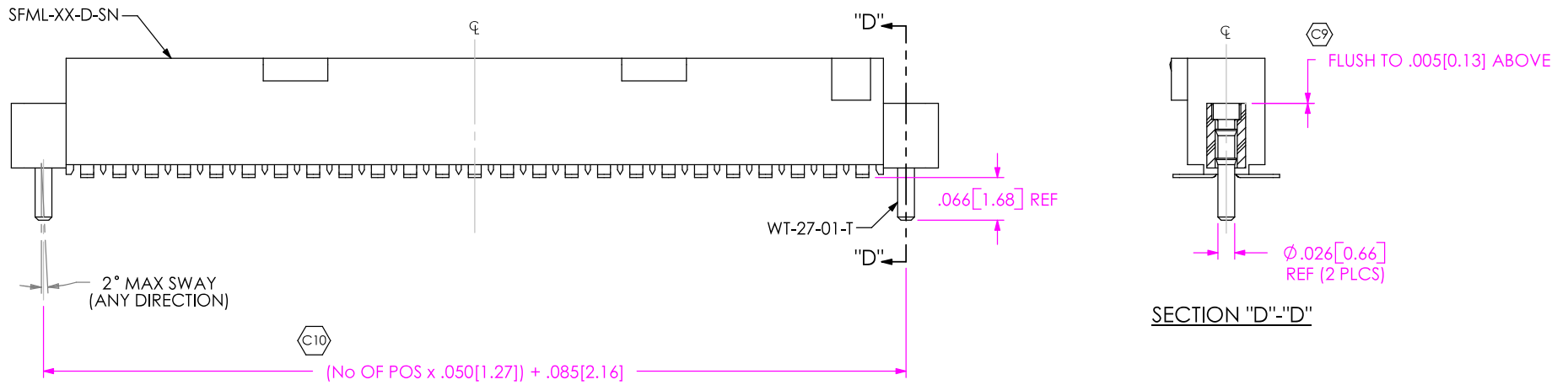
DWG. NO.
SFML-1XX-XX-XXX-D-XX

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

FIG. 8
* -SN: SOLDER NAIL OPTION
(SHOWN: SFML-125-02-XXX-D-SN)
(SAME AS FIG. 1, UNLESS OTHERWISE STATED)
(ONLY AVAILABLE ON -X2 LEAD STYLES)
* = NOT RELEASED FOR PRODUCTION

SFML-XX-D-SN

"D"

FLUSH TO .005[0.13] ABOVE

WT-27-01-T

.066[1.68] REF

"D"

Ø.026[0.66]
REF (2 PLCS)

2° MAX SWAY
(ANY DIRECTION)

C10

(No OF POS x .050[1.27]) + .085[2.16]

C9

SECTION "D"-"D"

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

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

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

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