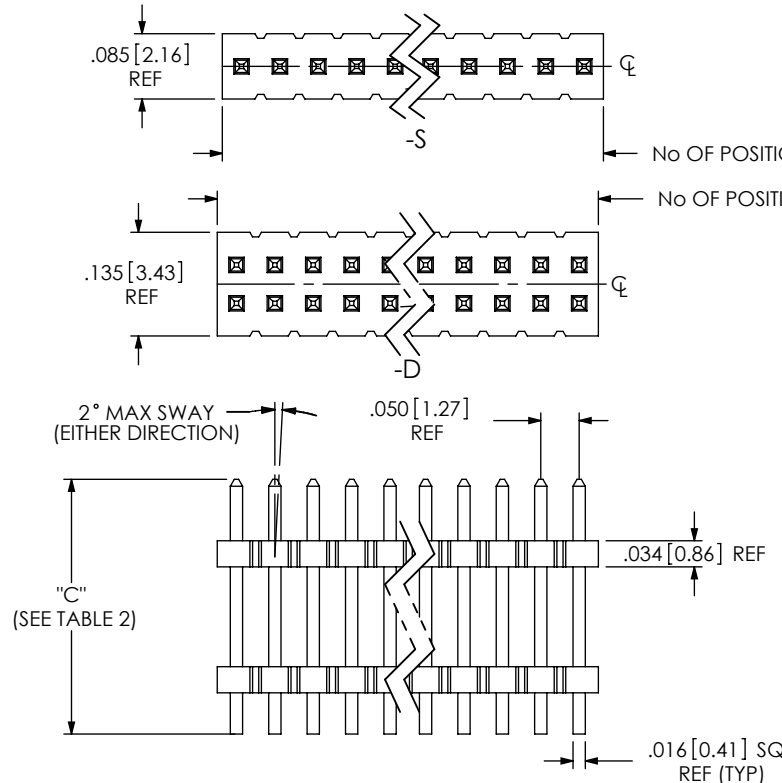


- NOTES:
1. MAXIMUM ALLOWABLE BOW: .003[0.08] IN/IN AFTER ASSEMBLY.
  2. MINIMUM PUSHOUT FORCE SHALL BE .5 LB ON BOARD STYLE .070[1.78]-.198[5.03] AND 1 LB ON BOARD STYLE .199[5.05]-.690[17.53].
  3. GOLD AREA TO APPEAR ON POST.
  4. TAILS SHEARED TO DIMENSIONS SHOWN.
  5. LAYER PACKAGE ALL -S. LAYER PACKAGE -D POSITIONS 2-10. TUBE PACKAGE -D POSITIONS 11-50.
  6. AVAILABLE ONLY W/BOARD SPACE .215[5.46] TO .610[15.49].
  7. "B" = POST DIMENSION + BOARD SPACE.
  8. MAXIMUM CUT FLASH: .010 [0.25].
  9. FILL BODY SO THAT THE LEAD IN OF THE CORE IS ON THE TAIL SIDE.
  10. REPRESENTS A CRITICAL DIMENSION.
  11. FOR ADDED MECHANICAL STABILITY, SAMTEC RECOMMENDS MECHANICAL BOARD SPACERS BE USED IN APPLICATIONS WITH GOLD OR SELECTIVE GOLD PLATED CONNECTORS. CONTACT IPG@SAMTEC.COM FOR MORE INFORMATION.

DO NOT  
SCALE FROM  
THIS PRINT



| TABLE 2      |                             |            |
|--------------|-----------------------------|------------|
| TERMINAL     | "C"                         | ROW OPTION |
| T-1S15-10-XX | .401 [10.19] - .750 [19.05] | D          |
| T-1S15-03-XX | .401 [10.19] - .750 [19.05] | S          |
| T-1S15-04-XX | .170 [4.32] - .400 [10.16]  | D,S        |
| T-1S15-05-XX | .751 [19.08] - .800 [20.32] | D,S        |

| TABLE 3 *                  |            |                 |
|----------------------------|------------|-----------------|
| BOARD SPACE                | BODY STYLE | FIG             |
| .070 [1.78] - .198 [5.03]  | FTS-XX-DV  | 1               |
| .199 [5.05] - .690 [17.53] | FTSH-XX-D  | 2 (SEE SHEET 2) |

\*THIS TABLE APPLIES TO DOUBLE ROW ASSEMBLIES ONLY  
ALL SINGLE ROW ASSEMBLIES USE FTS-XX-SV

FW-XX-XX-XX-X-XXX-XXX-XX

POSITION SPEC  
No OF POS PER ROW  
-02 THRU -50

TAIL STYLE  
(SEE TABLE 1)  
(SEE TABLE 2 FOR  
TERMINAL PIN)

PLATING

- L: 10μ" LIGHT SELECTIVE GOLD IN CONTACT AREA  
MATTE TIN ON TAIL
- F: 3μ" FLASH SELECTIVE GOLD IN CONTACT AREA,  
MATTE TIN ON TAIL
- G: 10μ" GOLD IN CONTACT AREA  
3μ" ON TAIL
- H: 30μ" HEAVY GOLD IN CONTACT AREA  
3μ" ON TAIL
- LM: 10μ" LIGHT SELECTIVE GOLD IN CONTACT AREA  
MATTE TIN TAIL
- FM: 3μ" FLASH SELECTIVE GOLD IN CONTACT AREA  
MATTE TIN TAIL

OPTION

- ES: END SHROUDS (SEE FIG 4, SHT 2)  
(9 POS PER ROW MIN)  
(MAX POST: .075[1.91])  
(SEE NOTE 6)
- EP: GUIDE POST (FIG 3, SHT 2)  
(9 POS PER ROW MIN)  
(MAX POST: .075[1.91])  
(USE ONLY WHEN MATING WITH CLP)  
(SEE NOTE 6)

POST LENGTH

-XXX±.005 [0.13]  
.065 [1.65] MIN

BOARD SPACE

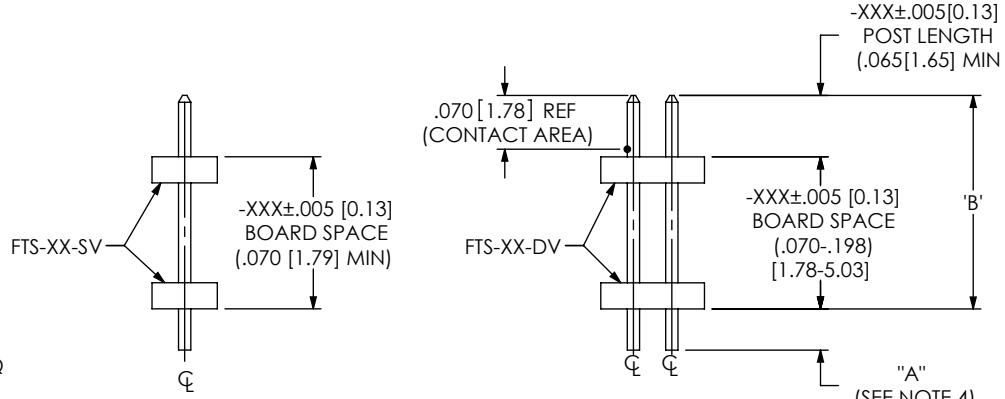
-XXX±.005 [0.13]  
(.070 [1.78] MIN) SEE TABLE 1 FOR MAX

ROW OPTION

- D: DOUBLE (SEE TABLE 3)
- S: SINGLE (USE 2 FTS-50-SV)

**\*DO NOT DESIGN -S: SINGLE ROW IN  
SAMTEC WILL ONLY SUPPORT EXISTING  
BUSINESS AS OF 10/17/97**

| TABLE 1    |             |              |
|------------|-------------|--------------|
| TAIL STYLE | "A"         | "B" MAX      |
| -01        | .045 [1.14] | .755 [19.18] |
| -02        | .075 [1.91] | .725 [18.42] |
| -04        | .090 [2.29] | .710 [18.03] |



-S  
(SEE -D FOR DIMENSIONING)

FIG 1  
FTS-XX-DV BODY STYLE  
FW-50-01-XX-D-198-045  
(BOARD SPACE .070-.198[1.78-5.03])

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:  
DECIMALS ANGLES  
.XX: ±.01 [.3] 5°  
.XXX: ±.005 [.13]  
.XXXX: ±.0020 [.051]

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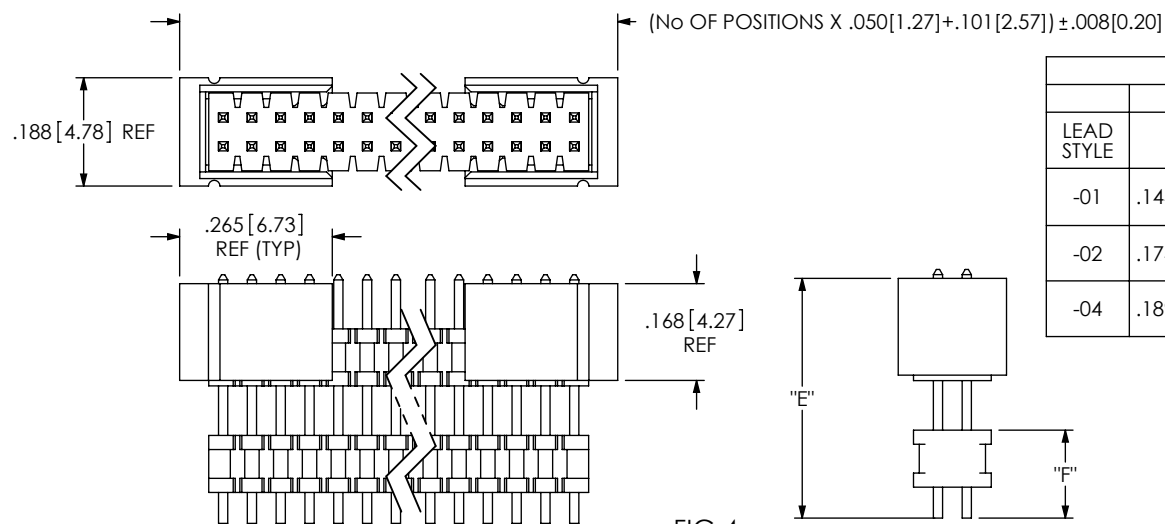
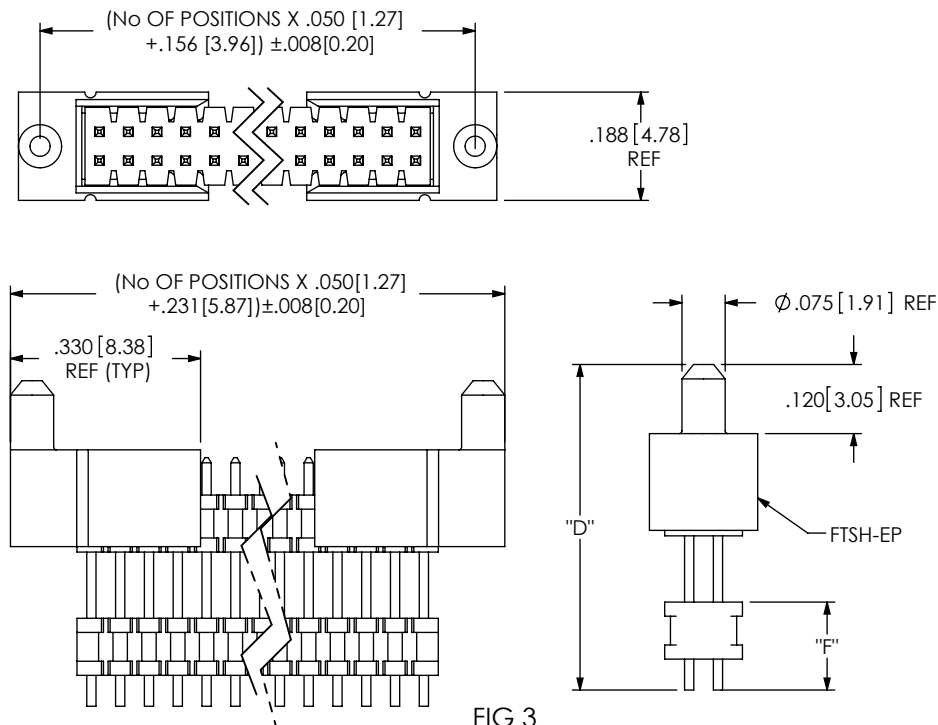
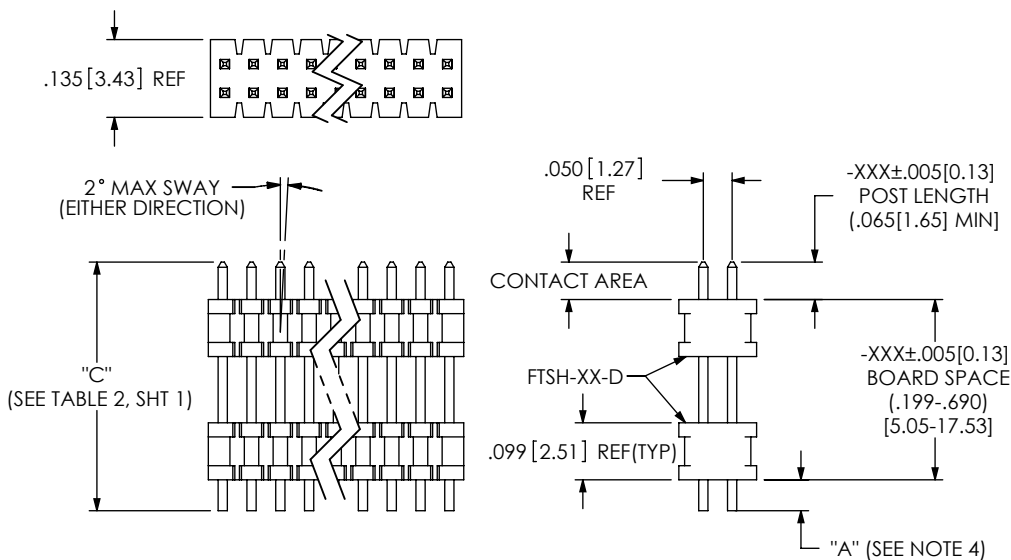
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 53322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 4:1  
FTS-XX-XX & FTSH-50-D: LCP,UL 94 VO, COLOR BLACK  
TERMINAL: PHOS BRONZE

DESCRIPTION:  
.050 x .050 SURFACE MOUNT BOARD SPACERS

DWG. NO.  
FW-XX-XX-XX-X-XXX-XXX-XX

BY: BRATCHER 4/8/94 SHEET 1 OF 3



| TABLE 5    |            |                        |                       |            |            |
|------------|------------|------------------------|-----------------------|------------|------------|
| LEAD STYLE | "F"        | "D" RANGE              | "E" RANGE             | BODY STYLE |            |
|            |            |                        |                       | UPPER BODY | LOWER BODY |
| -01        | .144[3.66] | .471-.866[11.96-22.00] | .351-.746[8.92-18.95] | FTSH-XX-D  | FTSH-XX-D  |
| -02        | .174[4.42] | .501-.896[12.73-22.76] | .381-.776[9.68-19.71] | FTSH-XX-D  | FTSH-XX-D  |
| -04        | .189[4.80] | .516-.911[13.11-23.14] | .396-.79[10.06-20.09] | FTSH-XX-D  | FTSH-XX-D  |

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SHEET SCALE: 4:1

**samtec**

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 x .050 SURFACE MOUNT BOARD SPACERS

DWG. NO.  
**FW-XX-XX-XX-X-XXX-XXX-XX**


BY: BRATCHER 4/8/94

SHEET 2 OF 3

| TABLE 4     |         |                              |                           |                         |  |       |
|-------------|---------|------------------------------|---------------------------|-------------------------|--|-------|
| LEAD STYLE  | OPTIONS | BOARD STYLE/HEIGHT           | BOARD SPACE               | * "C" DIMENSION         | FOR DOUBLE ROW OPTIONS ONLY PACKAGING TUBE | PLUG  |
| -01,-02,-04 | NONE    | FTS                          | .070-.198<br>[1.78-5.03]  | 0-.350 [0-8.89]         | PT-FW001-D-.070-.198                       | TP-24 |
| -01,-02,-04 | NONE    | FTS                          | .070-.198<br>[1.78-5.03]  | .351-.800 [8.92-20.32]  | PT-FW007-D-.070-.198                       | TP-24 |
| -01,-02,-04 | NONE    | FTSH (.199-.253) [5.05-6.43] | .199-.235<br>[5.05-5.97]  | 0-.415 [0-10.54]        | PT-FW002-D-.199-.253                       | TP-24 |
| -01,-02,-04 | NONE    | FTSH(.236-.690) [6.00-17.53] | .236-.690<br>[6.00-17.53] | .416-.800 [10.57-20.32] | PT-FW003-D-.254-690                        | TP-24 |
| -01,-02,-04 | EP,ES   | .199-.690 [5.05-17.53]       |                           | .800 MAX [20.32 MAX]    | PT-FW004-0X-D-EX                           | TP-24 |
| -01,-02,-04 | NONE    | FTSH                         | .199-.235<br>[5.05-5.97]  | .416-.800 [10.57-20.32] | PT-FW008-.199-.253                         | TP-24 |

PLEASE CHECK BOARD SPACE AND "C" DIMENSION WHEN SETTING UP BOMS".

\*"C" DIMENSION"=POST LENGTH + BOARD SPACE +"A"

|   |   |              |
|---|---|--------------|
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|   | DESCRIPTION:<br>.050 x .050 SURFACE MOUNT BOARD SPACERS   |              |
|   | DWG. NO.<br><b>FW-XX-XX-XX-X-XXX-XXX-XX</b>   |              |
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