DO NOT SCALE FROM THIS PRINT

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. FOR FTS-XX-DV, 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.

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

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

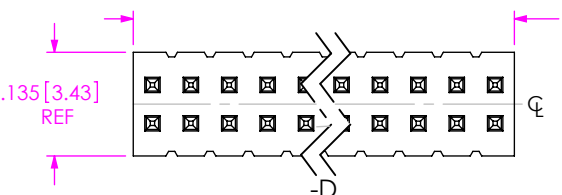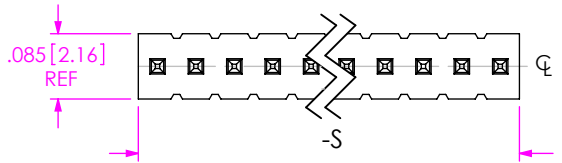TAIL STYLE
(SEE TABLE 1)
(SEE TABLE 2 FOR TERMINAL PIN)

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)
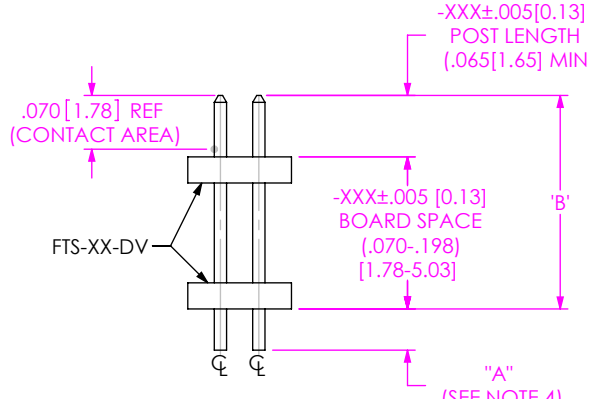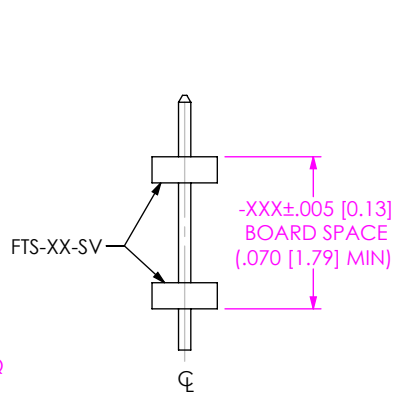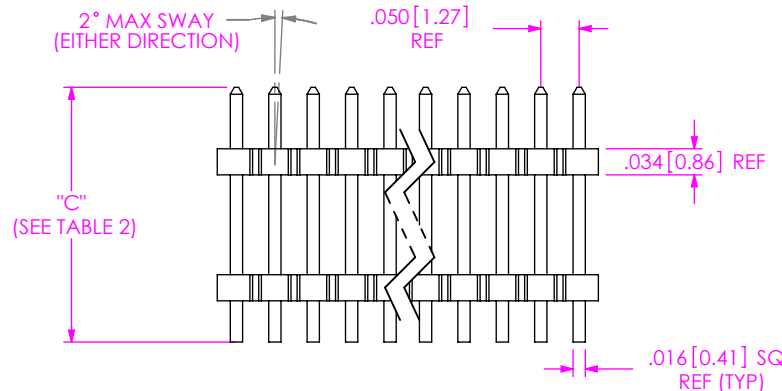
POST LENGTH
-XXX±.005 [0.13]
.065 [1.65] MIN

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

.085[2.16] REF

-S

No OF POSITIONS X .050[1.27]±.010 [0.25]

No OF POSITIONS X .050[1.27]±.010 [0.25]

.135[3.43] REF

-D

2° MAX SWAY (EITHER DIRECTION)

.050[1.27] REF

"C" (SEE TABLE 2)

.034[0.86] REF

.016[0.41] SQ REF (TYP)

-S
(SEE -D FOR DIMENSIONING)

FTS-XX-SV

-XXX±.005 [0.13] BOARD SPACE (.070 [1.79] MIN)

.070[1.78] REF (CONTACT AREA)

FTS-XX-DV

-XXX±.005[0.13] POST LENGTH (.065[1.65] MIN

-XXX±.005 [0.13] BOARD SPACE (.070-.198) [1.78-5.03]

'B'

"A" (SEE NOTE 4)

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

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]

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

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS   ANGLES
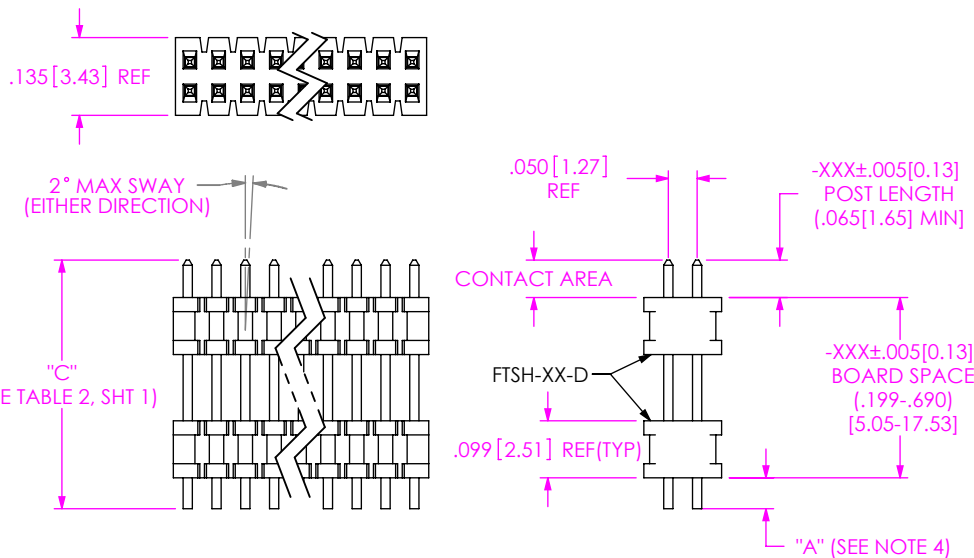.XX: ±.01 [0.3]   5°
.XXX: ±.005 [0.13]
.XXXX: ±.0020 [0.051]

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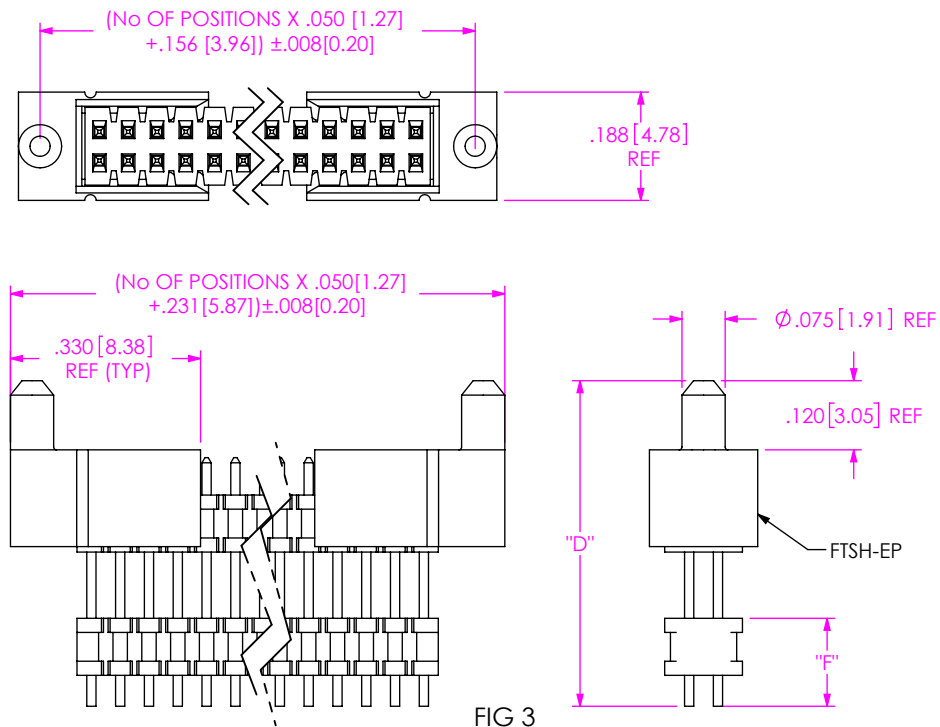FTS-XX-XX & FTSH-50-D: LCP,UL 94 VO, COLOR BLACK
TERMINAL: PHOS BRONZE

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 THROUGH HOLE BOARD SPACERS

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

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

F:\DWG\MISC\MKTG\FW-XX-XX-XX-X-XXX-XXX-XX-MKT.SLDDRW

REVISION BM

.135[3.43] REF

2° MAX SWAY
(EITHER DIRECTION)

"C"
(SEE TABLE 2, SHT 1)

.050[1.27]
REF

CONTACT AREA

FTSH-XX-D

.099[2.51] REF(TYP)

-XXX±.005[0.13]
POST LENGTH
(.065[1.65] MIN)

-XXX±.005[0.13]
BOARD SPACE
(.199-.690)
[5.05-17.53]

"A" (SEE NOTE 4)

FIG 2
FTSH-XX-D BODY STYLE
FW-50-02-XX-D-690-075
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(BOARD SPACE .199[5.05]-.690[17.53])

(No OF POSITIONS X .050[1.27]
+.156[3.96]) ±.008[0.20]

.188[4.78]
REF

(No OF POSITIONS X .050[1.27]
+.231[5.87])±.008[0.20]

.330[8.38]
REF (TYP)

Ø.075[1.91] REF

.120[3.05] REF

"D"

FTSH-EP

"F"

FIG 3
-EP:GUIDE POST OPTION
FW-50-02-XX-D-610-075-EP
(USE ONLY WHEN MATING WITH CLP)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(BOARD SPACE .215[5.46]-.610[15.49])

(No OF POSITIONS X .050[1.27]+.101[2.57]) ±.008[0.20]

.188[4.78] REF

.265[6.73]
REF (TYP)

ES-FTSH

.168[4.27]
REF

"E"

"F"
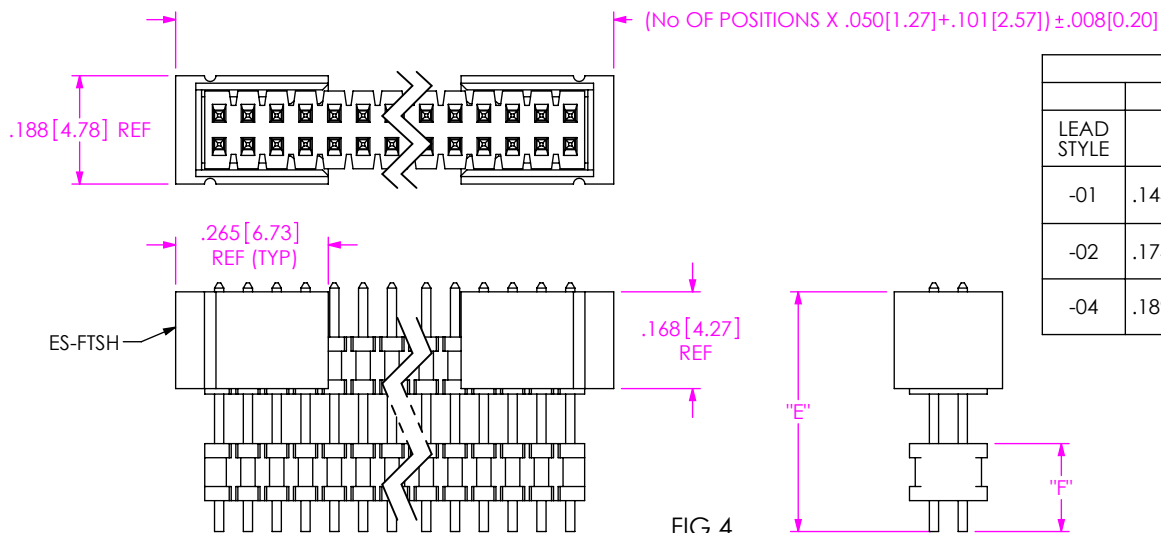
FIG 4
-ES OPTION
FW-50-02-XX-D-610-075-ES
(DIFFERENT AS SHOWN, OTHERWISE AS FIG 1)
(BOARD SPACE .215-.610[5.46-15.49])

TABLE 5					
				BODY STYLE	
LEAD STYLE	"F"	"D" RANGE	"E" RANGE	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

DO NOT SCALE DRAWING

SHEET SCALE: 3:1

SAMTEC

520 PARK EAST BLVD, NEW ALBANY, IN 47150
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DESCRIPTION:
.050 x .050 THROUGH HOLE BOARD SPACERS

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

BY: BRATCHER 4/8/94   SHEET 2 OF 3

F:\DWG\MISC\MKTG\FW-XX-XX-XX-X-XXX-XXX-XX-MKT.SLDDRW

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 [1.78-5.03]	0-.350 [0-8.89]	PT-FW001-D-.070-.198	TP-24
-01,-02,-04	NONE	FTS	.070-.198 [1.78-5.03]	.351-.800 [8.92-20.32]	PT-FW007-D-.070-.198	TP-24
-01,-02,-04	NONE	FTSH (.199-.235) [5.05-5.97]	.199-.235 [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 [6.00-17.53]	.400-.800 [10.16-20.32]	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-09
-01,-02,-04	NONE	FTSH	.199-.235 [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"

DO NOT SCALE DRAWING

SHEET SCALE: 4:1

samtec

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

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