

REV. CC

NOTES:

1. PARTS MAY BE CUT TO POSITION.
2. SHEAR TAILS TO DIMENSION SHOWN.
3. MEASURED AT BEND RADIUS, NOT AT END OF PIN.
4. TUBE ONLY -05 THROUGH -50 POSITIONS (SEE TABLE 2).
5. GOLD PLATING TO BE ON POST, TIN PLATING TO BE ON TAIL.
6. C REPRESENTS A CRITICAL DIMENSION.
7. MINIMUM PUSHOUT FORCE: 1.0 LB.
8. .003" MAX BURR ALLOWANCE
9. .010 [.25] MAX CUT FLASH
10. USE T-1S40-02-X-2 FOR FTSH-150-01-L-DV.
RAN ON AUTOMATION ONLY. TERMINALS ARE NOT SHEARED.
11. USE FTSH -SW BODIES UNTIL STOCK IS DEPLETED, THEN USE THE -CN BODY
(NOTE: BODY FOR -CN IS .200 WIDE, -SW IS .175).

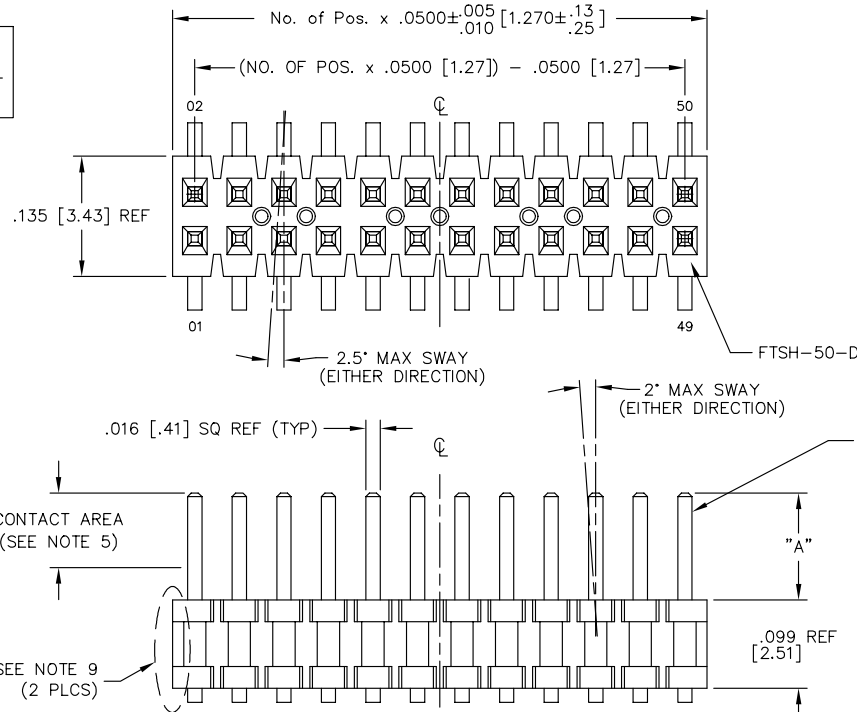
DO NOT SCALE
FROM THIS PRINT

FIG. 1

TABLE 2		
OPTION(S)	PACKAGING TUBE	TUBE PLUG
NONE, -A (-04 LEAD STYLE)	PT-1-24-04-15	TP-09 (2 REQ'D)
NONE, -A (-01, -02 LEAD STYLES)	PT-1-24-03-43	TP-24 (2 REQ'D)
NONE, -A (-03 LEAD STYLE)	PT-1-24-01-43	TP-24 (2 REQ'D)
-P (-01 LEAD STYLE)	PT-1-24-02-17	TP-09 (2 REQ'D)
-K-P (-01, -02, -03 LEAD STYLES)	PT-1-24-01-27	TP-03 (2 REQ'D)
-K-P (-04 LEAD STYLE)	PT-1-24-06-29	TP-07 (2 REQ'D)
-K (FOR -01 LEAD STYLE ONLY)		
-ES (-03, -04 STYLES)	PT-1-24-03-09	TP-03 (2 REQ'D)
-ES-P, -P (-02, -03, -04 STYLES)		
-EC, -EC-P, -EL-P -ES-A, -ES-A-P -A-P, -K-A-P -EP, -EP-A, -EP-P, -EP-A-P	PT-1-24-03-09	TP-03 (2 REQ'D)
-EJ, -EJ-K-P, -EJ-P	PT-1-24-02-70	TP-07 (2 REQ'D)
EJ-A-P	PT-1-24-01-106	TP-07 (2 REQ'D)
-EPC, -EPC-D, -EPC-P	PT-1-24-04-09	TP-03 (2 REQ'D)
-EL, -EL-A, -EL-A-P	PT-1-24-01-43	TP-24 (2 REQ'D)
-EJ-A, -EJ-K-A, -EJ-K-A-P	PT-1-24-01-70	TP-29 (2 REQ'D)
-ES (-02 LEAD STYLE)	PT-1-24-01-55	TP-03 (2 REQ'D)

 C_2

TABLE 1	
LEAD STYLE	"A"
-01	.120 [3.05]
-02	.075 [1.91]
-03	.065 [1.65]
-04	.150 [3.81]

MATERIAL:
INSULATOR:
BLACK LIQUID CRYSTAL POLYMER
TERMINAL:
PHOSPHOR BRONZE

TITLE:
.050 [1.27] x .050 [1.27] C
DOUBLE VERTICAL
SMT TERMINAL STRIP

DWG NO:
FTSH-1XX-XX-X-DV-XXX
SHEET 1 OF 4

FTSH-1XX-XX-X-DV-XXX

No. OF POS.
-02 THRU -50
(PER ROW)

LEAD STYLE

-01: .120 [3.05]
(USE T-1S15-03-X)
-02: .075 [1.91]
(USE T-1S15-03-X)
-03: .065 [1.65]
(USE T-1S15-03-X)
-04: .150 [3.81]
(USE T-1S15-03-X)

PLATING

-L: LIGHT SELECTIVE
(USE T-1S15-XX-L)
-F: FLASH SELECTIVE
(USE T-1S15-XX-F)
-S: SELECTIVE
(USE T-1S15-XX-S)
-SM: HEAVY SELECTIVE GOLD,
MATTE TIN TAIL
(USE T-1S15-XX-SM)
-LM: LIGHT SELECTIVE GOLD,
MATTE TIN TAIL
(USE T-1S15-XX-LM)
-FM: FLASH SELECTIVE GOLD,
MATTE TIN TAIL
(USE T-1S15-XX-FM)

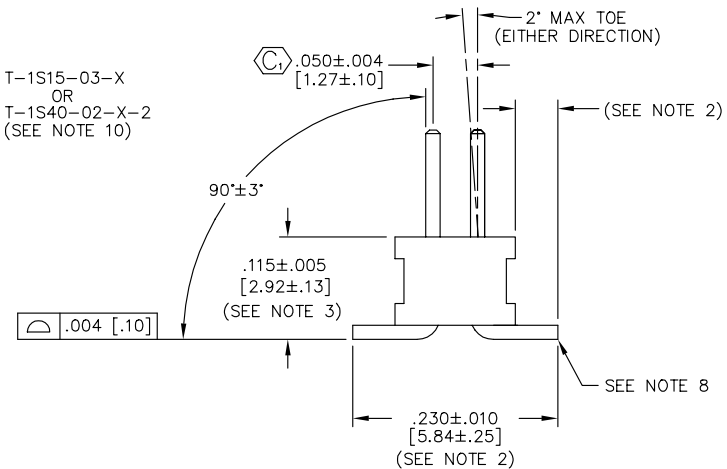
TAIL OPTION

-DV: DOUBLE VERTICAL
(USE FTSH-50-D)

* = NOT ENGINEERING APPROVED

OPTIONS

-P: PICK & PLACE PAD (4 POS MIN)
(SEE SHT 2, TABLE 5)
-TR: TAPE & REEL PACKAGING
-ES: END SHROUDS (SEE FIG. 2, SHT 2)
(MOLDED IN -EN 5 POS MIN; -02 & -03 LEAD STYLE ONLY)
(SNAP SHROUDS 9 POS MIN; -02 & -03 LEAD STYLE ONLY)
-EJ: EJECTOR SHROUDS (SEE FIG. 4, SHT 2)
(10 POS MIN; -01 LEAD STYLE ONLY)
-EJA: EJECTOR SHROUDS WITH MOLDED ALIGNMENT PIN (SEE FIG. 4, SHT 2)
(10 POS MIN; -01 LEAD STYLE ONLY) (NOT VALID WITH -A OPTION)
-EJC: EJECTOR SHROUDS WITH LOCKING CLIP (SEE FIG. 4, SHT 2)
(10 POS MIN; -01 LEAD STYLE ONLY) (NOT VALID WITH -A OPTION)
-EC: LOCKING CLIP (SEE FIG. 5, SHT 2)
(9 POS MIN; -02 & -03 LEAD STYLE ONLY)
-EP: GUIDE POST (SEE FIG. 6, SHT 2)
(9 POS MIN; -02 & -03 LEAD STYLE ONLY)
(USE ONLY WHEN MATING WITH CLP)
-EL: BOARD LOCK (SEE FIG. 7, SHT 2)
(9 POS MIN; -02 & -03 LEAD STYLE ONLY)
(USE ONLY WHEN MATING WITH CLP)
-EPC: GUIDE POST & LOCKING CLIP (SEE FIG. 11, SHT 3)
(9 POS MIN; -02 & -03 LEAD STYLE ONLY)
(USE ONLY WHEN MATING WITH CLP) (NOT VALID WITH -A OPTION)
-A: ALIGNMENT PIN (MOLDED OR STAKED) (SEE FIG. 8 & 9, SHT. 3)
(MOLDED: 3 POSITION MIN, STAKED: 6 POSITION MIN)
[SAMTEC DISCRETION ON WHICH -A PIN USED]
-K: KEYING OPTION FOR MATING WITH FFSD (SEE TABLE 3, SHEET 3)
8 POSITION AVAILABLE AS STANDARD.
[POSITION 13, 17, 20 & 25 AVAILABLE WITH ANY END
SHROUD OPTION] (LEAD STYLE -01 ONLY, SEE FIG. 10, SHT 3)
(ALIGNMENT PIN AVAILABLE WITH -K OPTION BUT MUST BE MOLDED)
* -M: METAL PICK & PLACE PAD (5 POS MIN)
(USE MPP-22-5) (SEE FIG. 13, SHT 4)
(NOT AVAILABLE WITH -K OPTION)



PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC INC. AND SHALL NOT BE
REPRODUCED OR TRANSMITTED IN
ANY FORM OR BY ANY MEANS
ELECTRONIC OR MECHANICAL,
INCLUDING PHOTOCOPYING,
RECORDING, OR BY ANY
INFORMATION STORAGE AND
RETRIEVAL SYSTEM, WITHOUT THE
WRITTEN CONSENT OF SAMTEC INC.

samtec

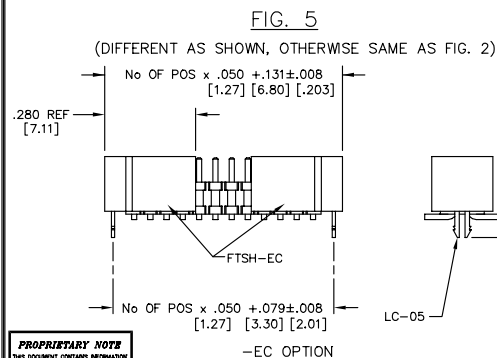
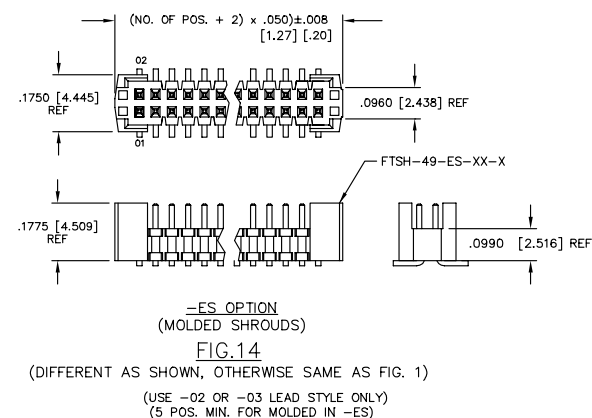
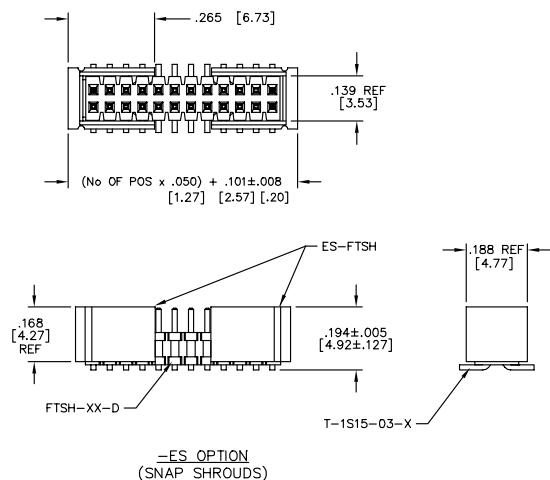
520 PARK EAST BLVD. NEW ALBANY, INDIANA 47150
PHONE (812) 944-6733 P.O. BOX 1147
CODE 55322

MADE BY:
PURVIS 10-12-95

FTSH-1XX-XX-X-DV-XXX
SHEET 1 OF 4

REV. CC

FIG. 2
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1)
(USE -02 OR -03 LEAD STYLE ONLY)
(9 POS. MIN. FOR SNAP SHROUDS)

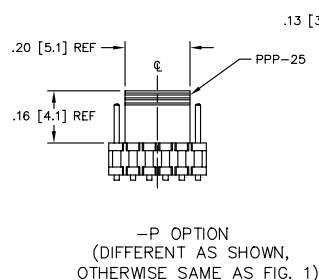


PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC INC. AND SHALL NOT BE
REPRODUCED OR TRANSMITTED TO
OTHER DOCUMENTS OR DISCLOSED TO
THIRD PARTIES WITHOUT THE EXPRESS
WRITTEN PERMISSION OF SAMTEC INC.

TABLE 5		
OPTION	PAD	MIN. POS
NONE, -A	PPP-25	4
EJ,EJC,EJA	PPP-41	10
ES,EC,EP,EL	PPP-25	9
EPC	PPP-25	5 *
K, K-EJ	PPP-48	SEE FIG 10

* MOLDED SHROUD ONLY

FIG. 3
-P OPTION



UNLESS OTHERWISE NOTED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
ONE PLACE DECIMALS $\pm 1[2.5]$ THREE PLACE DECIMALS $\pm .005[.13]$ ANGLES $\pm 2^\circ$
TWO PLACE DECIMALS $\pm .01[.25]$ FOUR PLACE DECIMALS $\pm .0020[.051]$

TITLE:
.050 [1.27] x .050 [1.27] ϕ DOUBLE VERTICAL SMT TERMINAL STRIP

DWG NO:
FTSH-1XX-XX-X-DV-XXX

SHEET 2 OF 4

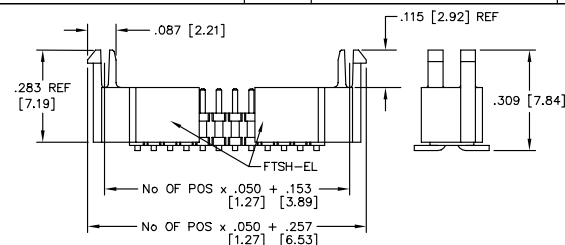
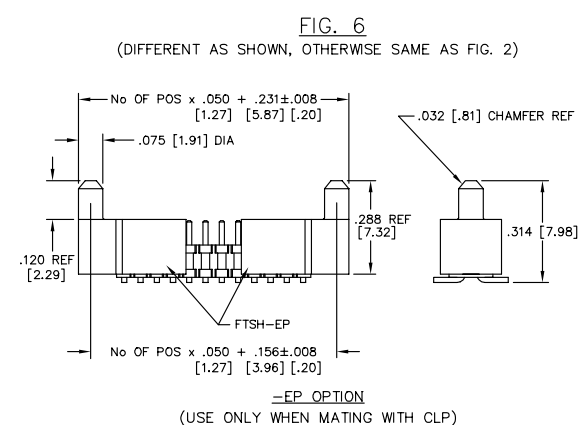
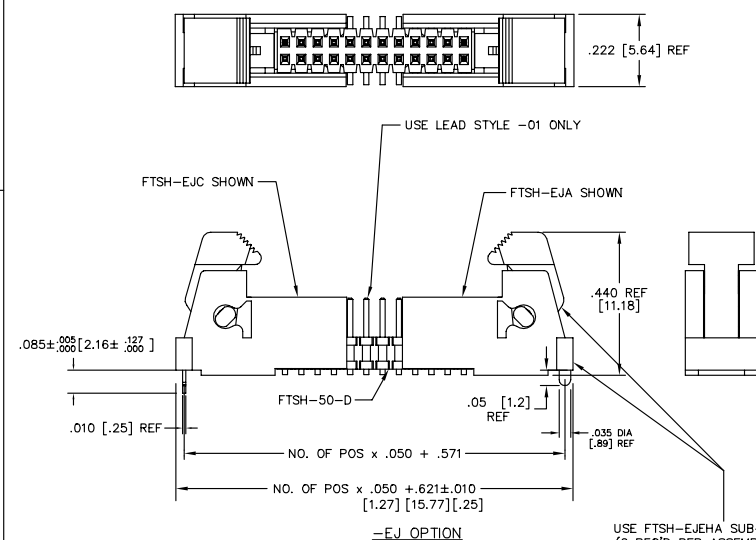
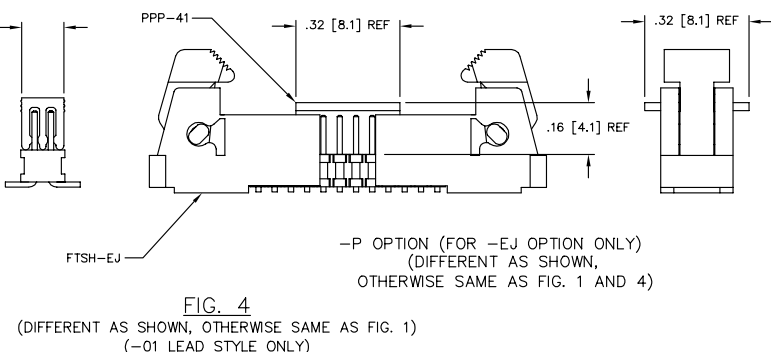


FIG. 7
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 2)
-EL OPTION (USE ONLY WHEN MATING WITH CLP)



MISC\MKTG
FTSHMKT2

samtec

520 PARK EAST BLVD. NEW ALBANY, INDIANA 47150
PHONE (812) 944-6733 P.O. BOX 1147
CODE 55322

MADE BY: BRATCHER 05-03-95

FTSH-1XX-XX-X-DV-XXX

SHEET 2 OF 4

REV. CC

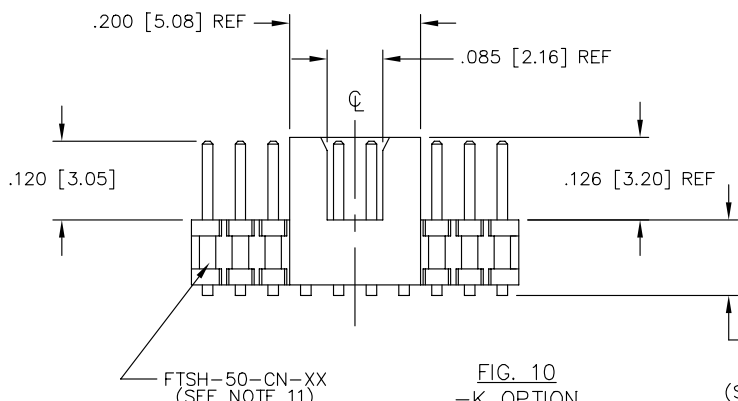
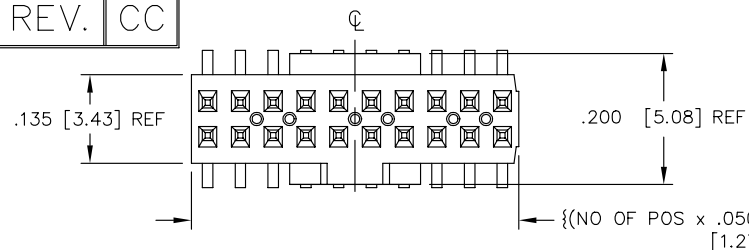


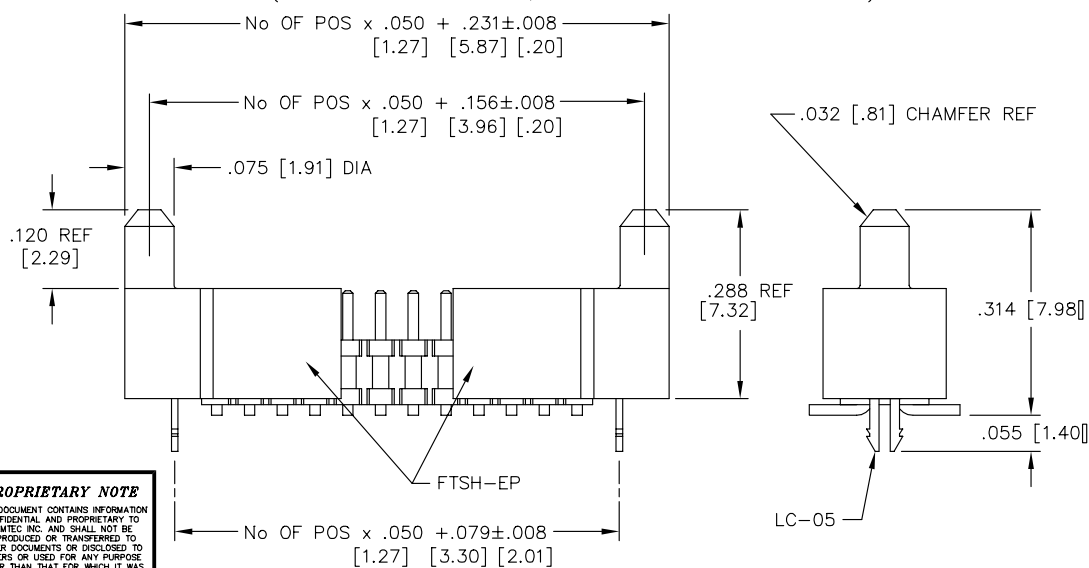
TABLE 3		
NO OF POS	BODY	NO OF PARTS PER FULL STRIP
-05	FTSH-50-CN-05 (SEE NOTE 11)	10
-10	FTSH-50-CN-10 (SEE NOTE 11)	5
-13	FTSH-50-CN-13 (SEE NOTE 11)	3
-20	FTSH-50-CN-20 (SEE NOTE 11)	2
-25	FTSH-50-CN-25 (SEE NOTE 11)	2

FTSH-50-CN-XX (SEE NOTE 11)

FIG. 10
-K OPTION

(LEAD STYLE -01, POSITIONS 05, 10, 13, 20 & 25 ONLY)
[POSITION 13, 17, 20, & 25 AVAILABLE WITH -K & -EX (ANY SHROUD) OPTION]
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1)

FIG. 11
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 2)



FTSH-EP

LC-05

-EPC OPTION
(USE ONLY WHEN MATING WITH CLP)

UNLESS OTHERWISE NOTED

DIMENSIONS ARE IN INCHES

TOLERANCES ARE:

ONE PLACE DECIMALS $\pm .1$ [2.54] THREE PLACE DECIMALS $\pm .005$ [1.3] ANGLES $\pm 1^\circ$

TWO PLACE DECIMALS $\pm .01$ [1.25] FOUR PLACE DECIMALS $\pm .0010$ [1.025]

TITLE:

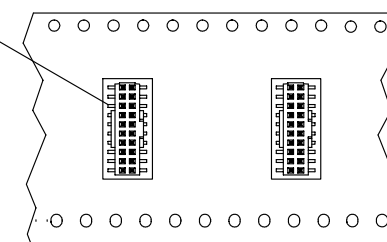
.050 [1.27] x .050 [1.27] ϕ
DOUBLE VERTICAL
SMT TERMINAL STRIP

DWG NO:

FTSH-1XX-XX-X-DV-XXX
SHEET 3 OF 4

TAPE & REEL VIEW

NOTE: TAPE & REEL ORIENTATION:
POLARIZATION NOTCH TO THE RIGHT



FEED DIRECTION

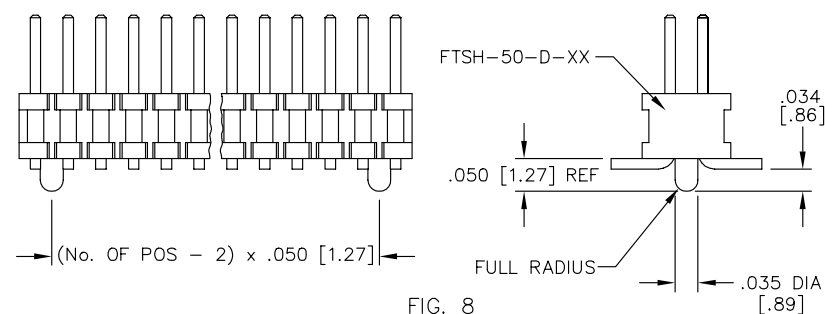


FIG. 8
-A OPTION (MOLDED)
MOLD 3 POSITION MIN

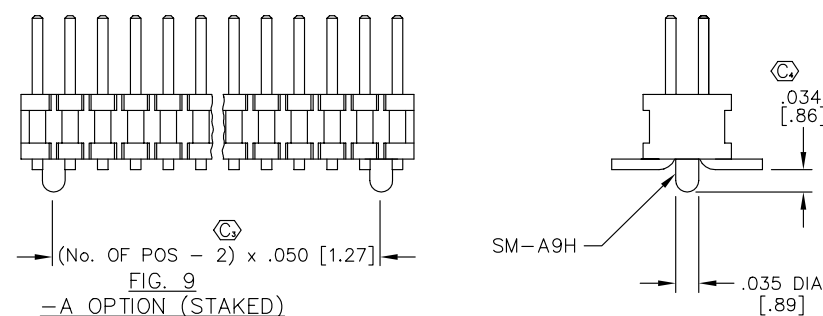


FIG. 9
-A OPTION (STAKED)
6 POSITIONS MIN

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC INC. AND SHALL NOT BE
REPRODUCED OR TRANSFERRED TO
OTHER DOCUMENTS OR DISCLOSED TO
OTHERS OR USED FOR ANY PURPOSE
OTHER THAN THAT FOR WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED
WRITTEN CONSENT OF SAMTEC INC.

samtec

520 PARK EAST BLVD. NEW ALBANY, INDIANA 47150
PHONE (812) 944-6733 P.O. BOX 1147
CODE 55322

MADE BY:

PURVIS 10-12-95

FTSH-1XX-XX-X-DV-XXX
SHEET 3 OF 4

REV. CC

DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE NOTED	TOLERANCES ARE:	TITLE:	DWG NO:
ONE PLACE DECIMALS $\pm .1$ [2.54]	THREE PLACE DECIMALS $\pm .005$ [.13]		ANGLES $\pm 1^\circ$	.050 [1.27] x .050 [1.27] ϕ DOUBLE VERTICAL SMT TERMINAL STRIP	FTSH-1XX-XX-X-DV-XXX
TWO PLACE DECIMALS $\pm .01$ [.25]	FOUR PLACE DECIMALS $\pm .0010$ [.025]				SHEET 4 OF 4

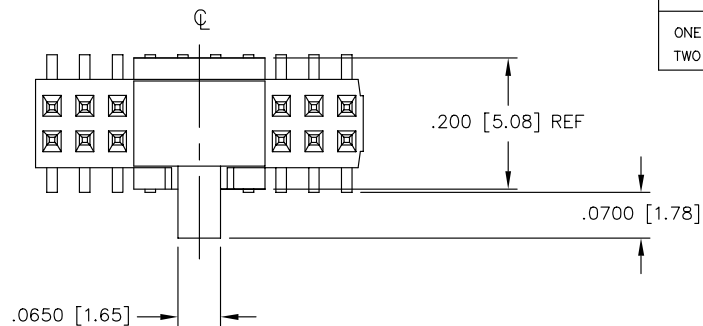


FIG. 12
-P, -K & -TR OPTION
(LEAD STYLE -01, POSITIONS 05, 10, 13, 20 & 25 ONLY)
[POSITIONS 20 & 25 ONLY WITH ANY -EX (END SHROUD) OPTION]
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG. 1)

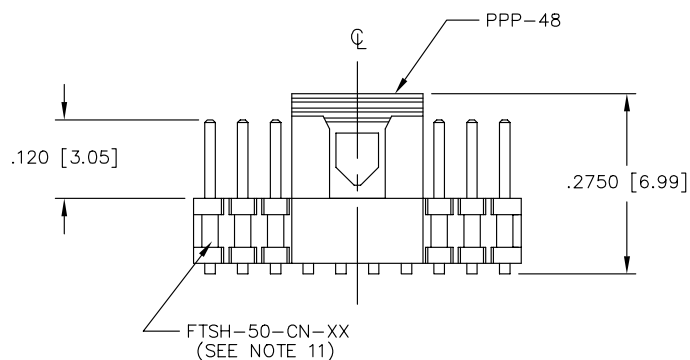
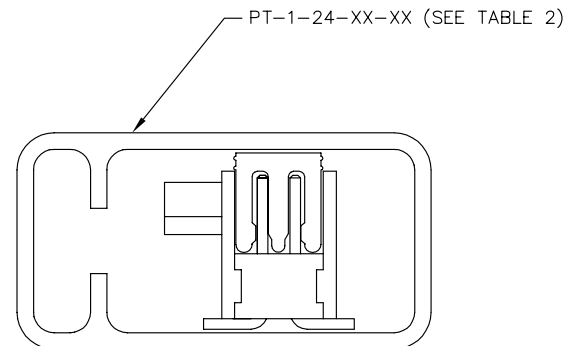


FIG. 13
-M: METAL PICK & PLACE PAD
(NOT AVAILABLE WITH -K OPTION)(5 POS MIN)

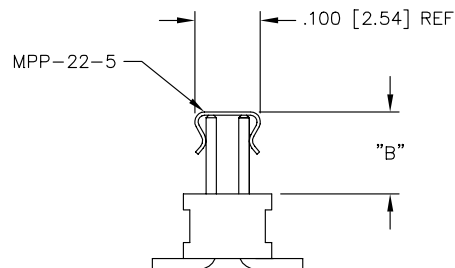
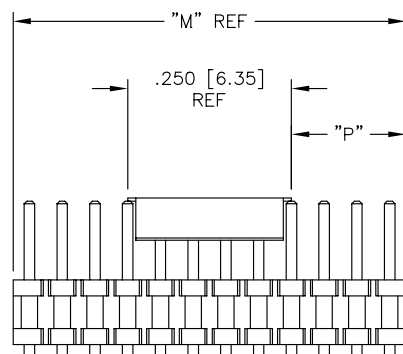


TABLE 4	
LEAD STYLE	"B"
-01	.125 [3.18]
-02	.080 [2.03]
-03	.070 [1.78]
-04	.155 [3.94]

Do not scale
from this print.

"M" = No OF POSITIONS x .0500 [1.270]
"P" = {("M" - .250 [6.35]) / 2} $\pm .020$ [.51]

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS INFORMATION
CONFIDENTIAL AND PROPRIETARY TO
SAMTEC INC. AND SHALL NOT BE
REPRODUCED OR TRANSFERRED TO
OTHER DOCUMENTS OR DISCLOSED TO
OTHERS OR USED FOR ANY PURPOSE
OTHER THAN THAT FOR WHICH IT WAS
OBTAINED WITHOUT THE EXPRESSED
WRITTEN CONSENT OF SAMTEC INC.

samtec

MISC\MKTG
FTSHMKT4

520 PARK EAST BLVD. NEW ALBANY, INDIANA 47150
PHONE (812) 944-6733 P.O. BOX 1147
CODE 55322

MADE BY:
PURVIS 10-12-95

FTSH-1XX-XX-X-DV-XXX
SHEET 4 OF 4