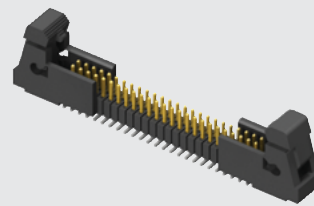




(1.27 mm) .050"



FTSH-125-01-L-DV-EJ



FTSH-120-01-F-DV

SMT MICRO HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?FTSH

Insulator Material:

Black Liquid Crystal Polymer

Terminal Material:

Phosphor Bronze

Plating:

Sn or Au over

50µ" (1.27 µm) Ni

Current Rating (FTSH/CLP):

3.3 A per pin

(1 pin powered per row)

Operating Temp Range:

-55°C to +125°C

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

-MT & -DV Tail Option:

(0.10 mm) .004" max (02-25)

-MT & -DH Tail Option:

(0.15 mm) .006" max (26-50)

Mates with:

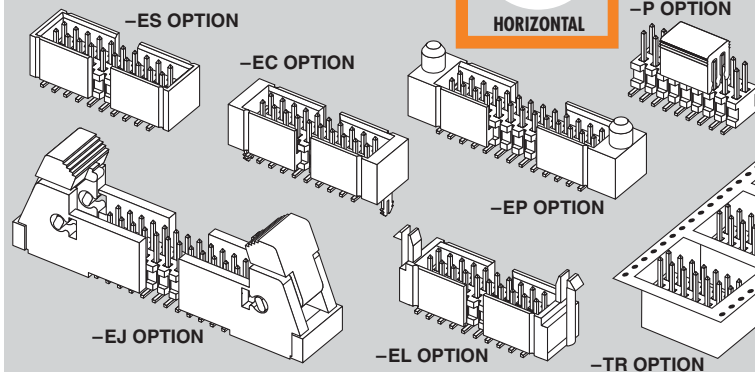
FFSD, FFTP, CLP, FLE

APPLICATIONS

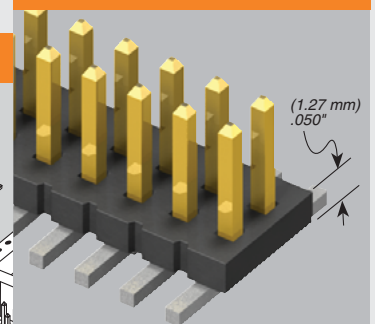


HORIZONTAL

OPTIONS



OTHER SOLUTIONS



Ultra-low profile option available.
End Shrouds available.
Call for FTS Series specifications.

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Molded Pick & Place pads
- Latches
- Other platings
- Contact Samtec.

Note: Some sizes, styles and options are non-standard, non-returnable.

Note: See SFM/TFM for positive alignment feature.

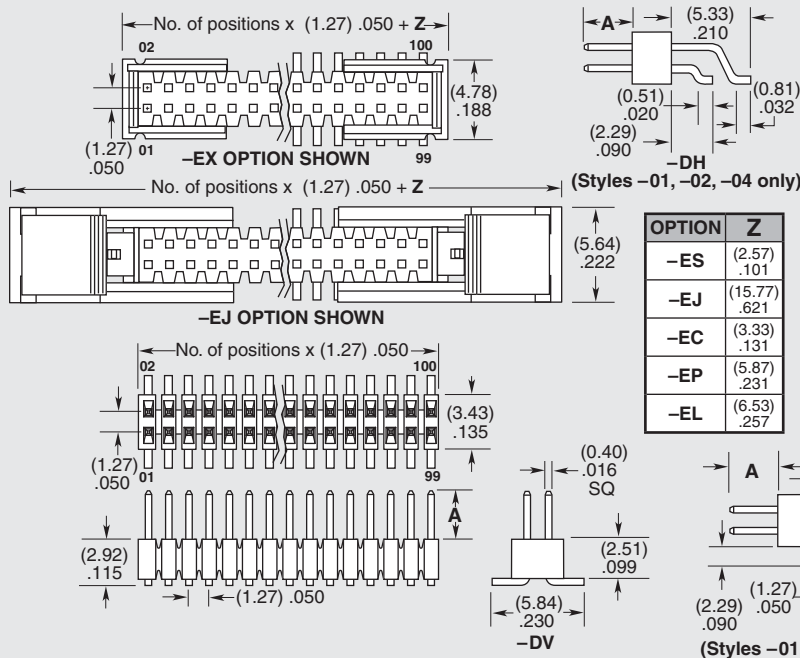
FTSH

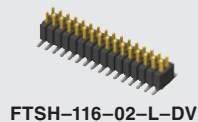
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NO. PINS PER ROW

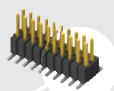
LEAD STYLE

02 thru 50



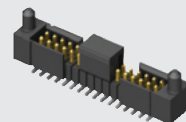
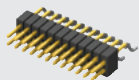


FTSH-116-02-L-DV

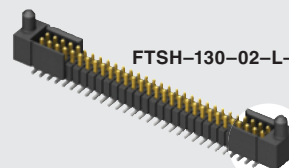


FTSH-110-01-F-DV

FTSH-112-02-L-DH

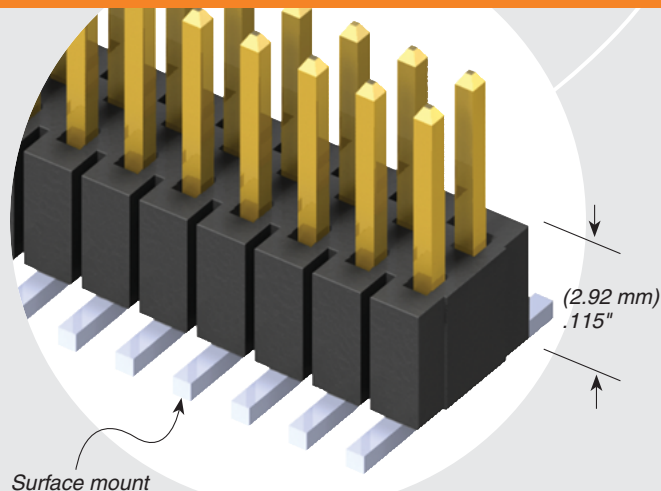


FTSH-116-03-L-DV-EP-P

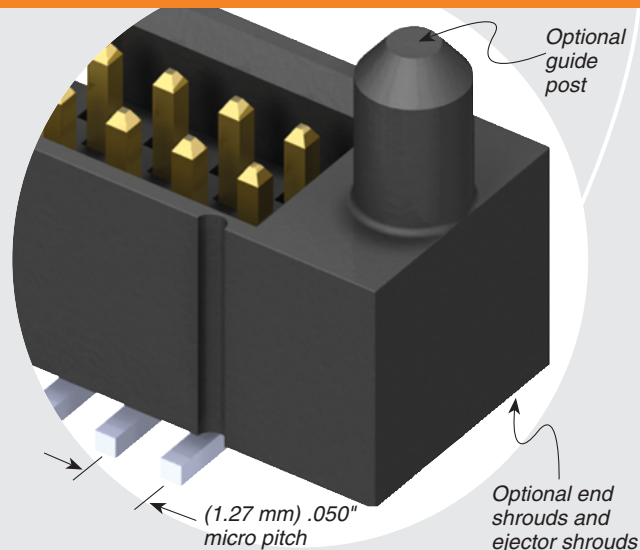


FTSH-130-02-L-DV-EP

FTSH SERIES



Surface mount



Optional guide post

Optional end shrouds and ejector shrouds

PLATING OPTION

-F
= Gold flash on post, Matte Tin on tail

-L
= 10µ" (0.25 µm) Gold on post, Matte Tin on tail

TAIL OPTION

-DV
= Double Vertical

-DH
= Double Horizontal (Styles -01, -02 & -04 only)

-MT
= Mixed Technology (Styles -01, -02 & -04 only)

OPTION

Leave Blank for -DH & -MT

-“XXX”
= Polarized Position (Specify position of omitted pin) (Not available with -EX options)

FLEX SHROUD OPTIONS

(Style -02 & -03 only, -DH & -MT not available)
9 pins/row minimum
(Other positions available. Call Samtec.)

-ES
= End Shroud

-EC
= End Shroud with Locking Clip (Manual placement required)

-EP
= End Shroud with Guide Post

-EL
= End Shroud with Board Lock (Boards are positively locked and cannot be unmated)

-EJ
= Ejector Shroud (Style -01 only)
-DH & -MT not available
10 pins/row minimum
25 pins/row maximum

OTHER OPTIONS

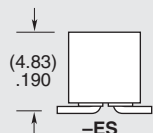
-K
= Keying Shroud (For mating with FFSD Style -01 only and 05, 08, 10, 13, 17, 20 & 25 pins/row only. 13, 17, 20 & 25 pins/row only with -EJ option) (-DV only)

-A
= Alignment Pin (-DV 3 positions min.) (-DH 5 positions min.) (Metal or plastic at Samtec discretion)

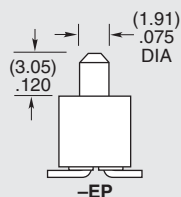
-C
= (5.00 mm) .197" DIA Polyimide film Pick & Place Pad (-DH only)

-P
= Pick & Place Pad (-DV 4 positions min.) (-DH & -MT not available)

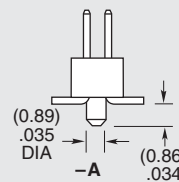
-TR
= Tape & Reel Packaging (Flex Shroud options not available except -ES & -EJ)



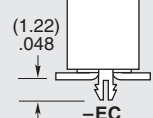
-ES



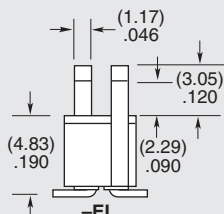
-EP



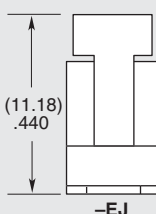
-A



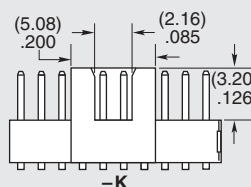
-EC



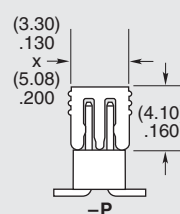
-EL



-EJ



-K



-P

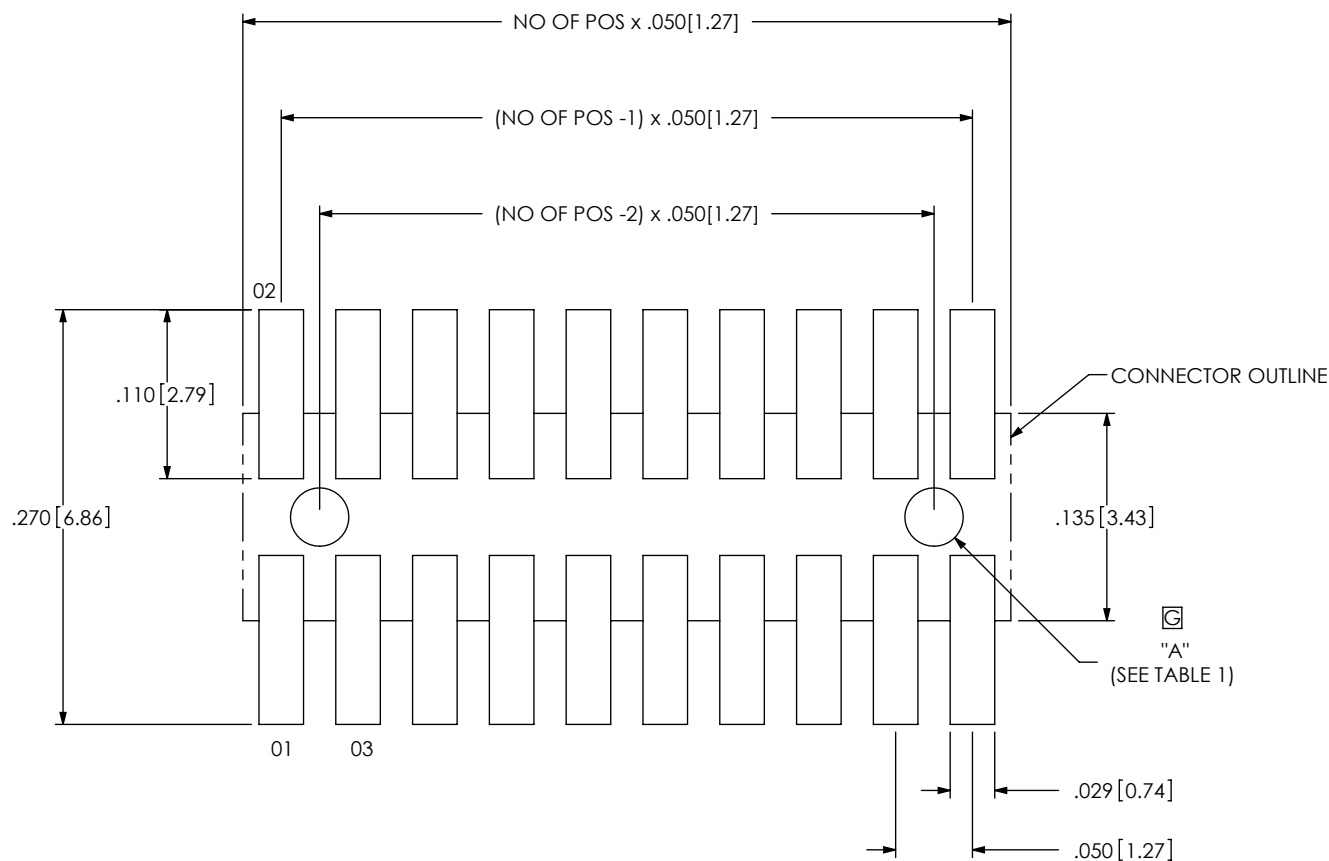


FIG 1
FTSH-1XX-XX-XXX-DV-X 
ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE.

OPTION	"A"
-A	.038 [0.97]
-K	N/A
-M	N/A
-P	N/A

G

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e-Mail info@SAMTEC.com code 55322

NOTES:
1. STENCIL TO BE .0060[.152] THICK.

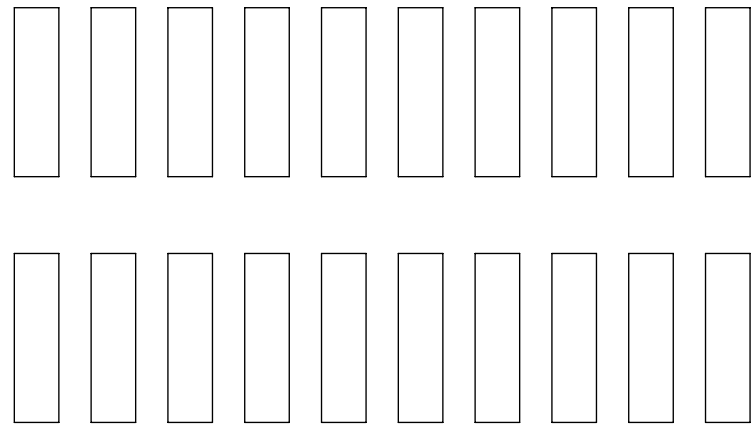



FIG 2 
FTSH-1XX-XX-XXX-DV-XXX
(SAME AS FIG 1, DIFFERENT AS SHOWN)

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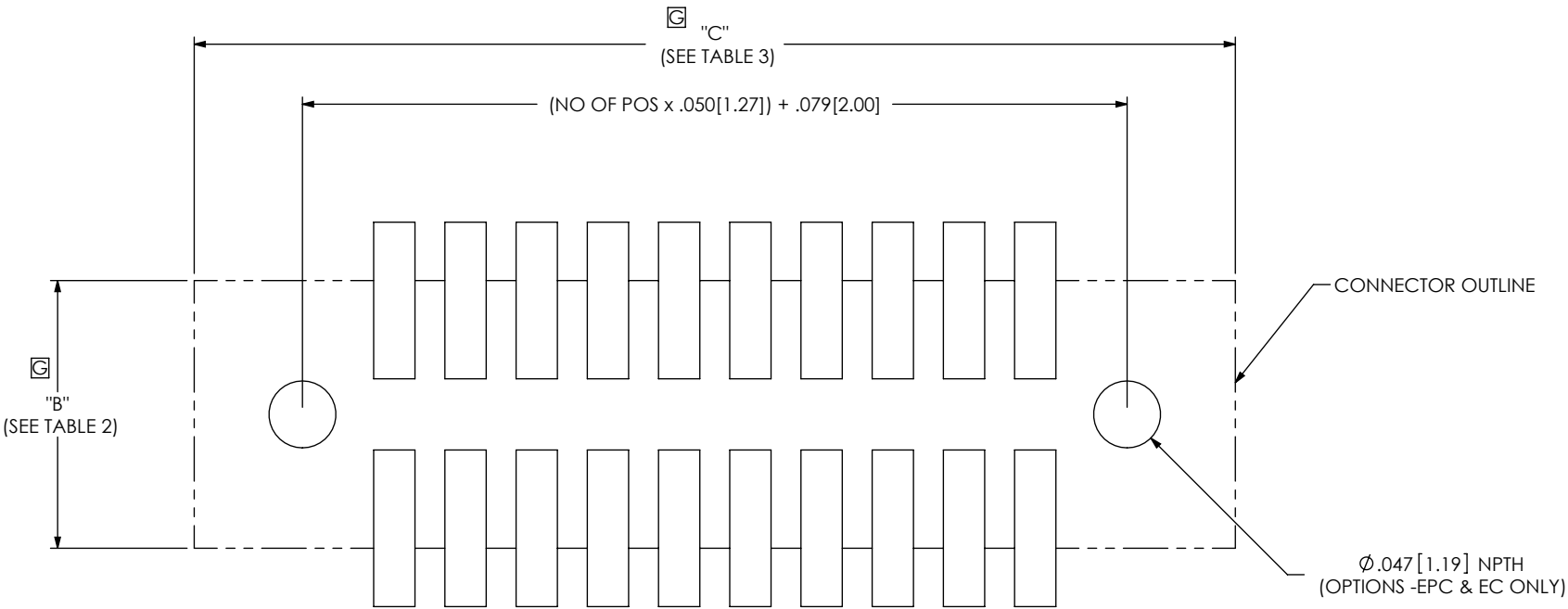


FIG 3
FTSH-1XX-XX-XXX-DV-EPC/EC/ES/EL/EP
SAME AS FIG 1, DIFFERENT AS SHOWN
ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE.

TABLE 2	
SHROUD TYPE	"B"
FTSH-EX	.188[4.78]
FTSH-XX-ES-XX-X	.175[4.45]

TABLE 3	
OPTION	"C"
-EPC	NO OF POS x .050[1.27] + .231[5.87]
-EC	NO OF POS x .050[1.27] + .131[3.32]
-ES	NO OF POS x .050[1.27] + .101[2.57]
-EL	NO OF POS x .050[1.27] + .257[6.53]
-EP	NO OF POS x .050[1.27] + .231[5.87]

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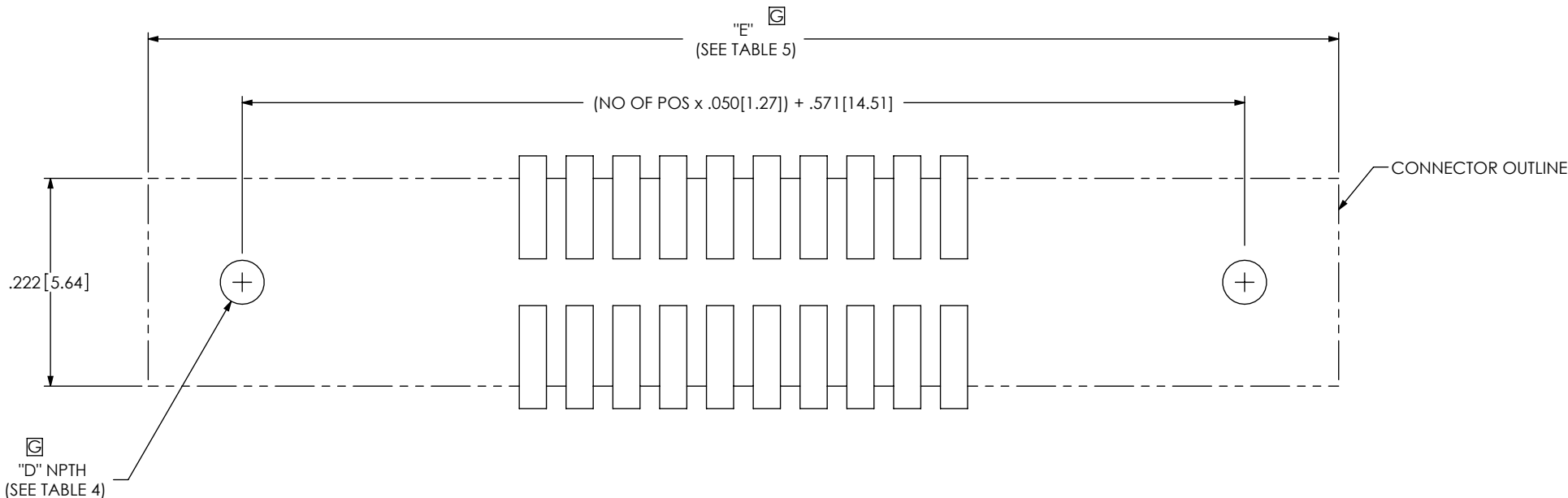


FIG 4
FTSH-1XX-XX-XXX-DV-EJX
SAME AS FIG 1, DIFFERENT AS SHOWN
ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE.

TABLE 4	
OPTION	"D"
-EJM	.040[1.02]
-EJC	.047[1.19]
-EJ	N/A

TABLE 5	
SHROUD POSITION	"E"
SHROUD OPEN	NO OF POS x .050[1.27] + .772[19.61]
SHROUD CLOSED	NO OF POS x .050[1.27] + .621[15.77]

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REVISION EX

NOTES:

1. \odot REPRESENTS A CRITICAL DIMENSION.
2. PARTS MAY BE CUT TO POSITION.
3. MAXIMUM CUT FLASH: .015[0.38]. LOOSE FLASH MUST BE REMOVED.
4. MINIMUM PUSHOUT FORCE: 1.0 LB.
5. MEASURED AT BEND RADIUS, NOT AT END OF PIN.
6. TUBE ONLY -04 THROUGH -50 POSITIONS (SEE TABLE 2).
7. SHEAR TAILS TO DIMENSION SHOWN.
8. MAXIMUM BURR ALLOWANCE: .003 [0.08]
9. GOLD PLATING TO BE ON POST, TIN PLATING TO BE ON TAIL.
10. FILL WITH ALIGNMENT PIN HOLES TO TAIL SIDE.
11. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, LOCKING CLIPS ARE NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH LOCKING CLIPS.
12. VOIDS MAY OR MAY NOT BE PRESENT ON POSITIONS 5 THRU 8 AND CAN BE MIXED WITHIN AN ORDER.
13. ON LEAD STYLES -02 THROUGH -03 THE T-1S15-03 CAN BE SUBSTITUTED FOR T-1S15-14.
14. ON LEAD STYLES -01 AND -04, T-1S15-17 CAN BE SUBSTITUTED FOR T-1S15-15-XXX.

DO NOT
SCALE FROM
THIS PRINT

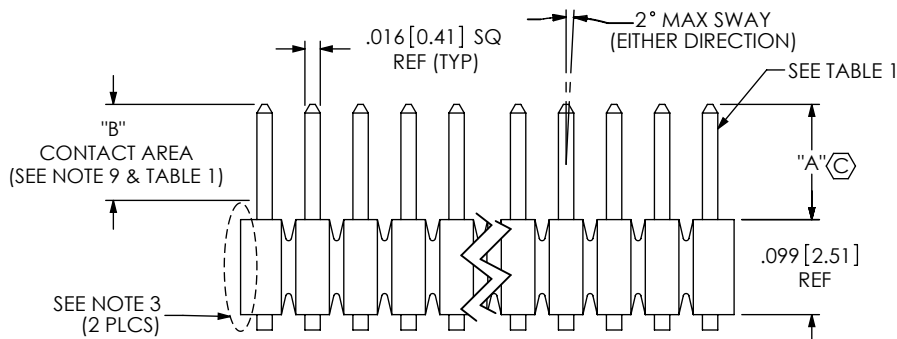
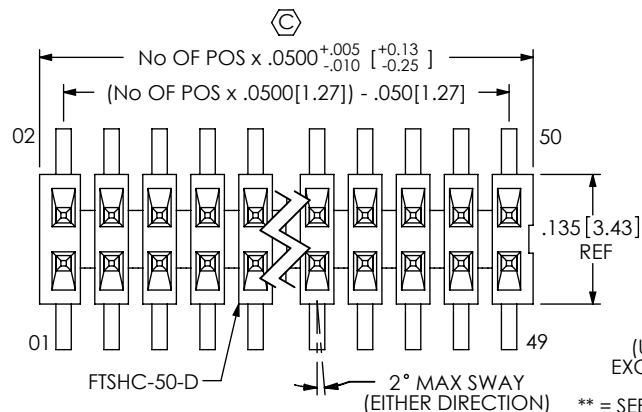


FIG 1
FTSH-1XX-XX-XXX-DV SHOWN
(SEE FTSHC-1XX-XX-XXX-DX-XX PRINT FOR DETAILS)

PATENT NUMBERS
5713755 / 5961339

TABLE 1					
LEAD STYLE	"A"	"B" REF	AUTOMATED BKT	HAND FILL	MICRO HEADER
-01	.120 [3.05]	.070 [1.78]	*** T-1S15-15-XXX	T-1S40-03-XX-2	T-1S40-03-XX-3
-02	.075 [1.91]	.070 [1.78]	* T-1S15-14-XXX	* T-1S15-14-XXX	NOT AVAILABLE
-03	.065 [1.65]	.070 [1.78]	* T-1S15-14-XXX	* T-1S15-14-XXX	NOT AVAILABLE
-04	.150 [3.81]	.070 [1.78]	*** T-1S15-15-XXX	*** T-1S15-17-XXX	NOT AVAILABLE
-05	.170 [4.32]	.070 [1.78]	T-1S15-03-XXX	T-1S15-03-XXX	NOT AVAILABLE
-14	.150 [3.81]	.135 [3.43]	T-1S15-63-XXX	T-1S15-63-XXX	NOT AVAILABLE

* = SEE NOTE 13
*** = SEE NOTE 14

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

No OF POSITIONS
-02 THRU -50
(PER ROW)

LEAD STYLE

- 01: .120 [3.05]
- 02: .075 [1.91]
- 03: .065 [1.65]
- 04: .150 [3.81]
- 05: .170 [4.32]
- 14: .150 [3.81] [NOT AVAILABLE WITH -SM, FM, LM PLATING OPTIONS]

PLATING SPECIFICATION

- L: 10μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- F: 3μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- S: 30μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- H: 30μ" GOLD IN CONTACT AREA, 3μ" GOLD ON TAIL
- LM: 10μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- FM: 3μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- SM: 30μ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- LTL: 10μ" SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10+/-5%) TAIL
- G: 10μ" GOLD IN CONTACT AREA, 3μ" GOLD ON TAIL

TAIL OPTION

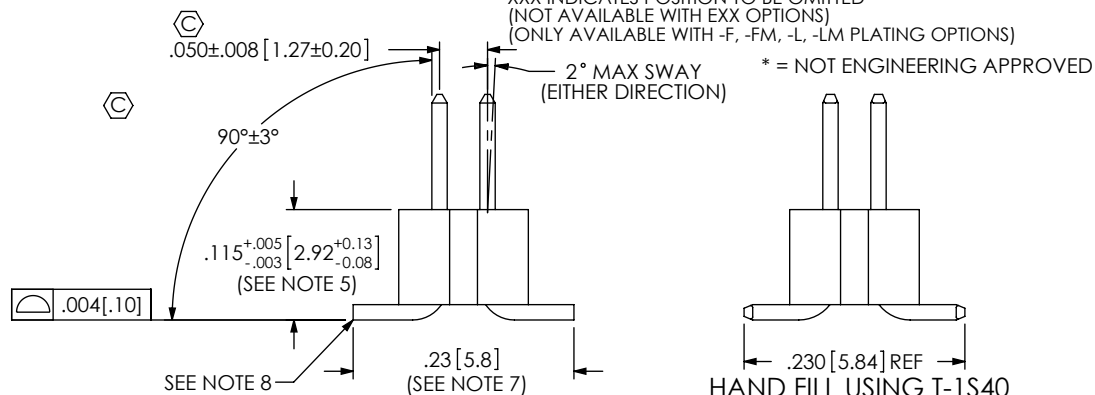
-DV: DOUBLE VERTICAL
(USE **FTSHC-1XX-XX-XXX-DV FOR ALL OPTIONS EXCEPT -ES, -EJ, -EJM, -EJC, -EC, -EP, -EL, -EPC, -A, THEN USE FTSH-50-D AND BUILD PER PRINT)
** = SEE FTSHC-1XX-XX-XXX-DX-XX PRINT FOR DETAILS

OPTIONS

- P: PICK & PLACE PAD (4 POS MIN) (SEE FIG 11, SHT 4 & TABLE 5)
- TR: TAPE & REEL PACKAGING
- ES: END SHROUDS (SEE FIG 6, SHT 3) (MOLDED IN 5 POS MIN; -02 & -03 LEAD STYLE ONLY) (SNAP SHROUDS 9 POS MIN; -02 & -03 LEAD STYLE ONLY) (MUST USE FTSH-50-D)
- EJ: EJECTOR SHROUDS: SEE FIG 4, SHT 2) (10 POS MIN; -01 LEAD STYLE ONLY) (MUST USE FTSH-50-D)
- EJM: EJECTOR SHROUDS WITH MOLDED ALIGNMENT PIN (SEE FIG 5, SHT 2; 10 POS MIN; -01 LEAD STYLE ONLY) (NOT VALID WITH -A OPTION) (MUST USE FTSH-50-D)
- EJC: EJECTOR SHROUDS WITH LOCKING CLIP (SEE FIG 5, SHT 2 & NOTE 11) (10 POS MIN; -01 LEAD STYLE ONLY; NOT VALID WITH -A OPTION) (MUST USE FTSH-50-D)
- EC: LOCKING CLIP (SEE FIG 7, SHT 3 & NOTE 11) (9 POS MIN; -02 & -03 LEAD STYLE ONLY) (MUST USE FTSH-50-D)
- EP: GUIDE POST (SEE FIG 8, SHT 3; 9 POS MIN; -02 & -03 LEAD STYLE ONLY) (USE ONLY WHEN MATING WITH CLP) (MUST USE FTSH-50-D)
- EL: BOARD LOCK (SEE FIG 9, SHT 3) (9 POS MIN; -02 & -03 LEAD STYLE ONLY) (USE ONLY WHEN MATING WITH CLP) (MUST USE FTSH-50-D)
- EPC: GUIDE POST & LOCKING CLIP (SEE FIG 10, SHT 3 & NOTE 11; USE ONLY WHEN MATING WITH CLP) (9 POS MIN; -02 & -03 LEAD STYLE ONLY; NOT VALID WITH -A OPTION) (MUST USE FTSH-50-D)
- A: ALIGNMENT PIN (MOLDED OR STAKED; SEE FIG 3, SHT 2) (MOLDED: 3 POS MIN; STAKED: 6 POS MIN) (SAMTEC DISCRETION ON WHICH -A PIN USED) (MUST USE FTSH-50-D)
- K: KEYING OPTION FOR MATING WITH FFSD (SEE TABLE 3, SHT 2; 05 THRU 25 AVAILABLE AS STANDARD) (POSITION 13, 17, 20 & 25 AVAILABLE WITH -EJ OPTION) (LEAD STYLE -01 ONLY, SEE FIG 2, SHT 2 & NOTE 12) (ALIGNMENT PIN AVAILABLE WITH -K OPTION BUT MUST BE MOLDED) (MUST USE FTSH-XX-CN-XX)
- *-M: METAL PICK & PLACE PAD (5 POS MIN; USE MPP-22-5) (SEE FIG 12, SHT 4; NOT AVAILABLE WITH -K OPTION)

POLARIZING OPTION

XXX INDICATES POSITION TO BE OMITTED
(NOT AVAILABLE WITH EXX OPTIONS)
(ONLY AVAILABLE WITH -F, -FM, -L, -LM PLATING OPTIONS)



HAND FILL USING T-1S40

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES
.XX: ±.01 [.3] 1°
.XXX: ±.005 [.13]
.XXXX: ±.0010 [.025]

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MATERIAL: DO NOT SCALE DRAWING
INSULATOR: LCP UL 94 VO
TERMINAL: PHOSPHOR BRONZE

SHEET SCALE: 5:1

DESCRIPTION:
.050 x .050 CL DOUBLE VERTICAL SMT TERMINAL STRIP

DWG. NO.

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

BY: PURVIS

10/12/1995

SHEET 1 OF 5

F:\DWG\WISC\MKTG\FTSH-1XX-XX-XXX-DV-XXX-XXX-MKT.SLDDRW

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REVISION EX

FIG 2

-K OPTION
(LEAD STYLE -01 ONLY)

(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(POSITION 13, 17, 20 & 25 AVAILABLE WITH
-EJ OPTION)

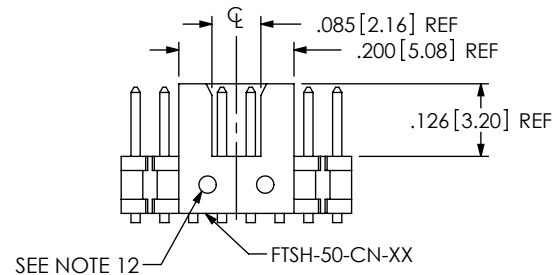
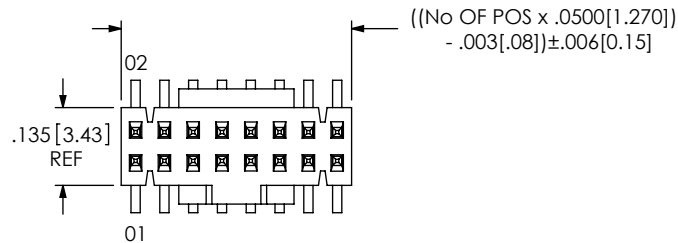


TABLE 3		
No OF POS	BODY	No OF PARTS PER FULL STRIP
-05	FTSH-50-CN-05	10
-06	FTSH-50-CN-06	8
-07	FTSH-50-CN-07	7
-08	FTSH-50-CN-08	6
-09	FTSH-50-CN-09	5
-10	FTSH-50-CN-10	5
-11	FTSH-50-CN-11	4
-12	FTSH-50-CN-12	4
-13	FTSH-50-CN-13	3
-14	FTSH-50-CN-14	3
-15	FTSH-50-CN-15	3
-16	FTSH-50-CN-16	3
-17	FTSH-50-CN-17	2
-18	FTSH-50-CN-18	2
-19	FTSH-50-CN-19	2
-20	FTSH-50-CN-20	2
-21	FTSH-50-CN-21	2
-22	FTSH-50-CN-22	2
-23	FTSH-50-CN-23	2
-24	FTSH-50-CN-24	2
-25	FTSH-50-CN-25	2

FIG 4
SCALE 2:1

-EJ OPTION

(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(-01 LEAD STYLE ONLY)

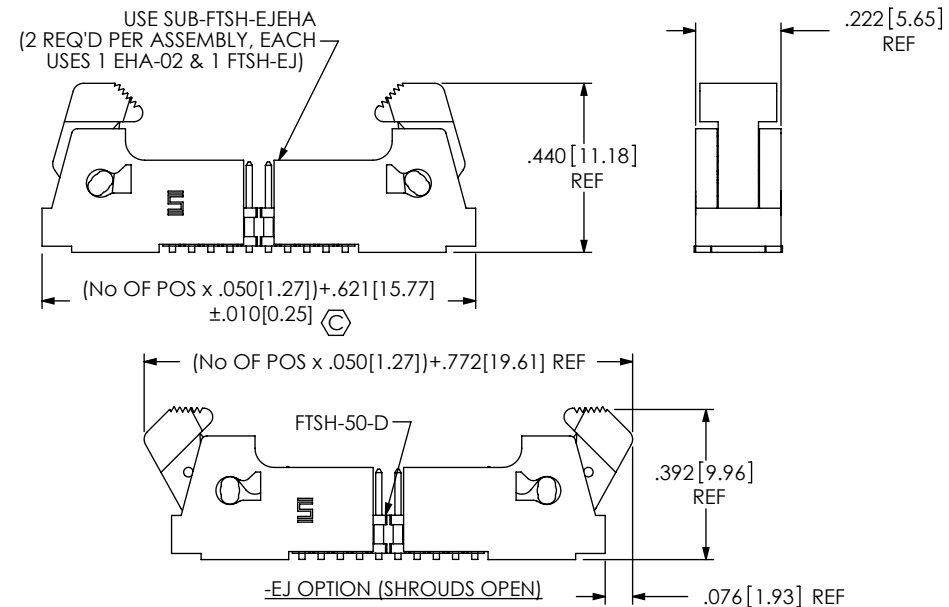


FIG 3

-A OPTION

(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(6 POSITION MINIMUM FOR STAKED ALIGNMENT PINS)
(3 POSITION MINIMUM FOR MOLDED ALIGNMENT PINS)

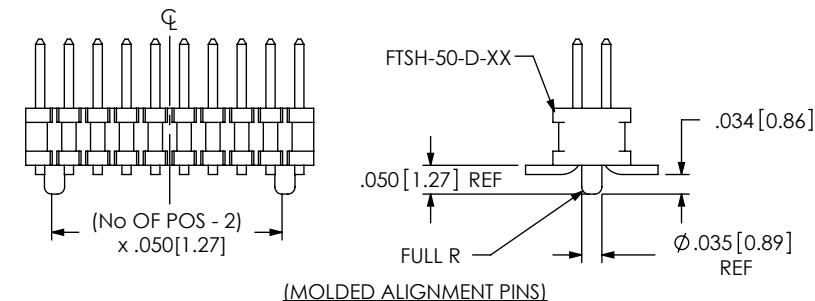
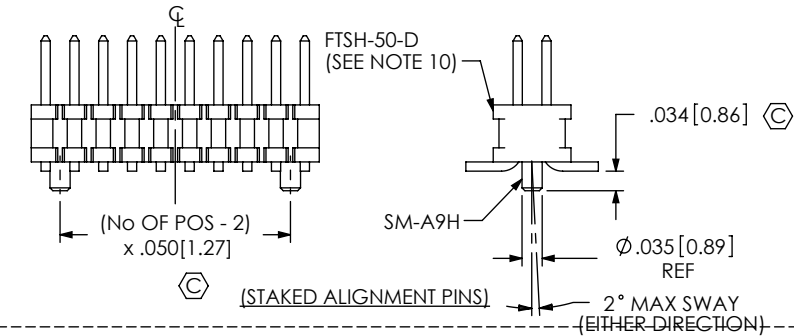
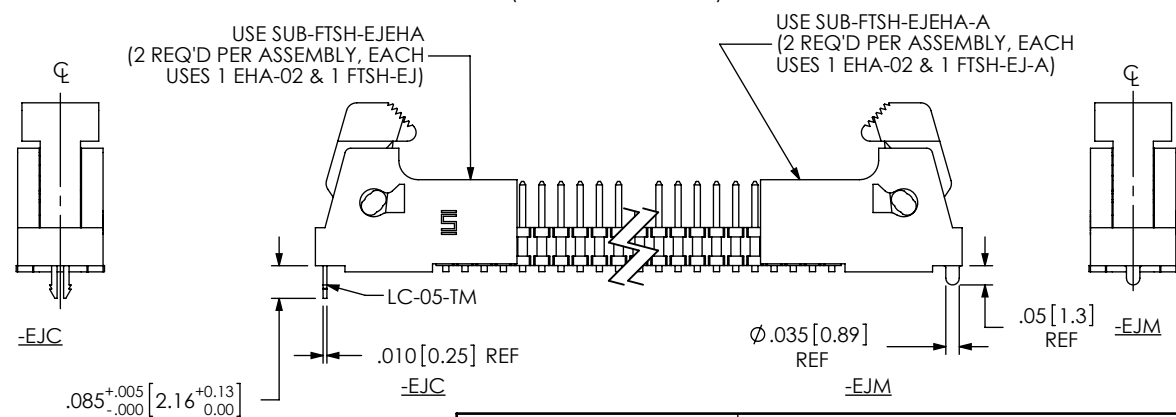


FIG 5

SCALE 2:1

-EJC & -EJM OPTIONS

(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 4)
(-01 LEAD STYLE ONLY)



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SHEET SCALE: 3:1

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:

.050 x .050 CL DOUBLE VERTICAL SMT TERMINAL STRIP

DWG. NO.

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

BY: PURVIS

10/12/1995

SHEET 2 OF 5

FIG 6
-ES OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(USE -.02 OR -.03 LEAD STYLE ONLY)
(9 POS MIN FOR SNAP SHROUDS)
(5 POS MIN FOR MOLDED SHROUDS)

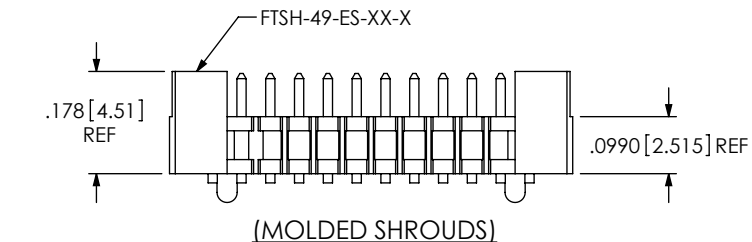
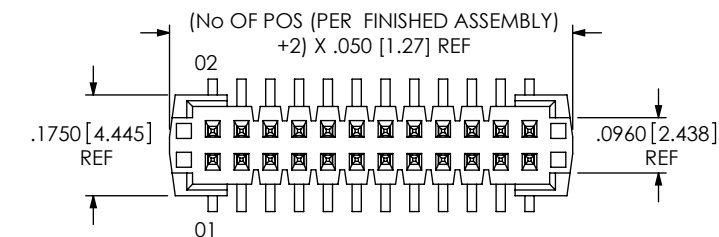
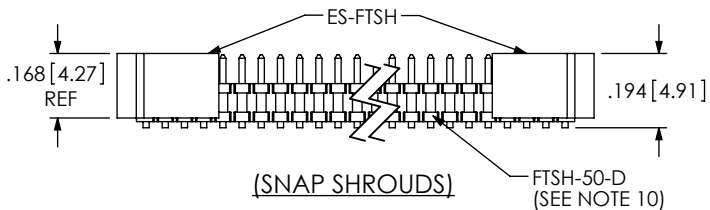
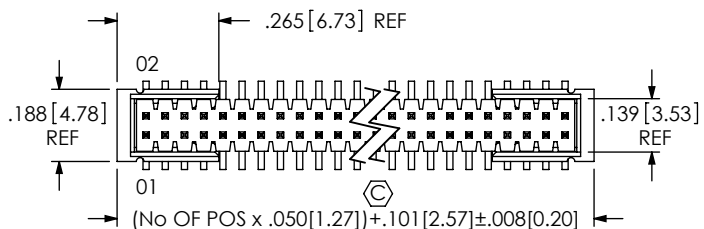
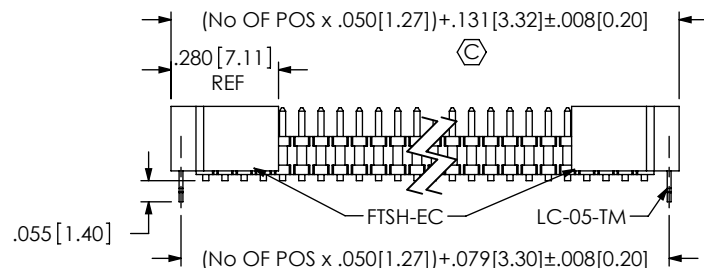


FIG 7
-EC OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)



F:\DWG\MISC\MKTG\FTSH-1XX-XX-XXX-DV-XXX-XXX-MKT.SLDDRW

FIG 8
-EP OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(USE ONLY WHEN MATING WITH CLP)

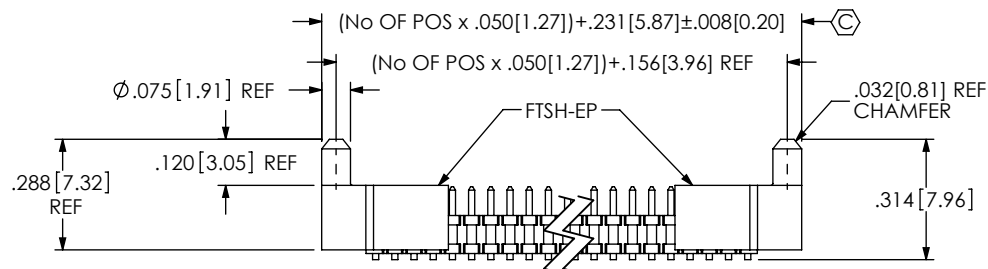


FIG 9
-EL OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(USE ONLY WHEN MATING WITH CLP)

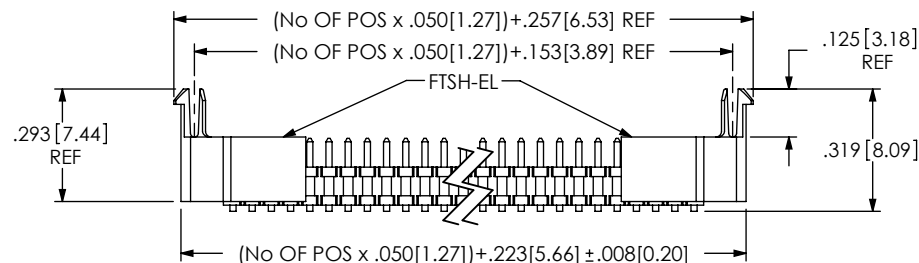
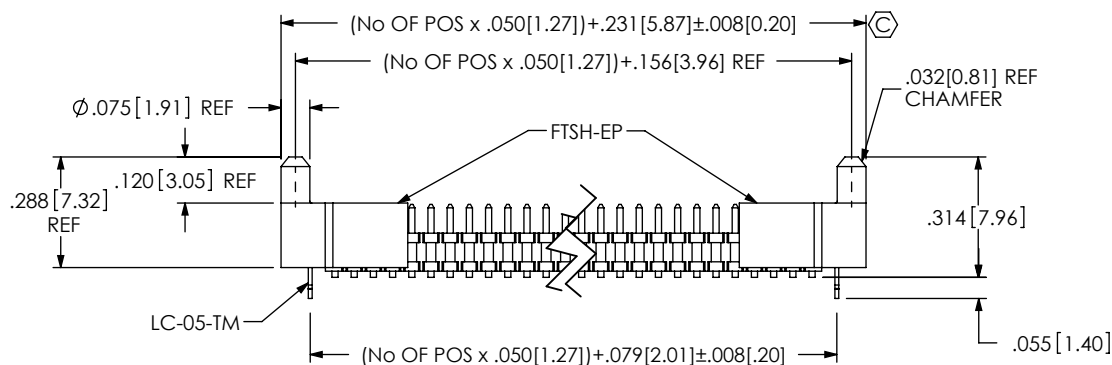


FIG 10
-EPC OPTION
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
(USE ONLY WHEN MATING WITH CLP)



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DESCRIPTION:
.050 x .050 CL DOUBLE VERTICAL SMT TERMINAL STRIP

DWG. NO.
FTSH-1XX-XX-XXX-DV-XXX-XXX

BY: PURVIS 10/12/1995 SHEET 3 OF 5

REVISION EX

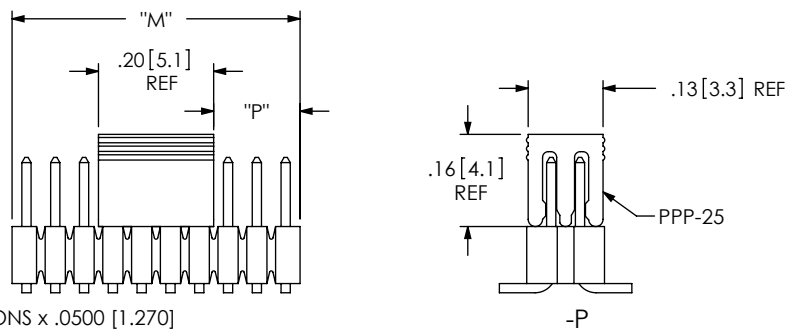


FIG 11
-P OPTION
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 1)

TABLE 5		
OPTION(S)	PAD	MIN. POS
NONE, -A	PPP-25**	4
-EJ, -EJC, -EJM	PPP-41	10
-ES, -EC, -EP, -EL	PPP-25**	9
-EPC	PPP-25**	5*
-K	PPP-25-KT	5
-K-EJ	PPP-25-KT	10

*MOLDED SHROUD ONLY
** USE PPP-25-NT WITH -TR
PACKAGING ONLY

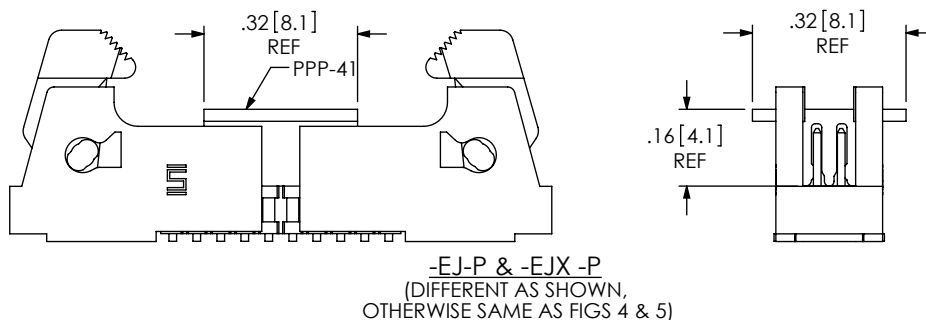
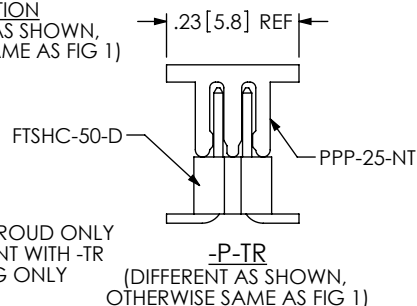
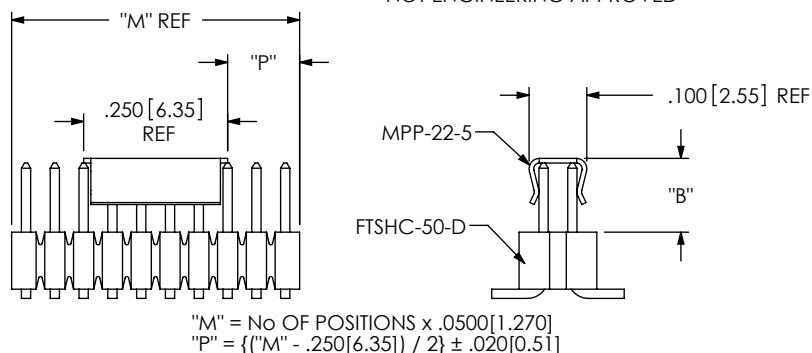
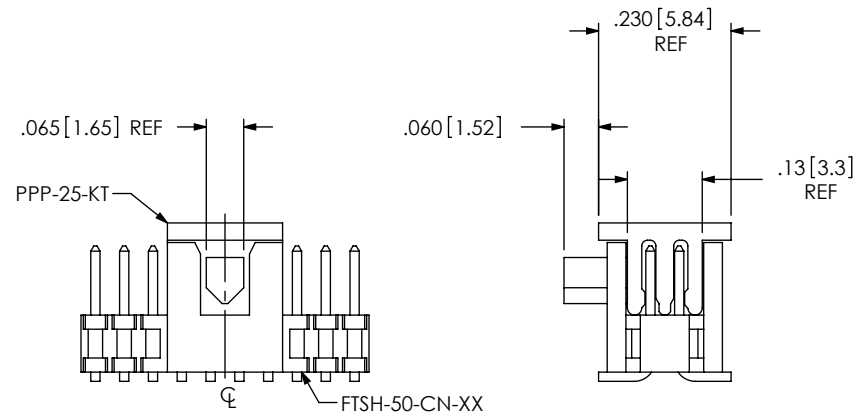


FIG 12
*-M: METAL PICK & PLACE PAD
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
(NOT AVAILABLE WITH -K OPTION)(5 POS MIN)
* = NOT ENGINEERING APPROVED

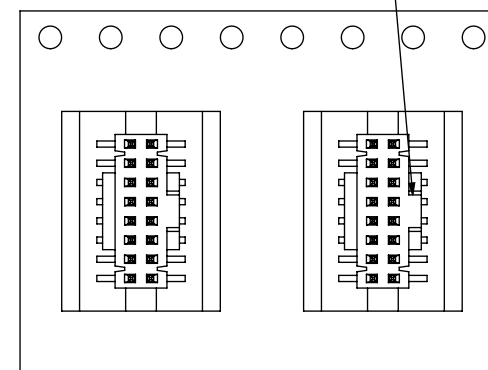


"M" = No OF POSITIONS x .0500 [1.270]
"P" = {("M" - .250 [6.35]) / 2} ± .020 [0.51]



-K-P-TR
(DIFFERENT AS SHOWN,
OTHERWISE SAME AS FIG 2)

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



TAPE & REEL VIEW
USER DIRECTION OF UN-REELING
POCKET NOT DETAILED

TABLE 4		
LEAD STYLE	"B" REF	
-01	.125	[3.18]
-02	.080	[2.03]
-03	.070	[1.78]
-04	.155	[3.94]
-14	.155	[3.94]

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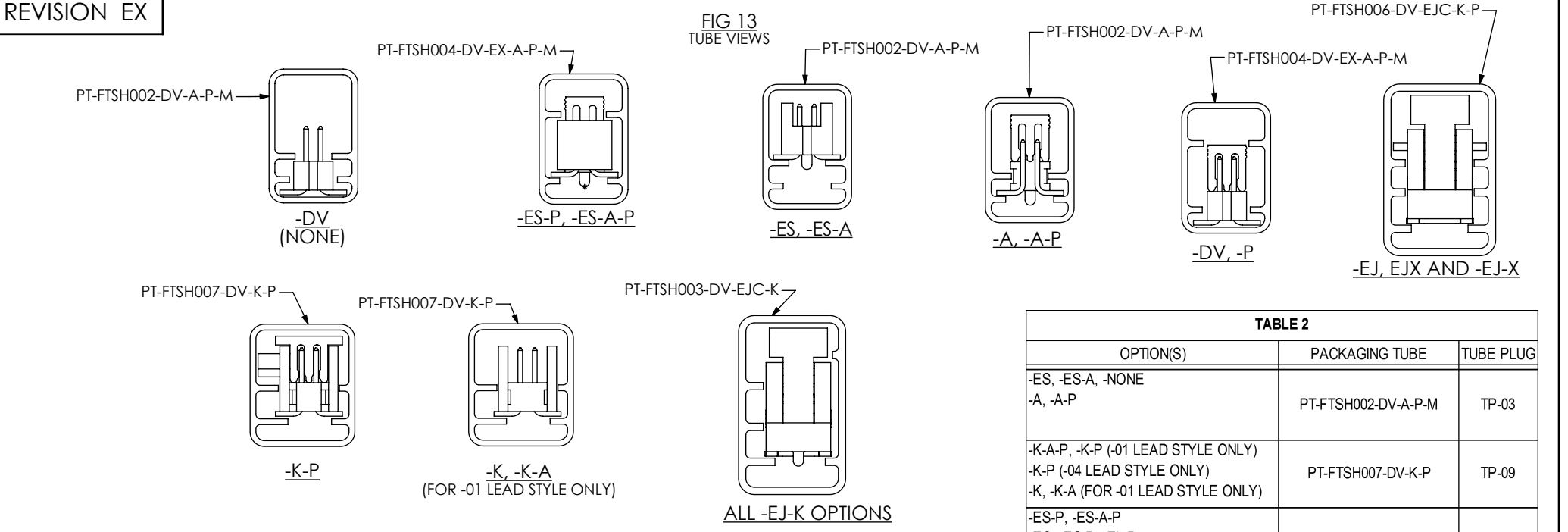
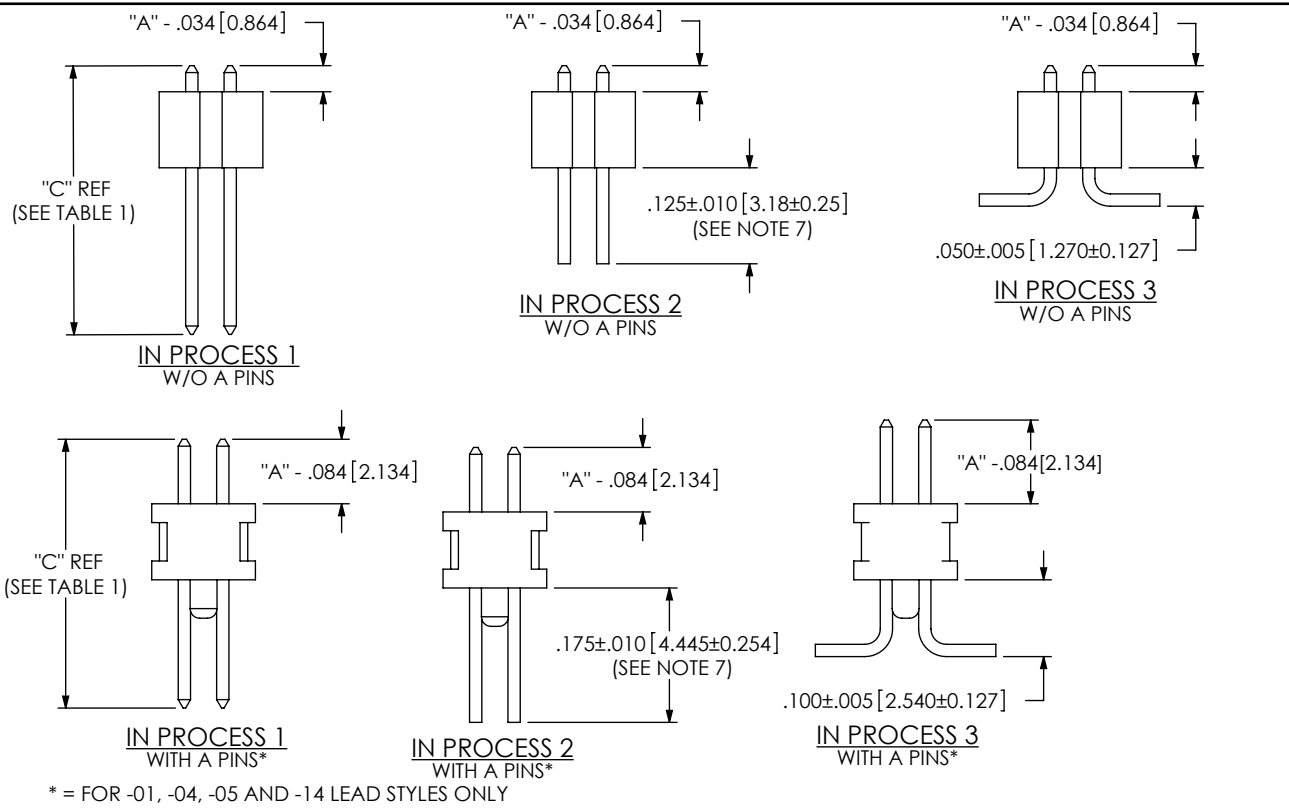


TABLE 2		
OPTION(S)	PACKAGING TUBE	TUBE PLUG
-ES, -ES-A, -NONE -A, -A-P	PT-FTSH002-DV-A-P-M	TP-03
-K-A-P, -K-P (-01 LEAD STYLE ONLY) -K-P (-04 LEAD STYLE ONLY) -K, -K-A (FOR -01 LEAD STYLE ONLY)	PT-FTSH007-DV-K-P	TP-09
-ES-P, -ES-A-P -EC, -EC-P, -EL-P -EP, -EP-A, EP-P, -EP-A-P -EPC, -EPC-D, -EPC-P -EL, -EL-A, -EL-A-P -P (ALL LEAD STYLES)	PT-FTSH004-DV-EX-A-P-M	TP-03
-EJ-K, -EJ-K-P -EJ-K-A, -EJ-K-A-P	PT-FTSH003-DV-EJC-K	TP-03
-EJ, -EJ-P, -EJ-A-P, -EJ-A, -EJM, -EJC	PT-FTSH006-DV-EJC-K-P	TP-03



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