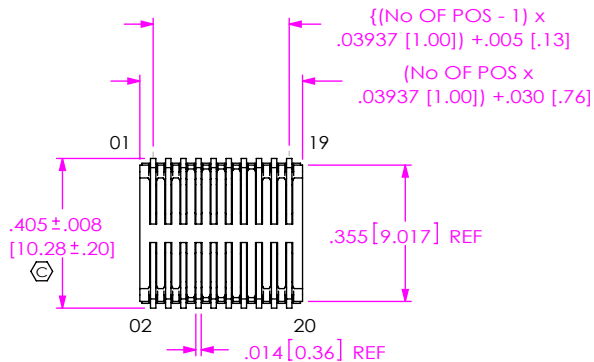


DO NOT SCALE FROM THIS PRINT

FSI-1XX-XX-XXX-D-X-XX-X-XX



NO OF POSITIONS

THREADED: -10, -20, -25, -30, -40, -50  
NON-THREADED: -05 THRU -50  
[IN MULTIPLES OF 5]

BODY HEIGHT

-06: 6mm [USE C-133-02-XXX]  
-10: 10mm [USE C-133-03-XXX]

PLATING

- L: .00010 GOLD ON CONTACT AREA, .000100-.000250 TIN ON TAIL (USE C-133-XX-L)
- S: .000030 GOLD ON CONTACT AREA, .000100-.000250 TIN ON TAIL (USE C-133-XX-S)
- STL: .000030 GOLD ON CONTACT AREA, .000200 TIN LEAD ON TAIL (USE C-133-XX-STL)
- LTL: .00010 GOLD ON CONTACT AREA, .000200 TIN LEAD ON TAIL (USE C-133-XX-LTL)
- LM: .00010 GOLD ON CONTACT AREA, .000100-.000250 MATTE TIN ON TAIL (USE C-133-XX-L)
- SM: .000030 GOLD ON CONTACT AREA, .000100-.000250 MATTE TIN ON TAIL (USE C-133-XX-S)

PACKAGING (SEE NOTE 10 & 11)

- BLANK: TUBES (SEE NOTE 9)
- TR: TAPE & REEL PACKAGING
- FR: FULL REEL QTY TAPE & REEL

PICK & PLACE OPTION

- P: (FOR AVAILABILITY, SEE FIG 4, SHEET 3)
- K: POLYAMIDE FILM PAD (USE K-500-300) (SEE FIG 5, SHEET 3) (AVAILABLE ONLY ON POSITIONS 40 & 50 WITH ANY THREADED INSERT OPTIONS)

ALIGNMENT PIN LOCATION

- AT: TOP SIDE (USE FSI-XX-XX-D-AT-X)
- AB: BOTTOM SIDE (USE FSI-XX-XX-D-AB-X)
- AD: DUAL (TOP & BOTTOM) (USE FSI-XX-XX-D-AD-X, SEE FIG 2)
- \*-LC: LOCKING CLIP  
BLANK FOR NO ALIGNMENT PIN.

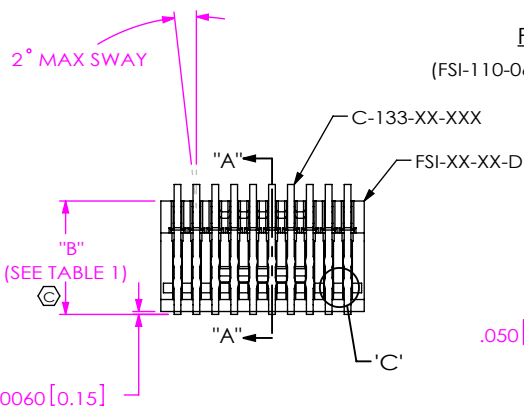
ROW SPECIFICATION

- D: DOUBLE ROW  
(FOR -06 BODY: USE FSI-XX-06-D-XX-X)  
(FOR -10 BODY: USE FSI-XX-10-D-XX-X)

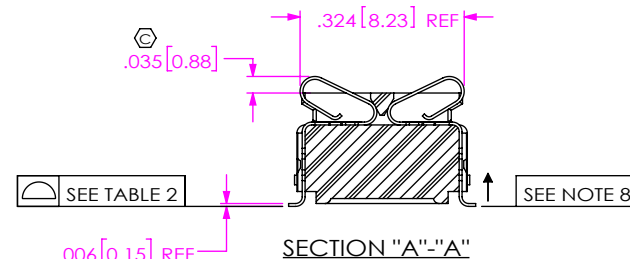
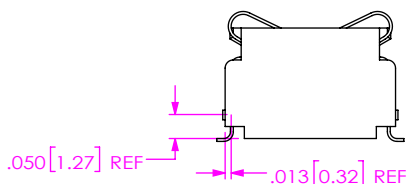
THREADED INSERT OPTION

- E: THREADED INSERT (ENGLISH) (USE INS-19-2-56-157, SEE FIG 3, SHT 2)
- M: THREADED INSERT (METRIC) (USE INS-19-M2-157-N, SEE FIG 3, SHT 2)
- BLANK FOR NON-THREADED INSERT.

FIG 1  
(FSI-110-06-XXX-D SHOWN)

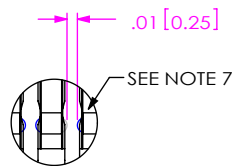


\* = NOT TOOLED



BODY HEIGHT	"B"	"C"	"D"
-06	.236 [6.00]	.450 [11.43]	.158 [4.01]
-10	.394 [10.00]	.450 [11.43]	.307 [7.80]

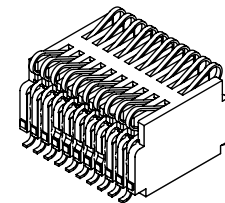
No. OF POS.	COPLANARITY
0-35	.004 [.10]
40-50	.006 [.15]



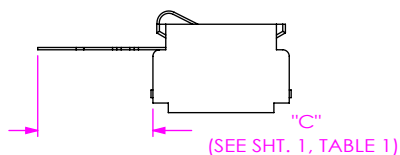
DETAIL 'C'  
SCALE 5.5 : 1

NOTES:

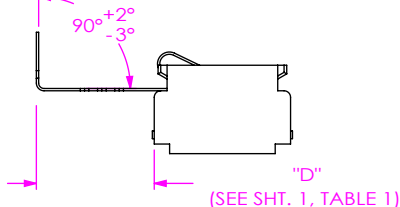
1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: 12 oz.
3. LOAD INSERTS IN THE DIRECTION OF THE ARROW USING THERMAL INSERTION MACHINE.
4. THREADED INSERT MUST BE ABLE TO HANDLE 35 in-oz's OF TORQUE MIN WITHOUT ROTATING OR "LOOSENING".
5. THREADED INSERT RETENTION TO BE 20 lb MIN.
6. FOR -05 POS WITH -PPP OPTION, LEADS MAY NOT BE VISIBLE BY SOME OPTICAL MACHINES.
7. HOT BAR FORM AFTER ASSEMBLY (WILL PRODUCE RETENTION FLANGE AS SHOWN).
8. MAXIMUM ALLOWABLE SHEAR BURR: .003[.08], IN DIRECTION SHOWN.
9. TUBES ARE STANDARD PACKAGING
10. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
11. ATTACH LABEL-4X2 TO EACH REEL.



IN-PROCESS 1  
[SHOWN WITH CARRIER]



IN-PROCESS 2  
[SHOWN WITH CARRIER]

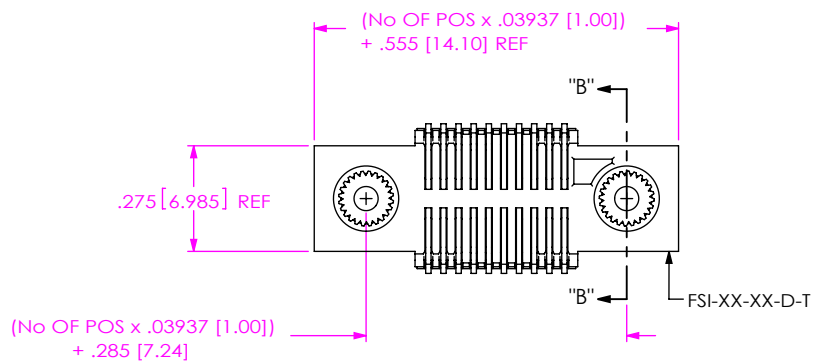


UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.  
TOLERANCES ARE:  
DECIMALS ANGLES  
.XX: ±.01 [.25] 2°  
.XXX: ±.005 [.13]  
.XXXX: ±.0020 [.05]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1  
INSULATOR: LCP, COLOR: BLACK  
CONTACTS: C-133-02-X: BeCu  
C-133-03-X: BeCu  
INSERT: BRASS

DESCRIPTION:  
1mm SINGLE ELEMENT INTERFACE  
DWG. NO.  
FSI-1XX-XX-XXX-D-X-XX-X-XX  
BY: BRATCHER 1/29/99 SHEET 1 OF 3



**FIG 3**  
 -M & -E: THREADED OPTIONS  
 (FSI-110-06-L-D-M SHOWN)  
 (EQUATIONS APPLY TO -10, -20, -25 & -30 ONLY)

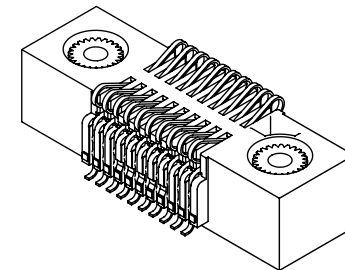
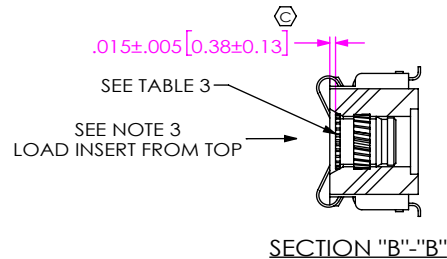
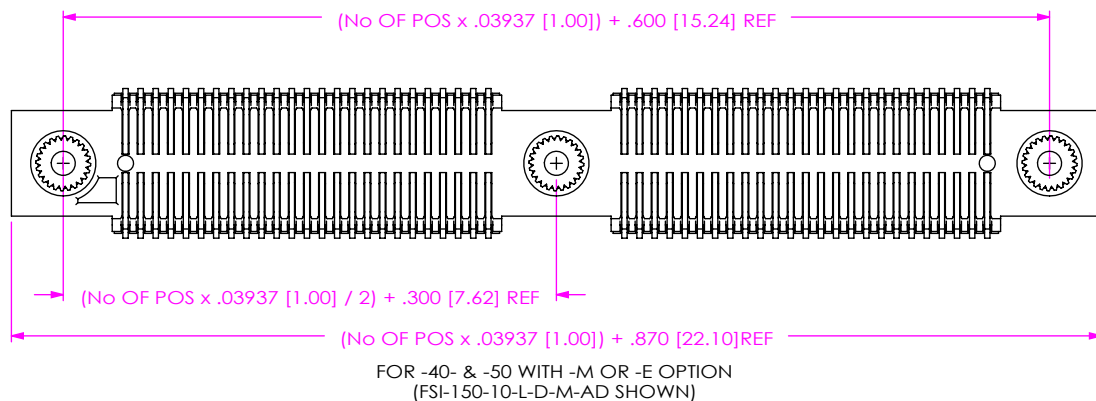


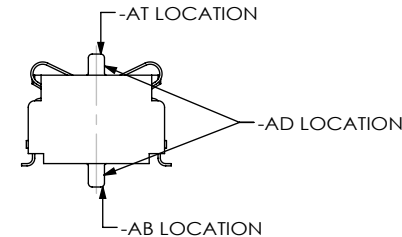
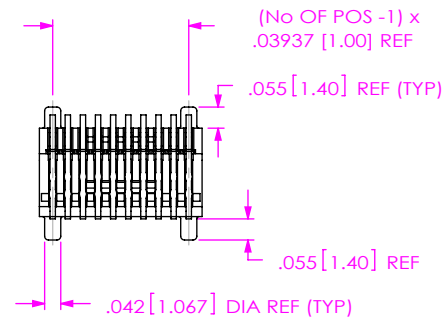
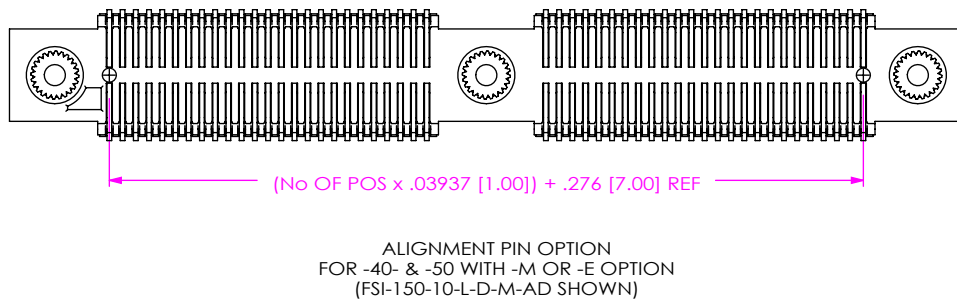
TABLE 3: THREADED INSERT

OPTION	INSERT	THREAD
-E	INS-19-2-56-157	2 X 56
-M	INS-19-M2-157-N	M2.0 x 4

**\*\* METRIC THREADED INSERTS TO BE FLASH NICKEL PLATED**



**FIG 2**  
 ALIGNMENT PIN OPTIONS  
 (FSI-110-06-L-D-AD SHOWN)



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 SHEET SCALE: 2:1



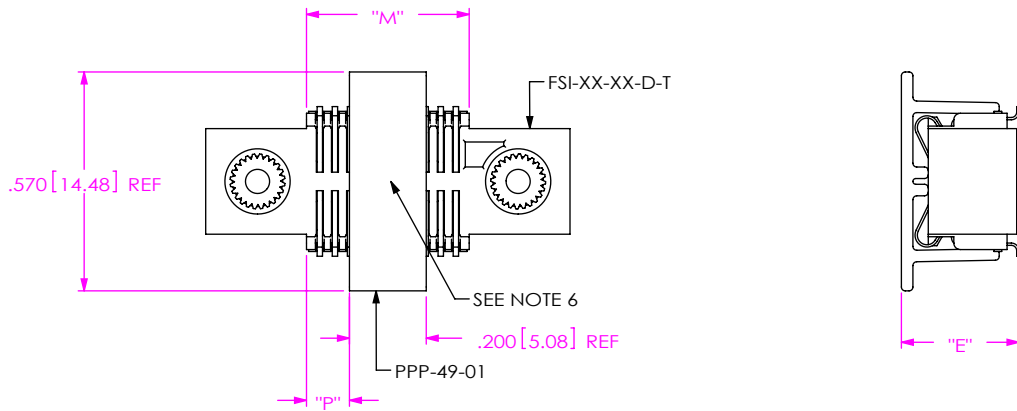
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
 PHONE: 812-944-6733 FAX: 812-948-5047  
 e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:  
 1mm SINGLE ELEMENT INTERFACE  
 DWG. NO.  
**FSI-1XX-XX-XXX-D-X-XX-X-XX**  
 BY: BRATCHER 1/29/99 SHEET 2 OF 3

FIG 4

-P: PICK & PLACE PAD OPTION  
(FSI-110-06-L-D-M SHOWN)  
NOT AVAILABLE ON 5 POSITION

NOT AVAILABLE IF POSITION IS 05 AND LEAD STYLE IS 06

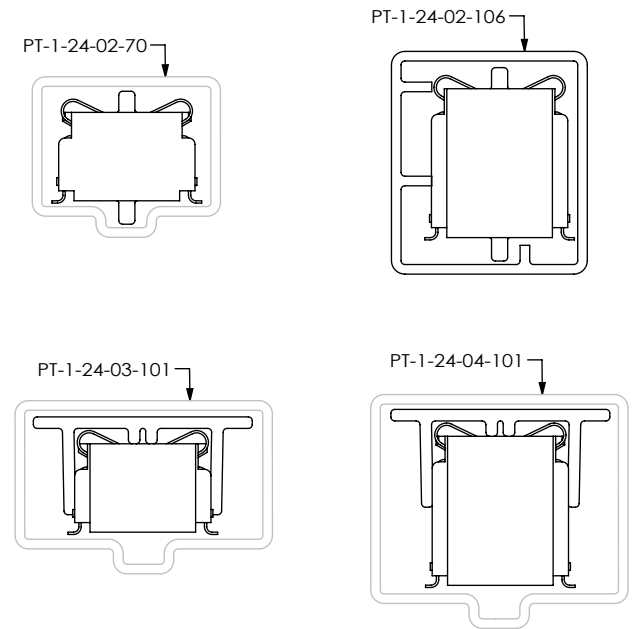


FOR 10 THRU 50 POSITIONS WITH -M OR -E OPTION,  
-10 THRU -50 WITHOUT -M OR -E OPTION

"M" = (No OF POS x .03937[1.000]) + .030[.76] REF  
"P" = {"M" - .200[5.08]} / 2 ± .020[.51]

TABLE 4

BODY HEIGHT	"E"	"F"
-06	.306 [7.77]	.241 [6.12]
-10	.464 [11.79]	.399 [10.13]



PACKAGING TABLE

BODY HEIGHT	TUBE	PLUG
-06	PT-1-24-02-70	TP-29
-10	PT-1-24-02-106	TP-13
-06-P	PT-1-24-03-101	TP-03
-10-P	PT-1-24-04-101	TP-13

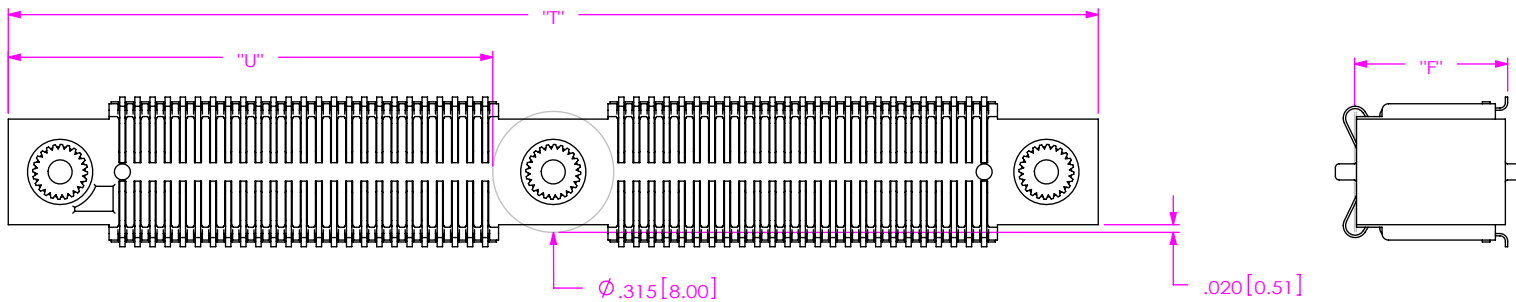


FIG 5

-K: POLYAMIDE FILM PAD  
(USE K-500-300)  
(AVAILABLE ONLY ON POSITIONS  
40 & 50 WITH -M OR -E OPTION)

"T" = (No OF POS x .03937[1.000]) + .870[22.10] REF  
"U" = {"T" - .315[8.00]} / 2 ± .020[.51]

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SHEET SCALE: 2:1



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e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION: 1mm SINGLE ELEMENT INTERFACE

DWG. NO. FSI-1XX-XX-XXX-D-X-XX-X-XX

BY: BRATCHER 1/29/99 SHEET 3 OF 3