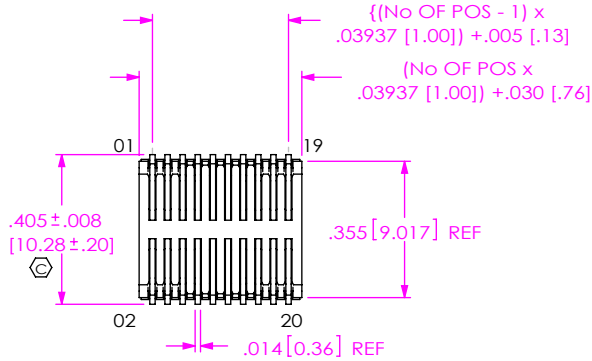


DO NOT  
SCALE FROM  
THIS PRINT



FSI-1XX-XX-XXX-D-X-XX-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: .000010 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: .000010 GOLD ON CONTACT AREA, .000200 TIN LEAD ON TAIL (USE C-133-XX-LTL)
- LM: .000010 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)

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)

OPTION

- TR: TAPE & REEL PACKAGING  
BLANK FOR TUBED PARTS.
- 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.

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.

\* = NOT TOOLED

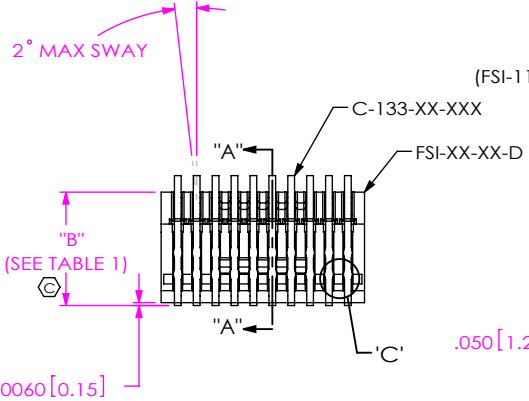
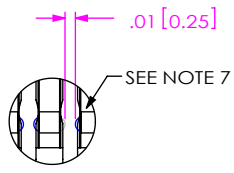
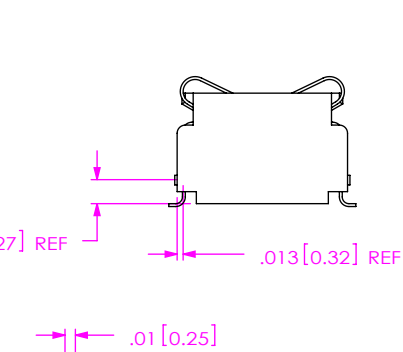
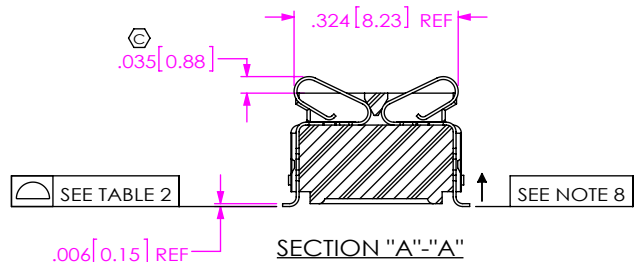


TABLE 1			
BODY HEIGHT	"B"	"C"	"D"
-06	.236 [6.00]	.450 [11.43]	.158 [4.01]
-10	.394 [10.00]	.450 [11.43]	.307 [7.80]

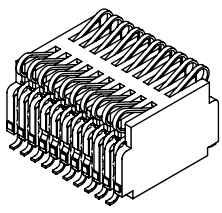
TABLE 2	
No. OF POS.	COPLANARITY
0-35	.004 [.10]
40-50	.006 [.15]



DETAIL 'C'  
SCALE 5.5 : 1



- NOTES:
- REPRESENTS A CRITICAL DIMENSION.
  - MINIMUM PUSHOUT FORCE: 12 oz.
  - LOAD INSERTS IN THE DIRECTION OF THE ARROW USING THERMAL INSERTION MACHINE.
  - THREADED INSERT MUST BE ABLE TO HANDLE 35 in.-oz's OF TORQUE MIN WITHOUT ROTATING OR "LOOSENING".
  - THREADED INSERT RETENTION TO BE 20 lb MIN.
  - FOR -05 POS WITH -PPP OPTION, LEADS MAY NOT BE VISIBLE BY SOME OPTICAL MACHINES.
  - HOT BAR FORM AFTER ASSEMBLY (WILL PRODUCE RETENTION FLANGE AS SHOWN).
  - MAXIMUM ALLOWABLE SHEAR BURR: .003[.08], IN DIRECTION SHOWN.



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

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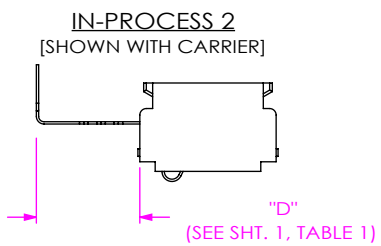
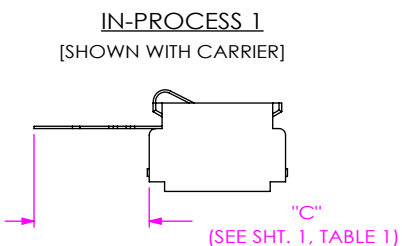
MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1  
INSULATOR: LCP, COLOR: BLACK  
CONTACTS: C-133-02-X: BeCu  
C-133-03-X: BeCu  
INSERT: BRASS

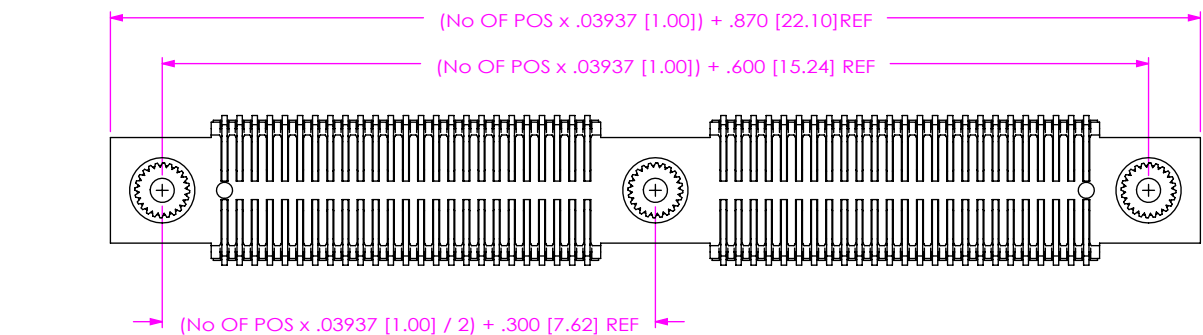
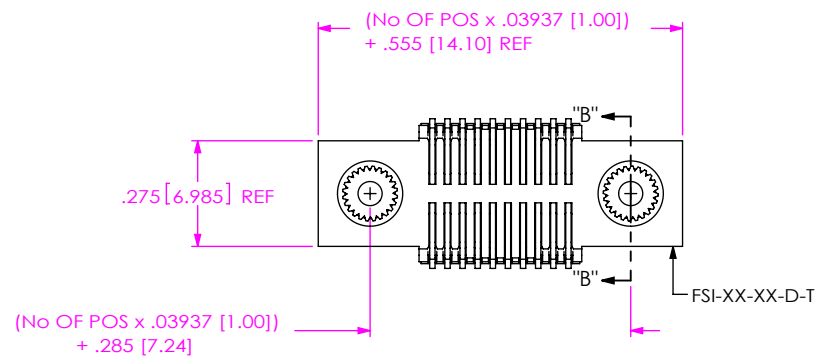
F:\DWG\MISC\MKTG\FSI-1XX-XX-XXX-D-X-XX-XX-MKT.SLDDRW



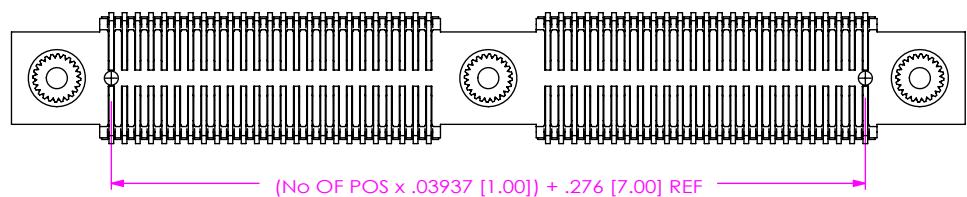
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code: 55322

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





FOR -40- & -50 WITH -M OR -E OPTION  
(FSI-150-06-L-D-M-AD SHOWN)



ALIGNMENT PIN OPTION  
FOR -40- & -50 WITH -M OR -E OPTION  
(FSI-150-XX-L-D-M-AD SHOWN)

FIG 3

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

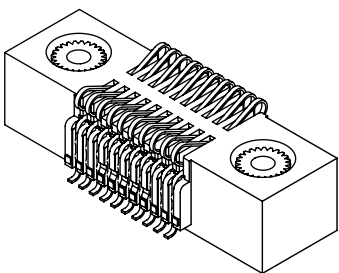
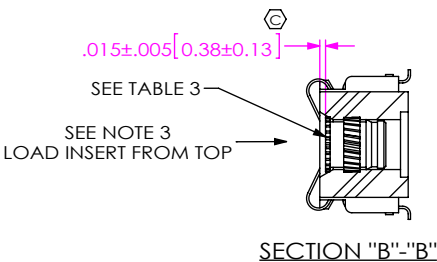
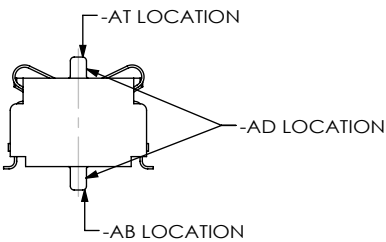
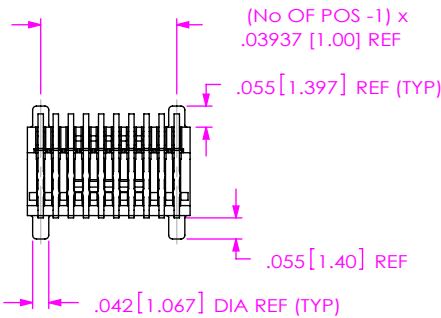


TABLE 3: THREADED INSERT		
OPTION	INSERT	THREAD
-E	INS-19-2-56-157	2 X 56
-M	INS-19-M2-157-N	M2.0 x 4

**\*\* 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



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

DESCRIPTION:  
1mm SINGLE ELEMENT INTERFACE

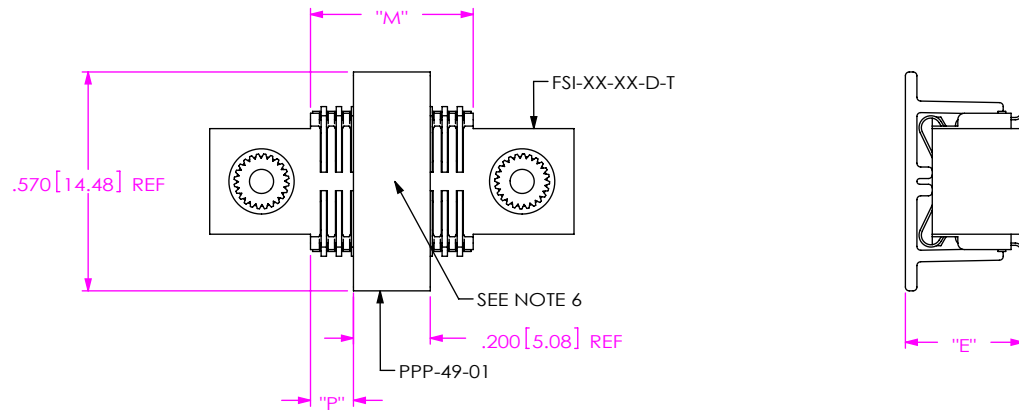
DWG. NO.  
FSI-1XX-XX-XXX-D-X-XX-XX

BY: BRATCHER 1/29/99 SHEET 2 OF 3

FIG 4

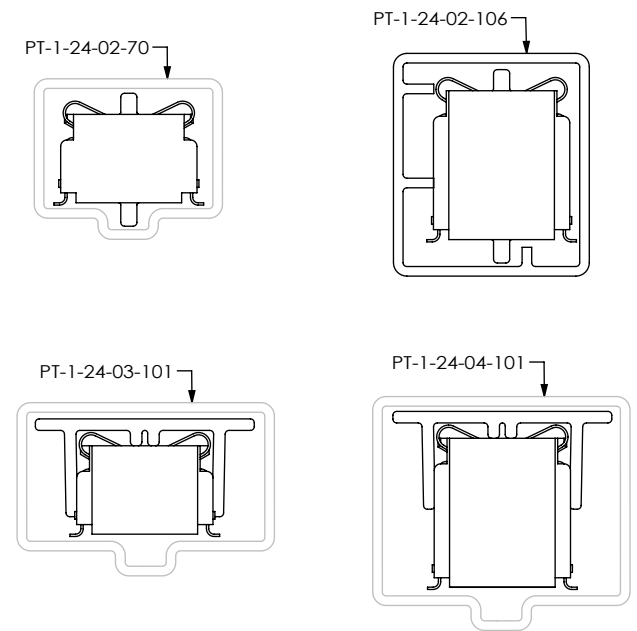
**-P: PICK & PLACE PAD OPTION  
(FSI-110-06-L-D-M SHOWN)  
NOT AVAILABLE ON 5 POSITION**

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

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

$$\begin{aligned} \text{"M"} &= (\text{No OF POS} \times .03937[1.000]) + .030[.76] \text{ REF} \\ \text{"P"} &= \{(\text{"M"} - .200[5.08]) / 2\} \pm .020[.51] \end{aligned}$$


### PACKAGING TABLE

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

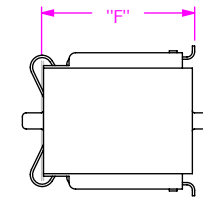
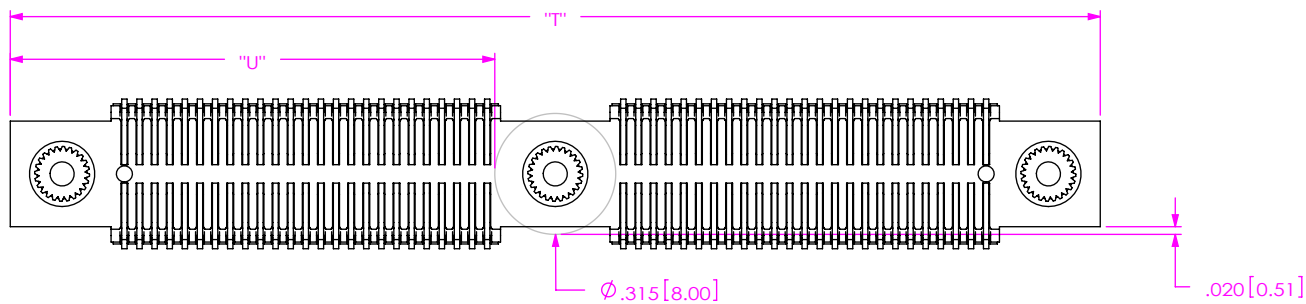


FIG 5

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

$$\begin{aligned} \text{"T"} &= (\text{No OF POS} \times .03937[1.000]) + .870[22.10] \text{ REF} \\ \text{"U"} &= \{(\text{"T"} - .315[8.00]) / 2\} \pm .020[.51] \end{aligned}$$

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

BY: BRATCHER 1/29/99

SHEET 3 OF 3