

DO NOT SCALE FROM THIS PRINT

TABLE 1	
No. OF POS.	MAX COPLANARITY
0-35	.004 [.10]
40-50	.006 [.15]

FSI-1XX-03-X-D-X-XX-XX-X-XX

**No OF POSITIONS**  
 THREADED: -10, -20, -30, -40, -50  
 NON-THREADED: -05 THRU -50  
 [IN MULTIPLES OF 5] (SEE NOTE 8)

**BODY HEIGHT**  
 -03: 3mm HEIGHT  
 (USE C-133-01-X)

**PLATING**  
 -G: GOLD  
 (USE C-133-01-G)  
 -H: HEAVY GOLD  
 (USE C-133-01-H)

**ROW SPECIFICATION**  
 -D: DOUBLE  
 (USE FSI-XX-03-D)

**PACKAGING** (SEE NOTES 11 & 12)  
 BLANK: TUBES (SEE NOTE 10)  
 -TR: TAPE & REEL PACKAGING  
 -FR: FULL REEL QTY TAPE & REEL

**PICK & PLACE**  
 -K: POLYAMIDE FILM PAD  
 (USE K-500-300) (SEE FIGS 4 & 5, SHEET 3)

**OPTION**  
 -SD: SCREW DOWN OPTION  
 (USE THS-4-40-.560-XX) (AVAILABLE ON 10, 20 & 30 POS. WITH -AD ONLY; SEE SHEET 4) (SEE NOTE 7)  
**OPTION UNAVAILABLE WITH ANY THREADED INSERT OPTION**

**ALIGNMENT PIN OPTION**  
 -AT: TOP SIDE (USE FSI-XX-03-D-AT-X)  
 -AB: BOTTOM SIDE (USE FSI-XX-03-D-AB-X)  
 -AD: DUAL (TOP & BOTTOM)  
 (USE FSI-XX-03-D-AD-X, SEE FIG 2)  
 \*\*LC: LOCKING CLIP  
 BLANK FOR NO ALIGNMENT PIN

**THREADED INSERT OPTION**  
 -E: THREADED INSERT (ENGLISH)  
 (USE INS-C-2-56-100, SEE FIG 3, SHT 2)  
 -M: THREADED INSERT (METRIC)  
 (USE INS-C-M2-100-N, SEE FIG 3, SHT 2)  
 LEAVE BLANK FOR NO THREADED INSERT

\* = NOT RELEASED FOR PRODUCTION  
 \*\* = NOT TOOLED

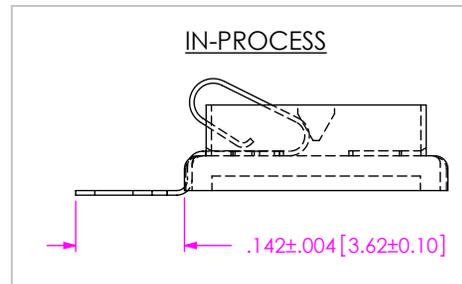
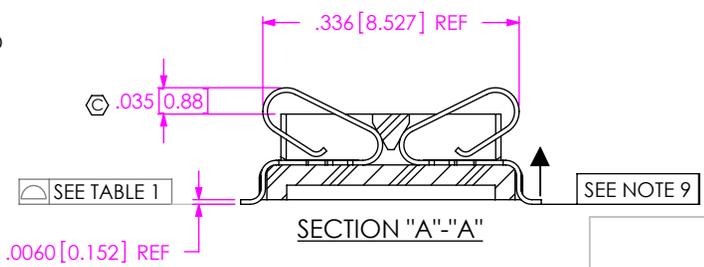
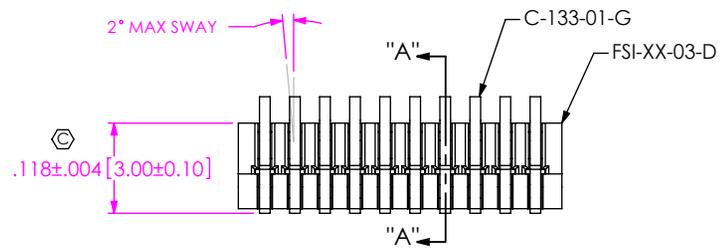
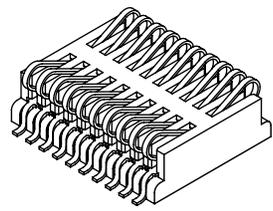
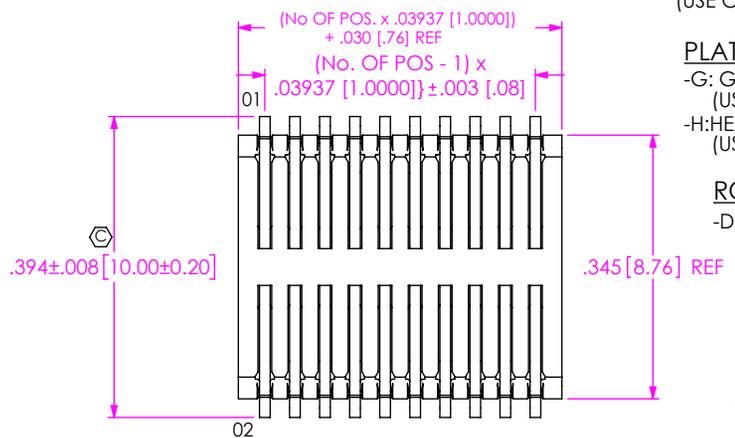


FIG 1  
 FSI-110-03-G-D SHOWN

NOTES:

- ⊕ REPRESENTS A CRITICAL DIMENSION.
- MINIMUM PUSHOUT FORCE: 12 oz.
- LOAD INSERTS IN DIRECTION OF THE ARROW USING HAND LOAD THERMAL INSERTION PRESS.
- THREADED INSERT MUST BE ABLE TO HANDLE 20 in-oz's OF TORQUE MIN WITHOUT ROTATING OR "LOOSENING".
- THREADED INSERT RETENSION TO BE 7lbs. MIN.
- THREADED INSERT TO BE FLUSH TO .005[0.13] BELOW HOUSING SURFACE.
- SD OPTION: RETENTION TO BE 3lb MIN AND MUST WITHSTAND 6 in-oz's OF TORQUE.
- APPLICATIONS REQUIRING 40-50 POSITIONS WITHOUT THREADED INSERTS, PLEASE CONTACT SAMTEC INTERCONNECT PROCESSING GROUP.
- MAXIMUM ALLOWABLE SHEAR BURR: .003 [.08], IN DIRECTION SHOWN.
- TUBES ARE STANDARD PACKAGING
- ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
- ATTACH LABEL -4X2 TO EACH REEL

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.  
 TOLERANCES ARE:  
 DECIMALS ANGLES  
 .XX: ±.01 [.2] 2°  
 .XXX: ±.005 [.13]  
 .XXXX: ±.0020 [.050]

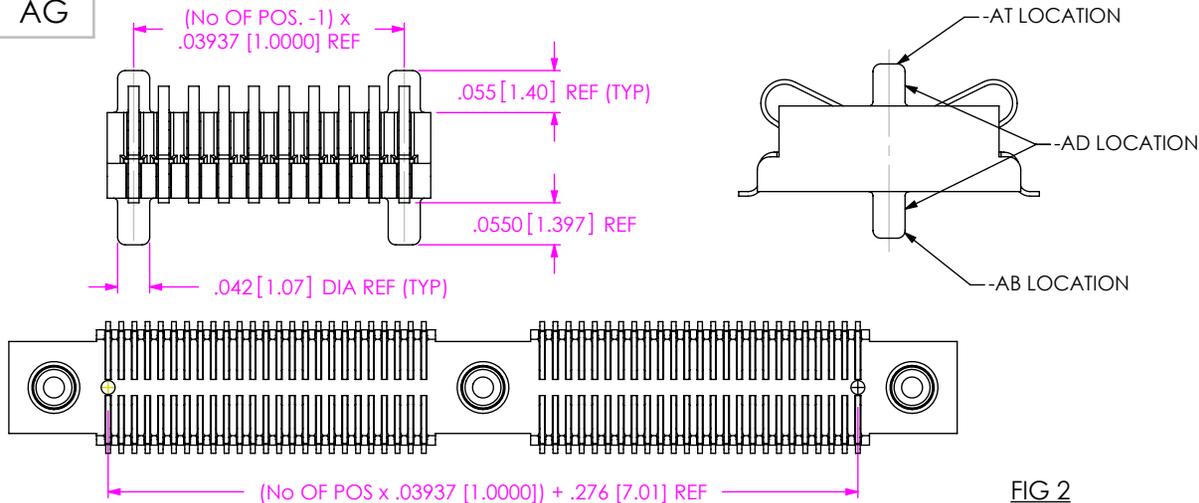
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**MATERIAL:** DO NOT SCALE DRAWING SHEET SCALE: 4:1  
 INSULATOR: VECTRA E130i  
 CONTACT: BeCu  
 INSERT: BRASS

**DESCRIPTION:** 1mm SINGLE ELEMENT INTERFACE  
**DWG. NO.:** FSI-1XX-03-X-D-X-XX-XX-X-XX  
**BY:** BRATCHER 1/27/99 **SHEET 1 OF 4**

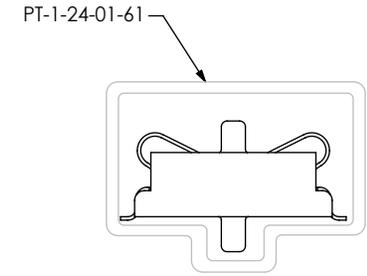


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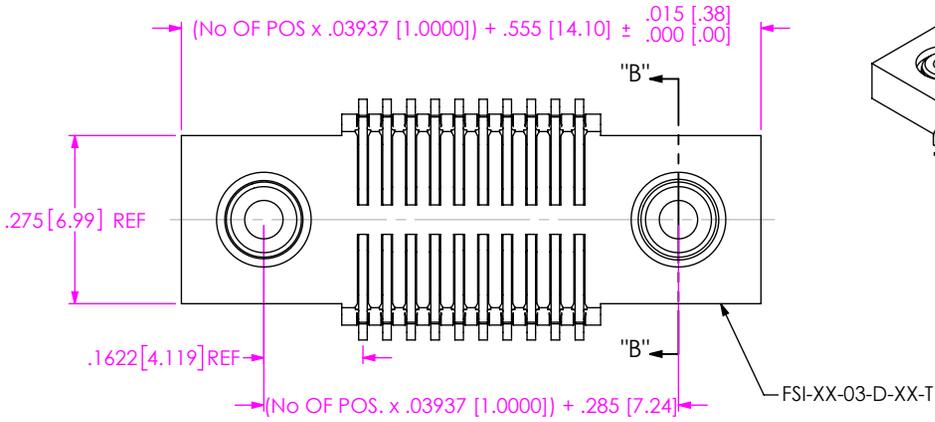


ALIGNMENT PIN OPTION  
FOR -40- & -50 WITH -M OR -E OPTION  
(SHOWN: FSI-150-03-G-D-M-AD)

FIG 2  
ALIGNMENT PIN OPTIONS  
(FSI-110-03-G-D-AD SHOWN)



NOTE: **PACKAGING VIEW**  
PARTS ARE TO BE PACKAGED IN PT-1-24-01-61 TUBES  
WITH TWO TP-03 PLUGS PER TUBE.



-M & -E: THREADED OPTIONS  
(FSI-110-03-G-D-M SHOWN)  
(EQUATIONS APPLY TO -10, -20 & -30 ONLY)

TABLE 2: INSERT OPTION

OPTION	INSERT	THREAD
-E	INS-C-2-56-100	2 x 56
-M	INS-C-M2-100-N	M2.0 x 4

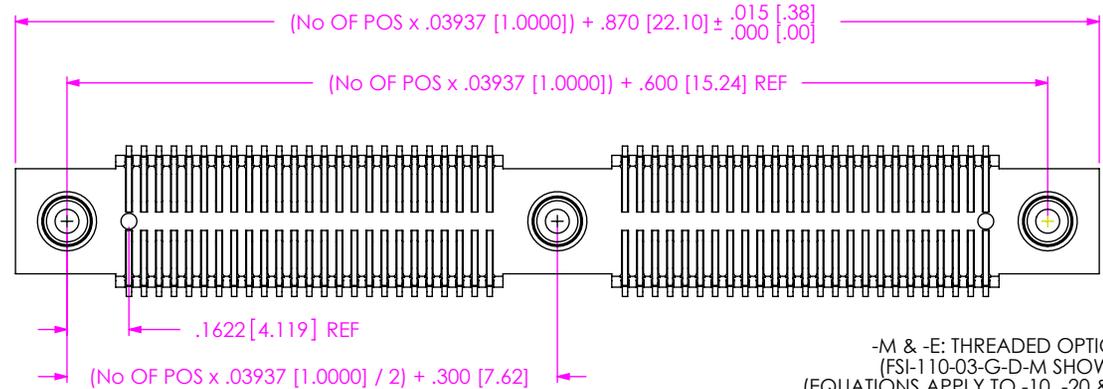
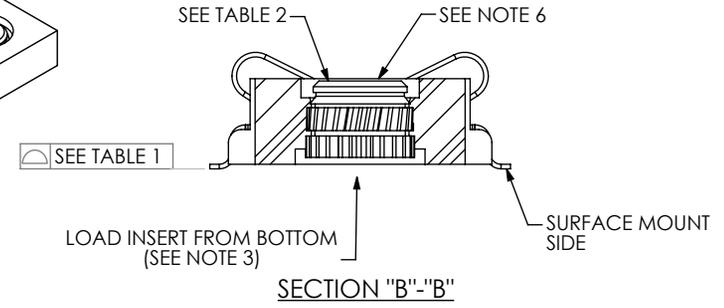


FIG 3  
FOR -40- & -50 WITH -M OR -E OPTION  
(SHOWN: FSI-150-03-X-D-M-AD)

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DO NOT SCALE DRAWING

SHEET SCALE: 4:1

DESCRIPTION: 1mm SINGLE ELEMENT INTERFACE

DWG. NO. **FSI-1XX-03-X-D-X-XX-XX-X-XX**

BY: BRATCHER 1/27/99 SHEET 2 OF 4

FIG 4

-K: POLYAMIDE FILM PAD  
(.098 [2.50] DIA PAD USED ON ALL POSITIONS  
EXCEPT -40 & -50 POSITIONS WITH  
THREADED INSERT OPTION)

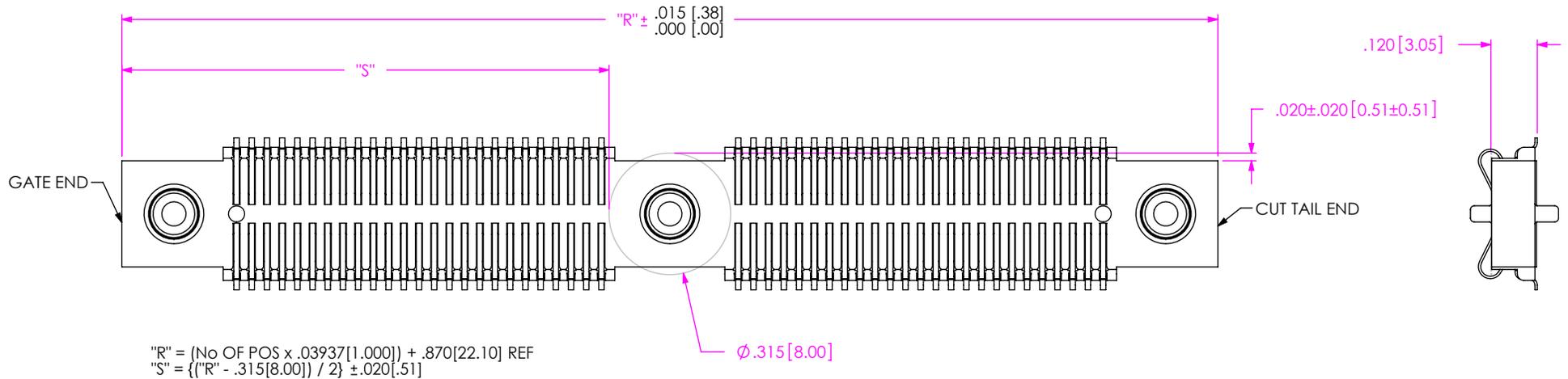
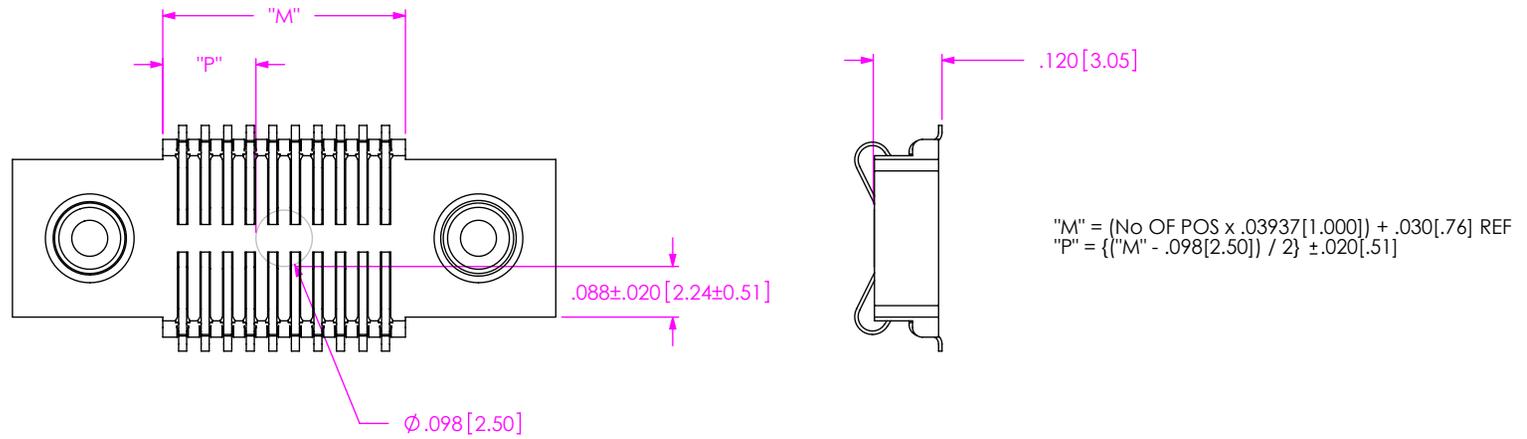
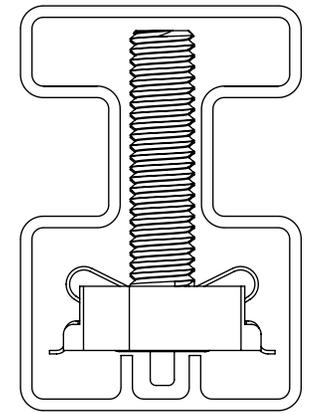
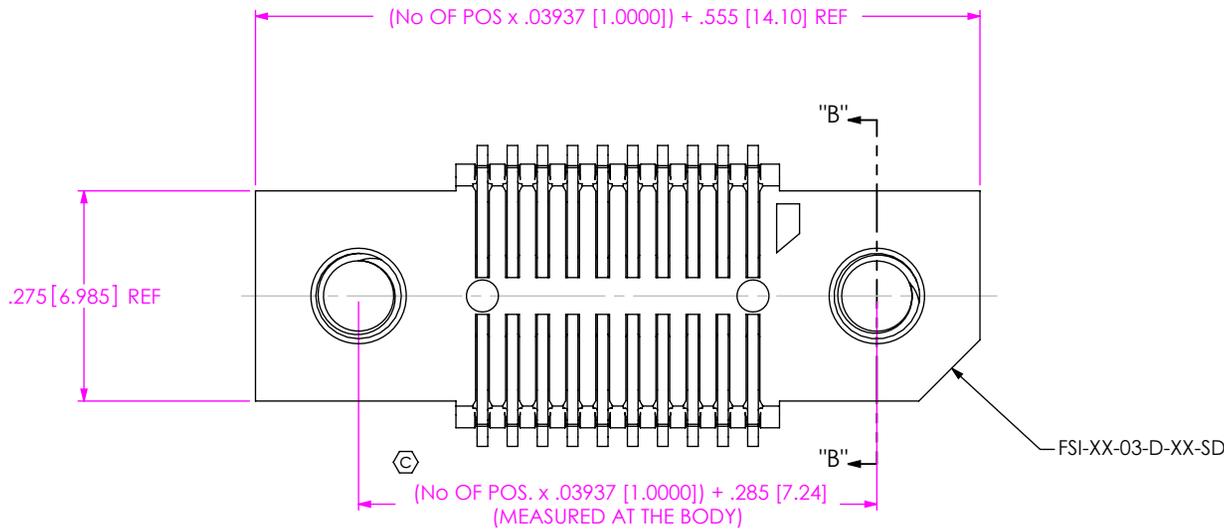


FIG 5  
-K: POLYAMIDE FILM PAD  
(.315 [8.00] DIA PAD USED ONLY ON  
-40 & -50 POSITIONS WITH  
THREADED INSERT OPTION)

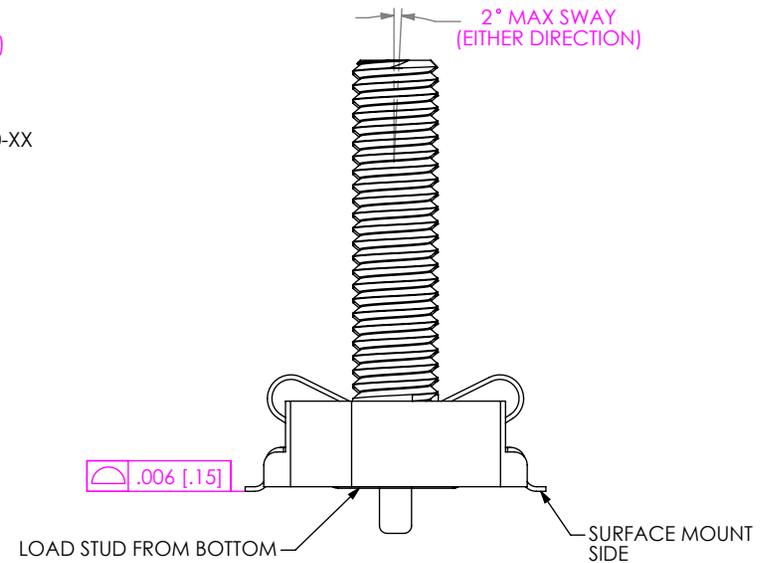
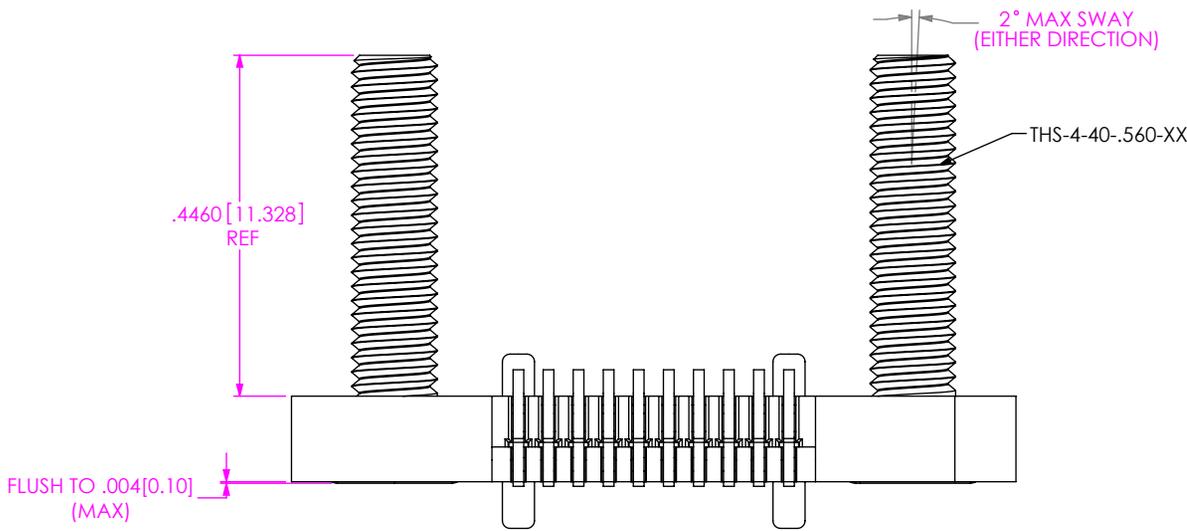
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	<p>DESCRIPTION:</p> <p>1mm SINGLE ELEMENT INTERFACE</p>	
	<p>DWG. NO.</p> <p><b>FSI-1XX-03-X-D-X-XX-XX-X-XX</b></p>	
	<p>BY: BRATCHER 1/27/99</p>	<p>SHEET 3 OF 4</p>



PACKAGING VIEW

NOTE:

PARTS ARE TO BE PACKAGED IN PT-FSI001-03-SD TUBES WITH TWO TP-03 PLUGS PER TUBE.



**FIG 6**  
 -SD: SCREW DOWN OPTION  
 (FSI-110-03-G-D-AD-SD SHOWN)  
 (AVAILABLE IN POS -10, -20 & -30 WITH -AD OPTION ONLY)  
**OPTION UNAVAILABLE WITH  
 ANY THREADED INSERT OPTION**

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DO NOT SCALE DRAWING

SHEET SCALE: 3:1

DESCRIPTION:  
 1mm SINGLE ELEMENT INTERFACE

DWG. NO.  
**FSI-1XX-03-X-D-X-XX-XX-X-XX**

BY: BRATCHER 1/27/99

SHEET 4 OF 4