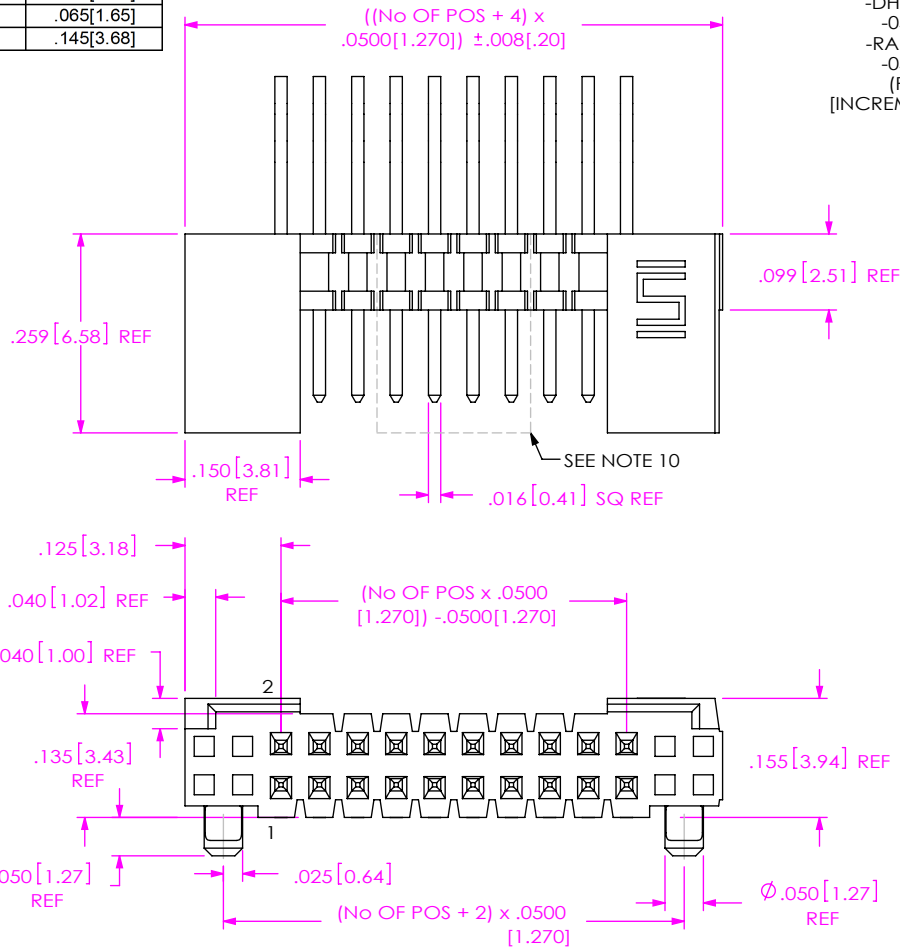


TABLE 1	
STYLE	"A"
-01	.120[3.05]
-02	.075[1.91]
-03	.065[1.65]
-04	.145[3.68]

DO NOT SCALE FROM THIS PRINT



FSH-1XX-XX-XXX-XX-XX-X-XX

No OF POSITIONS
 -DH ROW SPEC:
 -05 THRU -25
 -RA ROW SPEC:
 -05 THRU -46
 (PER ROW)
 [INCREMENTS OF 5 STD]

LEAD STYLE
 -01
 -02
 -03
 -04

OPTION
 -TR: TAPE & REEL
 (NOT AVAILABE WITH -RA OPTION)

OPTION
 -C: POLYIMIDE FILM (USE K-DOT-.177-.281-.005)
 (10 POSITION MIN) (SEE FIG 3, SHT 2)
 (NOT AVAILABLE WITH -RA)

OPTION
 -SL: SOLDER LOCKS

ROW/TAIL SPECIFICATION
 -DH: DOUBLE HORIZONTAL
 (USE FSH-XX-D-ES-XX-XX)
 -RA: RIGHT ANGLE
 (USE FSH-XX-D-ES-XX-XX)

PLATING SPECIFICATION

-L: LIGHT SELECTIVE (USE T-1S15-XX-L)
 -F: FLASH SELECTIVE (USE T-1S15-XX-F)
 -S: SELECTIVE GOLD/MATTE TIN TAIL (USE T-1S15-XX-S)
 -LM: LIGHT SELECTIVE GOLD/MATTE TIN TAIL (USE T-1S15-XX-L)
 -FM: FLASH SELECTIVE GOLD/MATTE TIN TAIL (USE T-1S15-XX-F)
 -STL: SELECTIVE GOLD CONTACT, TIN/LEAD TAIL (USE T-1S15-XX-STL)
 -FTL: FLASH SELECTIVE GOLD CONTACT, TIN/LEAD TAIL (USE T-1S15-XX-FTL)

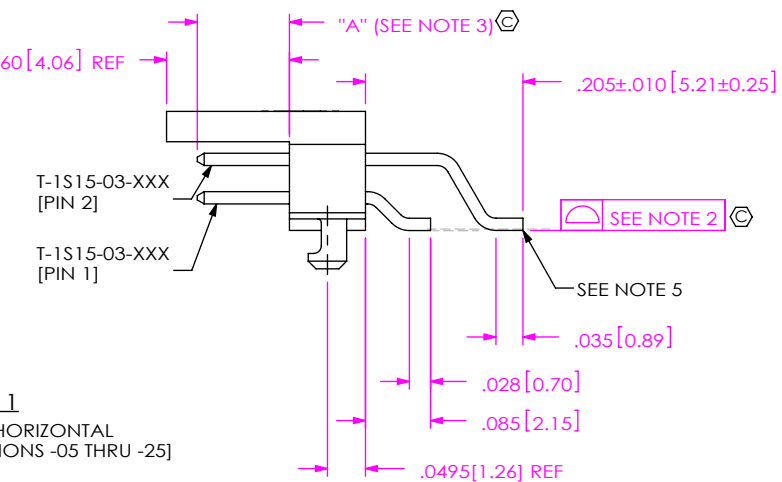


FIG 1
 -DH: DOUBLE HORIZONTAL
 [AVAILABLE IN POSITIONS -05 THRU -25]

NOTES:

1. $\text{\textcircled{C}}$ REPRESENTS A CRITICAL DIMENSION.
2. COPLANARITY TO INCLUDE INSULATOR: .0060[.152].
3. MAXIMUM HEIGHT VARIATION BETWEEN ROWS: .005[.13].
4. MINIMUM PUSHOUT FORCE: .5 LB.
5. MAXIMUM BURR ALLOWED [SHEARED TAILS]: .002[.05].
6. MAXIMUM ALLOWABLE BOW: .002[.05] INCH/INCH AFTER ASSEMBLY.
7. ALL FIRST ROW PINS TO BE .001 BELOW TO .003 ABOVE BODY (SEE SHT 3).
8. MAX FLASH TO BE .015[.38].
9. END SHROUDS NOT TO BE CUT.
10. POSITIONS 13-28 (ONCE CUT) TO HAVE 1 TAB EVENLY SPACED BETWEEN THE FIRST AND LAST CORE. POSITIONS 29-46 TO HAVE TWO TABS EVENLY SPACED BETWEEN THE FIRST AND LAST CORES.
11. FOR POSITIONS 13-27, MIDDLE SHROUD WILL NOT BE CENTERED FOR ODD POSITION PARTS.
12. ALL SECOND ROW PINS TO BE .003 BELOW TO .003 ABOVE BODY (SEE SHT 4).

PATENT NUMBERS
 6159045

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS ANGLES .XX: $\pm .01[.3]$ 2° .XXX: $\pm .005[.13]$.XXXX: $\pm .0020[.051]$	* PROPRIETARY NOTE * THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.	520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code: 55322
MATERIAL: VECTRA E130I, COLOR: BLACK TERMINAL: PHOS BRONZE, THICKNESS: .0160 SQ	BY: DEANP 9/8/1999	SHEET 1 OF 4

FIG 2

-RA: RIGHT ANGLE
(SAME AS FIG 1, UNLESS OTHERWISE STATED)
[AVAILABLE IN POSITIONS -05 THRU -46]

TABLE 2	
STYLE	"B"
-01	.120[3.05]
-02	.075[1.91]
-03	.065[1.65]
-04	.145[3.68]

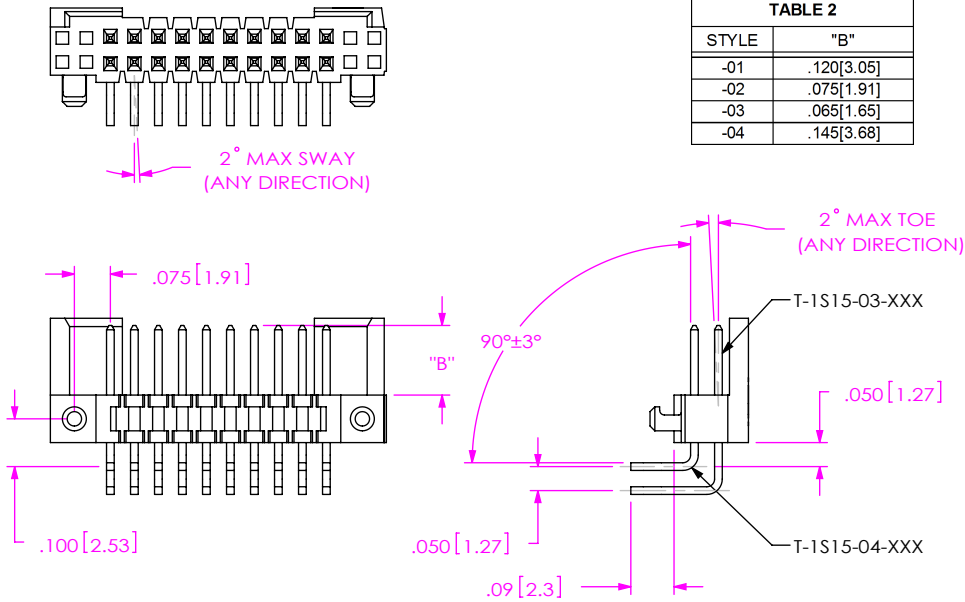
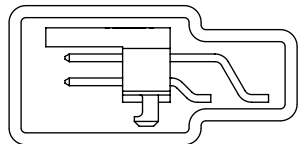
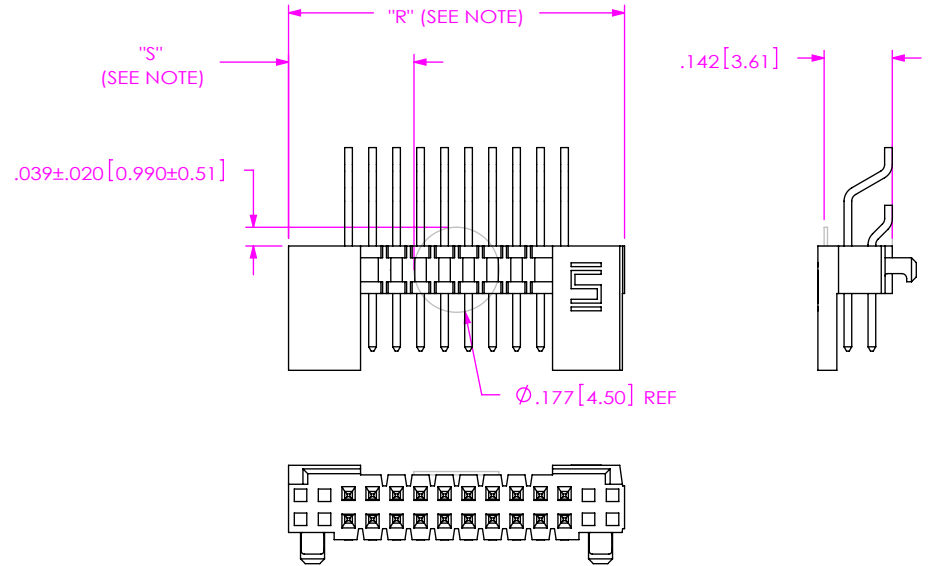


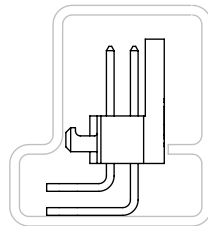
FIG 3

-C: POLYIMIDE FILM
NOTE: "R" = USE MEASURED DIMENSION (REF)
"S" = $\{("R" - .1772[4.501]) / 2\} \pm .020[.51]$



-DH
TUBE: PT-1-24-02-53
PLUG: TP-09

PACKAGING VIEW
TUBE ALL POSITIONS



-RA
TUBE: PT-1-24-01-45
PLUG: TP-07

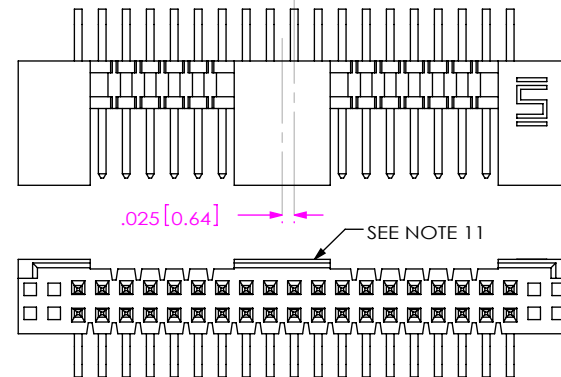


FIG 4
FSH-119-XX-XX-RA-XX
SHOWN

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

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 2.5:1



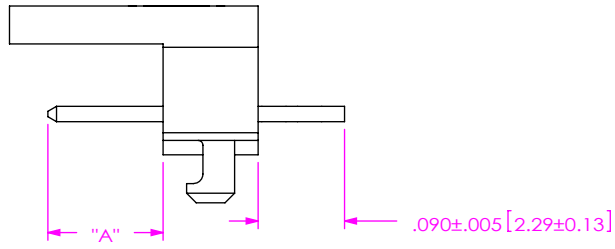
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
.050 SHROUDED TERMINAL ASSEMBLY

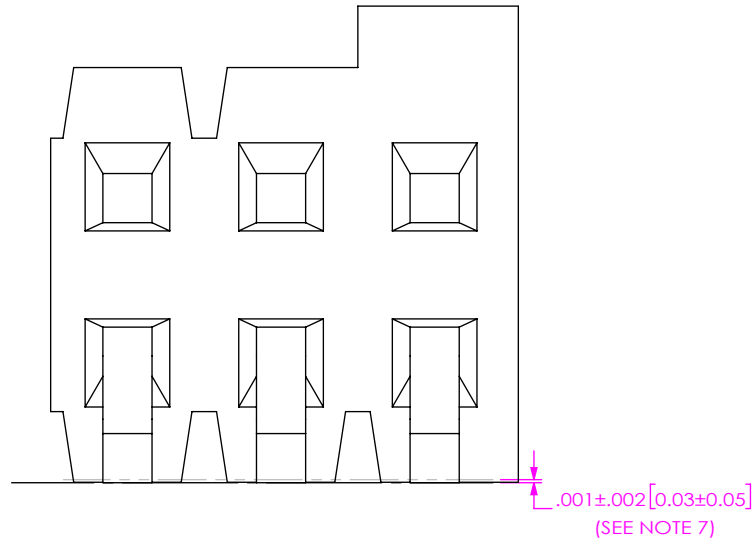
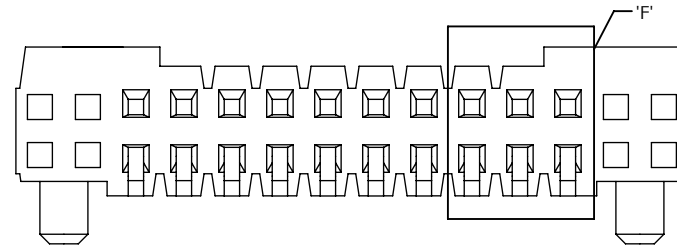
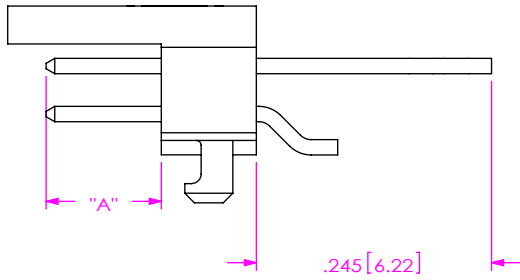
DWG. NO.
FSH-1XX-XX-XXX-XX-XX-X-XX

BY: DEANP 9/8/1999 SHEET 2 OF 4

IN-PROCESS 1



IN-PROCESS 2
(AFTER FIRST ROW FORMED)



PROPRIETARY NOTE
 * THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC. *



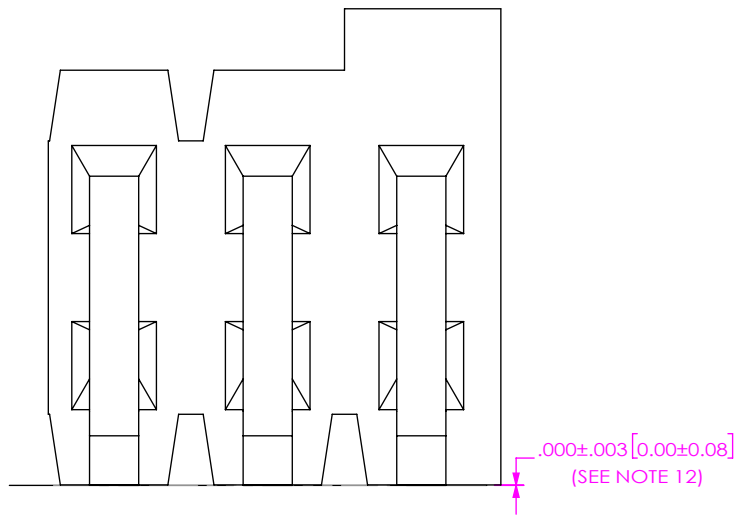
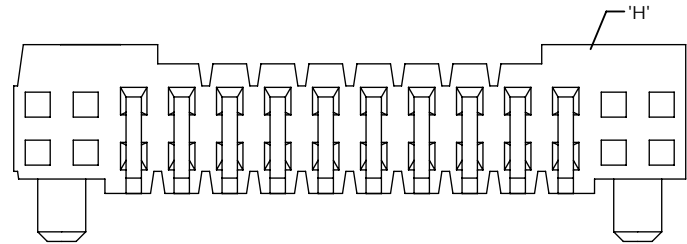
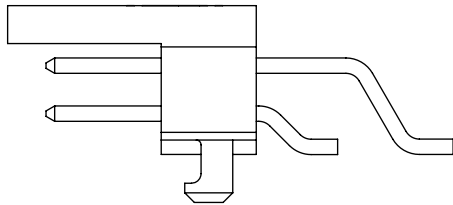
520 PARK EAST BLVD, NEW ALBANY, IN 47150
 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail: info@SAMTEC.com code: 55322

SHEET SCALE: 2.5:1

DESCRIPTION:
 .050 SHROUDED TERMINAL ASSEMBLY

DWG. NO.
 FSH-1XX-XX-XXX-XX-XX-X-XX

BY: DEANP 9/8/1999 SHEET 3 OF 4



PROPRIETARY NOTE
 THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.



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

SHEET SCALE: 2.5:1

DESCRIPTION:
 .050 SHROUDED TERMINAL ASSEMBLY

DWG. NO.
 FSH-1XX-XX-XXX-XX-XX-X-XX

BY: DEANP 9/8/1999 SHEET 4 OF 4