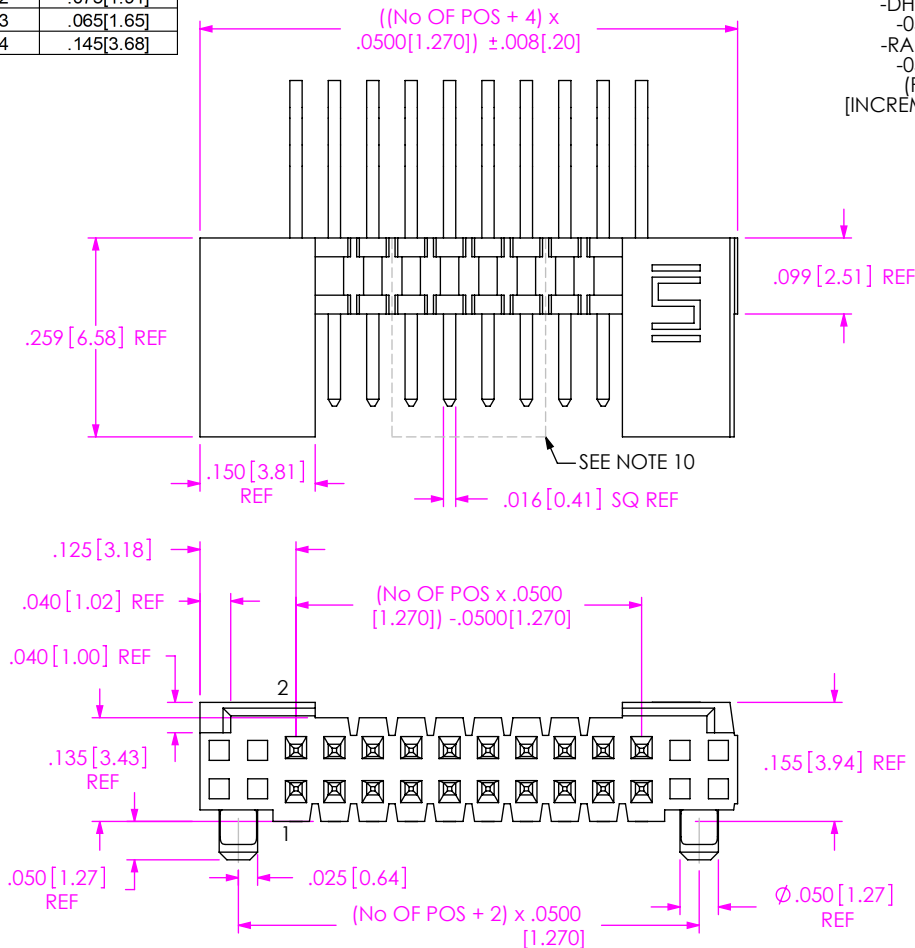


DO NOT
SCALE FROM
THIS PRINT

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



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

PACKAGING
BLANK: TUBES (SEE NOTE 13)
-TR: TAPE & REEL (SEE NOTES 14 & 15)
(NOT AVAILABLE WITH -RA)
-FR: FULL REEL QTY TAPE & REEL
(SEE NOTES 15 & 14)
(NOT AVAILABLE WITH -RA)
PICK AND PLACE 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)

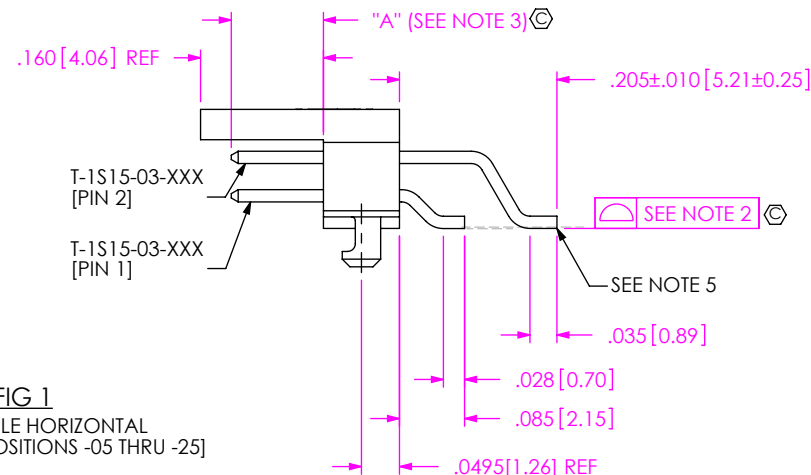
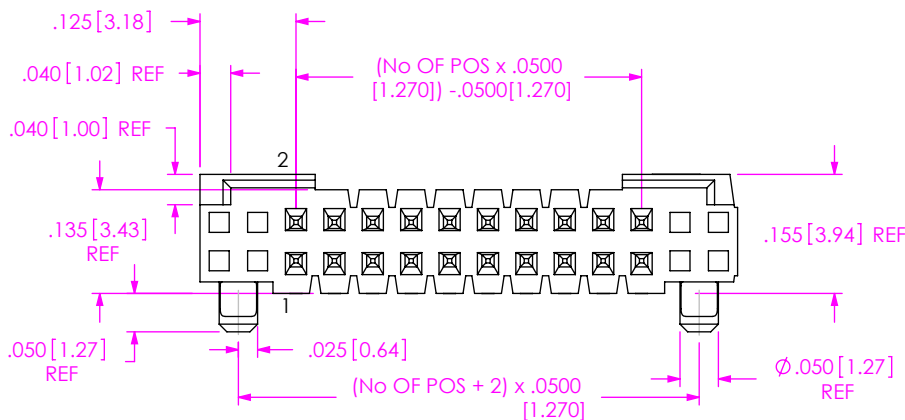


FIG 1

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

NOTES:

1. $\odot$ 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).
13. TUBES ARE STANDARD PACKAGING.
14. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
15. ATTACH LABEL ON EACH REEL.

PATENT NUMBERS
6159045

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS

.XX: $\pm .01[.3]$

.XXX: $\pm .005[.13]$

.XXXX: $\pm .0020[.051]$

ANGLES

2°

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.

MATERIAL:

VECTRA E130I, COLOR: BLACK

TERMINAL: PHOS BRONZE, THICKNESS: .0160 SQ

DO NOT SCALE DRAWING

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 1 OF 4

samtec

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

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]

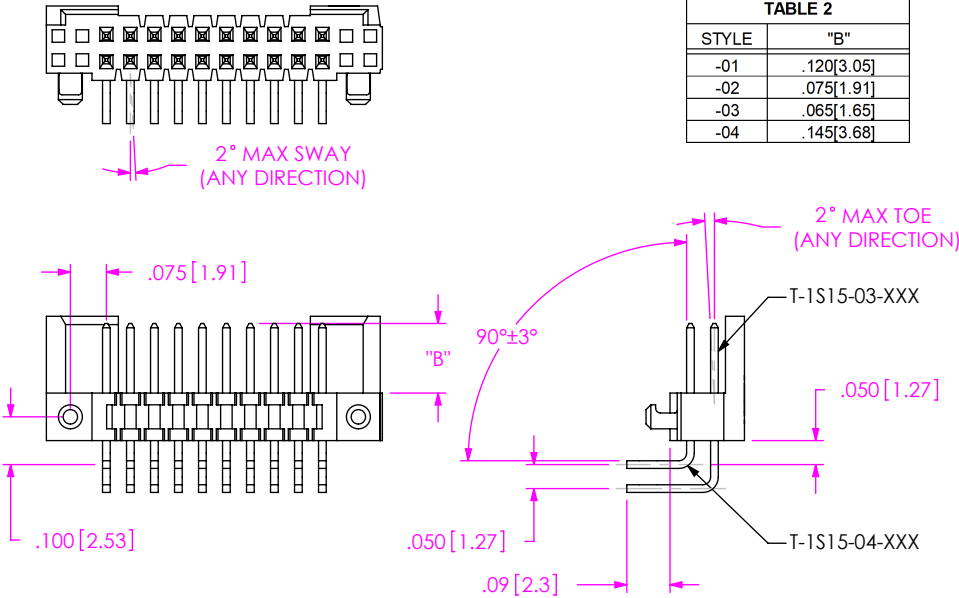
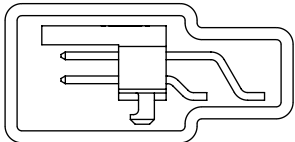
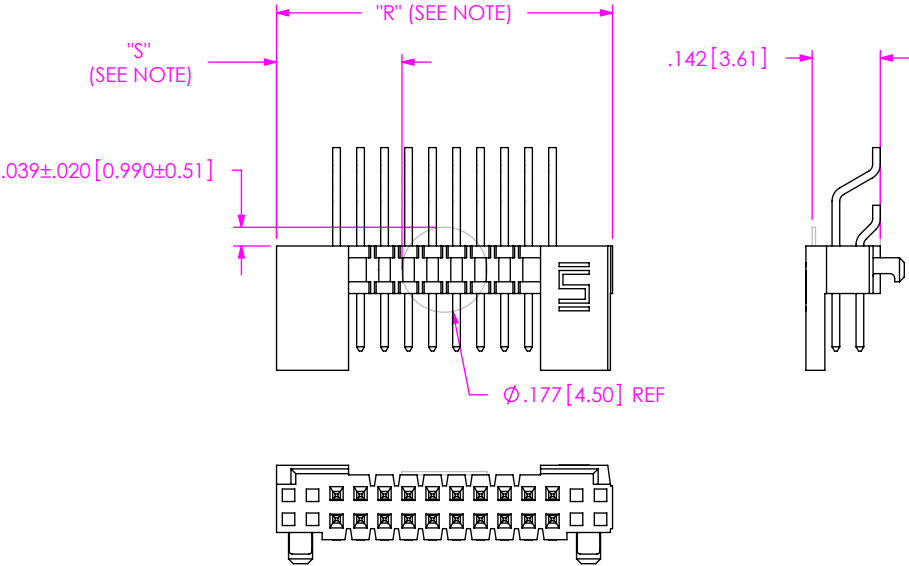


FIG 3

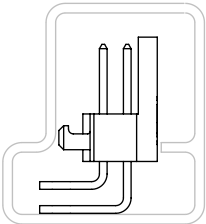
-C: POLYIMIDE FILM

NOTE: "R" = USE MEASURED DIMENSION (REF)
"S" = {("R" - .1772[4.501]) / 2} ±.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

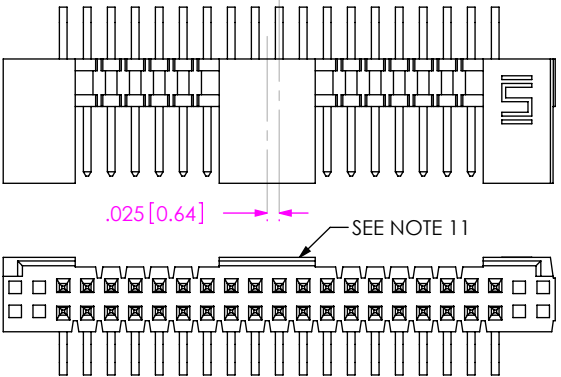


FIG 4

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

samtec

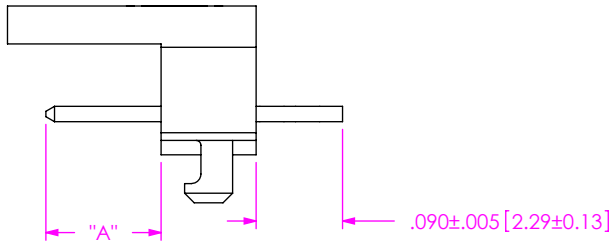
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code: 55322

DESCRIPTION:
.050 SHROUDED TERMINAL ASSEMBLY

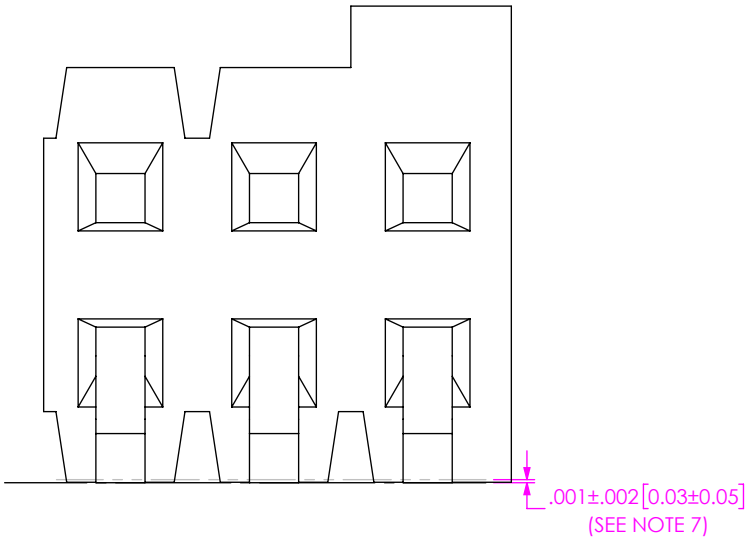
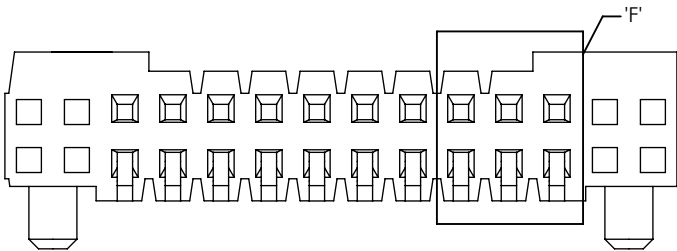
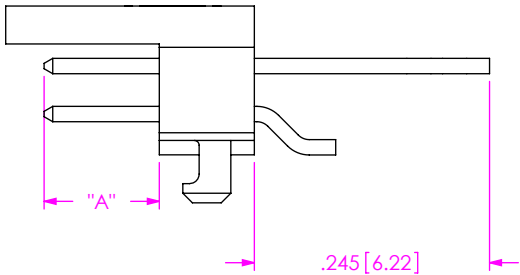
DWG. NO.
FSH-1XX-XX-XXX-XX-XX-X-XX

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

IN-PROCESS 1



IN-PROCESS 2
(AFTER FIRST ROW FORMED)



DETAIL 'F'
SCALE 16 : 1

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.

SHEET SCALE: 2.5:1

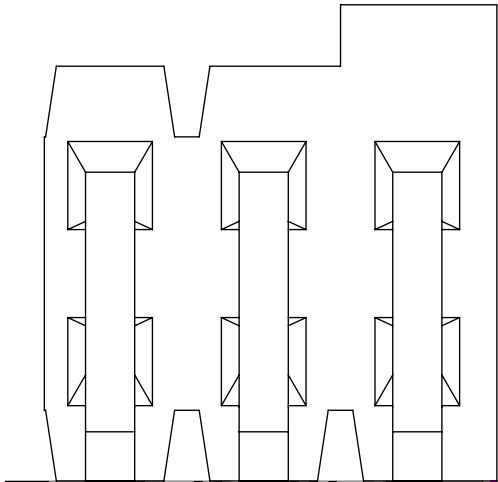
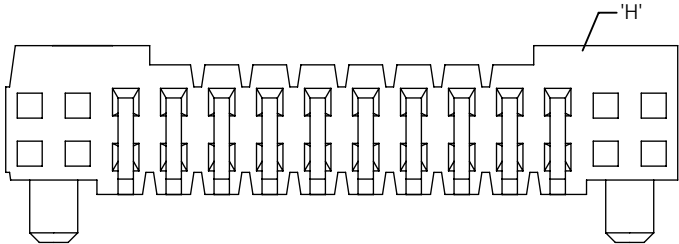
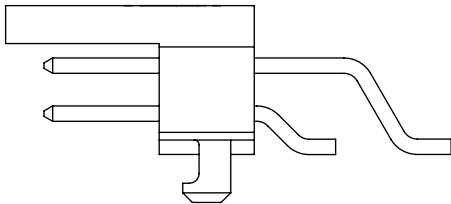
samtec

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 3 OF 4



$.000 \pm .003 [0.00 \pm 0.08]$
(SEE NOTE 12)

DETAIL 'H'
SCALE 16 : 1

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.

SHEET SCALE: 2.5:1

samtec

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 4 OF 4