# 10119189 - X 0 C - X X X LF

LEAD-FREE DESIGNATION ONLY WITH APPLICABLE PLATING CODES

6-COLUMN DIFFERENTIAL SIGNAL

| LETTER | PERFORMANCE-BASED PLATING (SEE NOTE 2) | |
|---|---|---|
| | TARGET APPLICATION | LEAD-FREE (LF) |
| B | TELCORDIA CO | NO |
| C | TELCORDIA UE | NO |
| D | TELCORDIA CO | YES |
| E | TELCORDIA UE | YES |

| NUMBER | GUIDE PIN STYLE, HEIGHT |
|---|---|
| 0 | STANDARD GUIDE PIN MACHINED, 31.6mm |
| 4 | STANDARD GUIDE PIN MACHINED, 25.7mm |

| NUMBER | CONTACT MATING WIPE LENGTH | | COMPLIANT PIN DRILL SIZE |
|---|---|---|---|
| | SIGNAL | GROUND | |
| 1 | 2 | 4 | Ø0.55 [0.0217"] |
| 2 | 3 | 4 | Ø0.55 [0.0217"] |
| 3 | 2 | 4 | Ø0.45 [0.0177"] |
| 4 | 3 | 4 | Ø0.45 [0.0177"] |
| 5 | 2 | 3 | Ø0.55 [0.0217"] |
| 6 | 3 | 3 | Ø0.55 [0.0217"] |
| 7 | 2 | 3 | Ø0.45 [0.0177"] |
| 8 | 3 | 3 | Ø0.45 [0.0177"] |

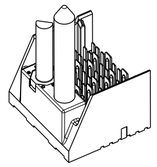
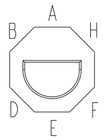
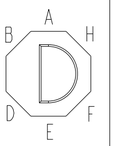
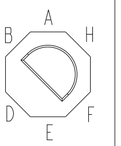
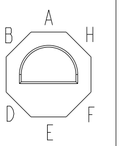
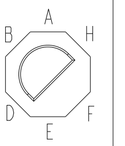
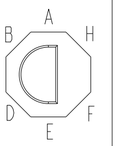
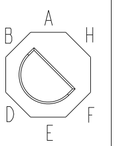
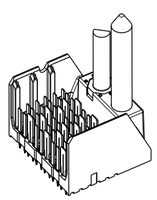
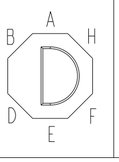
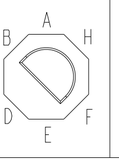
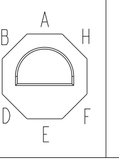
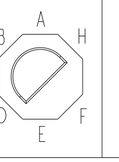
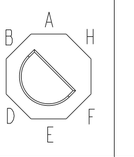
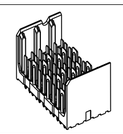
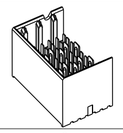
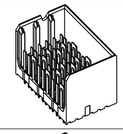
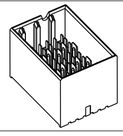
| MODULE DESCRIPTION | LETTER DESIGNATION REPRESENTED IN DASH NUMBER | | | | | | | | | BASE MODULE |
|---|---|---|---|---|---|---|---|---|---|---|
| LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 3) | J | A | B | C | D | E | F | G | H |  |
| | |  | |  |  |  |  |  |  | |
| RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 4) | Y | P | Q | R | S | T | U | V | W |  |
| | | | |  |  |  |  | |  | |
| OPEN MODULE (TWO WALL) (SEE SHEET 2) | 0 (ZERO) | | | | | | | | |  |
| LEFT WALL MODULE (SEE SHEET 5) | L | | | | | | | | |  |
| RIGHT WALL MODULE (SEE SHEET 6) | M | | | | | | | | |  |
| FOUR WALL MODULE (SEE SHEET 7) | I (ONE) | | | | | | | | |  |

TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)

| | GROUNDED | UNGROUNDED |
|---|---|---|
| FINISHED | Ø2.35-2.55 | Ø2.35-2.55 |
| PAD | Ø5.50 | N/A |
| PLATED | YES | NO |
| DRILL (mm/in) | 2.58/.1015 | 2.44/.096 |

TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

| SCREW P/N | DESCRIPTION | BOARD THICKNESS |
|---|---|---|
| 10091790-002LF | #2.56 X .375" PHILIPS PANHEAD W/SQ CONICAL WASHER | 1.60 - 5.00 |
| 10091790-003LF | #2.56 X .500" PHILIPS PANHEAD W/SQ CONICAL WASHER | 5.00 - 10.00 |

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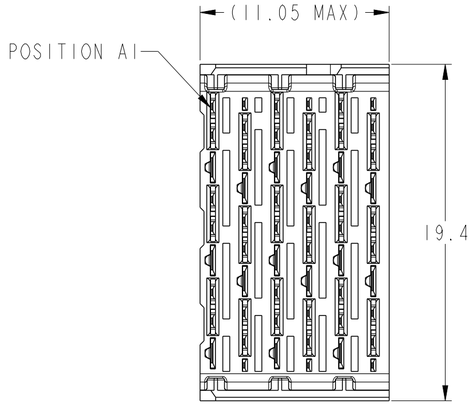
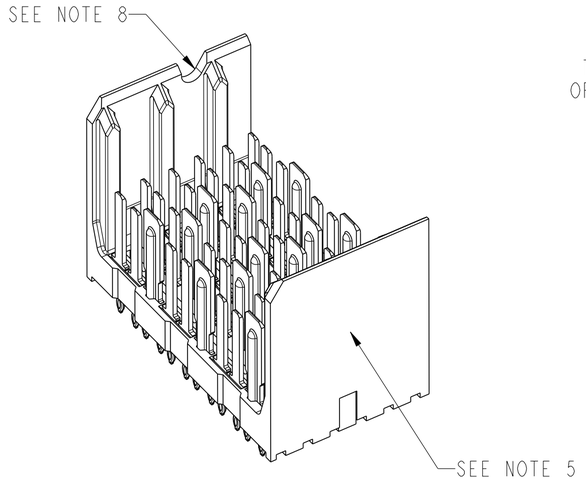
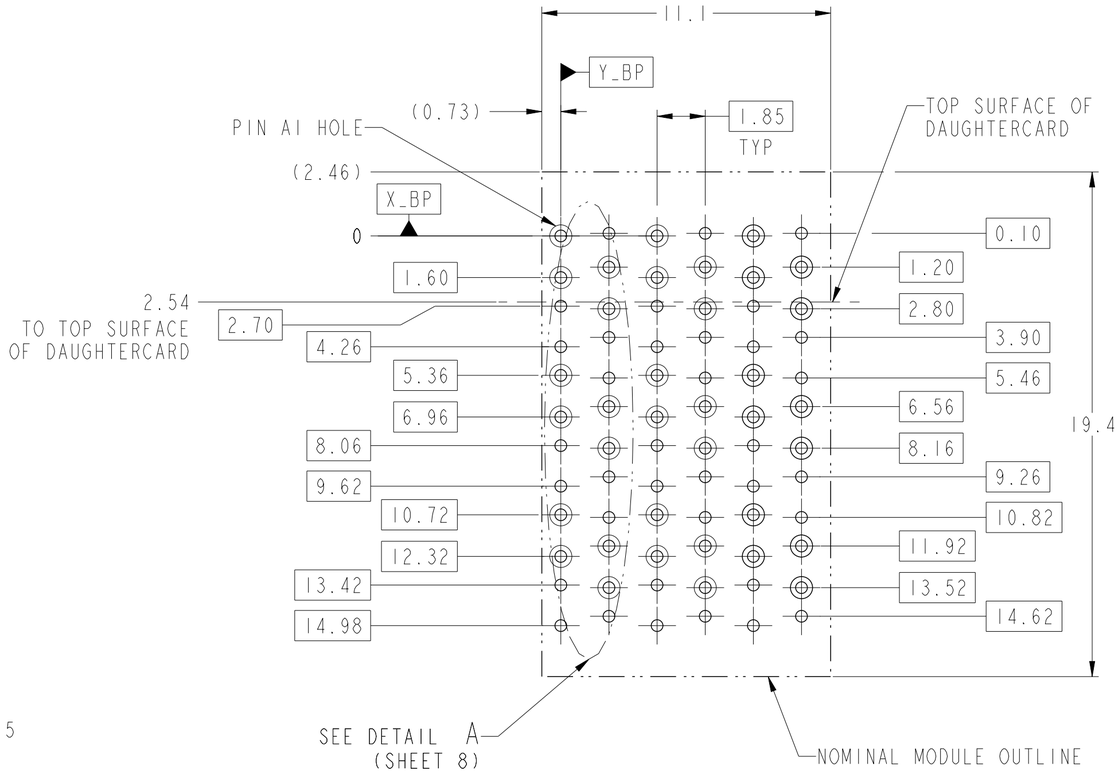
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Roger Ng | 2011/11/22 | projection | MM | size A2 / scale 4:1 |
| tolerance std - ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2014/10/02 | | | ecn no ELX-S-18843-1 |
| | | | | chr | - | - | | | |
| | | | | appr | Chen-Hong Tan | 2014/12/10 | product family XCEDE | | rel level Released |
| surface ASME Y14.5 | linear | 0.X | ±0.2 | FCI | title | MODULE ASSEMBLY | dwg no 10119189 | | rev B |
| | | 0.XX | ±0.10 | | | VERTICAL HEADER, 6 COLUMN, 3 PAIR | | | |
| | | 0.XXX | ±0.050 | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. - | Product - Customer Drw | | | sheet 1 of 8 |

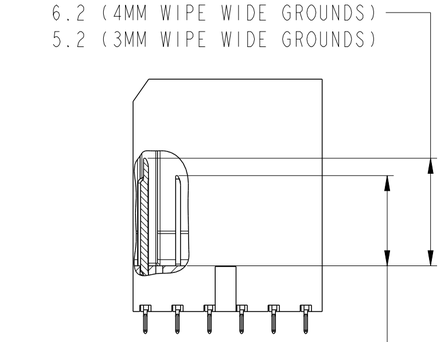
# OPEN (2- WALL) MODULE

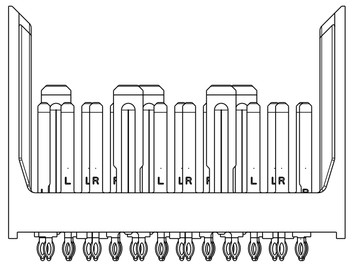


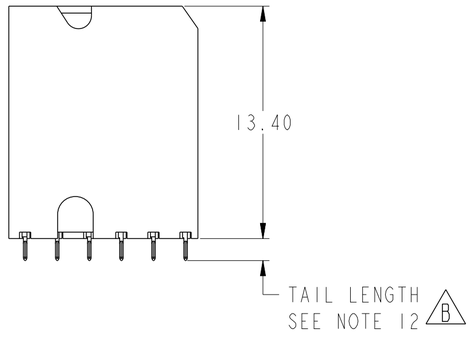




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref - | | | | dr | Roger Ng | 2011/11/22 | projection | MM | size A2 | scale 4:1 |
| tolerance std - ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2014/10/02 | | | ecn no | ELX-S-18843-1 |
| | | | | chr | - | - | | | | |
| | | | | appr | Chen-Hong Tan | 2014/12/10 | product family XCEDE | | rel level | Released |
| surface ASME Y14.5 | linear | 0.X | ±0.2 | FCI www.fci.com | title MODULE ASSEMBLY VERTICAL HEADER, 6 COLUMN, 3 PAIR | | | dwg no 10119189 | rev B | |
| | | 0.XX | ±0.10 | | | | | | | |
| | | 0.XXX | ±0.050 | | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. - | | Product - Customer Drw | | sheet 2 of 8 | |

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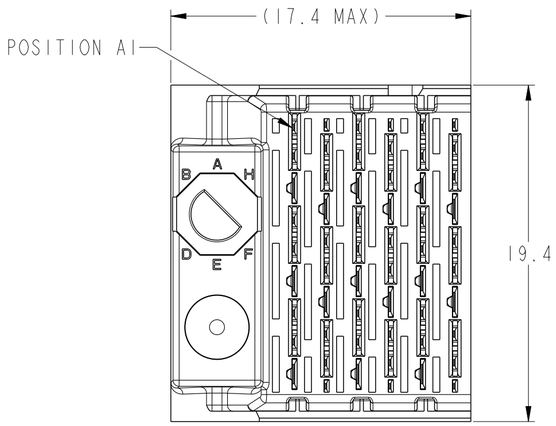
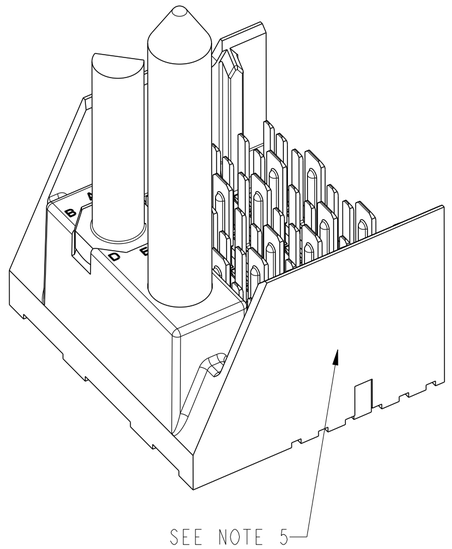
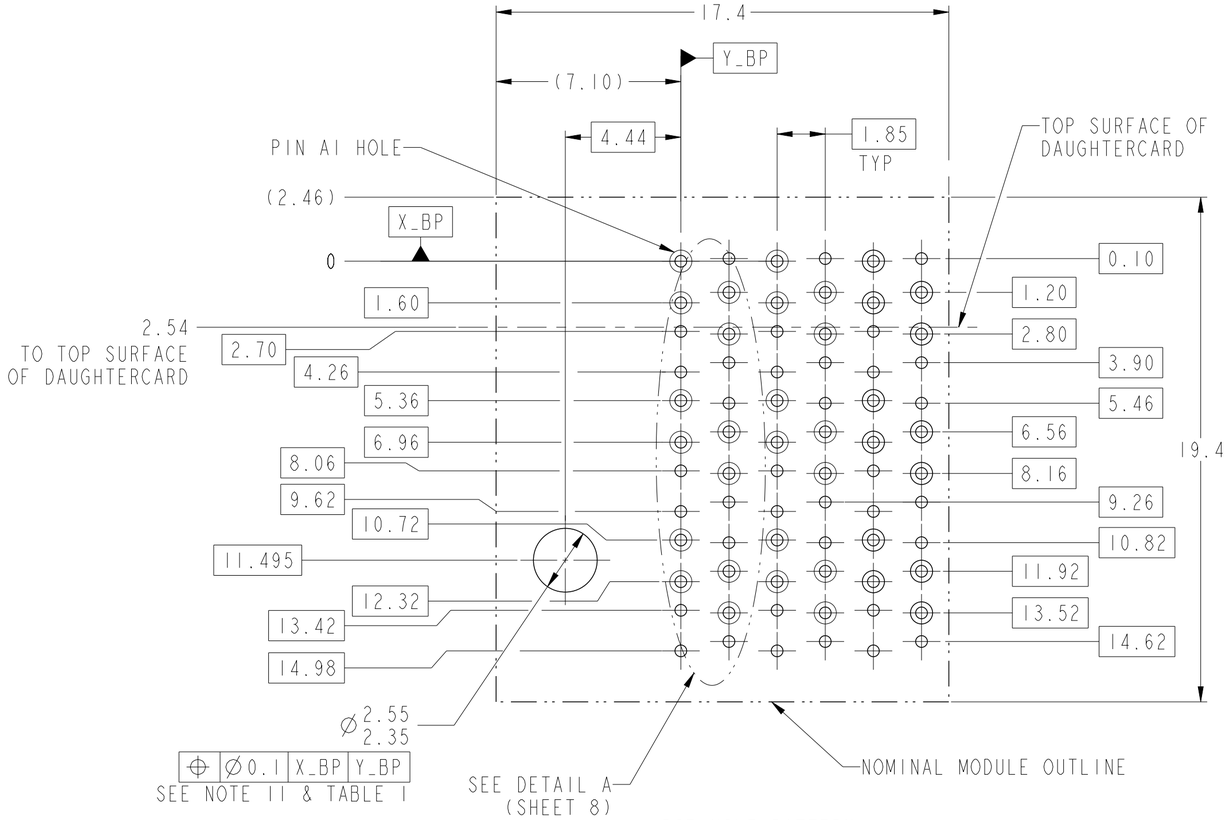
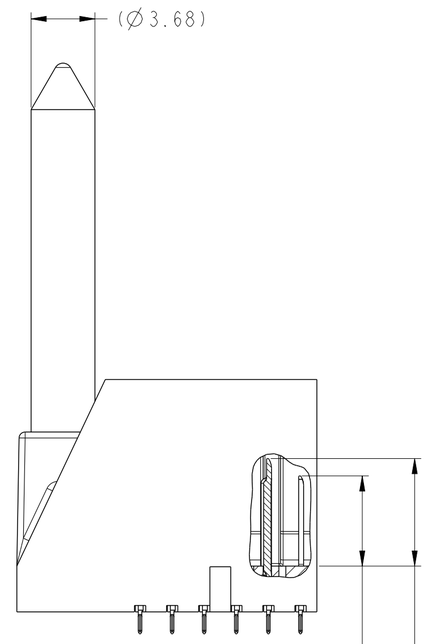
# LEFT POLARIZING/GUIDE MODULE

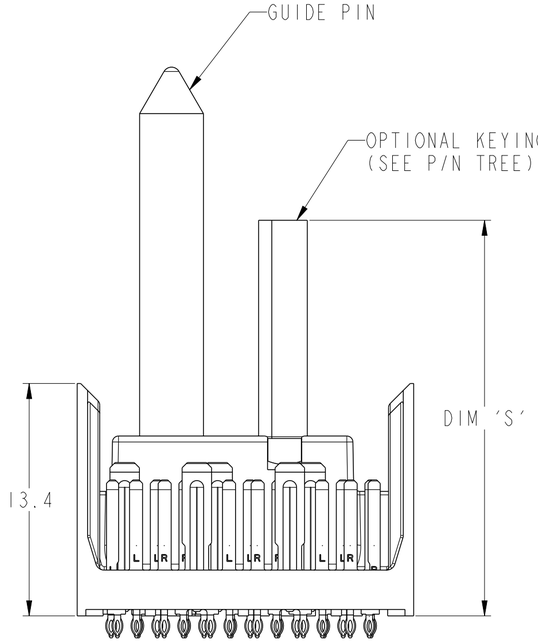


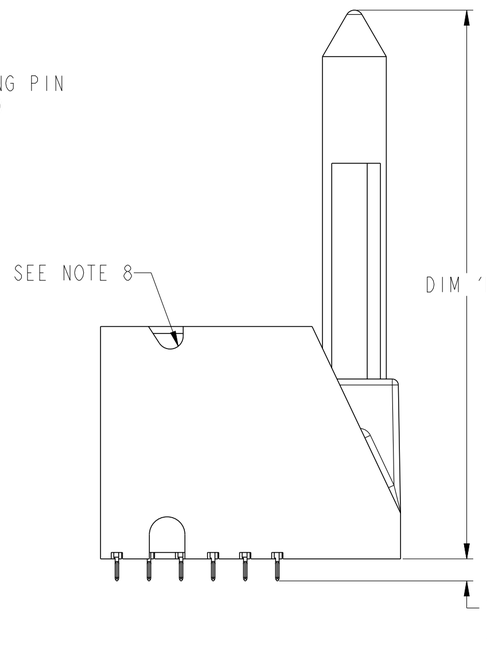




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1




| ASSEMBLY BASE CONFIGURATION END DASH NO. | GUIDE PIN | POLARIZING KEY |
|---|---|---|
| | DIM 'R' | DIM 'S' |
| -X0X | 31.6mm | 22.8mm |
| -X4X | 25.7mm | 20.0mm |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref - | | | dr | Roger Ng | 2011/11/22 | projection | MM |
| tolerance std - ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sandar Soe | 2014/10/02 | | size A2 / scale 4:1 |
| | | | chr | - | - | | ecn no ELX-S-18843-1 |
| | | | appr | Chen-Hong Tan | 2014/12/10 | product family XCEDE | rel level Released |
| surface ASME Y14.5 | linear | 0.X ±0.2 | FCI | title | MODULE ASSEMBLY VERTICAL HEADER, 6 COLUMN, 3 PAIR | dwg no 10119189 | rev B |
| | | 0.XX ±0.10 | | | | | |
| | | 0.XXX ±0.050 | | | | | |
| | angular | 0° ±2° | www.fci.com | cat. no. - | Product - Customer Drw | | sheet 3 of 8 |

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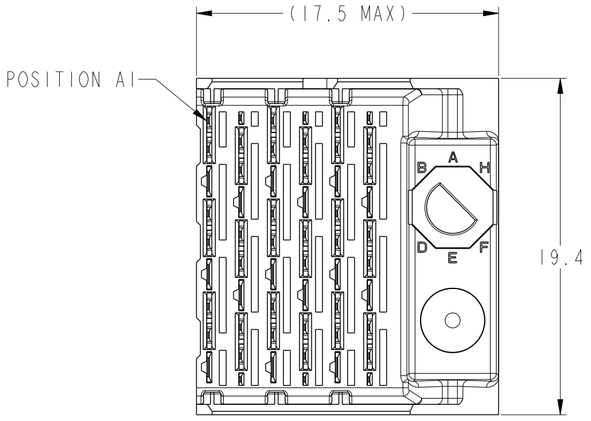
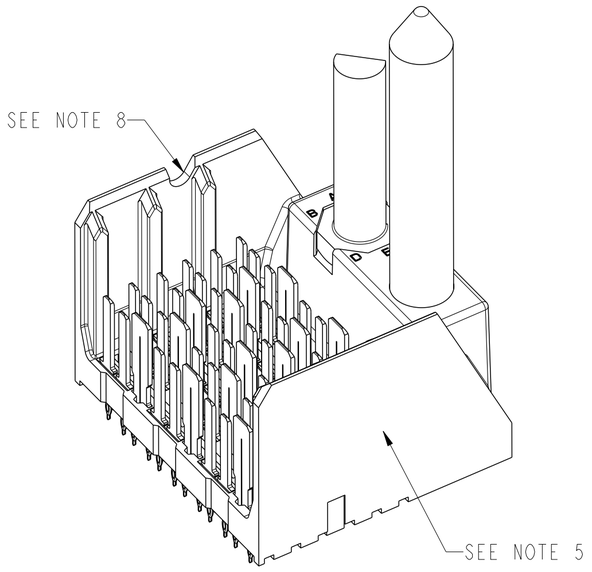
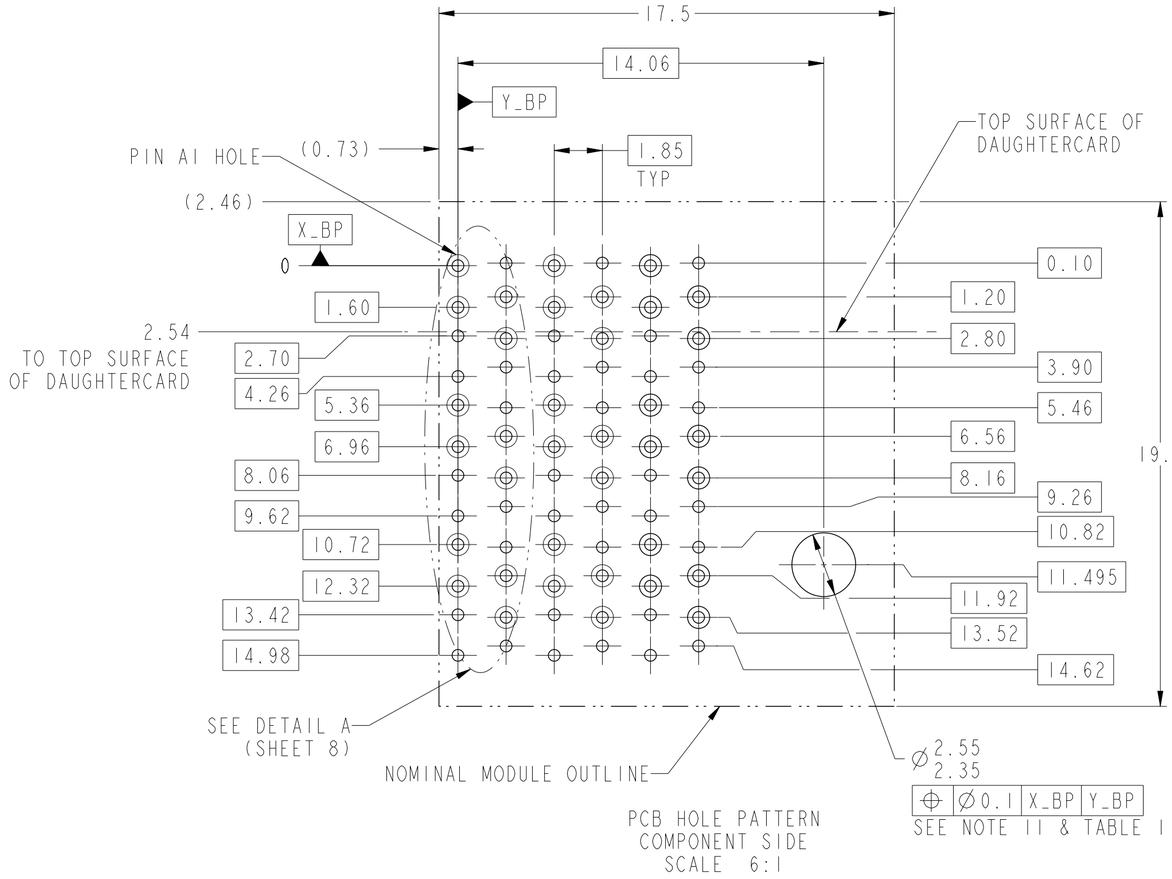
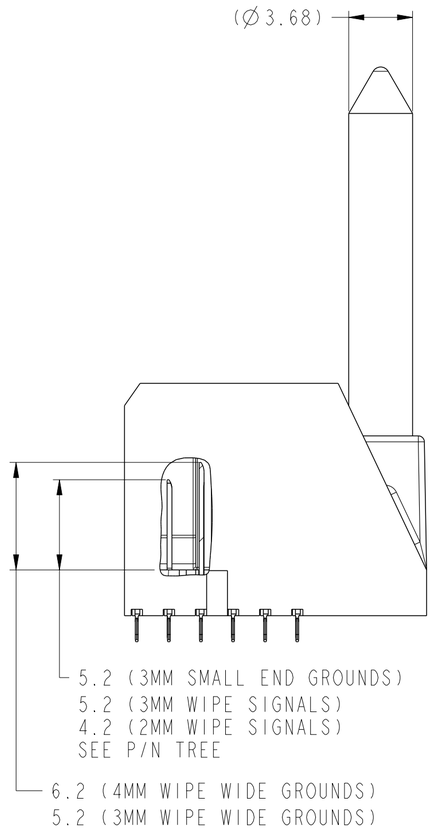
# RIGHT POLARIZING/GUIDE MODULE

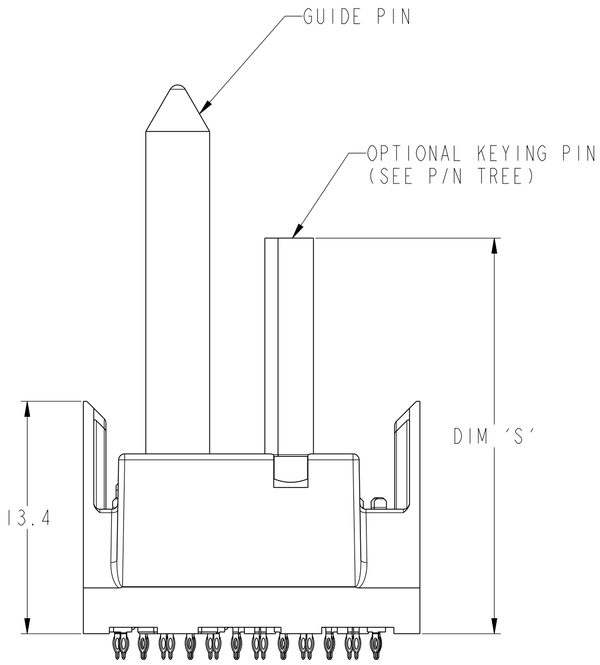


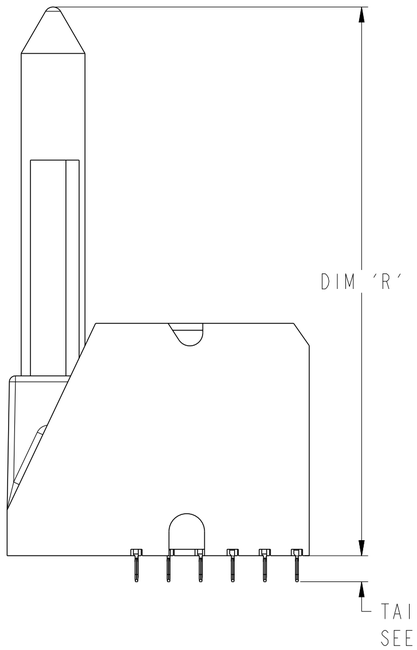




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1




| ASSEMBLY BASE CONFIGURATION END DASH NO. | GUIDE PIN DIM 'R' | POLARIZING KEY DIM 'S' |
|---|---|---|
| -X0X | 31.6mm | 22.8mm |
| -X4X | 25.7mm | 20.0mm |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | | dr | Roger Ng | 2011/11/22 | projection | MM |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sandar Soe | 2014/10/02 | | |
| - ASME Y14.5 | | | chr | - | - | | |
| | | | appr | Chen-Hong Tan | 2014/12/10 | product family | XCEDE |
| surface | linear | 0.X ±0.2 | FCI www.fci.com | title | MODULE ASSEMBLY | dwg no | 10119189 |
| | | 0.XX ±0.10 | | | VERTICAL HEADER, 6 COLUMN, 3 PAIR | | rev B |
| | | 0.XXX ±0.050 | | | | | |
| ASME Y14.5 | angular | 0° ±2° | | cat. no. | - | Product - Customer Drw | sheet 4 of 8 |

size A2 | scale 4:1 | ecn no ELX-S-18843-1 | rel level Released

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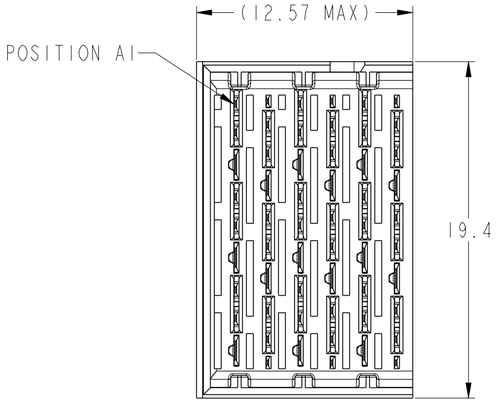
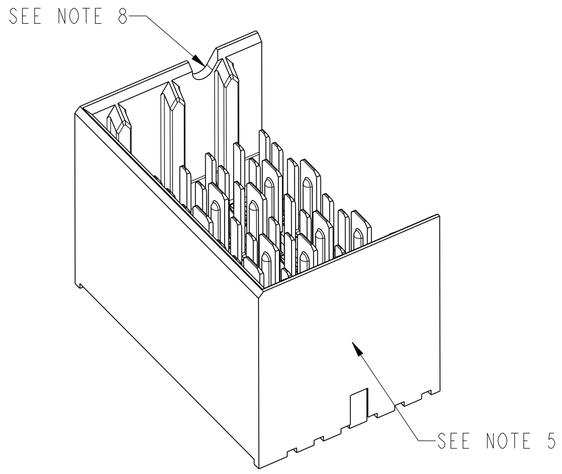
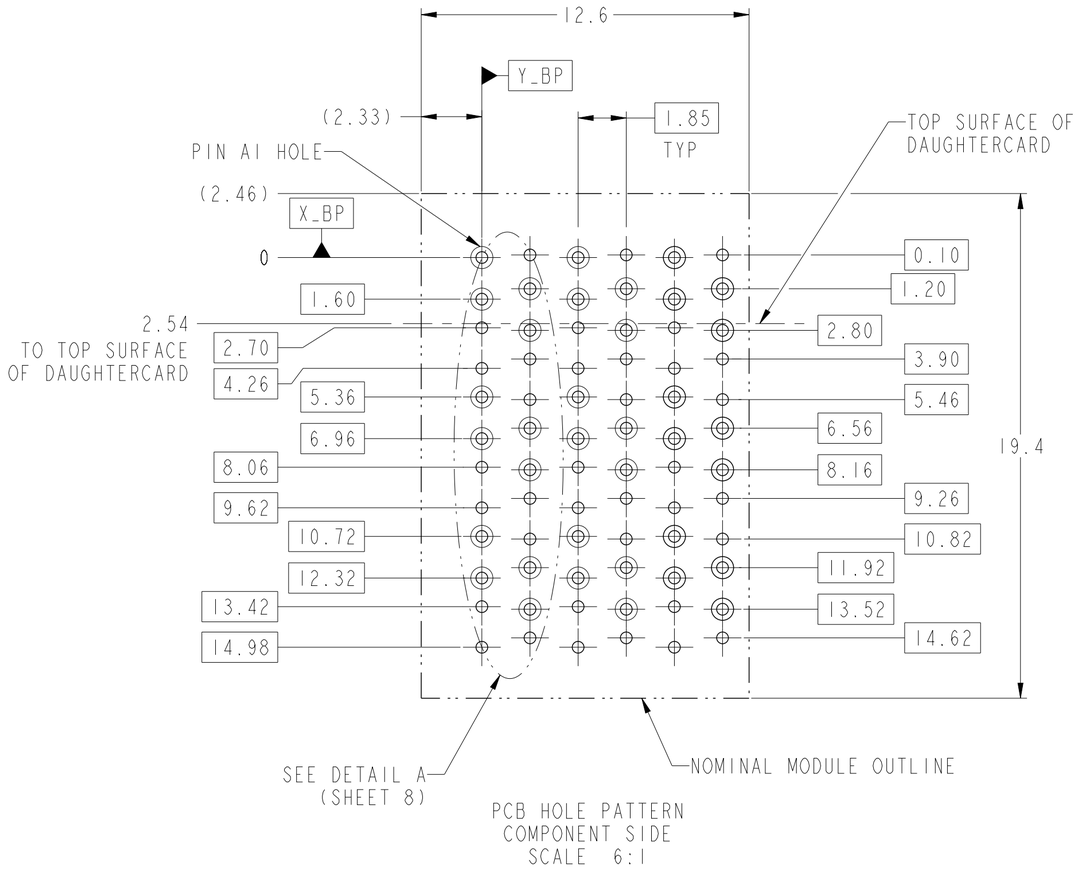
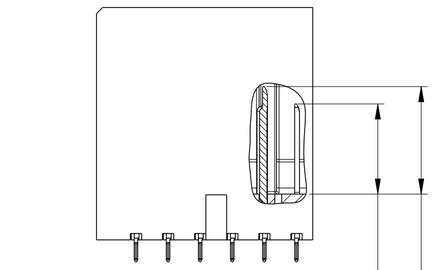
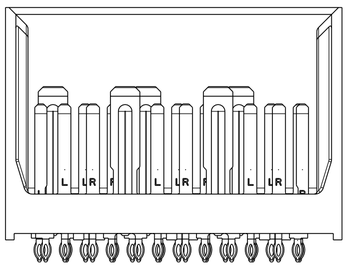
# LEFT WALL MODULE

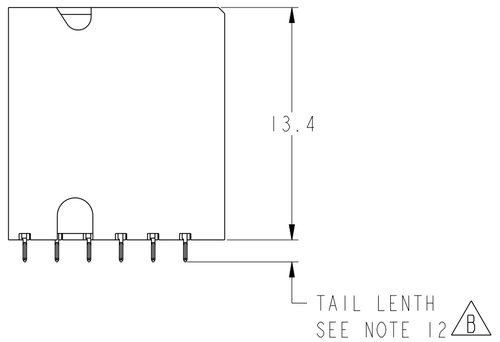



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Roger Ng | 2011/11/22 | projection | MM | size A2 | scale 4:1 |
| tolerance std - ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2014/10/02 | | | ecn no | ELX-S-18843-1 |
| | | | | chr | - | - | | | | |
| | | | | appr | Chen-Hong Tan | 2014/12/10 | product family | XCEDE | rel level | Released |
| surface ASME Y14.5 | linear | 0.X | ±0.2 | FCI | title | MODULE ASSEMBLY | dwg no | 10119189 | rev | B |
| | | 0.XX | ±0.10 | | | VERTICAL HEADER, 6 COLUMN, 3 PAIR | | | | |
| | | 0.XXX | ±0.050 | | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. | - | Product - Customer Drw | | sheet 5 of 8 | |

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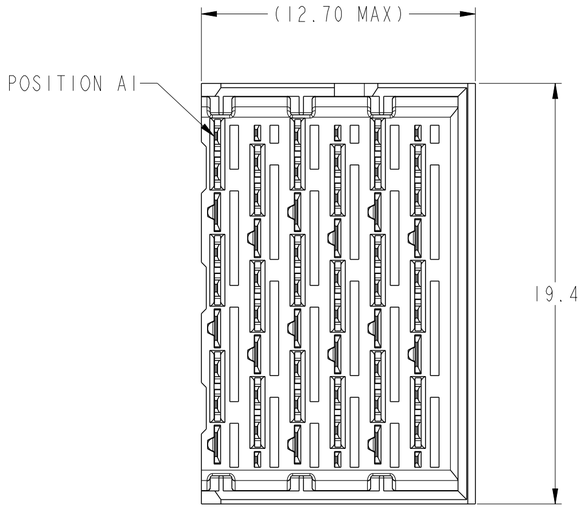
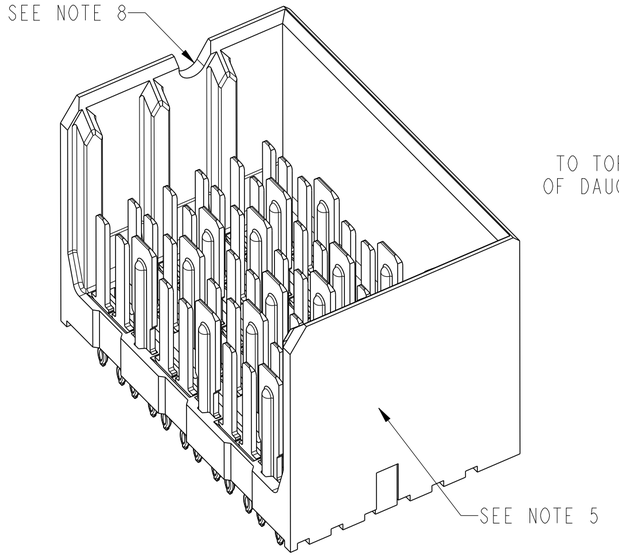
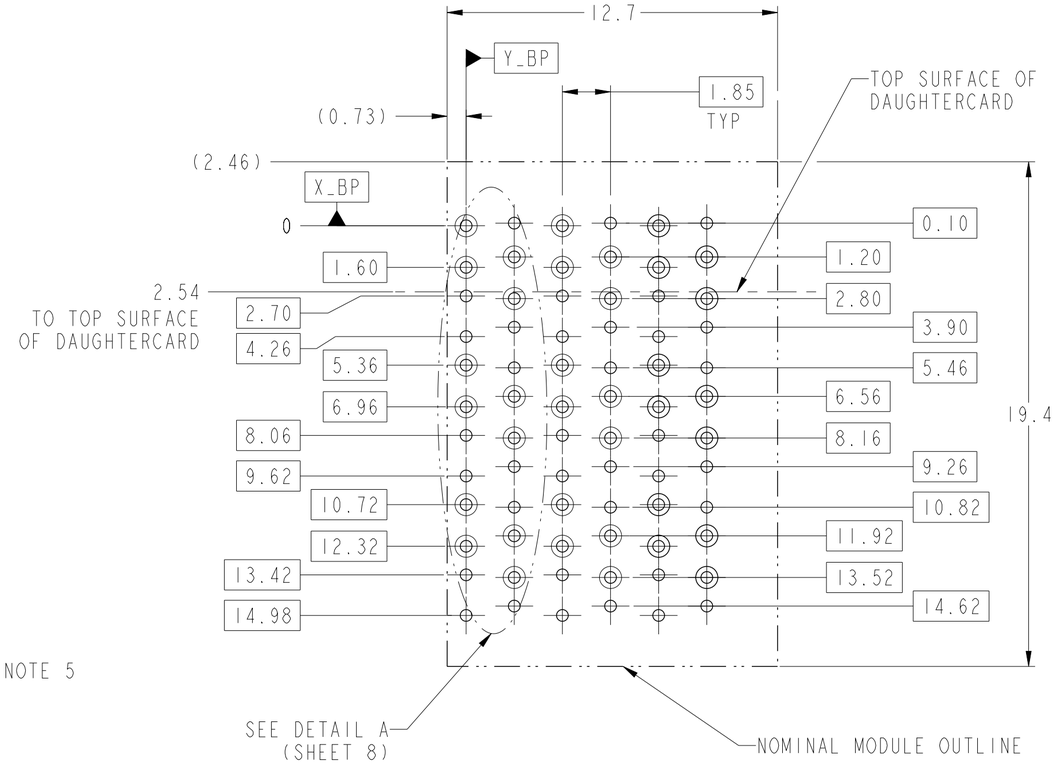
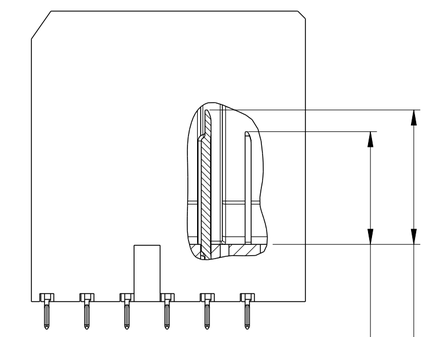
# RIGHT WALL MODULE

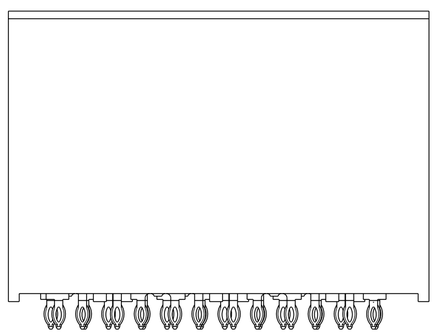


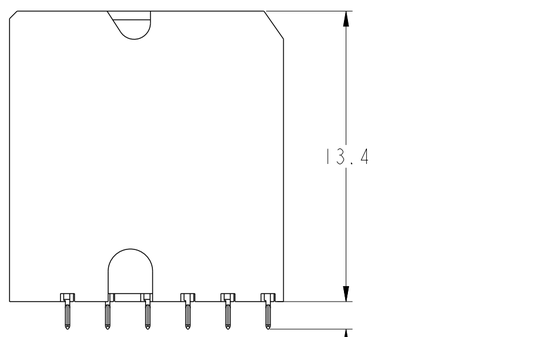




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1






| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref - | | | dr | Roger Ng | 2011/11/22 | projection | MM | size A2 / scale 4:1 |
| tolerance std - ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sandar Soe | 2014/10/02 | | | ecn no ELX-S-18843-1 |
| | | | chr | - | - | | | |
| | | | appr | Chen-Hong Tan | 2014/12/10 | product family XCEDE | | rel level Released |
| surface ASME Y14.5 | linear | 0.X ±0.2 | FCI | title | MODULE ASSEMBLY | | dwg no 10119189 | rev B |
| | | 0.XX ±0.10 | | | VERTICAL HEADER, 6 COLUMN, 3 PAIR | | | |
| | | 0.XXX ±0.050 | | | | | | |
| | angular | 0° ±2° | www.fci.com | cat. no. - | Product - Customer Drw | | | sheet 6 of 8 |

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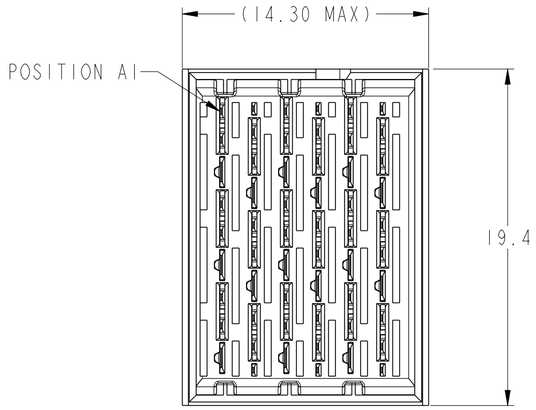
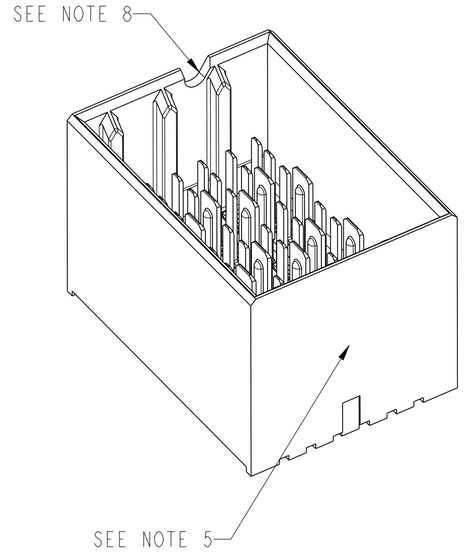
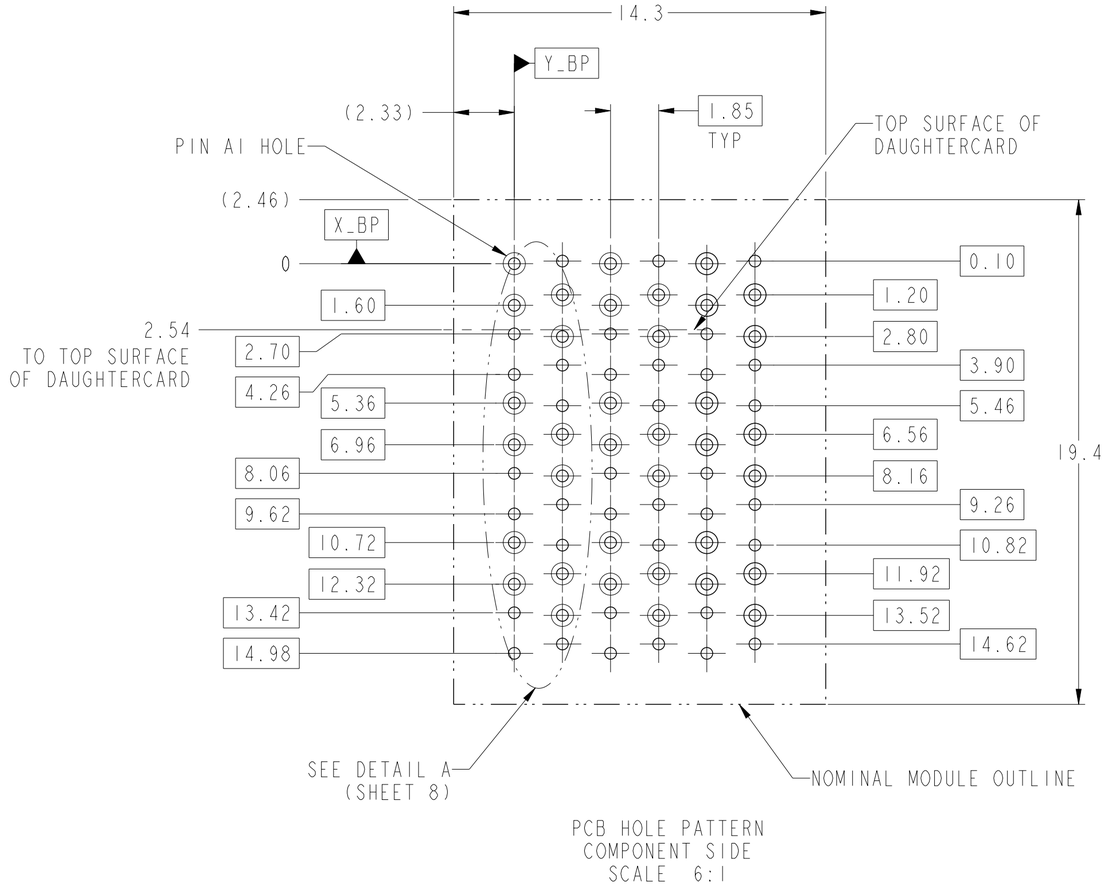
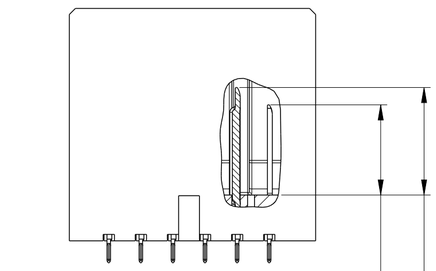
# FOUR WALL MODULE

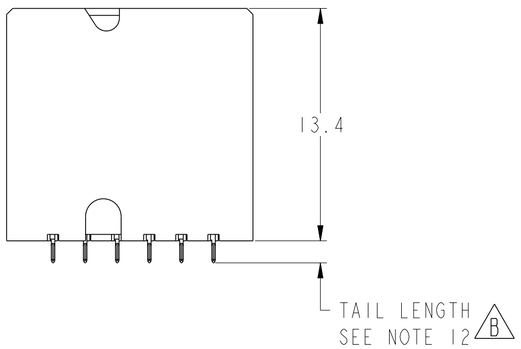



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1






| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref - | | | dr | Roger Ng | 2011/11/22 | projection | MM | size A2 / scale 4:1 |
| tolerance std - ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sandar Soe | 2014/10/02 | | | ecn no ELX-S-18843-1 |
| | | | chr | - | - | | | |
| | | | appr | Chen-Hong Tan | 2014/12/10 | product family XCEDE | | rel level Released |
| surface ASME Y14.5 | linear | 0.X ±0.2 | FCI | title | MODULE ASSEMBLY<br>VERTICAL HEADER, 6 COLUMN, 3 PAIR | | dwg no 10119189 | rev B |
| | | 0.XX ±0.10 | | | | | | |
| | | 0.XXX ±0.050 | | | | | | |
| | angular | 0° ±2° | www.fci.com | cat. no. - | Product - Customer Drw | | | sheet 7 of 8 |

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NOTES:

1. CONNECTOR MATERIALS
   SHROUD: HIGH-TEMP THERMOPLASTIC, GRAY, UL94V-0
   CONTACTS: HIGH PERFORMANCE COPPER ALLOY

(2) CONTACT PLATING:

   SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12 588, INCLUDING THE TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE (CO) OR UNCONTROLLED ENVIRONMENT (UE) TEST SEQUENCE AS NOTED IN P/N TREE.

   PRESS-FIT TAILS: TIN OVER NICKEL (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). SEE P/N TREE.

3. PRODUCT SPECIFICATION: GS-12-588

4. APPLCATION SPECIFICATION: GS-20-121

(5) PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.

6. HOUSING MUST WITHSAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR-PHASE REFLOW OVEN.

7. PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.

(8) NOTCH INDICATES "ROW A" SIDE OF CONNECTOR.

(9) SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PN SELECTION, ETC.

(10) SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE-PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.

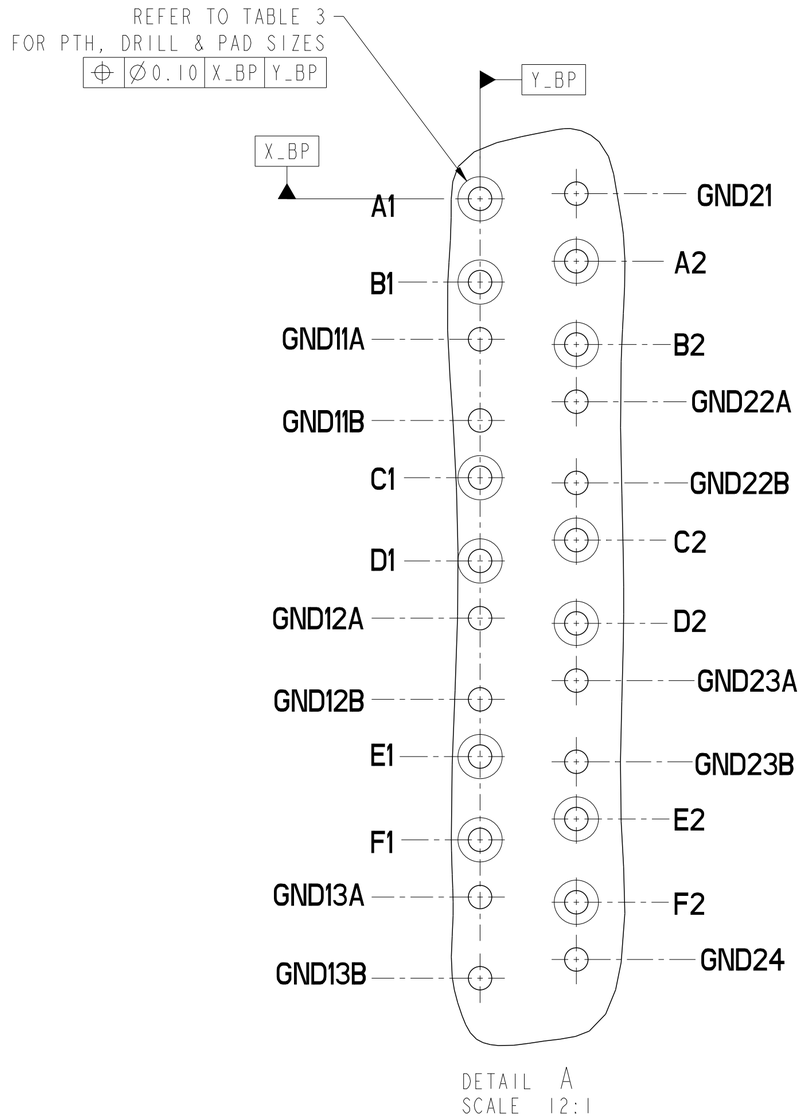
(11) OPTINAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.

△B (12) TAIL LENGTH=1.3mm FOR ∅0.55[0.0217"]COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR ∅0.45[0.0177"]COMPLIANT PIN DRILL

13. A △B SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

| COMPLIANT PIN DRILL | PTH | PAD |
|---|---|---|
| ∅0.55 [0.0217"] | ∅0.45±0.05 | ∅0.85 |
| ∅0.45 [0.0177"] | ∅0.36±0.05 | ∅0.75 |




DETAIL A
SCALE 12:1

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | dr | Roger Ng | 2011/11/22 | projection | MM | size A2 | scale 4:1 |
| tolerance std - ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sandar Soe | 2014/10/02 | | | | |
| | | | chr | - | - | | | ecn no | ELX-S-18843-1 |
| | | | appr | Chen-Hong Tan | 2014/12/10 | product family | XCEDE | rel level | Released |
| surface ASME Y14.5 | linear | 0.X ±0.2 | FCI www.fci.com | title | MODULE ASSEMBLY | | | dwg no | 10119189 |
| | | 0.XX ±0.10 | | | VERTICAL HEADER, 6 COLUMN, 3 PAIR | | | | rev B |
| | | 0.XXX ±0.050 | | | | | | | |
| | angular | 0° ±2° | | cat. no. | - | Product - Customer Drw | | sheet 8 of 8 | |

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