# 10130104 - X 0 E - X X X L F

- X: MODULE DESCRIPTION (see table)
- 0: 0 (ZERO)
- E: 8-COLUMN DIFFERENTIAL SIGNAL
- X: GUIDE PIN STYLE (see table)
- X: CONTACT MATING WIPE LENGTH (see table)
- X: COMPLIANT TAIL TYPE (see table)
- L: LEAD-FREE DESIGNATION ONLY WITH APPLICABLE PLATING CODES
- F: PERFORMANCE-BASED PLATING (see table)

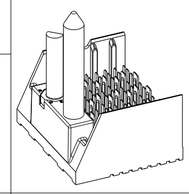
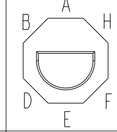
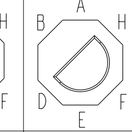
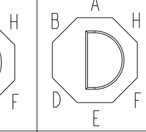
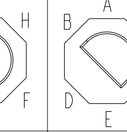
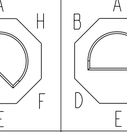
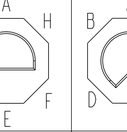
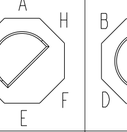
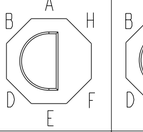
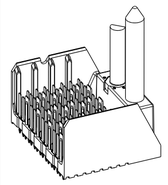
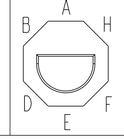
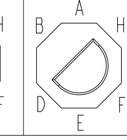
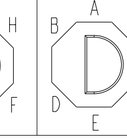
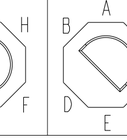
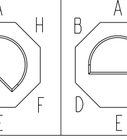
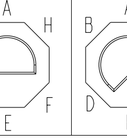
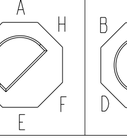
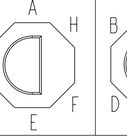
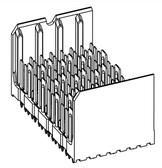
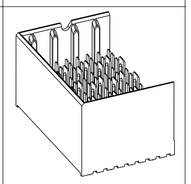
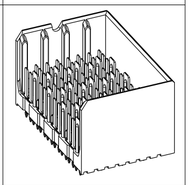
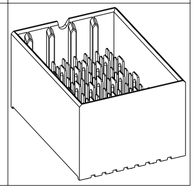
| LETTER | PERFORMANCE-BASED PLATING (SEE NOTE 2) | |
|---|---|---|
| | TARGET APPLICATION | LEAD FREE (LF) |
| K | TELCORDIA CO | NO |
| M | TELCORDIA CO | YES |

| NUMBER | GUIDE PIN STYLE (SEE NOTE 8) |
|---|---|
| 0 | STANDARD GUIDE PIN, MACHINED |
| 1 | STANDARD GUIDE PIN, ROLLED |

NOT TOOLED

| NUMBER | CONTACT MATING WIPE LENGTH | | COMPLIANT TAIL TYPE (SEE NOTE 9) |
|---|---|---|---|
| | SIGNAL | GROUND | |
| 1 | 2 MM | 4 MM | 0.55 (0.0217") DRILL |
| 2 | 3 MM | 4 MM | 0.55 (0.0217") DRILL |
| 3 | 2 MM | 4 MM | 0.45 MICRO (0.0177") DRILL |
| 4 | 3 MM | 4 MM | 0.45 MICRO (0.0177") DRILL |
| 5 | 2 MM | 3 MM | 0.55 (0.0217") DRILL |
| 6 | 3 MM | 3 MM | 0.55 (0.0217") DRILL |
| 7 | 2 MM | 3 MM | 0.45 MICRO (0.0177") DRILL |
| 8 | 3 MM | 3 MM | 0.45 MICRO (0.0177") DRILL |

FOR CUSTOM-LOADED MODULES, SEE INDIVIDUAL CUSTOM DRAWINGS WITH THE DRAWING-NUMBER FORMAT OF 10130104-XYYYY, WHERE: "X" DENOTES MODULE TYPE PER CHART ON THIS SHEET "YYYY" IS A SEQUENTIAL NUMBER BEGINNING WITH "0001".

| MODULE DESCRIPTION | LETTER DESIGNATION REPRESENTED IN DASH NUMBER | | | | | | | | | | BASE MODULE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 6) | N | J | A | B | C | D | E | F | G | H |  |
| | NO KEY NO GUIDEPIN | |  |  |  |  |  |  |  |  | |
| RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 7) | Z | Y | P | Q | R | S | T | U | V | W |  |
| | NO KEY NO GUIDEPIN | |  |  |  |  |  |  |  |  | |
| OPEN MODULE (TWO WALL) (SEE SHEET 2) | 0 (ZERO) | | | | | | | | | |  |
| LEFT WALL MODULE (SEE SHEET 3) | L | | | | | | | | | |  |
| RIGHT WALL MODULE (SEE SHEET 4) | M | | | | | | | | | |  |
| FOUR WALL MODULE (SEE SHEET 5) | I (ONE) | | | | | | | | | |  |

| TABLE 1 (SEE NOTE 11) | | |
|---|---|---|
| | UNGROUNDED | GROUNDED |
| FHS | Ø2.35-Ø2.55 | Ø2.35-Ø2.55 |
| PAD | N/A | Ø5.50 |
| PLATED | NO | YES |
| DRILL(mm) | 2.44mm | 2.58mm |
| DRILL(in) | 0.096" | 0.1015" |

| TABLE 2 (SEE NOTE 12) | | |
|---|---|---|
| SCREW P/N | DESCRIPTION | BOARD THICKNESS |
| 10091790-002LF | #2-56 X 0.375" LG. PHILIPS PANHEAD W/SQ CONICAL WASHER | 1.60-5.00mm |
| 10091790-003LF | #2-56 X 0.375" LG. PHILIPS PANHEAD W/SQ CONICAL WASHER | 5.00-10.00mm |

| | | | |
|---|---|---|---|
| spec ref | - | | |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | |
| surface - ISO 1302 | linear | 0.X | ±0.3 |
| | | 0.XX | ±0.10 |
| | | 0.XXX | ±0.05 |
| | angular | 0° | ±2° |

| | | | | | |
|---|---|---|---|---|---|
| dr | Sandar Soe | 2014/05/16 | projection | mm | size A2 / scale 1:1 |
| eng | Sandar Soe | 2015/10/30 | | | |
| chr | - | - | | | ecn no ELX-S-18192-1 |
| appr | Chen-Hong Tan | 2015/11/02 | product family - | | rel level Released |

| | | | |
|---|---|---|---|
| www.fci.com | title: MODULE ASSEMBLY, XCEDE HD Veritical Header, 4 Pair 8 Column | dwg no 10130104 | rev B |
| | cat. no. - | Product - Customer Drw | sheet 1 of 8 |

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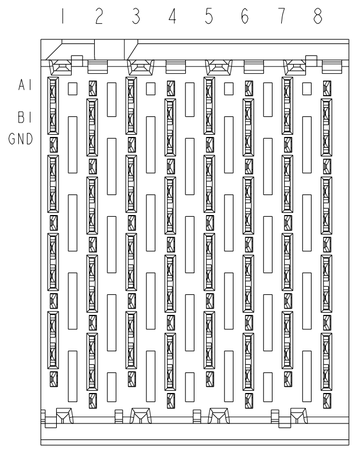
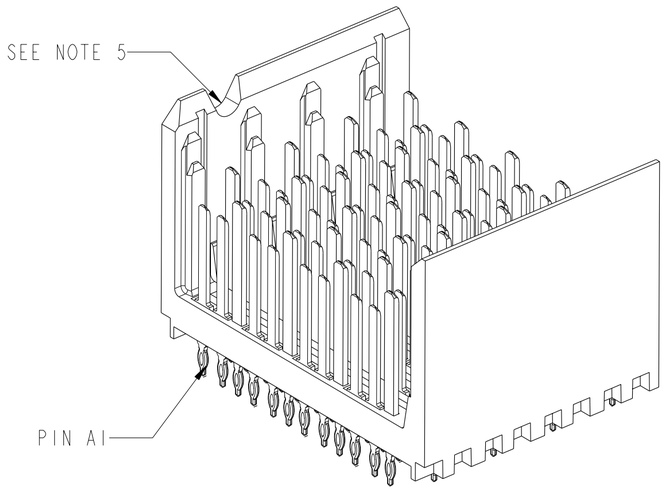
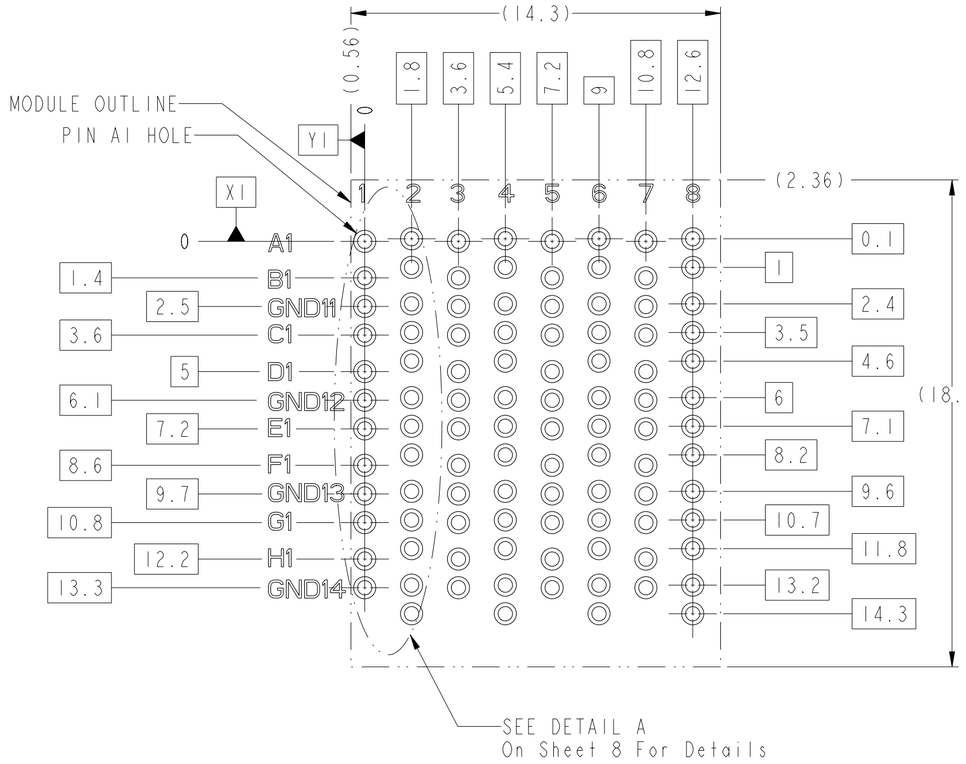


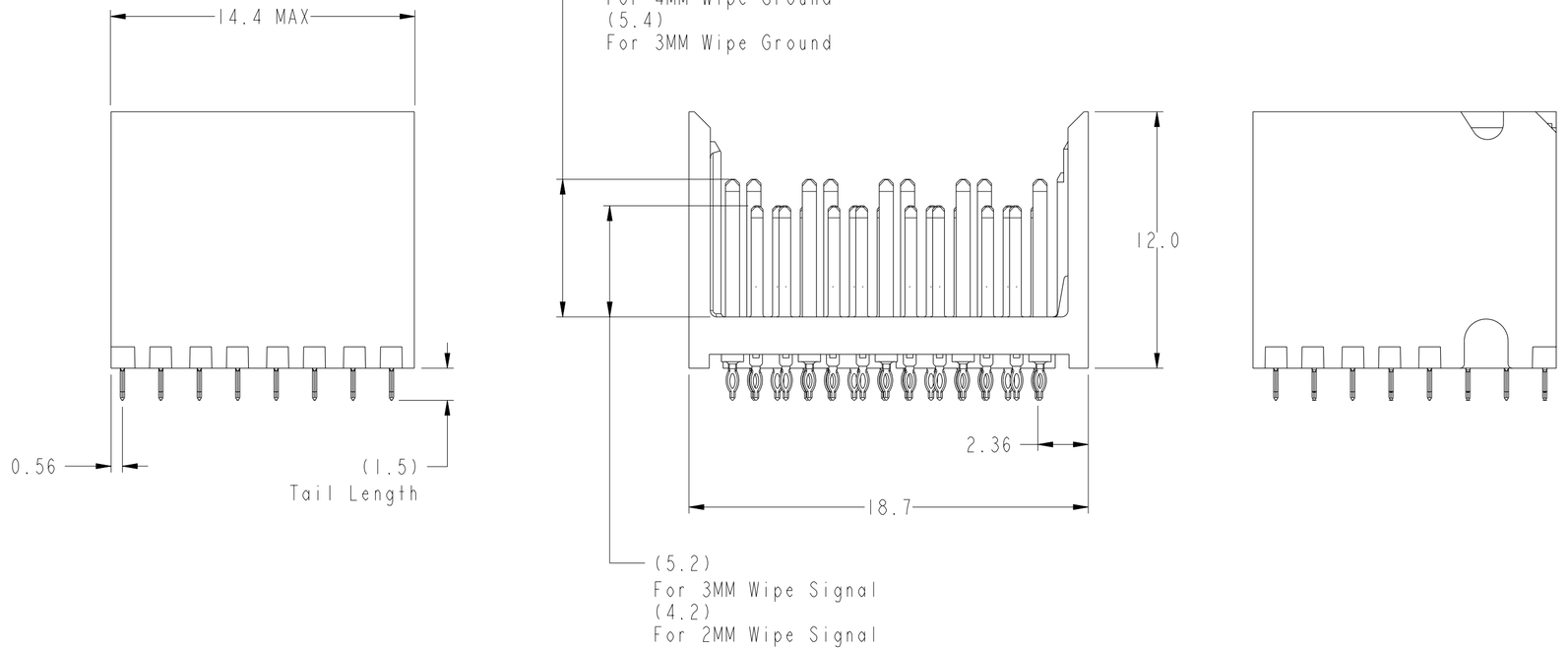

OPEN WALL MODULE




BP HOLE PATTERN COMPONENT SIDE

OPEN WALL MODULE BACKPLANE FOOTPRINT




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Sandar Soe | 2014/05/16 | projection | mm | size A2 | scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2015/10/30 | | | ecn no ELX-S-18192-1 | |
| | | | | chr | - | - | | | | |
| | | | | appr | Chen-Hong Tan | 2015/11/02 | product family - | | rel level Released | |
| surface ISO 1302 | linear | 0.X | ±0.3 | FCI | title | MODULE ASSEMBLY, XCEDE HD Veritical Header, 4 Pair 8 Column | | | dwg no 10130104 | rev B |
| | | 0.XX | ±0.10 | | | | | | | |
| | | 0.XXX | ±0.05 | | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. - | Product - Customer Drw | | | sheet 2 of 8 | |

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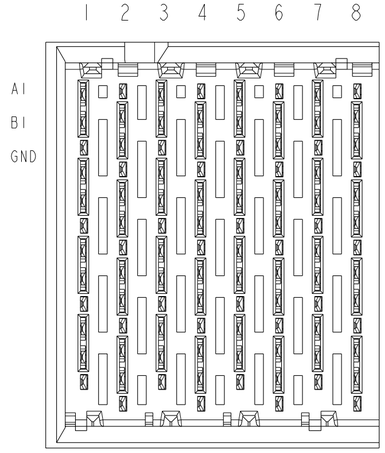
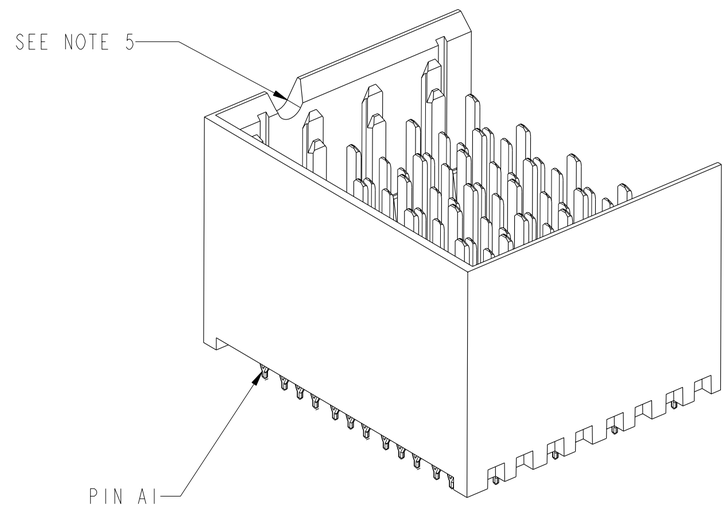
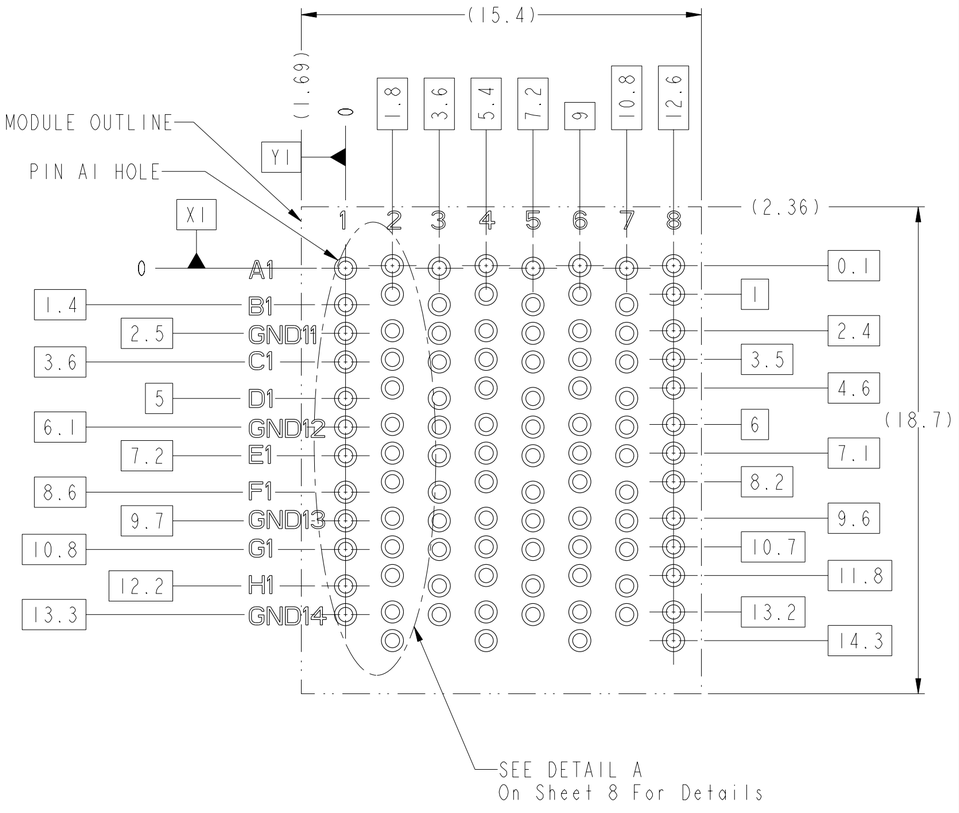
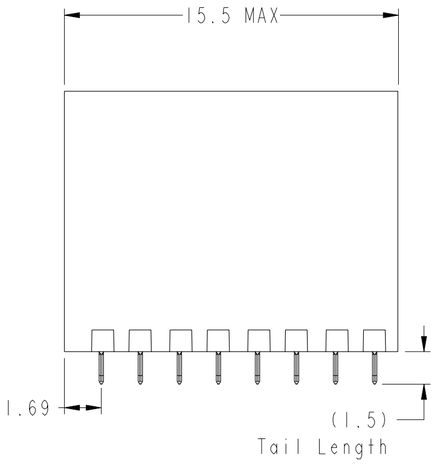
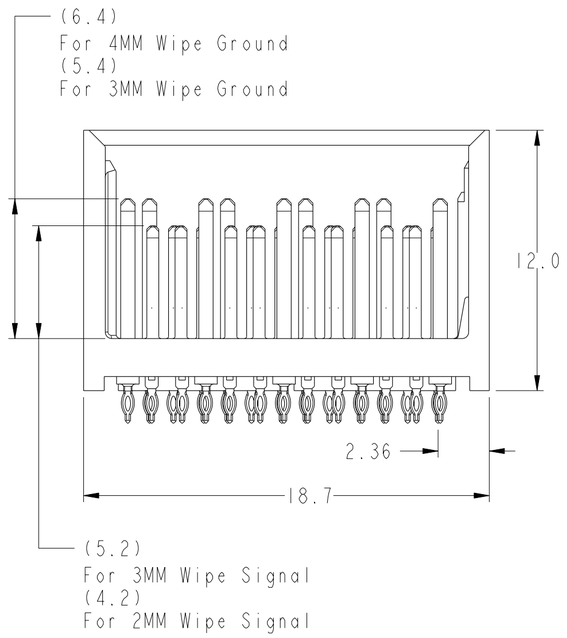


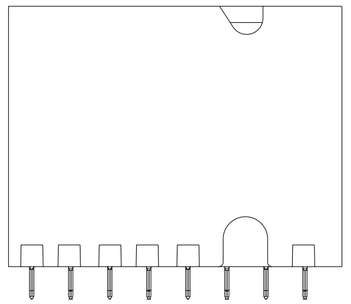

LEFT WALL MODULE



BP HOLE PATTERN COMPONENT SIDE

LEFT WALL MODULE BACKPLANE FOOTPRINT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Sandar Soe | 2014/05/16 | projection | mm | size A2 | scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2015/10/30 | | | | |
| | | | | chr | - | - | | | ecn no | ELX-S-18192-1 |
| | | | | appr | Chen-Hong Tan | 2015/11/02 | product family | - | rel level | Released |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI | title | MODULE ASSEMBLY, XCEDE HD | | | dwg no | rev |
| | | 0.XX | ±0.10 | | | Veritical Header, 4 Pair 8 Column | | | 10130104 | B |
| | | 0.XXX | ±0.05 | | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. | - | Product - Customer Drw | | sheet 3 of 8 | |

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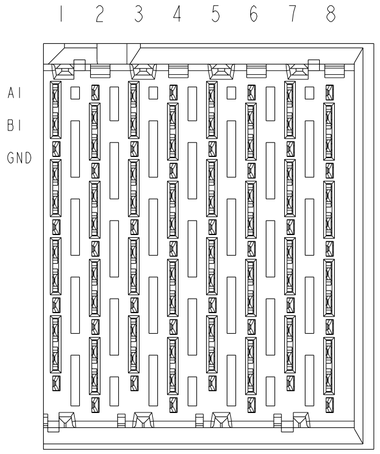
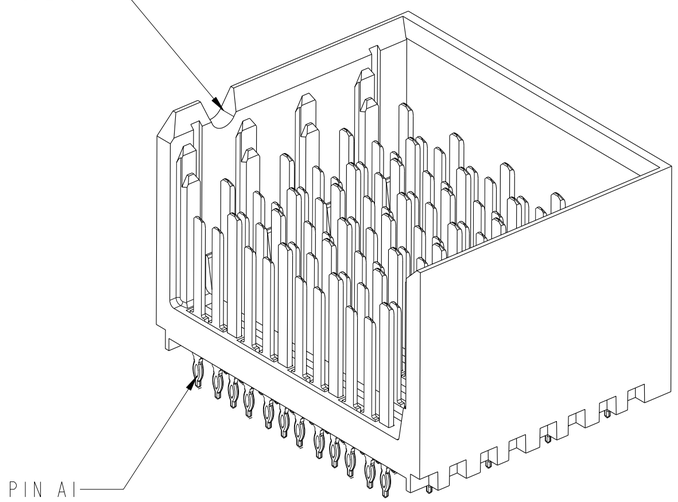
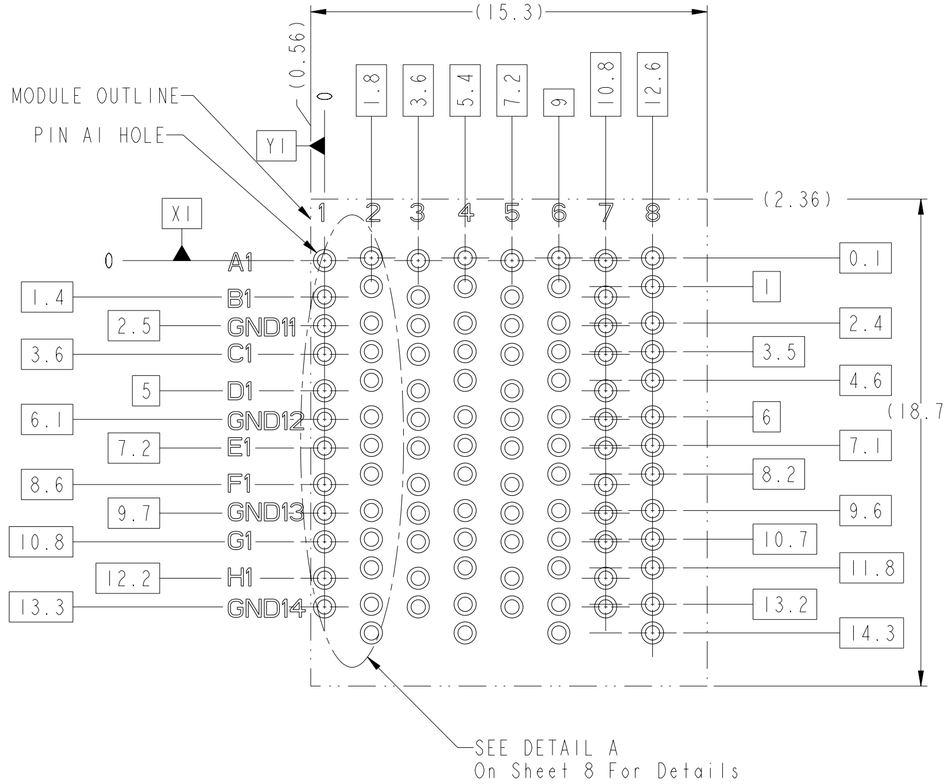
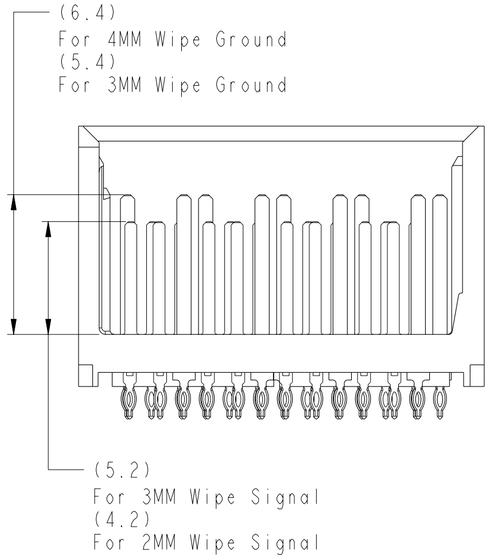
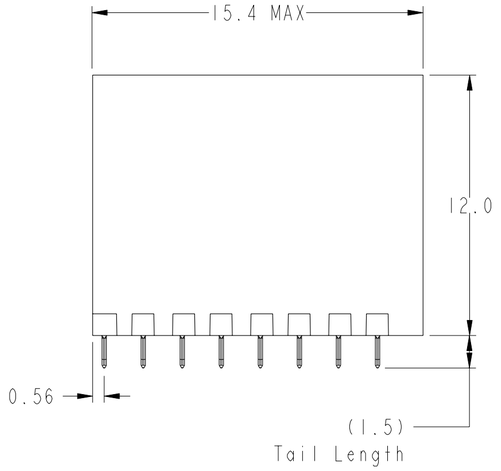


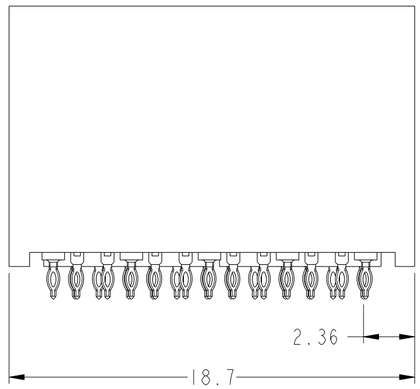

RIGHT WALL MODULE




BP HOLE PATTERN COMPONENT SIDE

RIGHT WALL MODULE BACKPLANE FOOTPRINT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Sandar Soe | 2014/05/16 | projection | mm | size A2 / scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2015/10/30 | | | ecn no ELX-S-18192-1 |
| | | | | chr | - | - | | | |
| | | | | appr | Chen-Hong Tan | 2015/11/02 | product family - | | rel level Released |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI www.fci.com | title: MODULE ASSEMBLY, XCEDE HD Veritical Header, 4 Pair 8 Column | | | dwg no 10130104 | rev B |
| | | 0.XX | ±0.10 | | | | | | |
| | | 0.XXX | ±0.05 | | | | | | |
| | angular | 0° | ±2° | cat. no. - | Product - Customer Drw | | | sheet 4 of 8 | |

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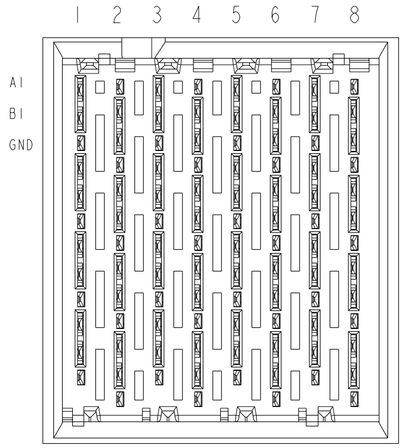
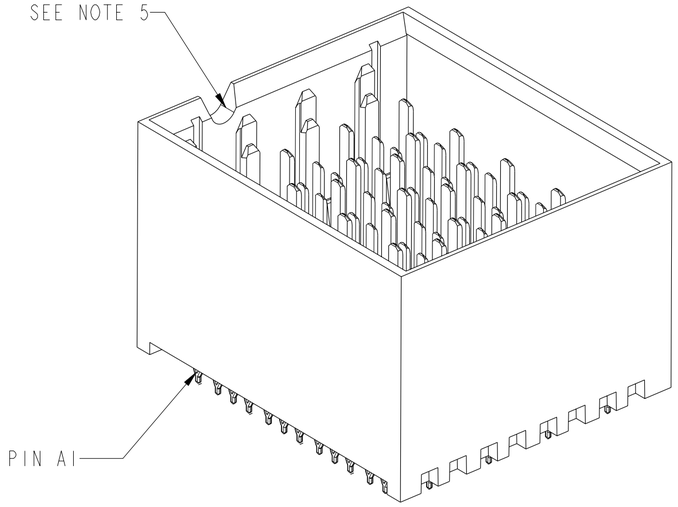
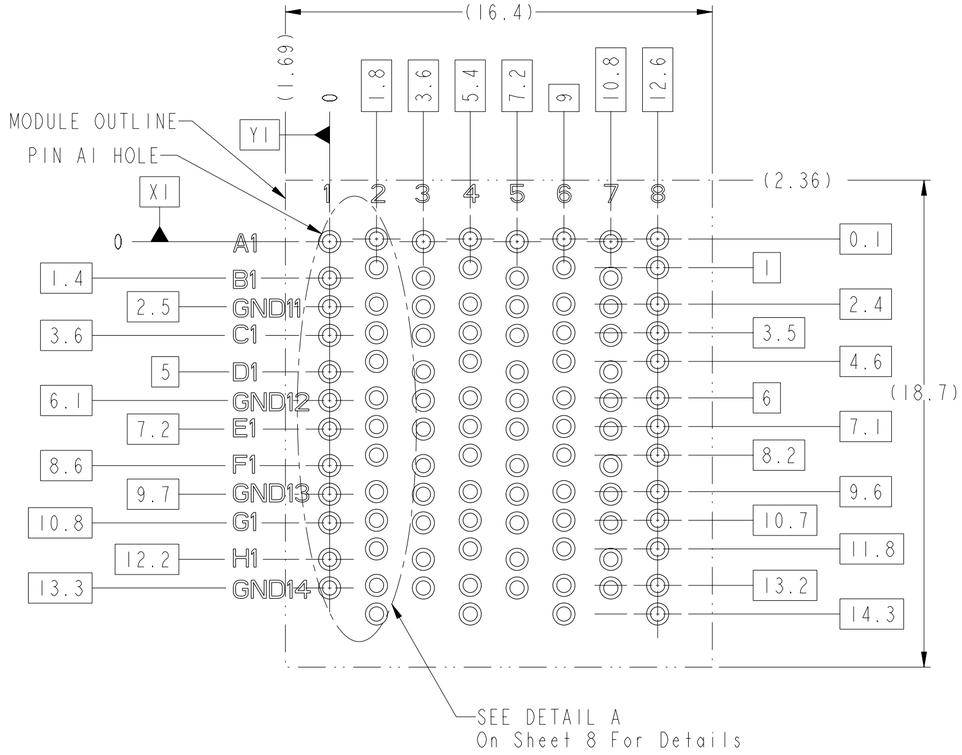
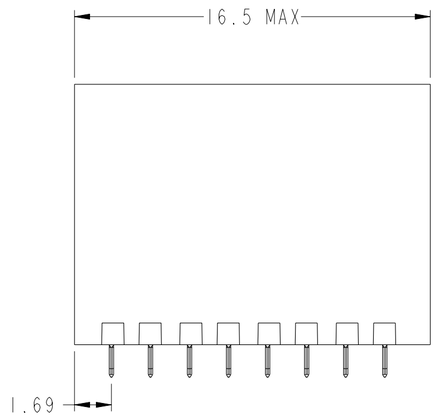
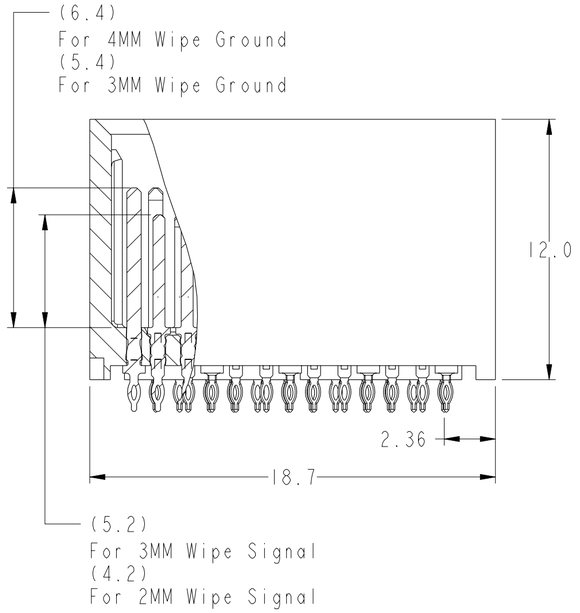


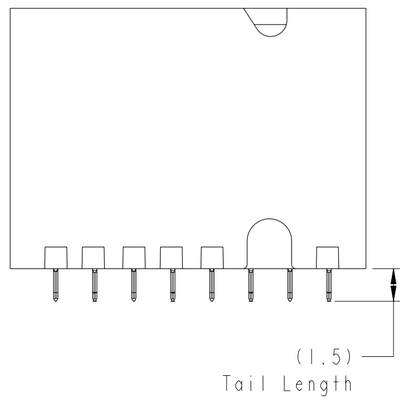

FOUR WALL MODULE



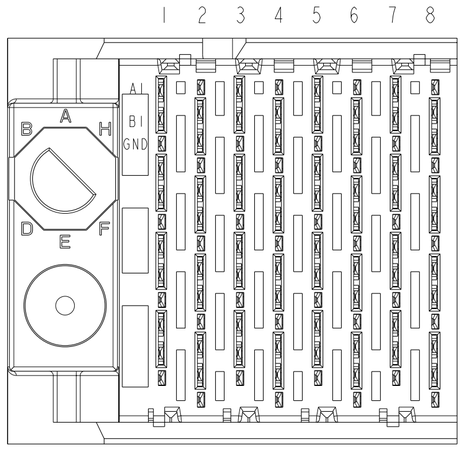




BP HOLE PATTERN COMPONENT SIDE

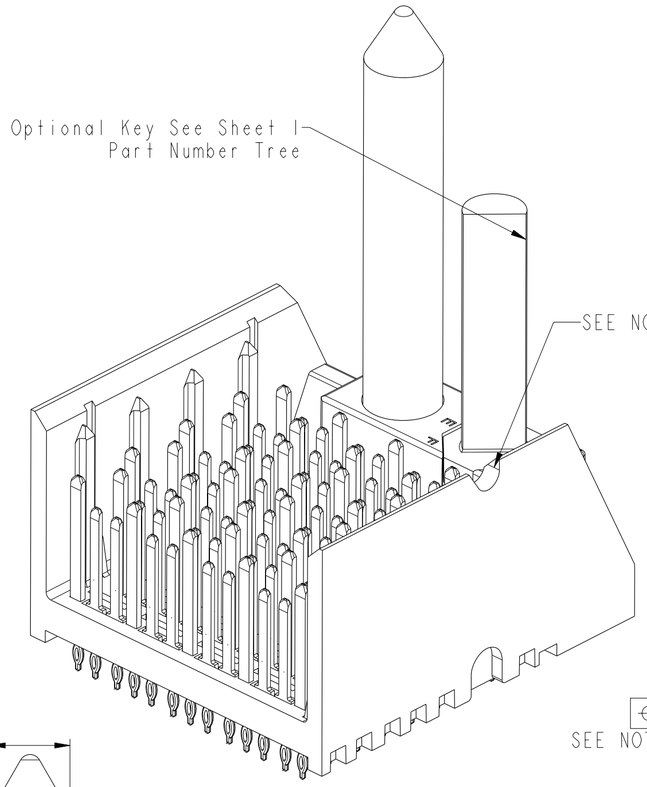
# FOUR WALL MODULE BACKPLANE FOOTPRINT

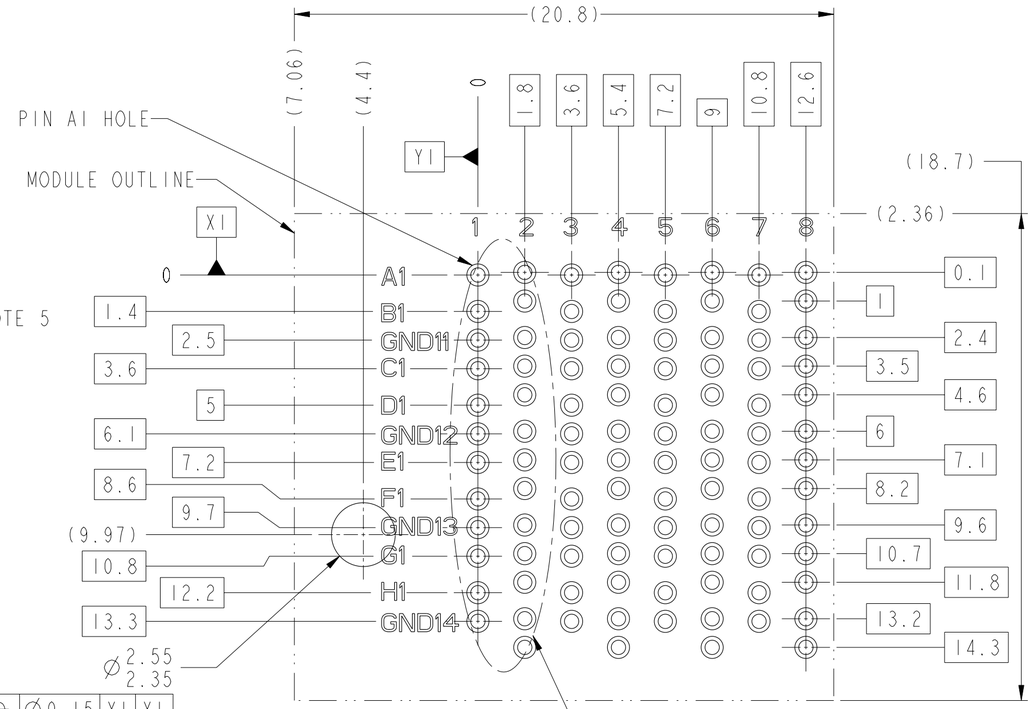
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Sandar Soe | 2014/05/16 | projection | mm | size A2 / scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2015/10/30 | | | ecn no ELX-S-18192-1 |
| | | | | chr | - | - | | | |
| | | | | appr | Chen-Hong Tan | 2015/11/02 | product family - | | rel level Released |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI | title: MODULE ASSEMBLY, XCEDE HD Veritical Header, 4 Pair 8 Column | | | dwg no 10130104 | rev B |
| | | 0.XX | ±0.10 | | | | | | |
| | | 0.XXX | ±0.05 | | | | | | |
| | angular | 0° | ±2° | www.fci.com | cat. no. - | | Product - Customer Drw | | sheet 5 of 8 |

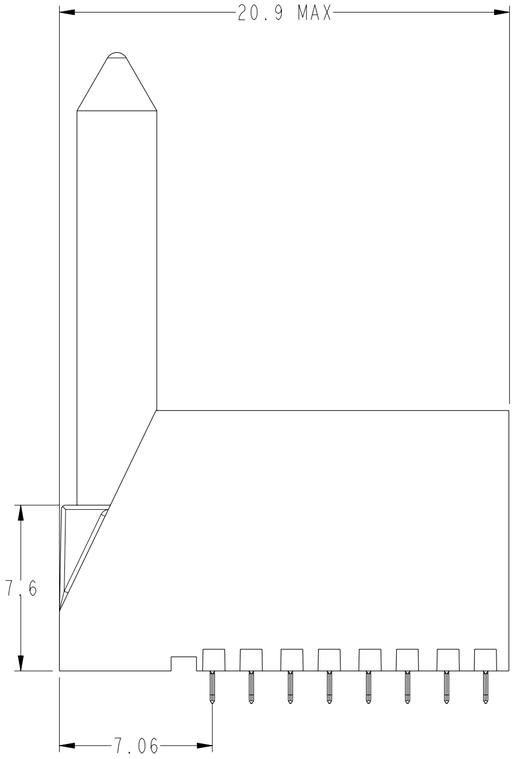
Copyright FCI.

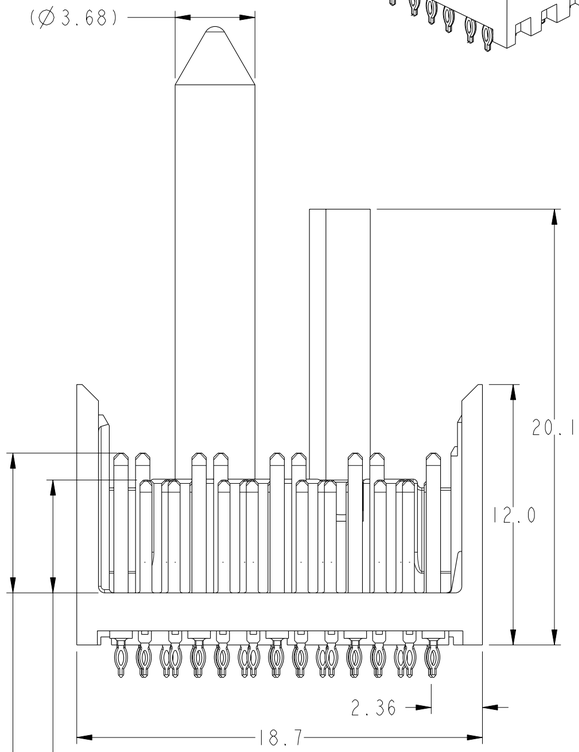


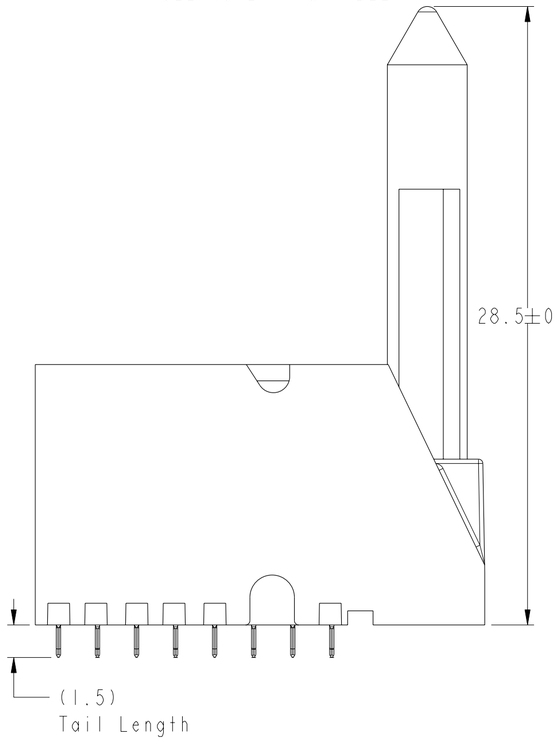

LEFT POLARIZING/GUIDE MODULE



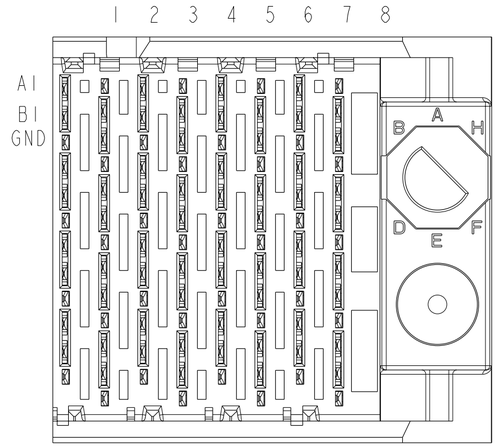




BP HOLE PATTERN COMPONENT SIDE

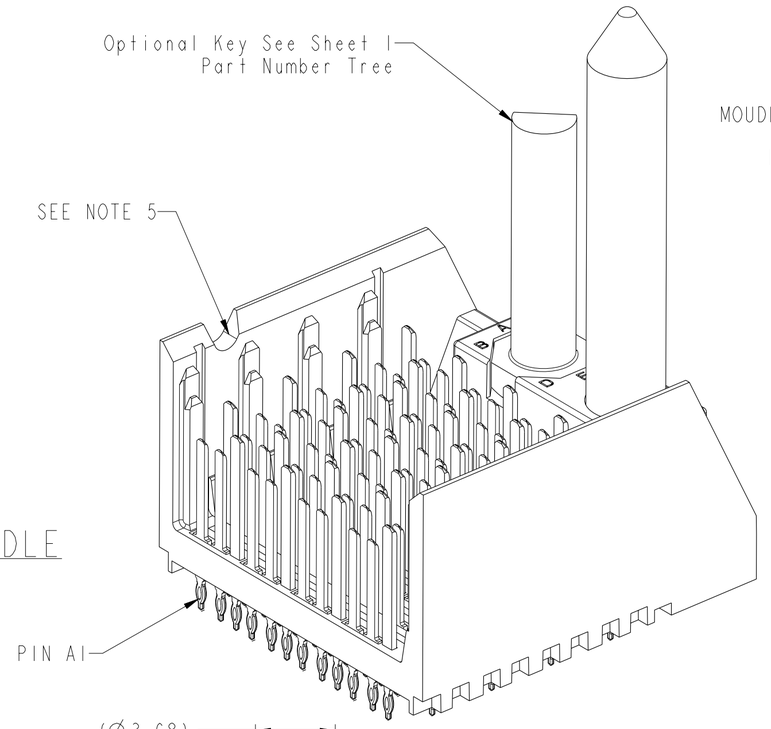
# LEFT POLARIZING GUIDE MODULE BACKPLANE FOOTPRINT

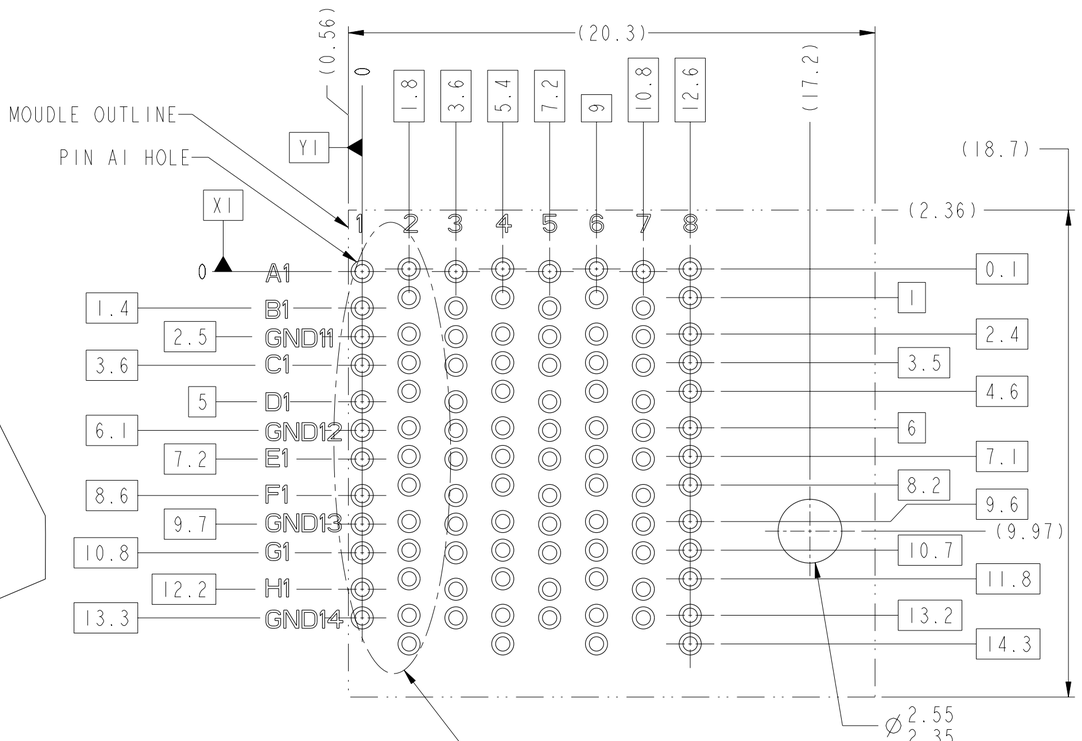
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Sandar Soe | 2014/05/16 | projection mm | size A2 | scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2015/10/30 | | ecn no ELX-S-18192-1 |
| | | | | chr | - | - | | |
| | | | | appr | Chen-Hong Tan | 2015/11/02 | product family - | rel level Released |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI www.fci.com | title MODULE ASSEMBLY, XCEDE HD Veritical Header, 4 Pair 8 Column | | dwg no 10130104 | rev B |
| | | 0.XX | ±0.10 | | | | | |
| | | 0.XXX | ±0.05 | | | | | |
| | angular | 0° | ±2° | | cat. no. - | Product - Customer Drw | | sheet 6 of 8 |

Copyright FCI.




RIGHT POLARIZING/GUIDE MOUDLE



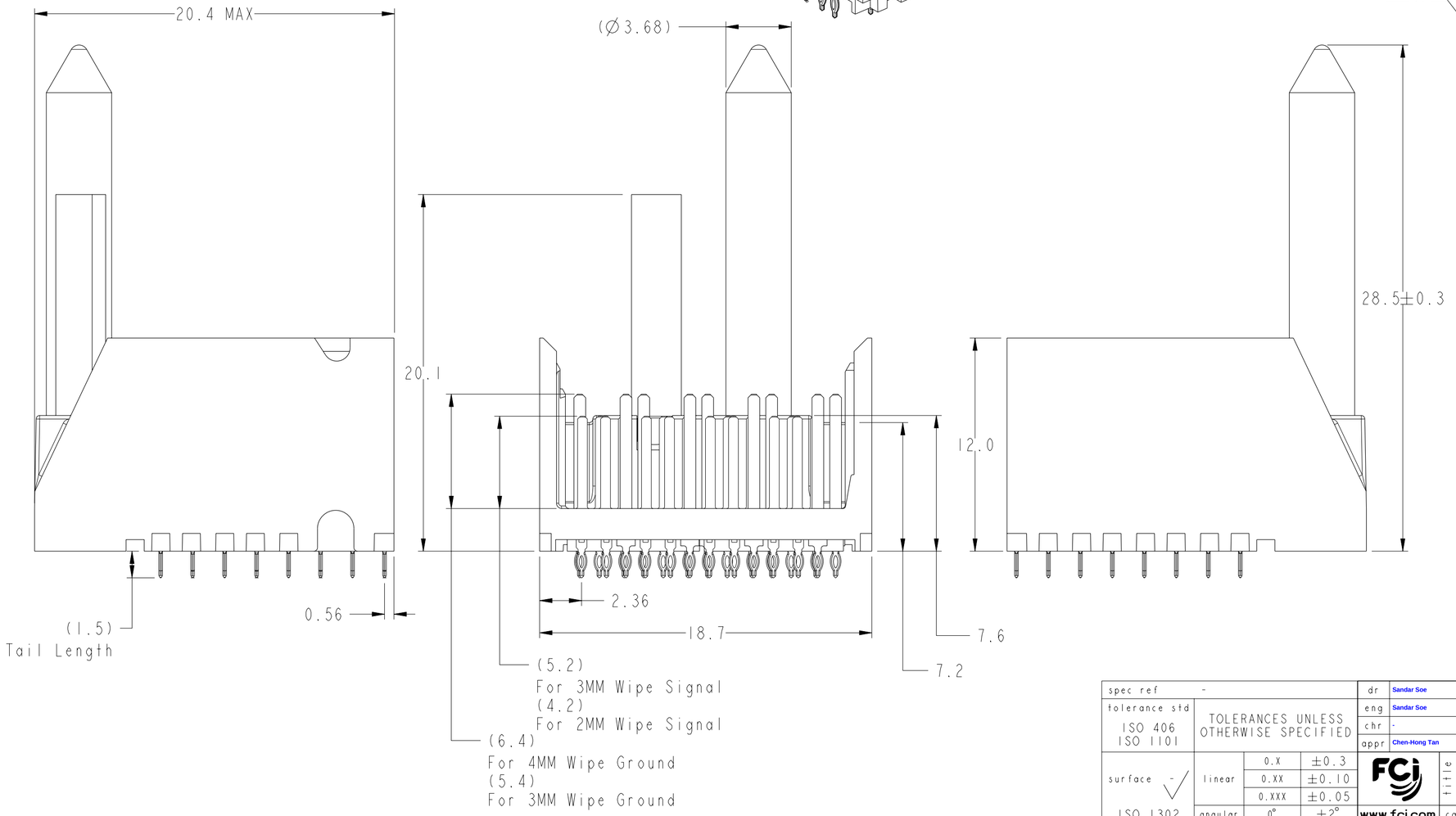




TABLE 1

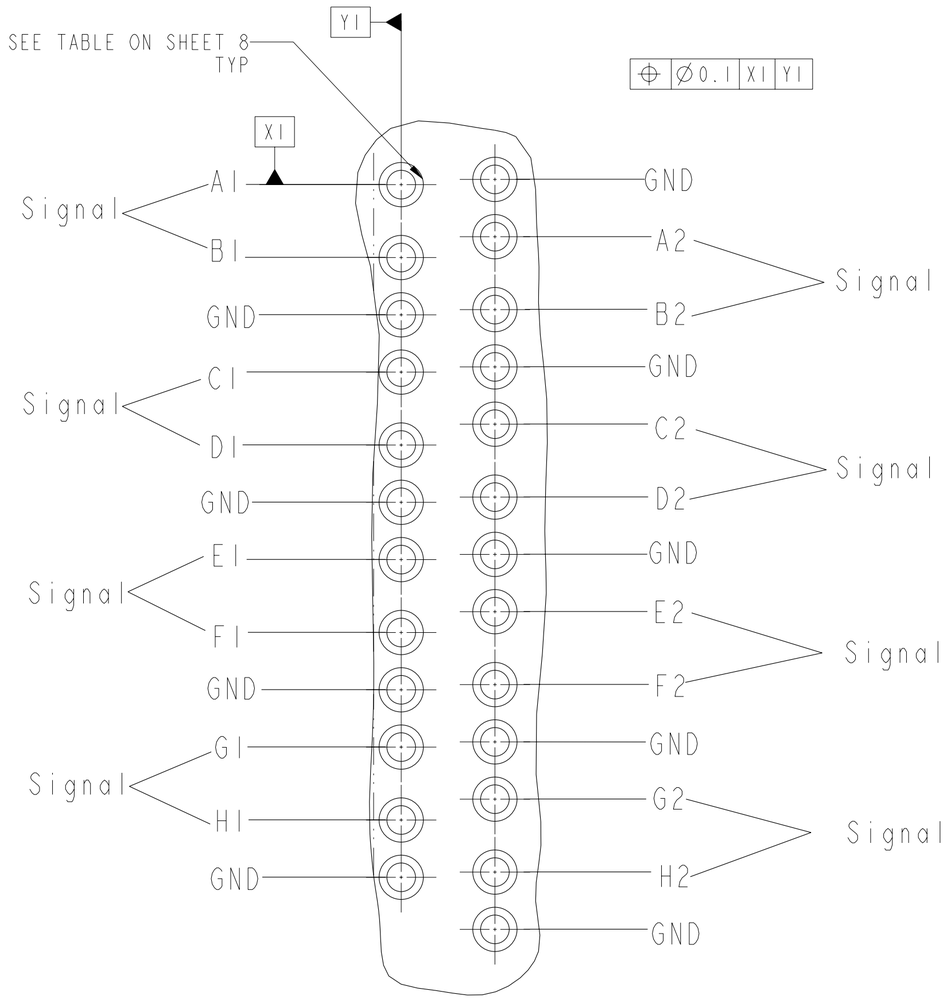
BP HOLE PATTERN COMPONENT SIDE

RIGHT POLAIZING/GUIDE MODULE
BACKPLANE FOOTPRINT

Copyright FCI.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| spec ref | - | | | dr | Sandar Soe | 2014/05/16 | projection | mm | size A2 | scale 1:1 |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | eng | Sandar Soe | 2015/10/30 | | | ecn no | ELX-S-18192-1 |
| | | | | chr | - | - | | | | |
| | | | | appr | Chen-Hong Tan | 2015/11/02 | product family | - | rel level | Released |
| surface - ISO 1302 | linear | 0.X | ±0.3 | FCI www.fci.com | title | MODULE ASSEMBLY, XCEDE HD Veritical Header, 4 Pair 8 Column | dwg no | 10130104 | rev | B |
| | | 0.XX | ±0.10 | | | | | | | |
| | | 0.XXX | ±0.05 | | | | | | | |
| | angular | 0° | ±2° | | cat. no. | - | Product - Customer Drw | | sheet 7 of 8 | |

| TABLE 3 | | |
|---|---|---|
| | COMPLIANT PIN DRILL Ø0.55[0.0217"] | COMPLIANT PIN DRILL Ø0.45[0.0177"] |
| PTH | Ø0.45±0.05 | Ø0.36±0.05 |
| DRILL | Ø0.55 [0.0217"] | Ø0.45 [0.0177"] |
| PAD | Ø0.85 | Ø0.75 |




DETAIL A
SCALE 12:1

NOTES:

1. CONNECTOR MATERIALS
   SHROUD : HIGH-TEMP POLYMER, COLOR : BLACK, UL94V-0
   CONTACTS : HIGH PREFORMANCE 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) 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-12-0936

4. APPLICATION SPECIFICATION : GS-20-0348

(5.) NOTCH DESIGNATES "ROW A" SIDE OF CONNECTOR. NOTCH FEATURE ON OPPOSITE FOR PRODUCT MARKING.

6. PRODUCT MARKING :
   PART NUMBER (10130104-X0J-XXXLF)
   "FCI" AND DATE CODE (FCI P########)

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

(8.) GUIDE-PIN STYLE DESIGNATION ONLY APPLIES TO MODULE VERSIONS THAT REQUIRE GUIDE-PIN HARDWARE. FOR ALL NON-GUIDE-PIN VERSIONS, THE DEFAULT DASH-NUMBER DIGIT IN THAT LOCATION IS STILL '0".

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

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

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

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

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| spec ref | - | | dr | Sandar Soe | 2014/05/16 | projection | mm |
| tolerance std ISO 406 ISO 1101 | TOLERANCES UNLESS OTHERWISE SPECIFIED | | eng | Sandar Soe | 2015/10/30 | | |
| | | | chr | - | - | size A2 | scale 1:1 |
| | | | appr | Chen-Hong Tan | 2015/11/02 | ecn no ELX-S-18192-1 | |
| surface - ISO 1302 | linear | 0.X ±0.3 | FCI www.fci.com | title MODULE ASSEMBLY, XCEDE HD Veritical Header, 4 Pair 8 Column | | product family | rel level Released |
| | | 0.XX ±0.10 | | | | dwg no 10130104 | rev B |
| | | 0.XXX ±0.05 | | | | | |
| | angular | 0° ±2° | | cat. no. - | Product - Customer Drw | | sheet 8 of 8 |

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