



10130104 - X0E - XXXLF

8-COLUMN  
DIFFERENTIAL  
SIGNAL

LEAD-FREE DESIGNATION  
ONLY WITH APPLICABLE  
PLATING CODES

| 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) | NOT TOOLED |
|--------|------------------------------|------------|
| 0      | STANDARD GUIDE PIN, MACHINED |            |
| 1      | STANDARD GUIDE PIN, ROLLED   |            |

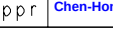
| MODULE DESCRIPTION                             | LETTER DESIGNATION REPRESENTED IN DASH NUMBER |   |   |   |   |   |   |   |   |   | BASE MODULE |
|------------------------------------------------|-----------------------------------------------|---|---|---|---|---|---|---|---|---|-------------|
| LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 6)  | N                                             | J | A | B | C | D | E | F | G | H |             |
|                                                | NO KEY<br>NO GUIDE PIN                        |   |   |   |   |   |   |   |   |   |             |
| RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 7) | Z                                             | Y | P | Q | R | S | T | U | V | W |             |
|                                                | NO KEY<br>NO GUIDE PIN                        |   |   |   |   |   |   |   |   |   |             |
| 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)                 | 1 (ONE)                                       |   |   |   |   |   |   |   |   |   |             |

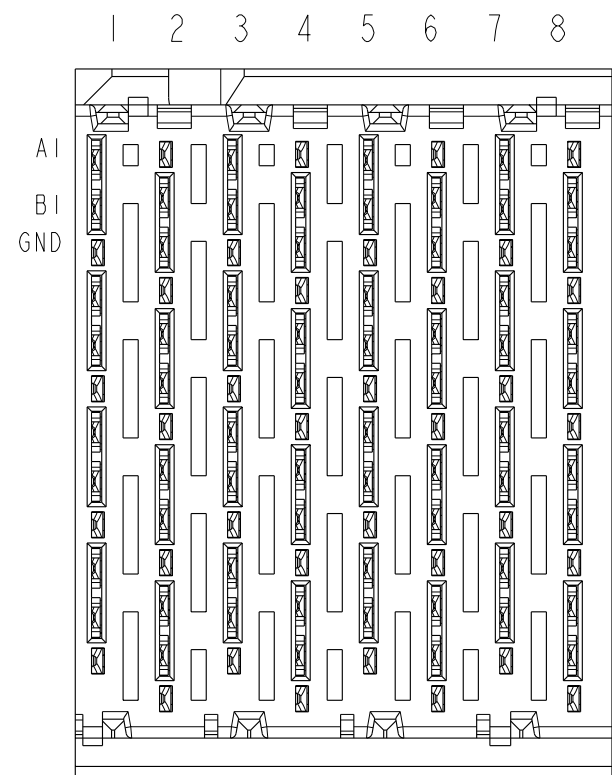
| NUMBER                                                                                                                                                                                                                 | CONTACT MATING WIPE LENGTH |        | COMPLIANT TAIL TYPE (SEE NOTE 9) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|----------------------------------|
|                                                                                                                                                                                                                        | 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-XXXX, WHERE: "X" DENOTES MODULE TYPE PER CHART ON THIS SHEET "YYYY" IS A SEQUENTIAL NUMBER BEGINNING WITH "0001". |                            |        |                                  |

| 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"     |

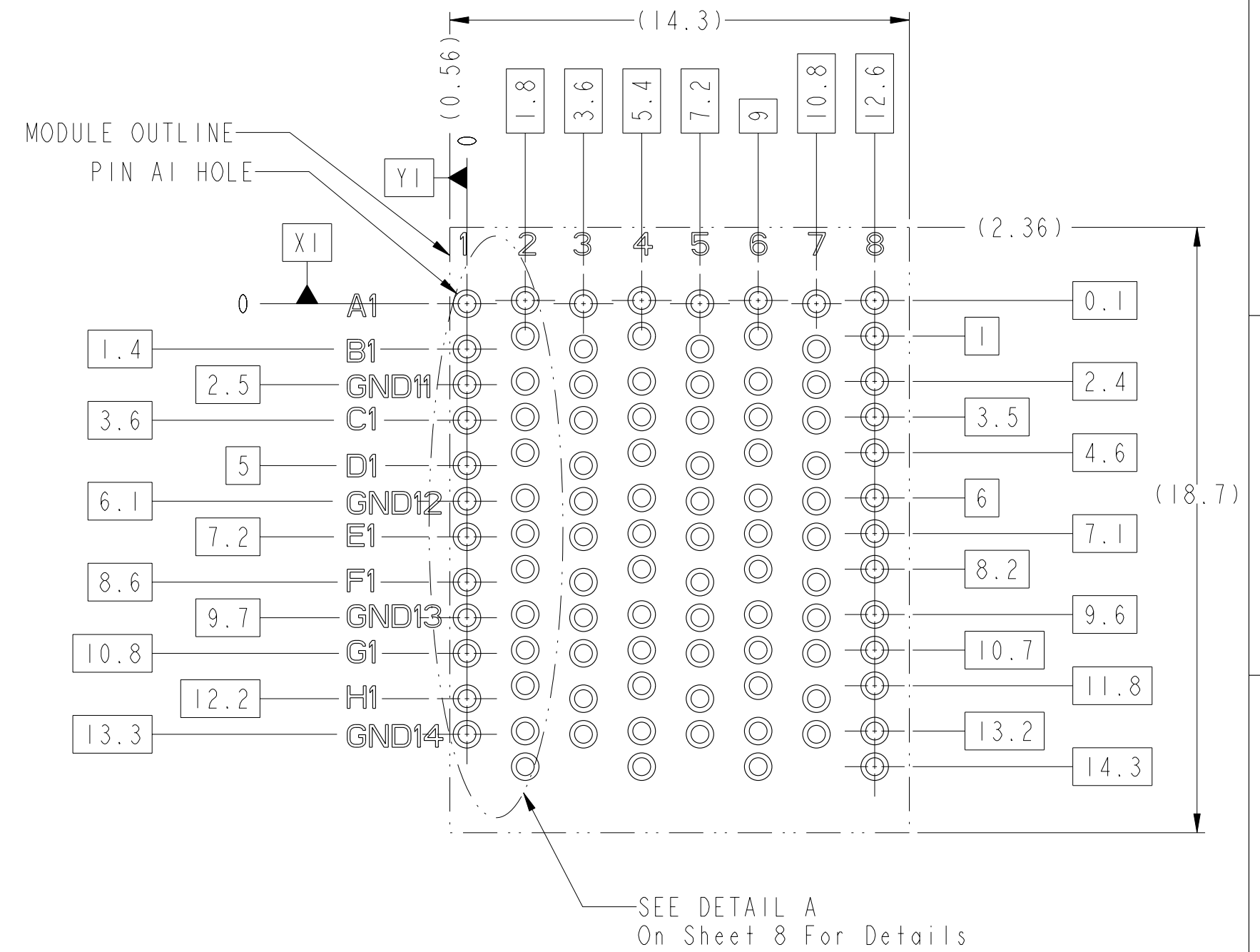
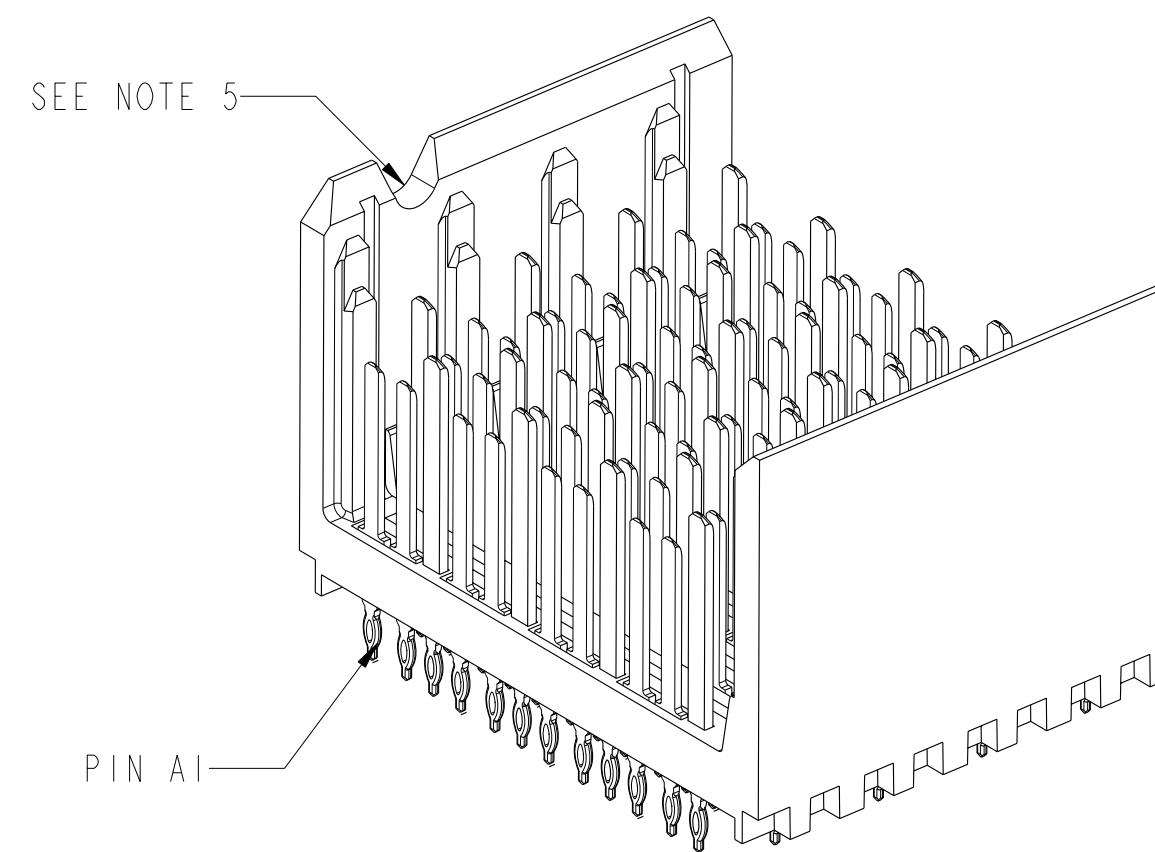
| TABLE 2 (SEE NOTE 12) |                                                        |                 |
|-----------------------|--------------------------------------------------------|-----------------|
| SCREW P/N             | DESCRIPTION                                            | BOARD THICKNESS |
| 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  | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |
|               | ISO 1101 |                                       |        |
| surface       | linear   | 0.X                                   | ±0.3   |
|               |          | 0.XX                                  | ±0.10  |
|               |          | 0.XXX                                 | ±0.05  |
|               | ISO 1302 | angular                               | 0° ±2° |

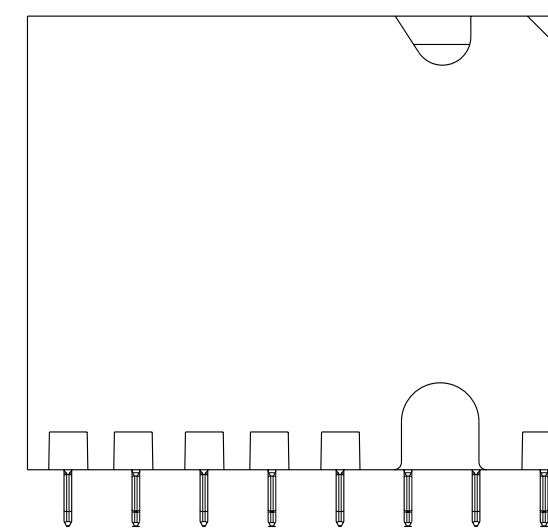
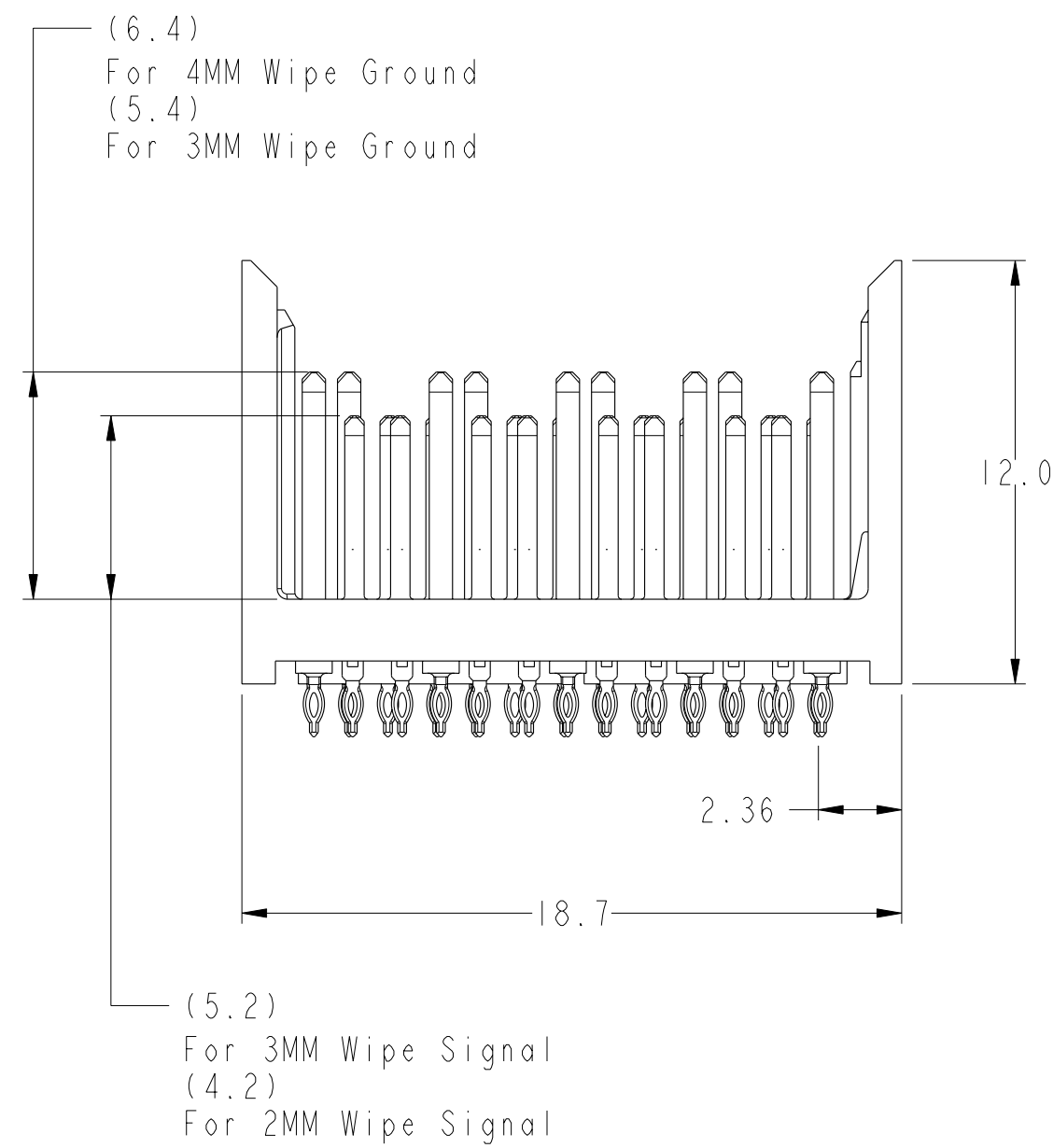
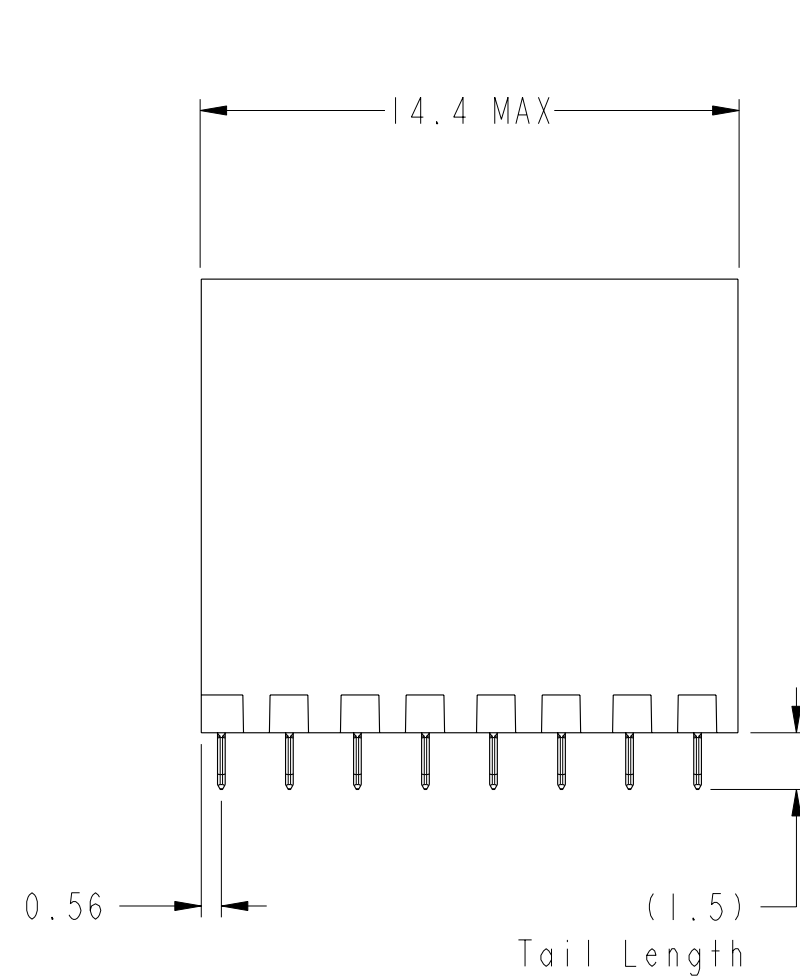
|                                                                                                  |               |                                  |                                                                                                                        |                                                                                                                |           |               |              |          |
|--------------------------------------------------------------------------------------------------|---------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------|---------------|--------------|----------|
| dr                                                                                               | Sander Soe    | 2014/05/16                       | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size      | A2            | scale        | 1:1      |
| eng                                                                                              | Sander Soe    | 2015/10/30                       |                                                                                                                        |                                                                                                                | ecn no    | ELX-S-18192-1 |              |          |
| chr                                                                                              | -             | -                                |                                                                                                                        |                                                                                                                | rel level |               |              | Released |
| appr                                                                                             | Chen-Hong Tan | 2015/11/02                       | product family                                                                                                         |                                                                                                                | -         |               |              |          |
| <div></div> | title         | MODULE ASSEMBLY, XCEDE HD        |                                                                                                                        |                                                                                                                | dwg no    | 10130104      |              | rev      |
|                                                                                                  |               | Veritcal Header, 4 Pair 8 Column |                                                                                                                        |                                                                                                                |           |               |              |          |
|                                                                                                  |               |                                  |                                                                                                                        |                                                                                                                |           |               |              |          |
|                                                                                                  |               |                                  |                                                                                                                        |                                                                                                                |           |               |              |          |
|                                                                                                  |               |                                  |                                                                                                                        |                                                                                                                |           |               |              |          |
| www.fci.com                                                                                      |               | cat. no.                         | -                                                                                                                      | Product - Customer Drw                                                                                         |           |               | sheet 1 of 8 |          |



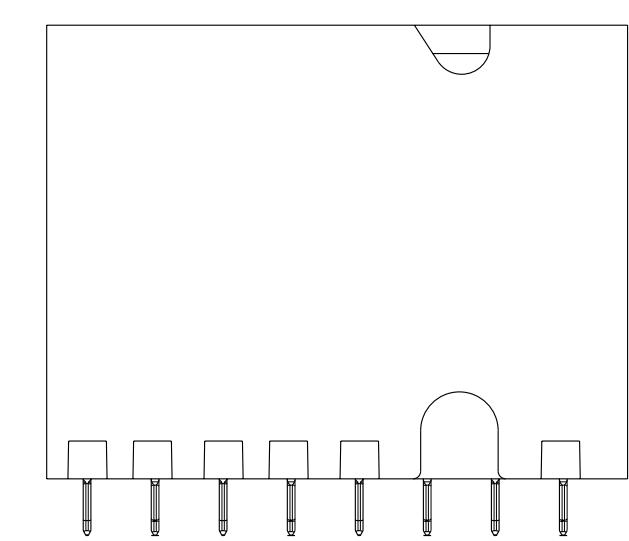
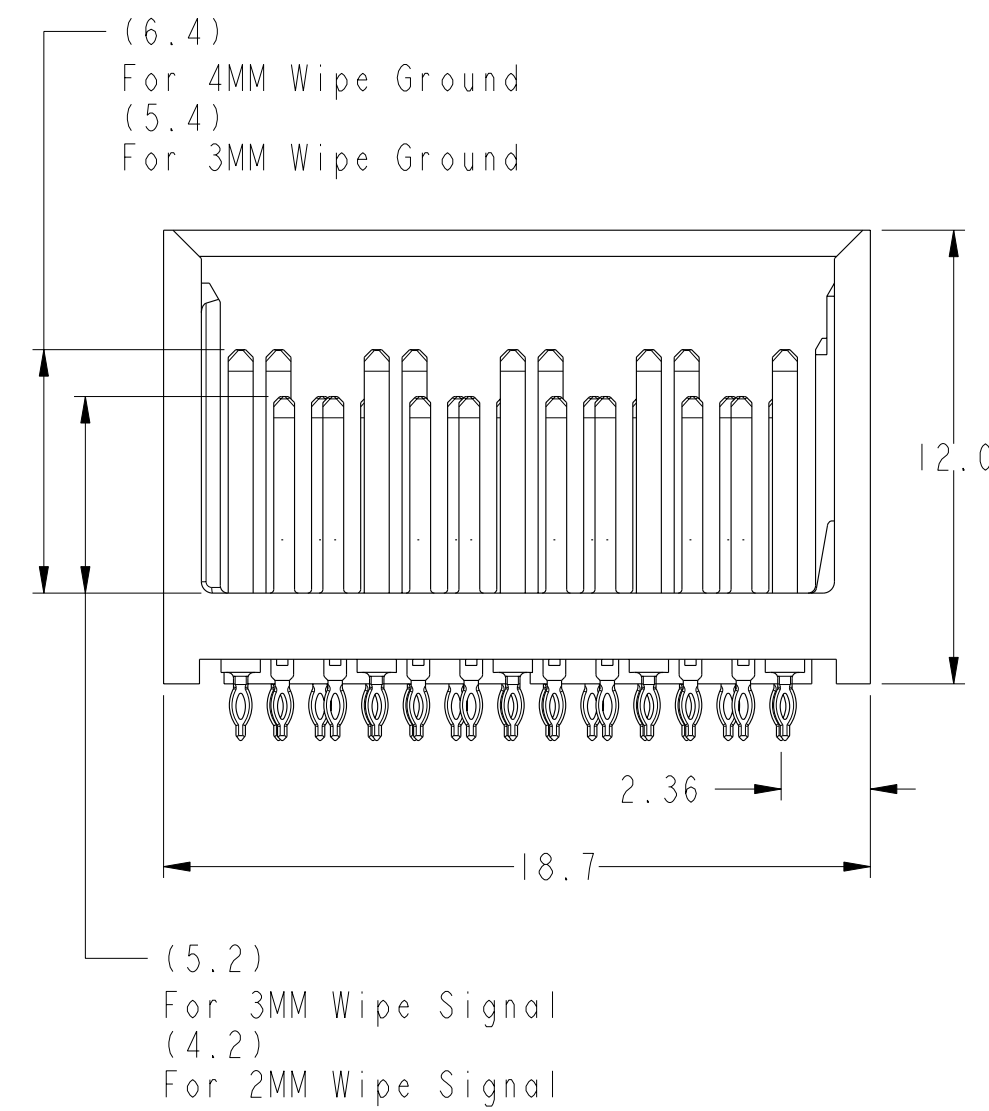
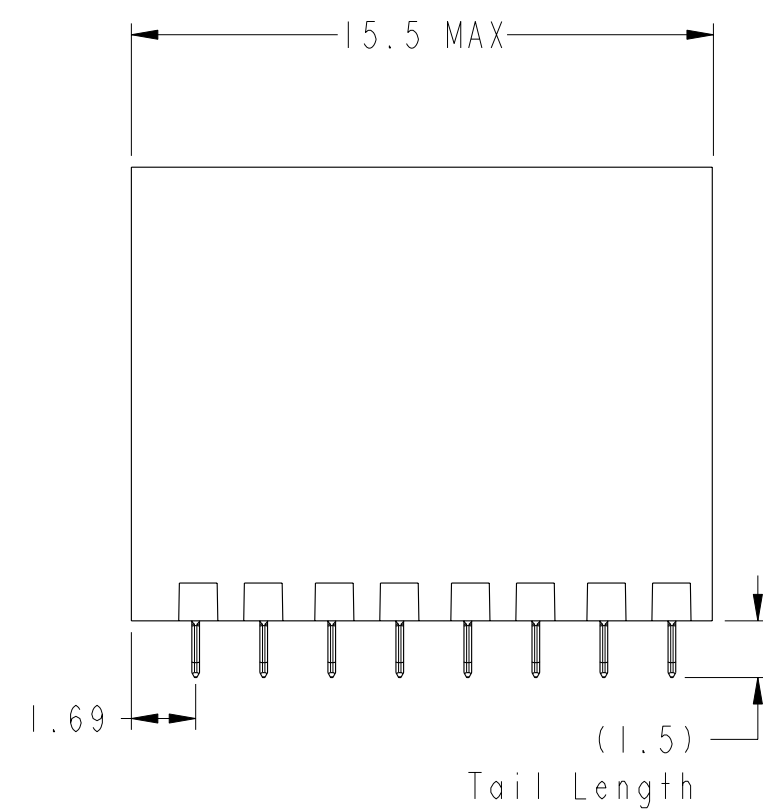
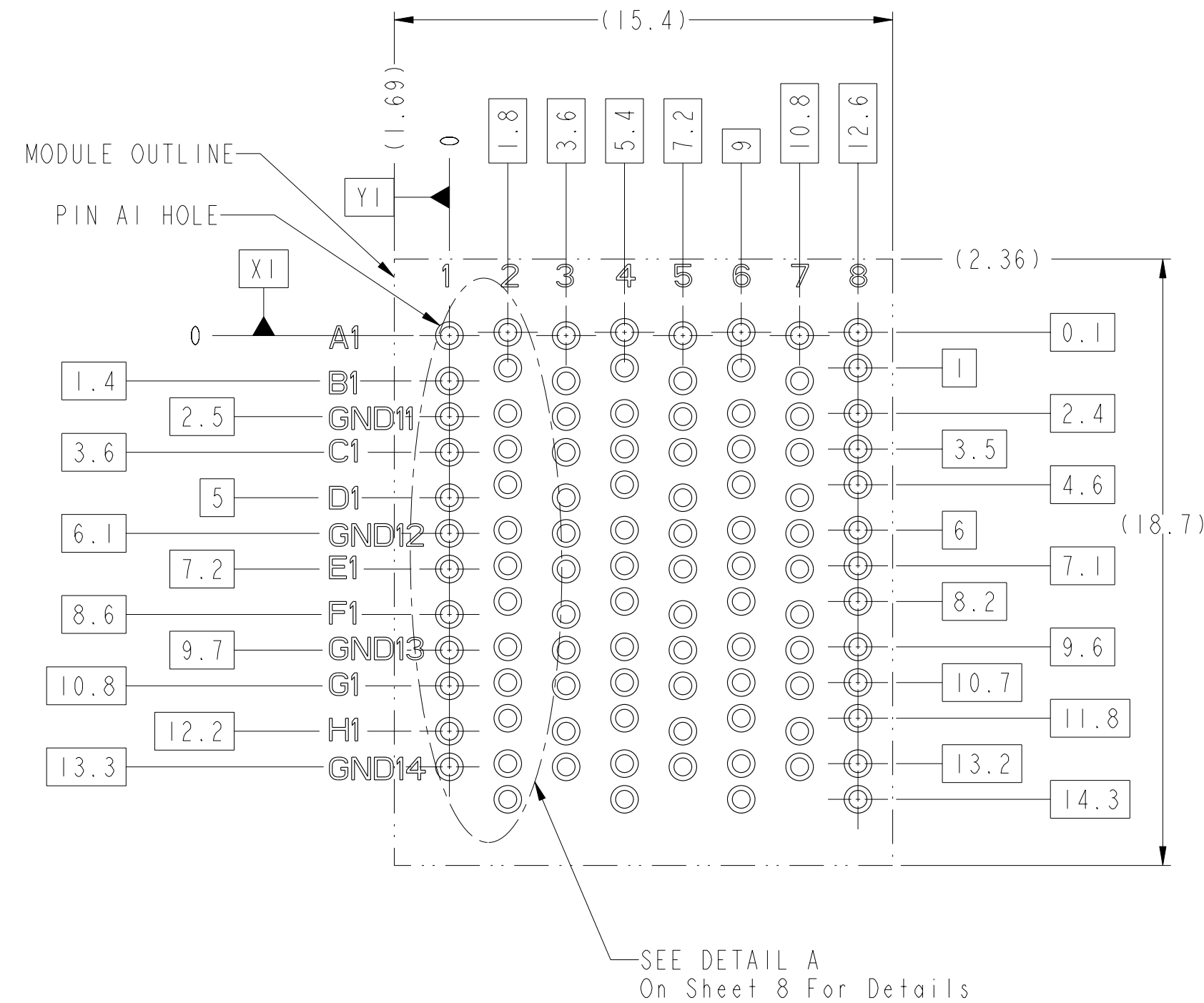
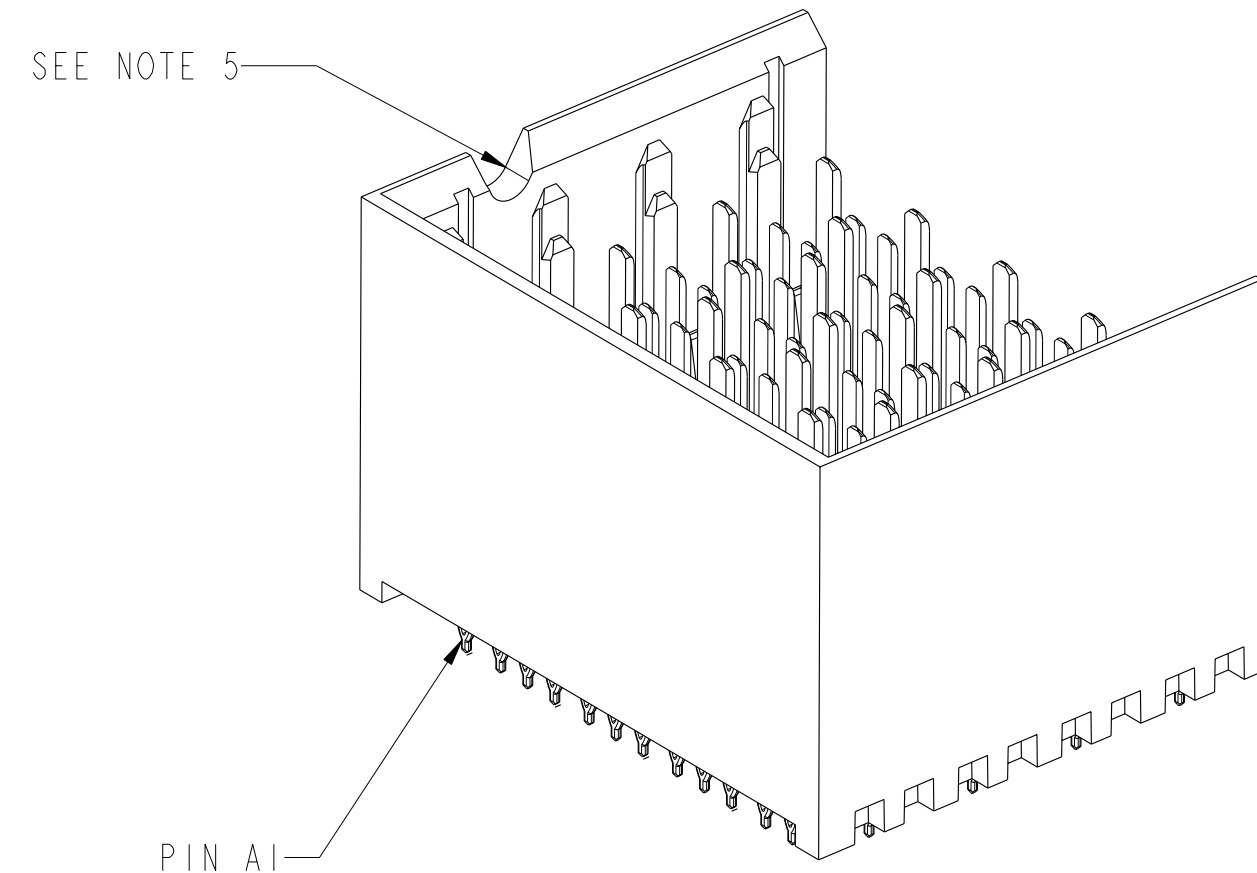
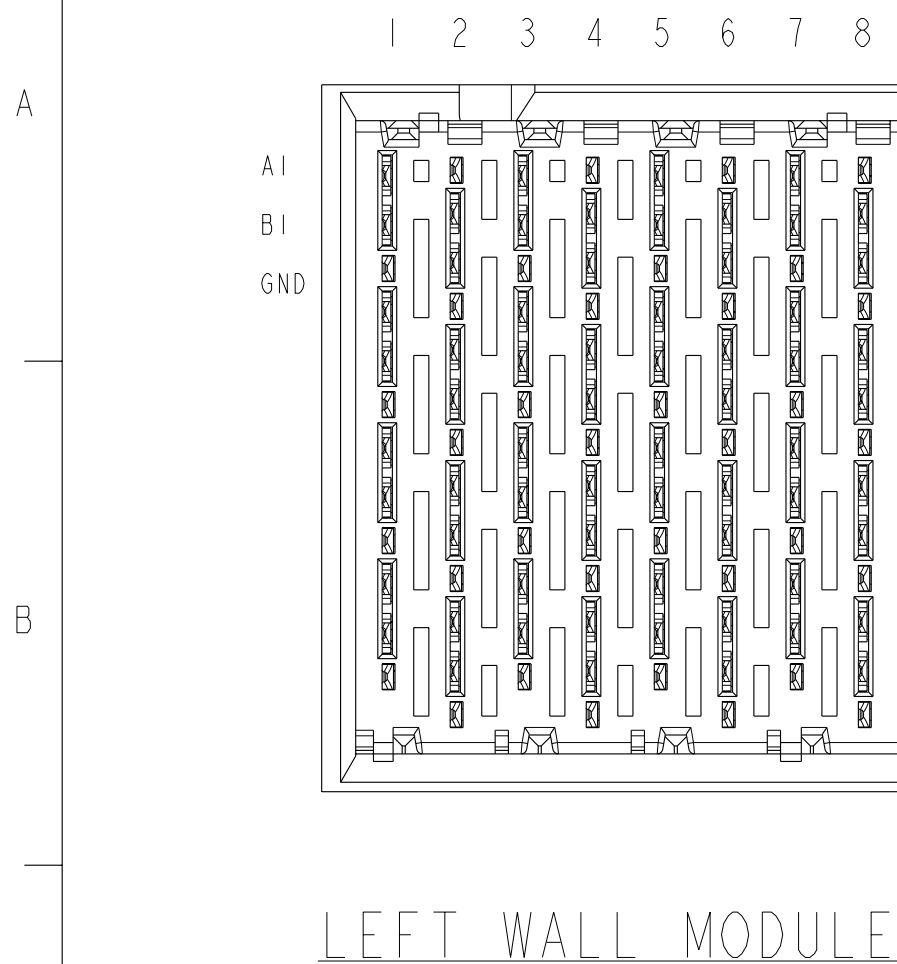
OPEN WALL MODULE



BP HOLE PATTERN COMPONENT SIDE  
OPEN WALL MODULE BACKPLANE FOOTPRINT



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

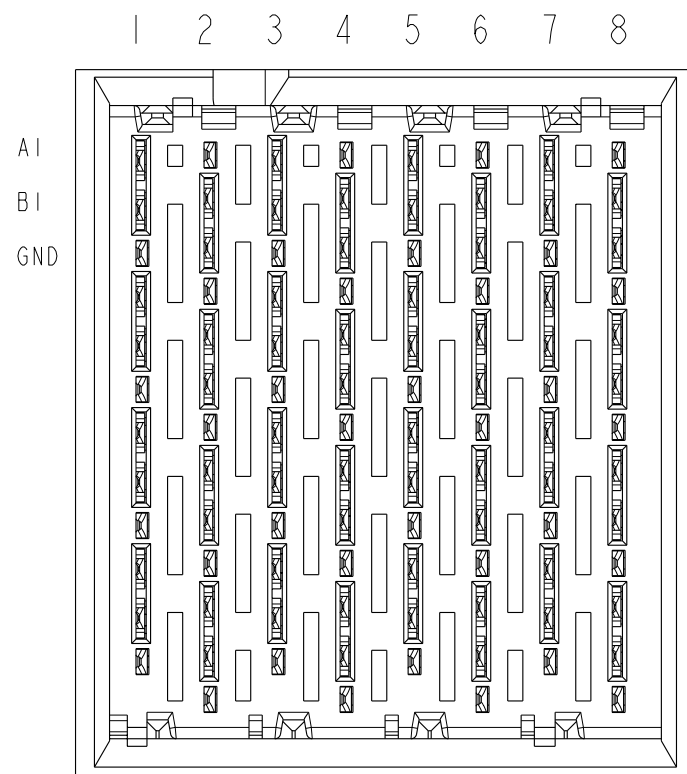


BP HOLE PATTERN COMPONENT SIDE

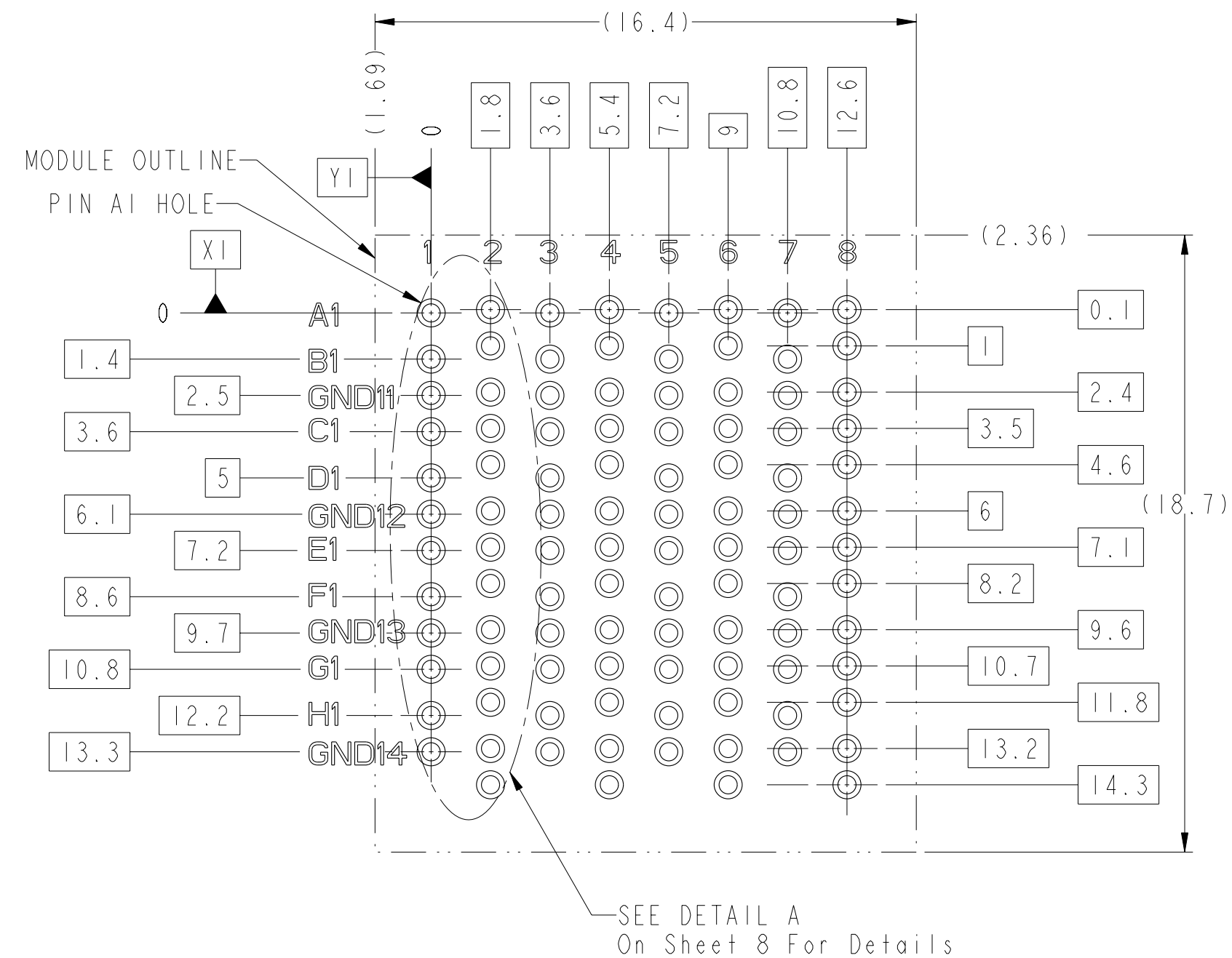
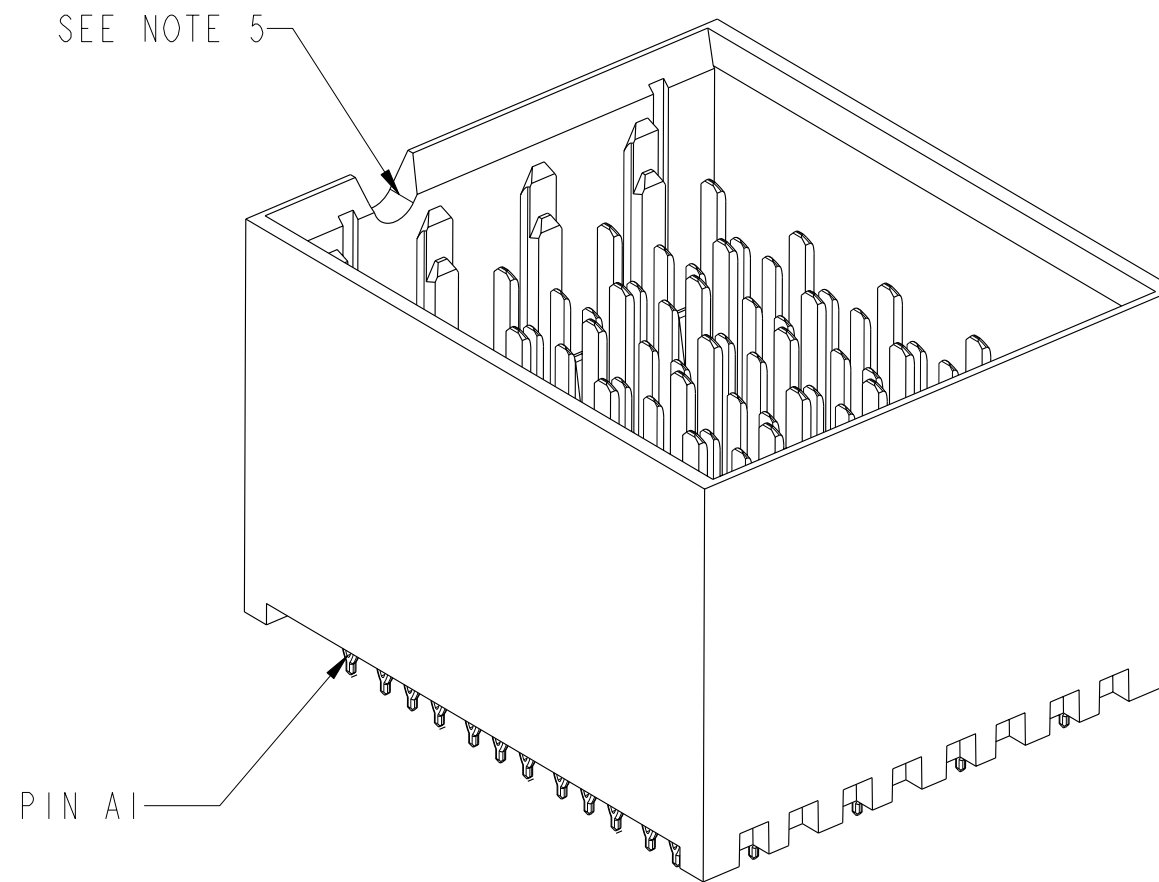
LEFT WALL MODULE BACKPLANE FOOTPRINT

|               |                                       |         |               |             |                |    |                        |               |                        |              |
|---------------|---------------------------------------|---------|---------------|-------------|----------------|----|------------------------|---------------|------------------------|--------------|
| spec ref      | -                                     | dr      | Sander Soe    | 2014/05/16  | projection     | mm | size                   | A2            | scale                  | 1:1          |
| tolerance std | ISO 406<br>ISO 1101                   | eng     | Sander Soe    | 2015/10/30  | chr            | -  | ecn no                 | ELX-S-18192-1 | rel level              | Released     |
| surface       | ISO 1302                              | appr    | Chen-Hong Tan | 2015/11/02  | product family | -  | cat. no.               | -             | Product - Customer Drw | sheet 3 of 8 |
| linear        | 0.X ±0.3<br>0.XX ±0.10<br>0.XXX ±0.05 | angular | 0° ±2°        | www.fci.com | cat. no.       | -  | Product - Customer Drw | sheet 3 of 8  | rev                    | B            |



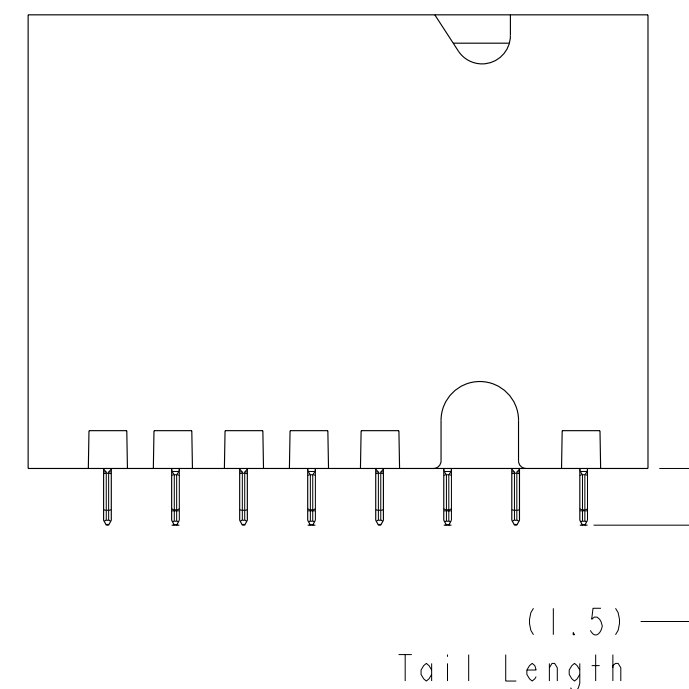
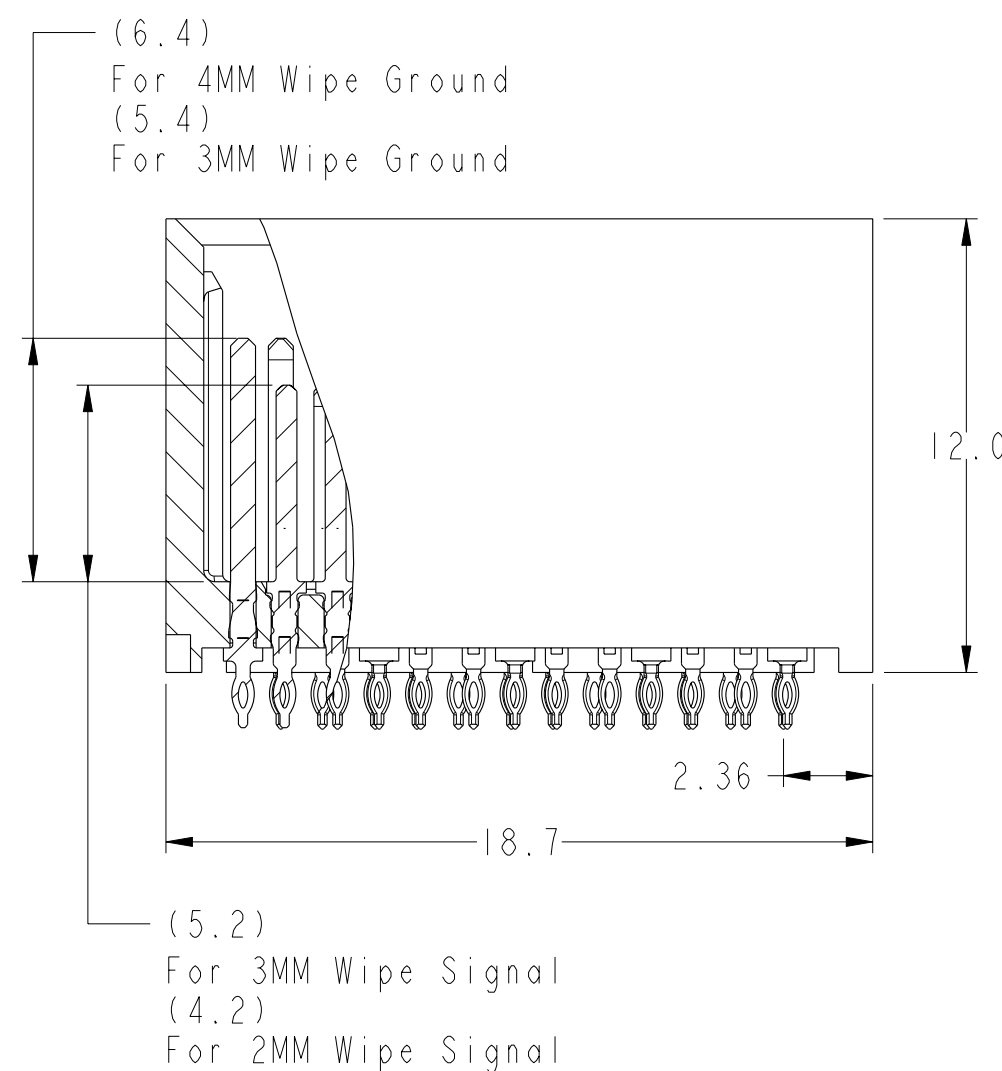
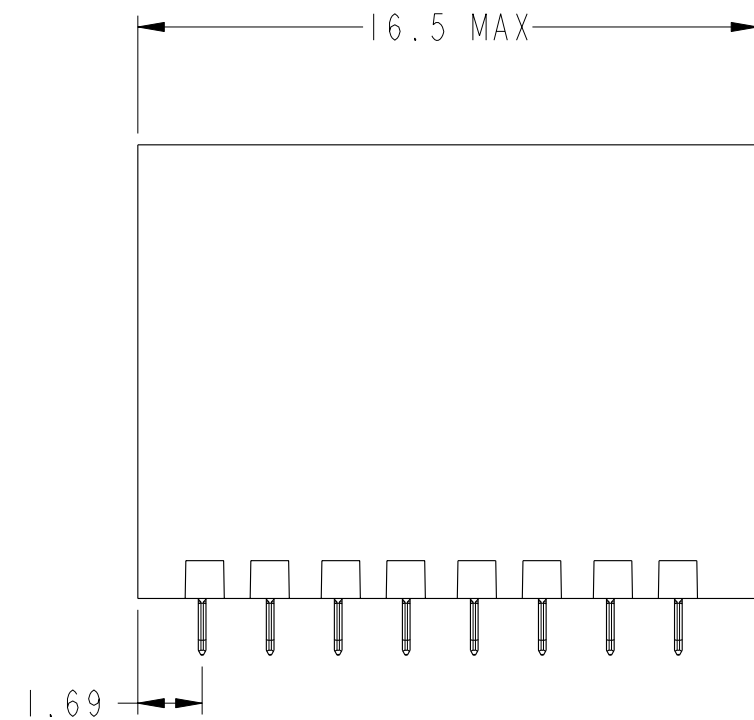


FOUR WALL MODULE



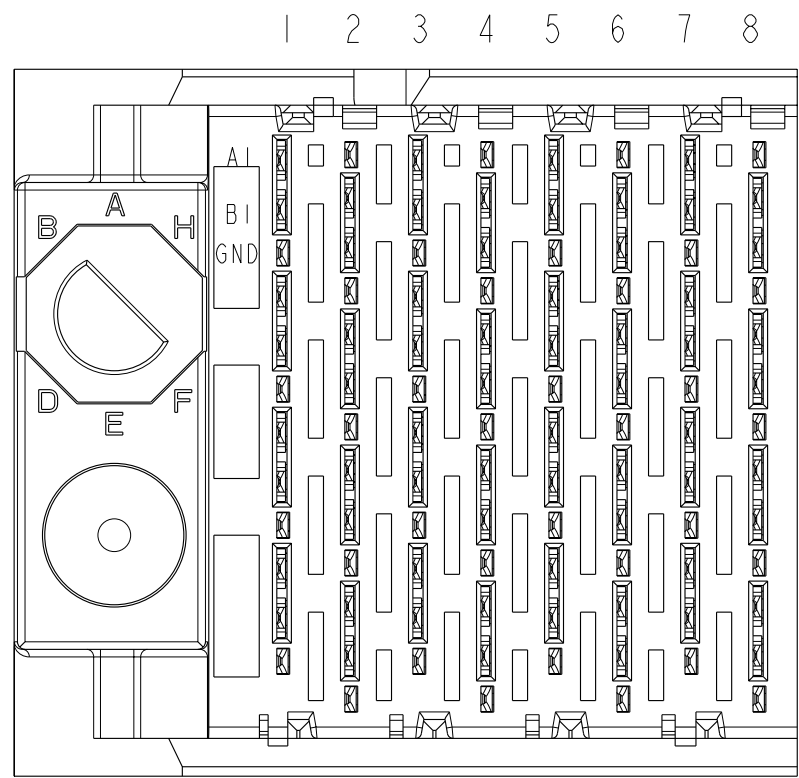
BP HOLE PATTERN COMPONENT SIDE

FOUR WALL MODULE BACKPLANE FOOTPRINT



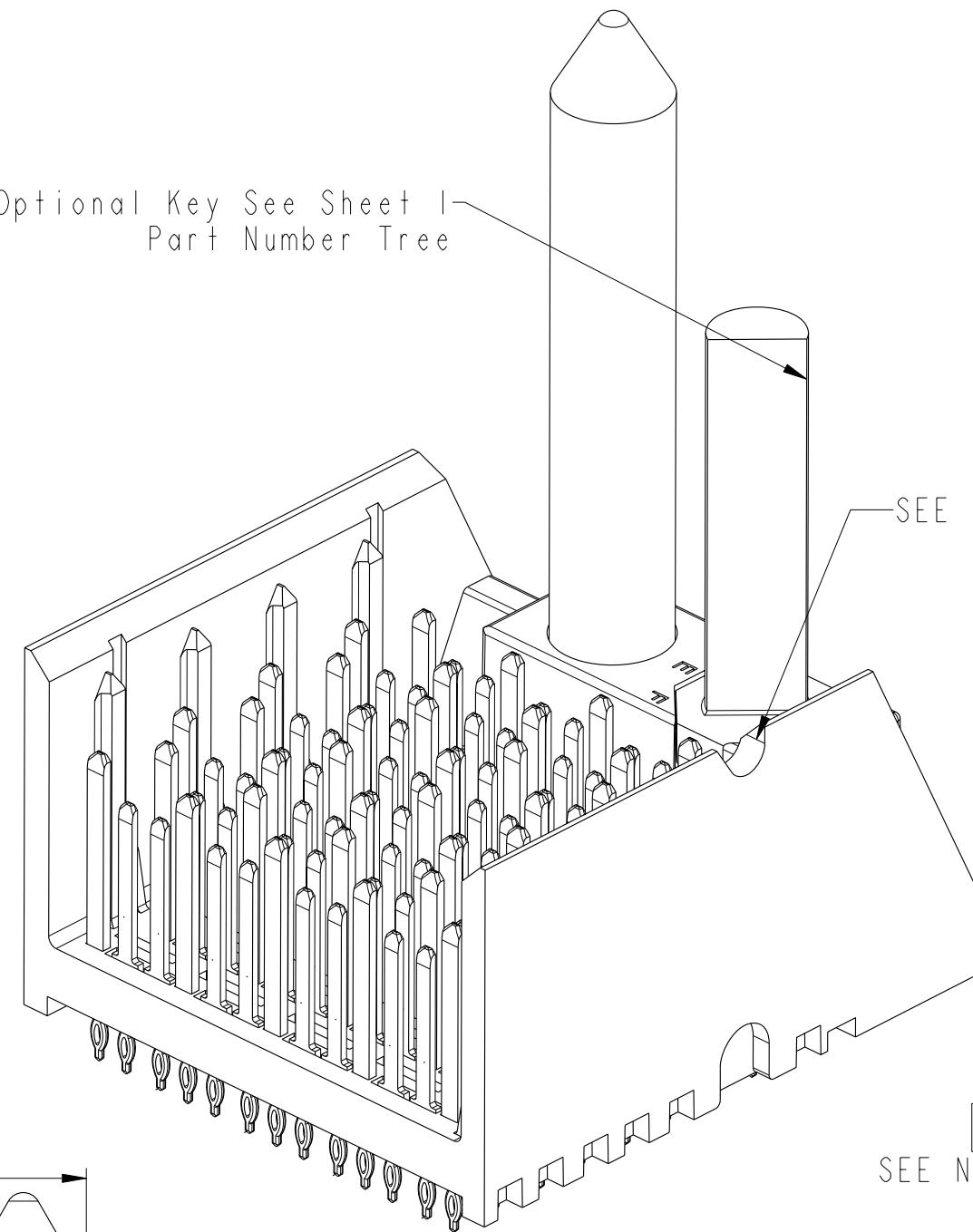
|               |                                       |         |               |             |                |                                                               |          |               |                        |              |
|---------------|---------------------------------------|---------|---------------|-------------|----------------|----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

A  
B  
C  
D  
E  
F



LEFT POLARIZING/GUIDE MODULE

Optional Key See Sheet 1  
Part Number Tree

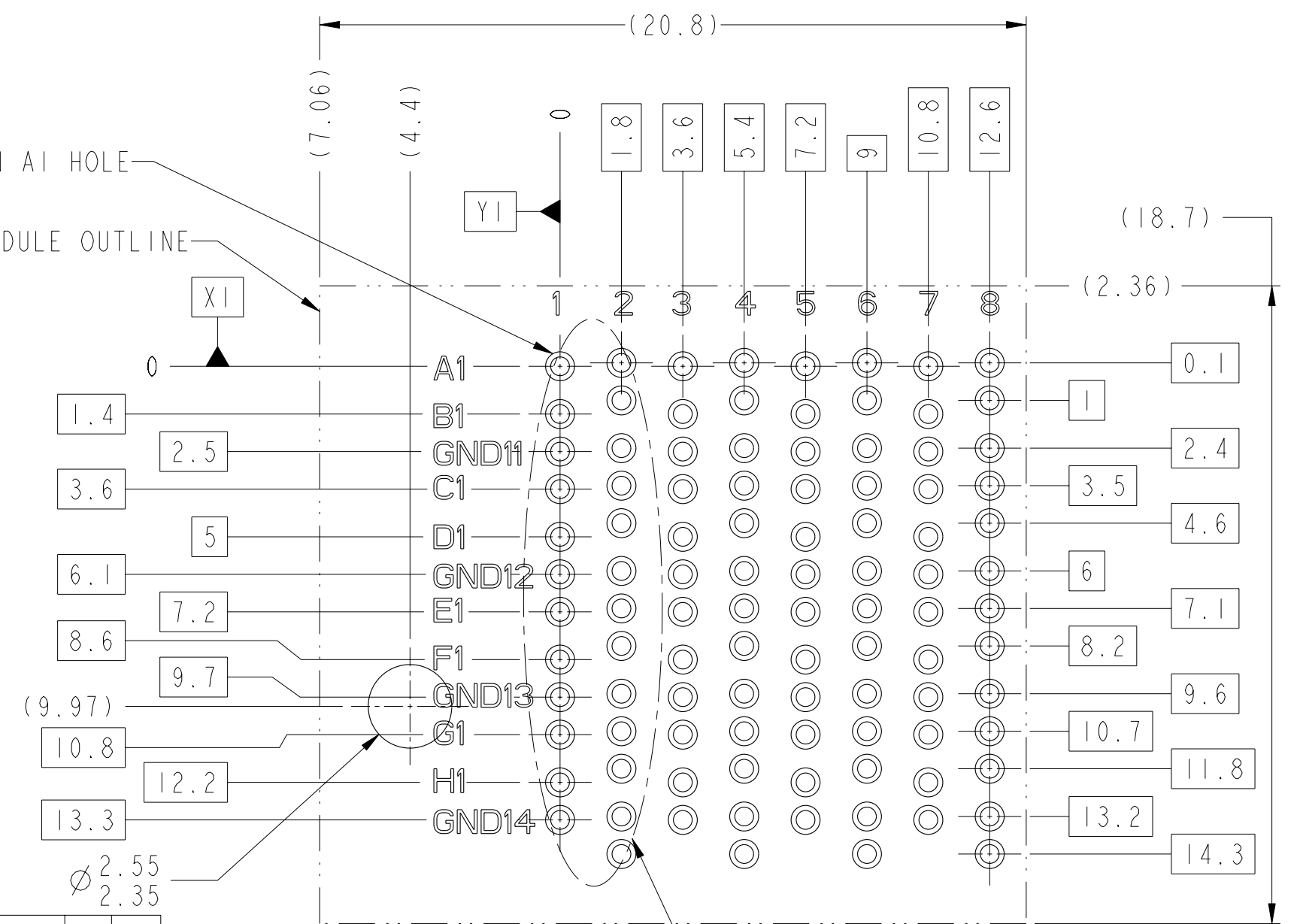


SEE NOTE 5

$\phi 0.15$  XI YI  
SEE NOTE 11 & TABLE 1

PIN AI HOLE

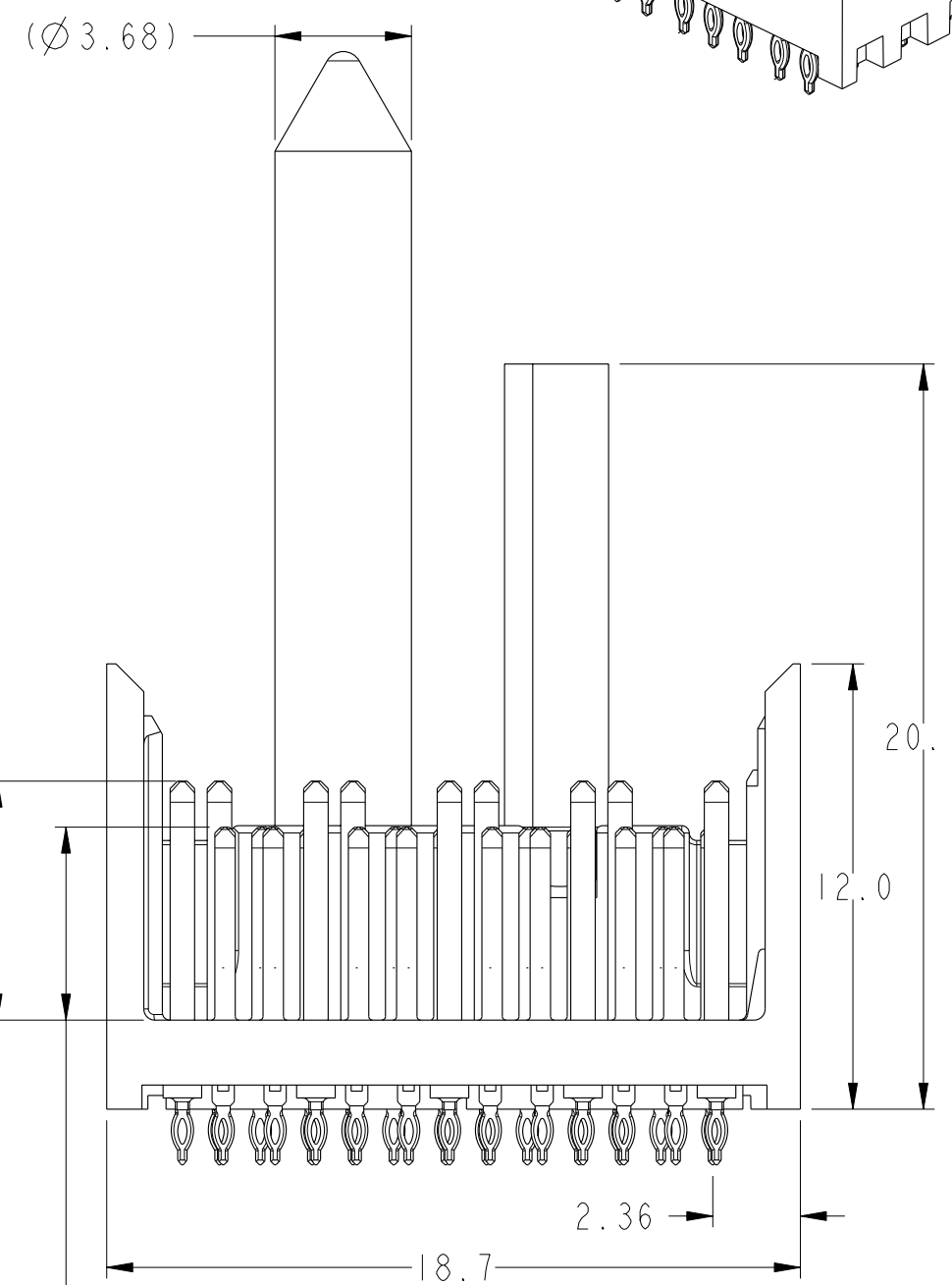
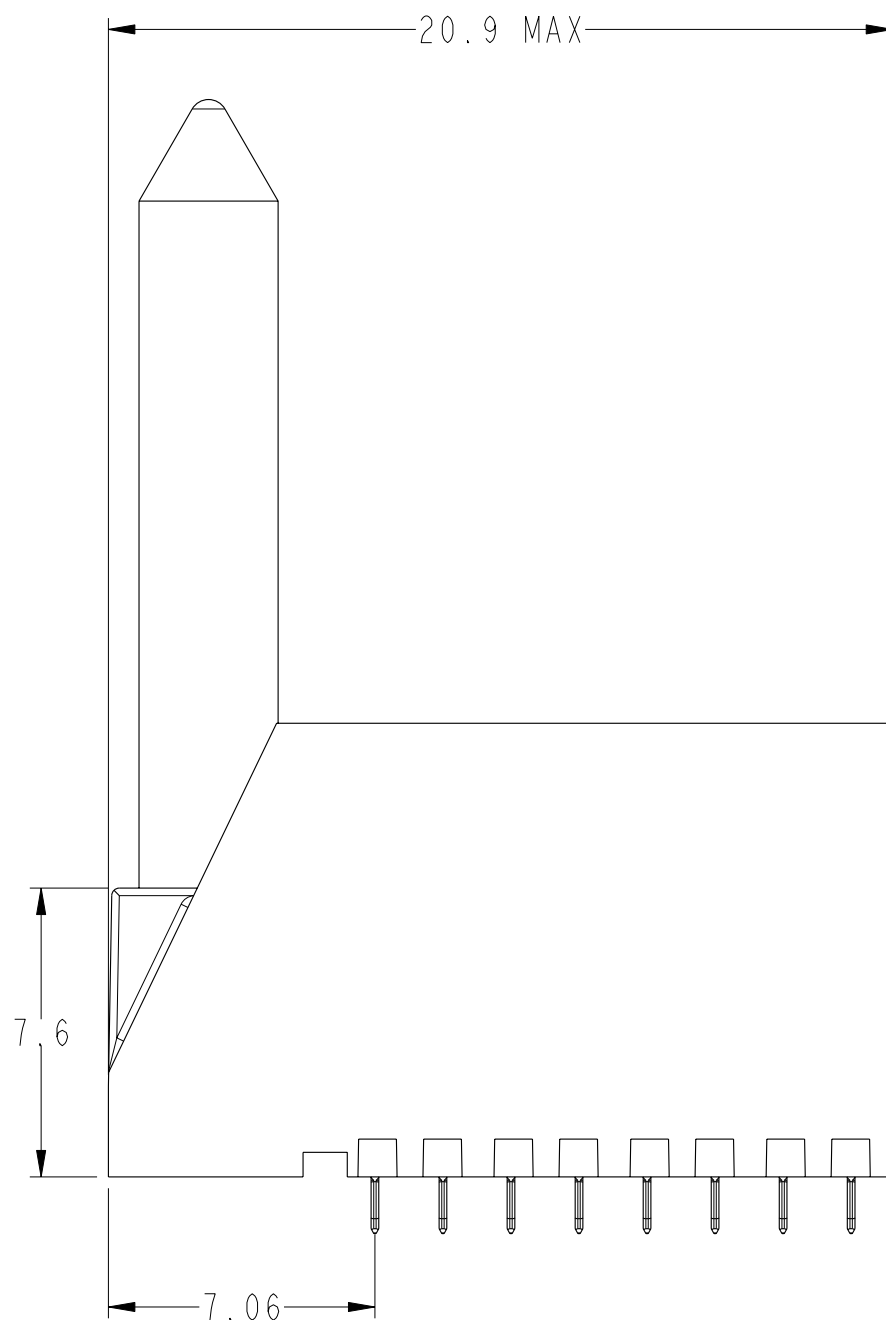
MODULE OUTLINE



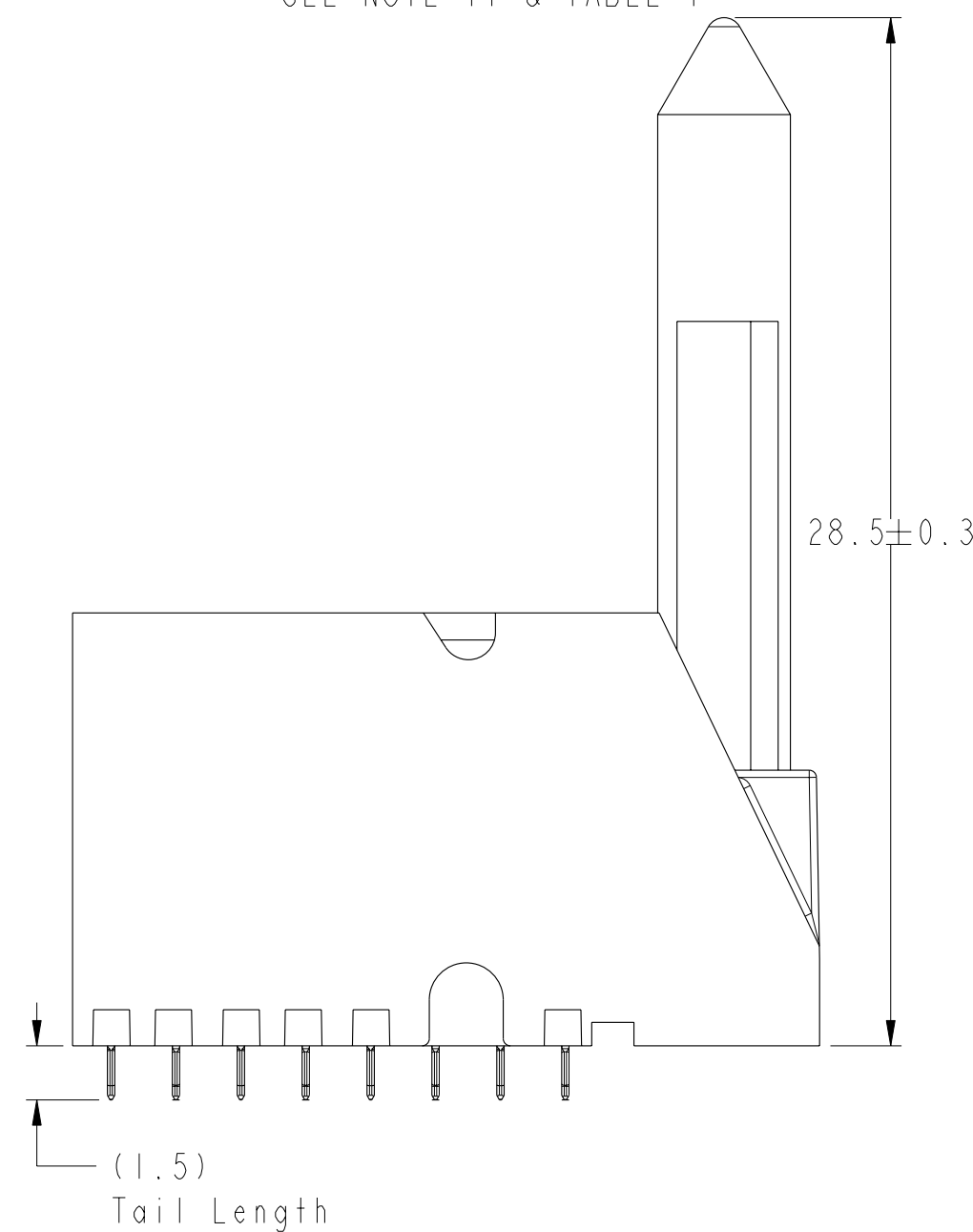
SEE DETAIL A  
OnSheet 8 For Details

BP HOLE PATTERN COMPONENT SIDE

LEFT POLARIZING GUIDE MODULE  
BACKPLANE FOOTPRINT



(5.2)  
For 3MM Wipe Signal  
(4.2)  
For 2MM Wipe Signal  
(6.4)  
For 4MM Wipe Ground  
(5.4)  
For 3MM Wipe Ground

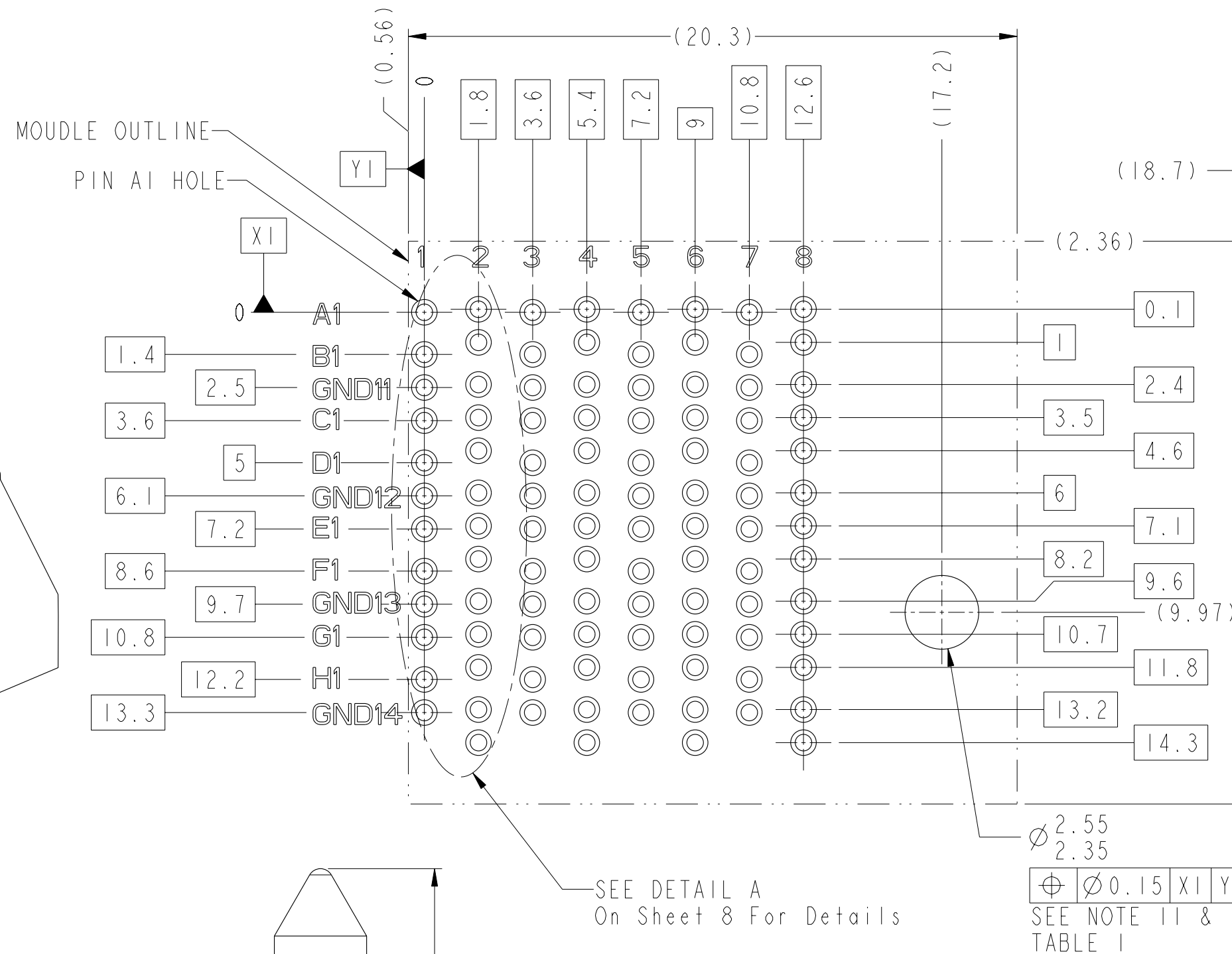
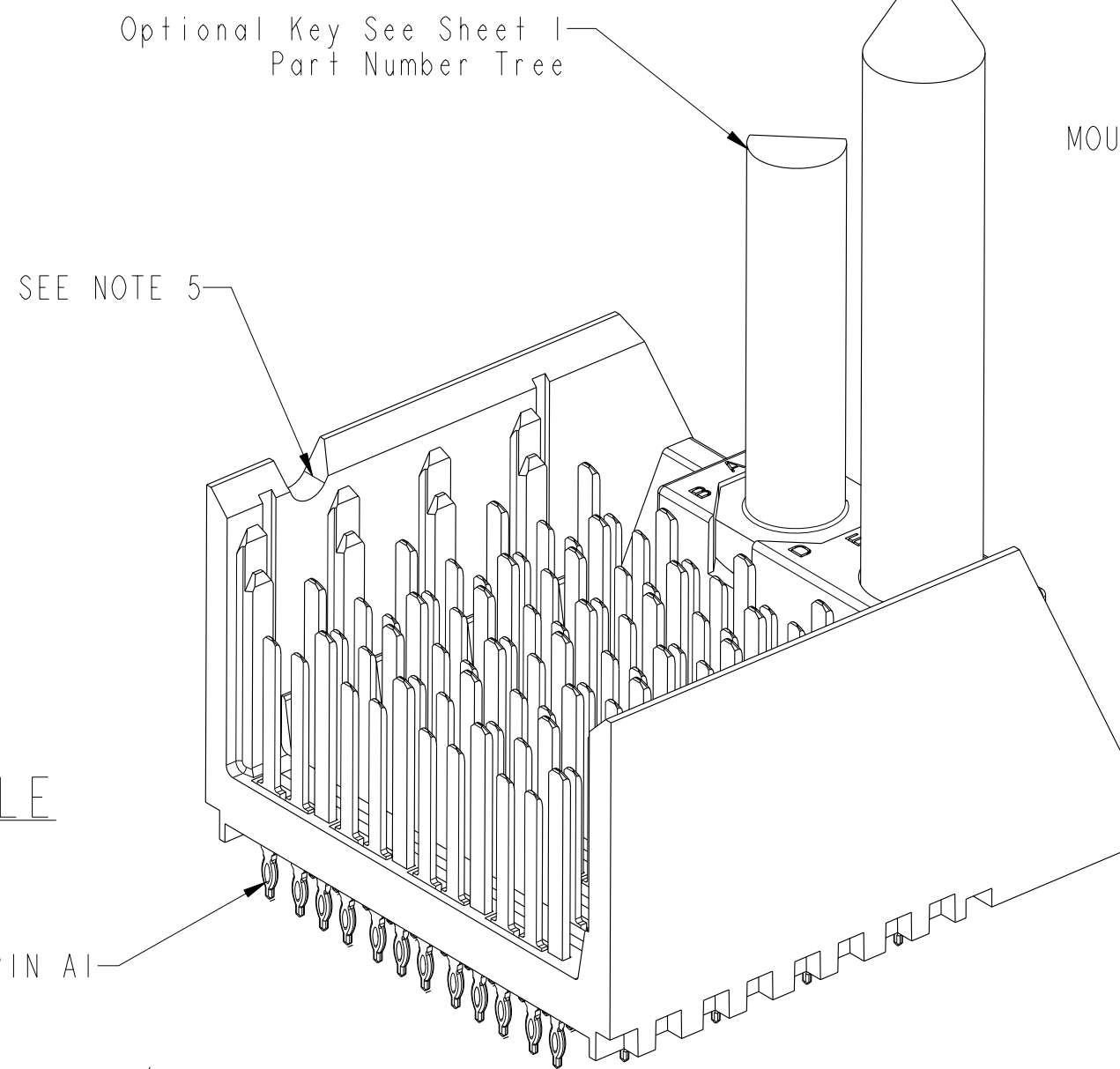
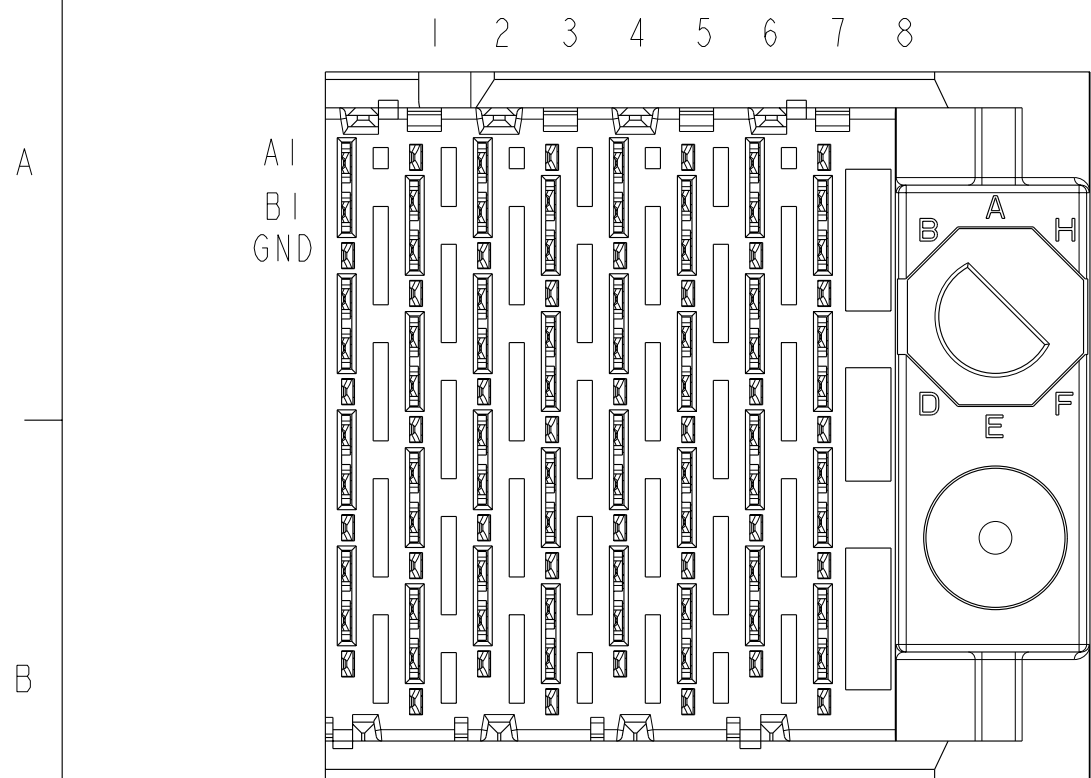


|               |                                       |             |                                                               |            |                |    |              |               |       |     |
|---------------|---------------------------------------|-------------|---------------------------------------------------------------|------------|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

PDS: Rev :B

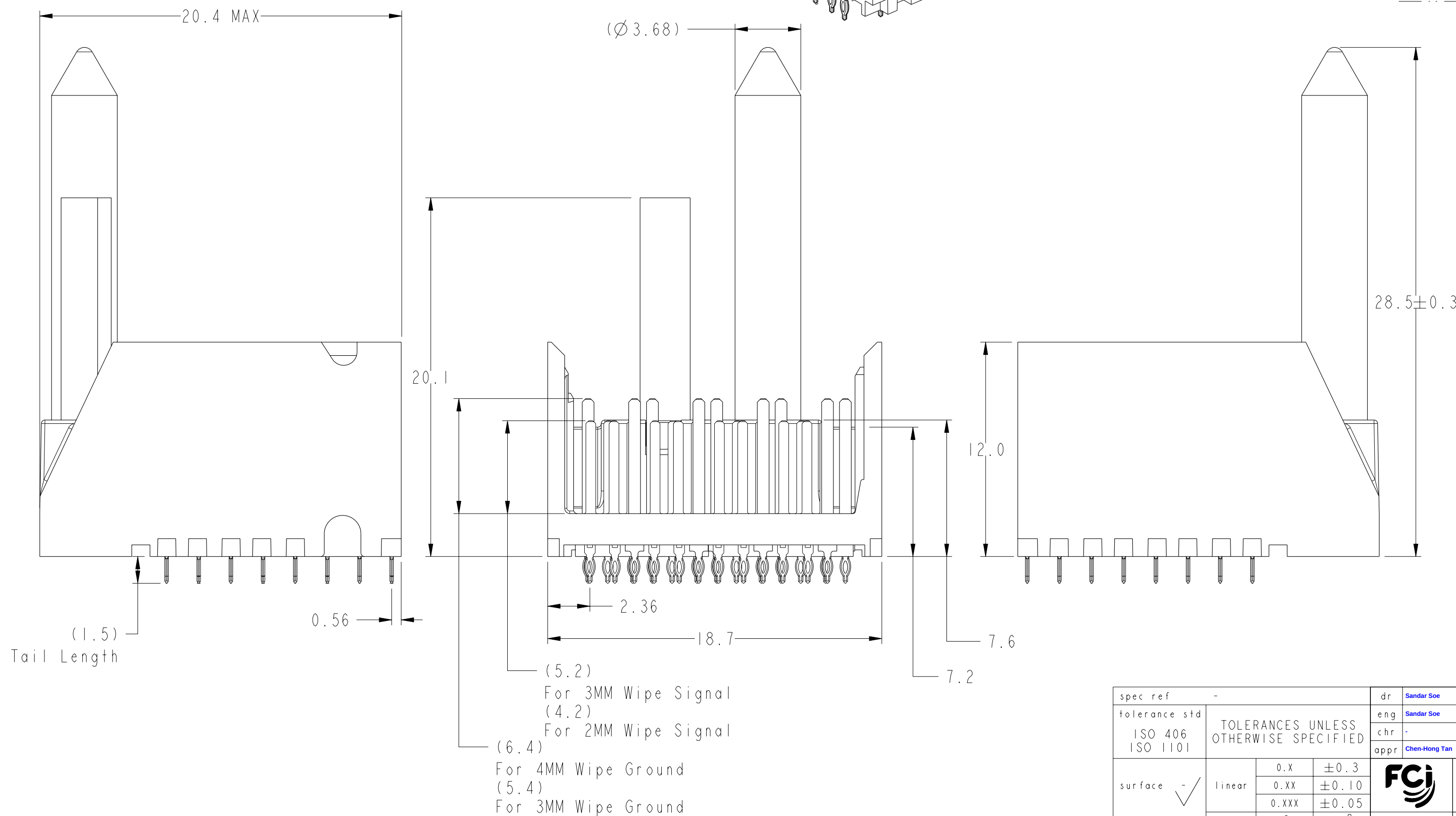
STATUS:Released

Printed: Nov 03, 2015



RIGHT POLARIZING/GUIDE MOUDLE

BP HOLE PATTERN COMPONENT SIDE  
RIGHT POLAIZING/GUIDE MODULE  
BACKPLANE FOOTPRINT



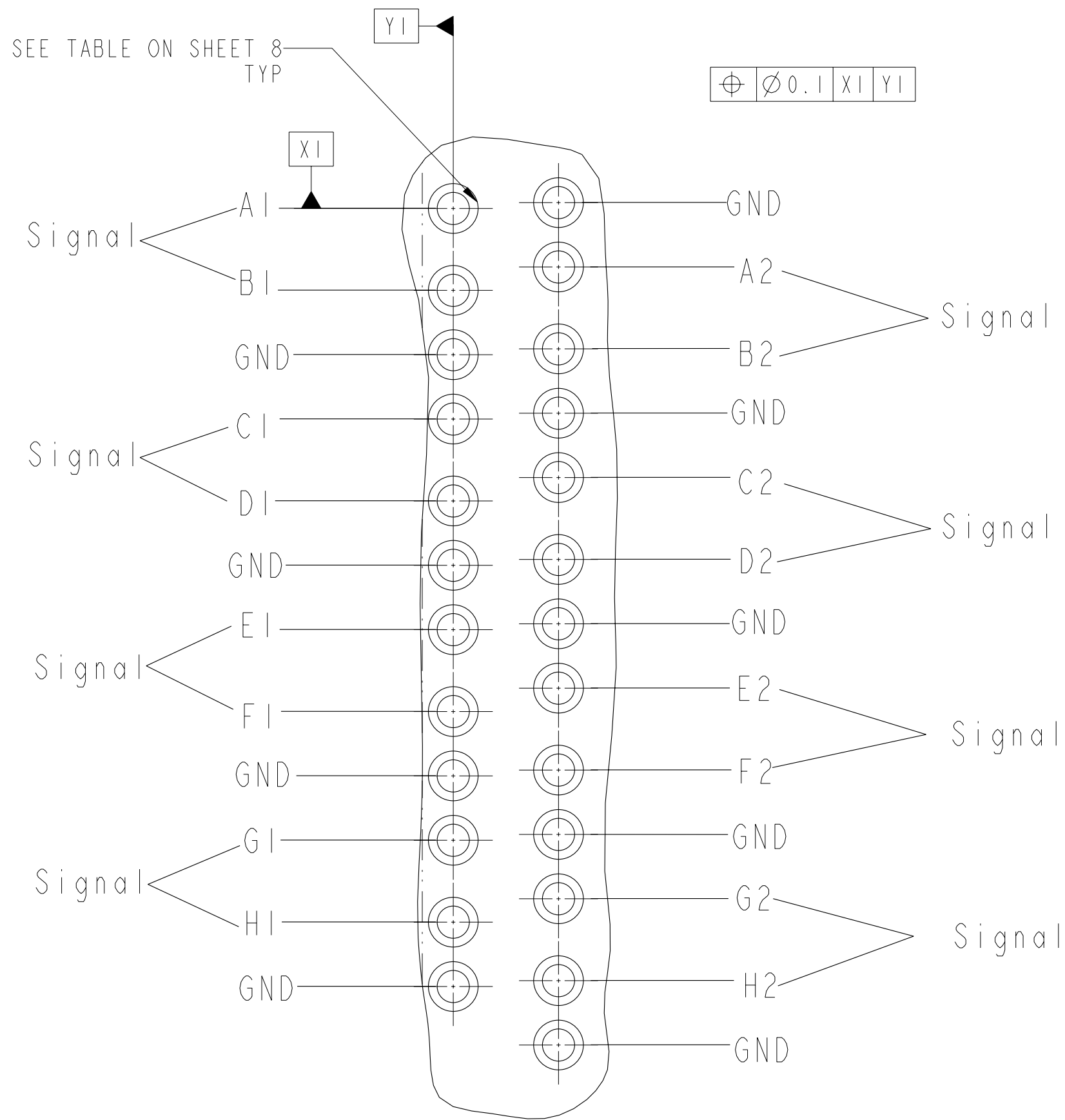
|               |                                       |         |               |                                                                                                     |                |    |          |                        |              |          |
|---------------|---------------------------------------|---------|---------------|-----------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

PDS: Rev :B

STATUS:Released

Printed: Nov 03, 2015

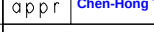
| TABLE 3 |                                                    |                                                    |
|---------|----------------------------------------------------|----------------------------------------------------|
|         | COMPLIANT PIN<br>DRILL $\varnothing 0.55[0.0217"]$ | COMPLIANT PIN<br>DRILL $\varnothing 0.45[0.0177"]$ |
| PTH     | $\varnothing 0.45\pm 0.05$                         | $\varnothing 0.36\pm 0.05$                         |
| DRILL   | $\varnothing 0.55 [0.0217"]$                       | $\varnothing 0.45 [0.0177"]$                       |
| PAD     | $\varnothing 0.85$                                 | $\varnothing 0.75$                                 |



DETAIL A  
SCALE 12:1

NOTES:

- CONNECTOR MATERIALS  
SHROUD : HIGH-TEMP POLYMER, COLOR : BLACK, UL94V-0  
CONTACTS : HIGH PREFORMANCE COPPER ALLOY
- 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.
- PRODUCT SPECIFICATION : GS-12-0936
- APPLICATION SPECIFICATION : GS-20-0348
- NOTCH DESIGNATES "ROW A" SIDE OF CONNECTOR. NOTCH FEATURE ON OPPOSITE FOR PRODUCT MARKING.
- PRODUCT MARKING :  
PART NUMBER (10130104-X0J-XXXLF)  
"FCI" AND DATE CODE (FCI P#####)
- PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.
- 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".
- SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PIN SELECTION, ETC.
- A  $\triangle$  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.
- OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 SHEET 1 FOR ADDITIONAL DETAILS.
- SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.

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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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