

A  
B  
C  
D  
E  
F

1 0 1 1 5 0 9 1 - X 0 E - X X X L F

8-COLUMN  
DIFFERENTIAL  
SIGNAL

LEAD-FREE DESIGNATION  
ONLY WITH APPLICABLE  
PLATING CODES

| LETTER | PLATING (SEE NOTE 6) |                               |
|--------|----------------------|-------------------------------|
|        | APPLICATION          | TYPE (REFERENCE)              |
| B      | TELCORDIA CO         | 0.76um GOLD or GXT            |
| C      | TELCORDIA UE         | 1.27um GOLD                   |
| D      | TELCORDIA CO         | 0.76um GOLD or GXT, LEAD-FREE |
| E      | TELCORDIA UE         | 1.27um GOLD, LEAD-FREE        |

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

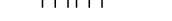
| MODULE DESCRIPTION                             | LETTER DESIGNATION REPRESENTED IN DASH NUMBER |   |   |   |   |   |   |   |   |   | BASE MODULE |
|------------------------------------------------|-----------------------------------------------|---|---|---|---|---|---|---|---|---|-------------|
| LEFT 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 10115091-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"     |

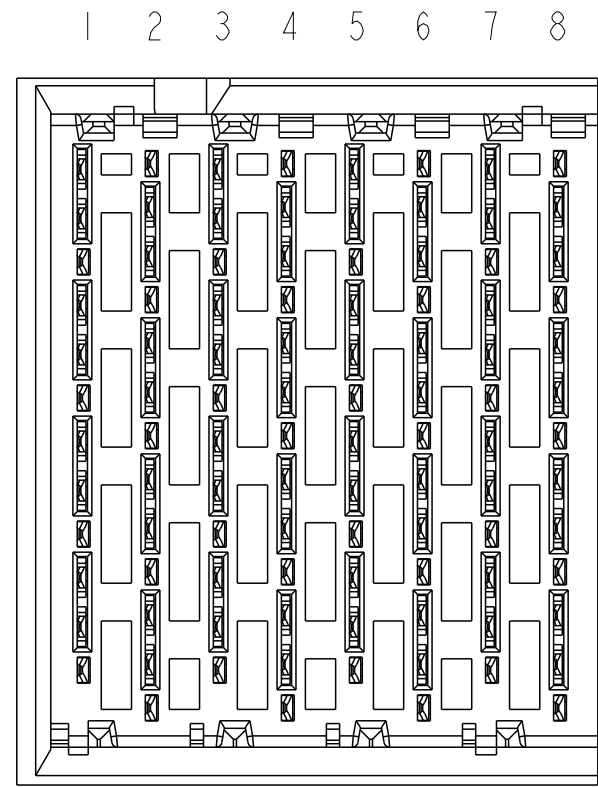
| TABLE 2 (SEE NOTE 12) |                                                        |                 |
|-----------------------|--------------------------------------------------------|-----------------|
| SCREW P/N             | DESCRIPTION                                            | BOARD THICKNESS |
| 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                                                                                 |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |
| ISO 406                                                                                       |          |                                       |       |
| ISO 1101                                                                                      |          |                                       |       |
| surface  | linear   | 0.X                                   | ±0.3  |
|                                                                                               |          | 0.XX                                  | ±0.10 |
|                                                                                               |          | 0.XXX                                 | ±0.05 |
|                                                                                               | ISO 1302 | angular                               | 0°    |

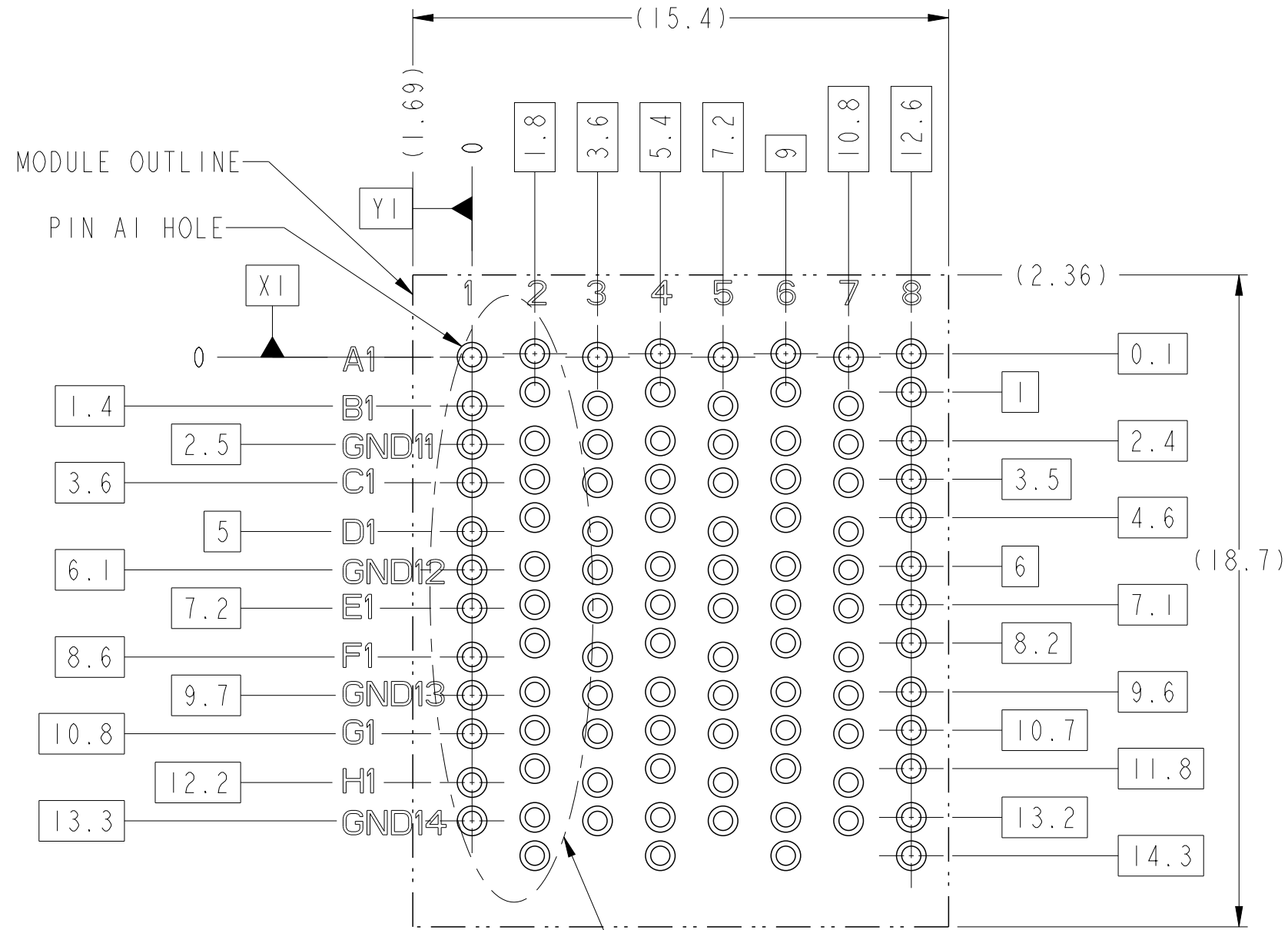
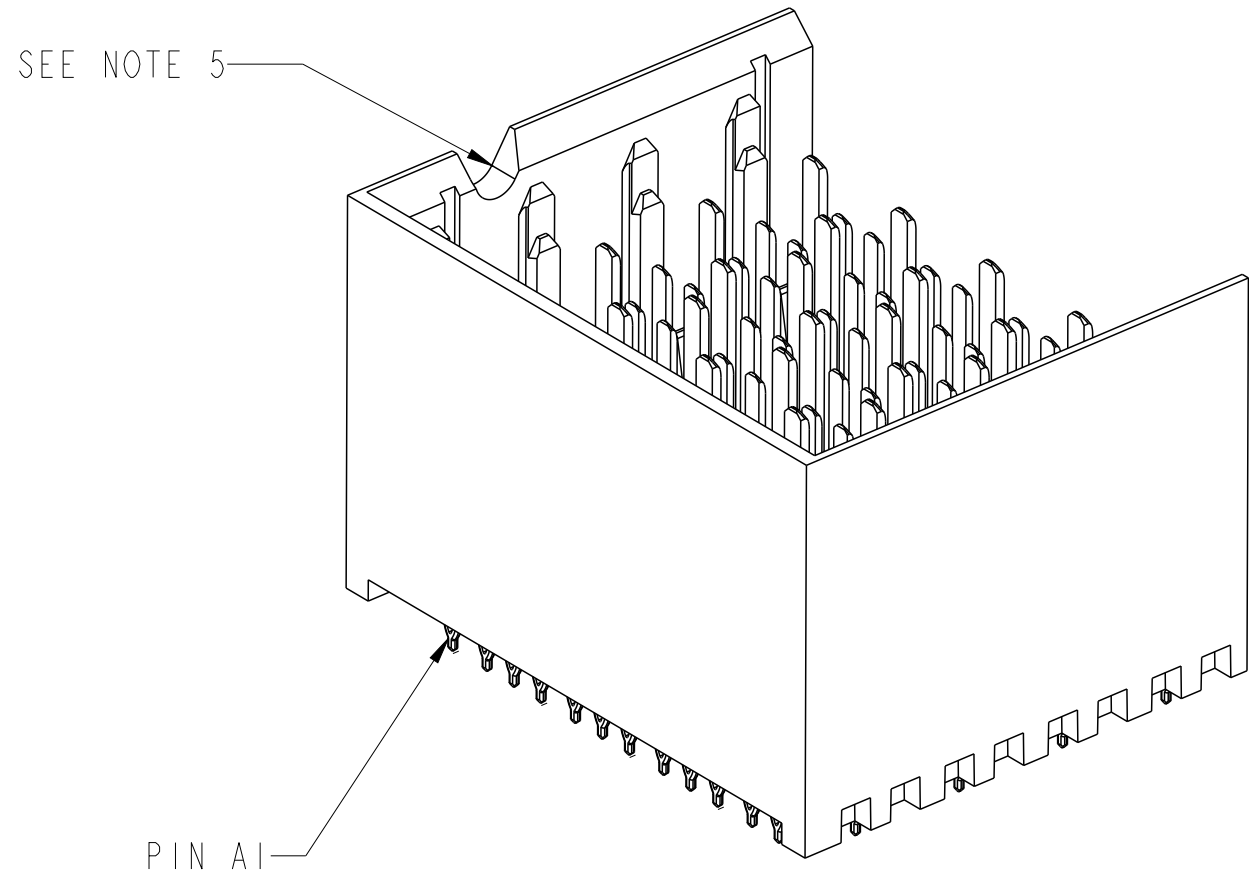
|                         |               |            |                                                                                                                        |                                                                                                                |        |                           |          |     |              |
|-------------------------|---------------|------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------|---------------------------|----------|-----|--------------|
| dr                      | Collins Lu    | 2011/07/27 | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size   | A2                        | scale    | 1:1 |              |
| eng                     | Sandar Soe    | 2016/03/07 |                                                                                                                        |                                                                                                                | ecn no | ELX-S-17624-1             |          |     |              |
| chr                     | -             | -          |                                                                                                                        |                                                                                                                |        |                           |          |     |              |
| appr                    | Chen-Hong Tan | 2016/03/17 | product family                                                                                                         |                                                                                                                | -      | rel level                 | Released |     |              |
| <div>Amphenol FCI</div> |               |            | title                                                                                                                  |                                                                                                                |        | MODULE ASSEMBLY, XCEDE HD |          |     | rev          |
|                         |               |            | Veritcal Header, 4 Pair 8 Column                                                                                       |                                                                                                                |        | 10115091                  |          |     | E            |
| <div>www.fci.com</div>  |               |            | cat. no.                                                                                                               |                                                                                                                | -      | Product - Customer Drw    |          |     | sheet 1 of 8 |

A  
B  
C  
D  
E  
F

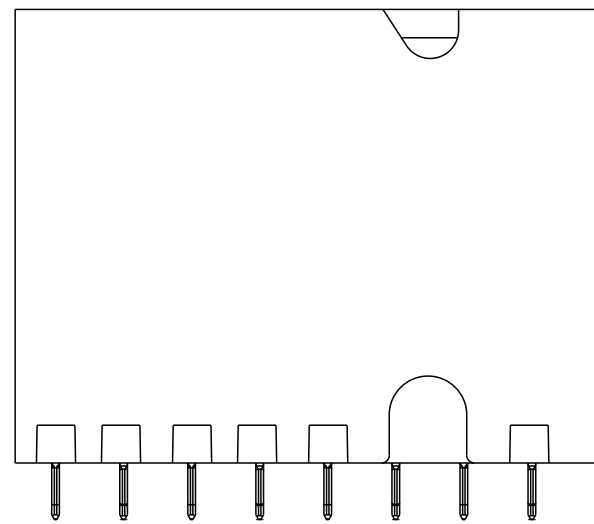
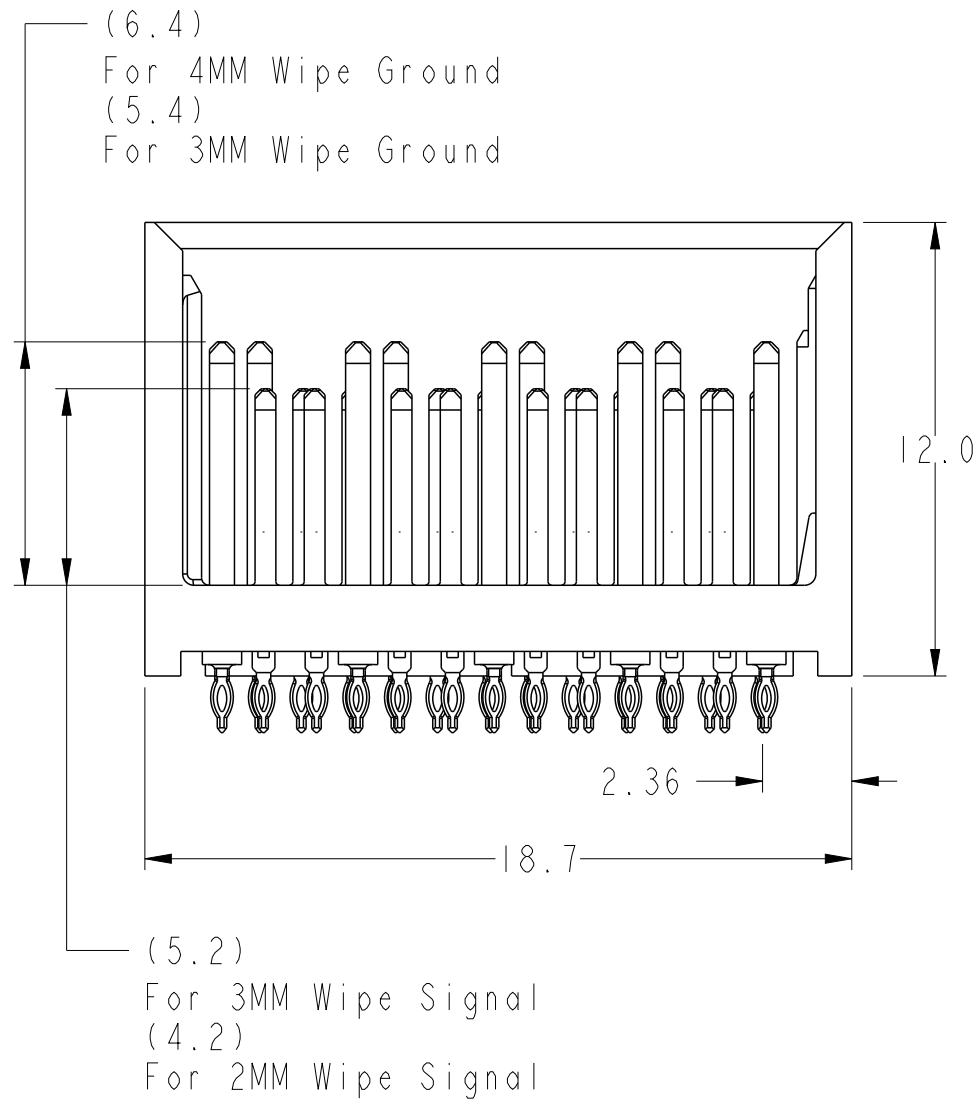
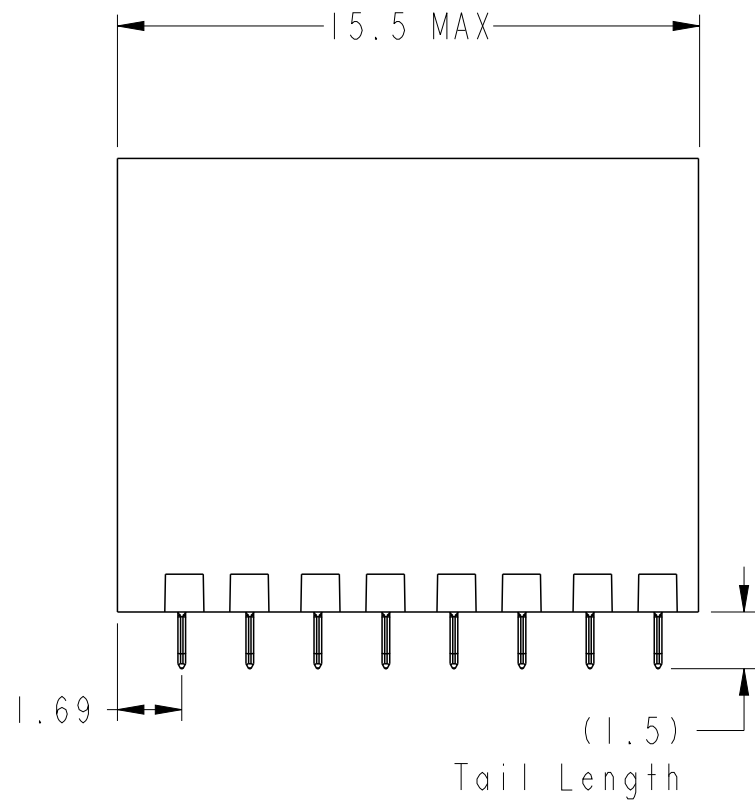




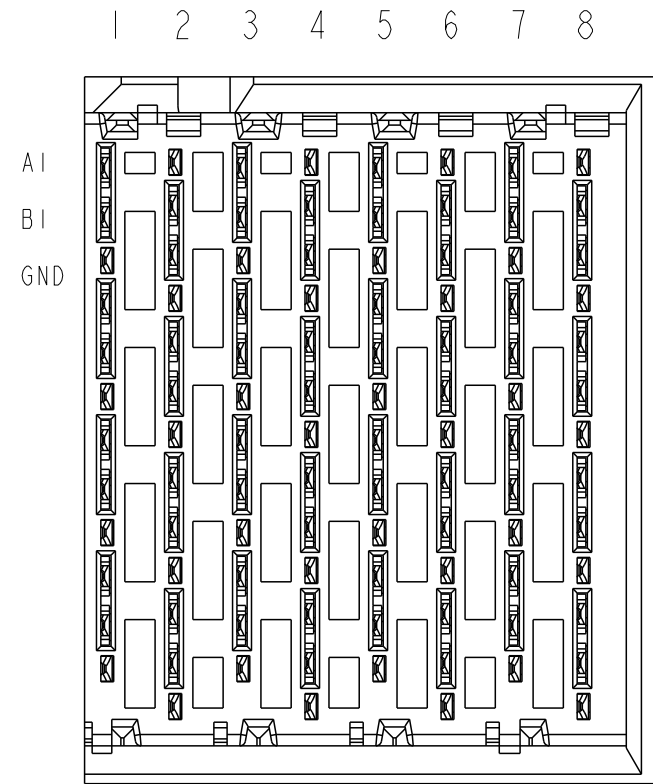
LEFT WALL MODULE



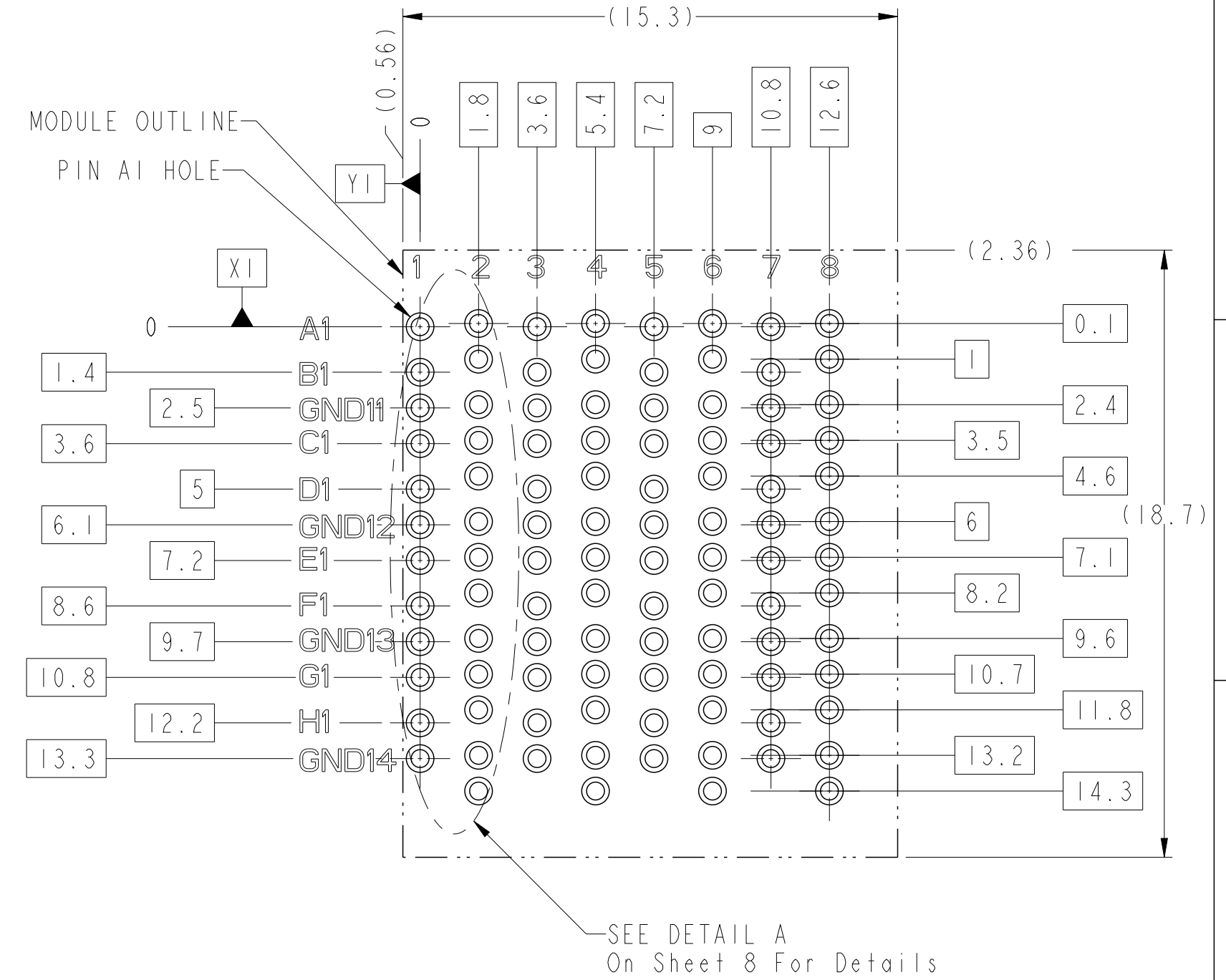
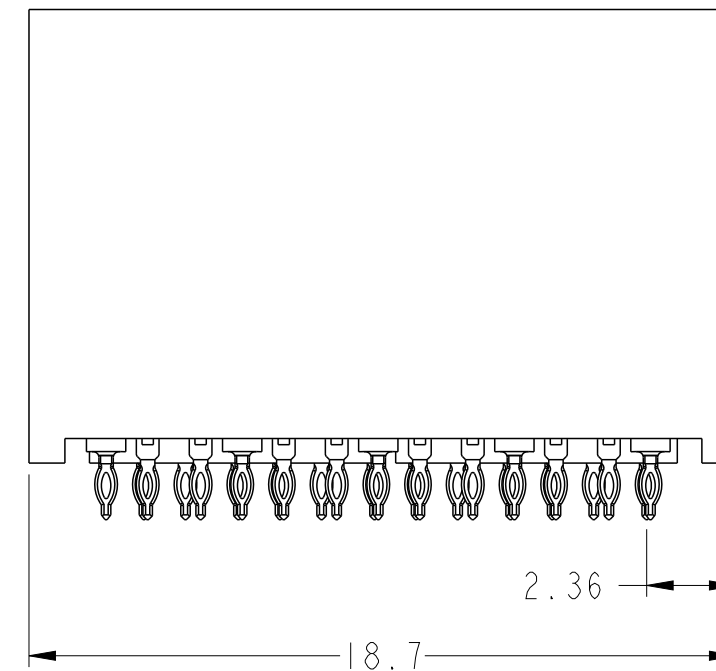
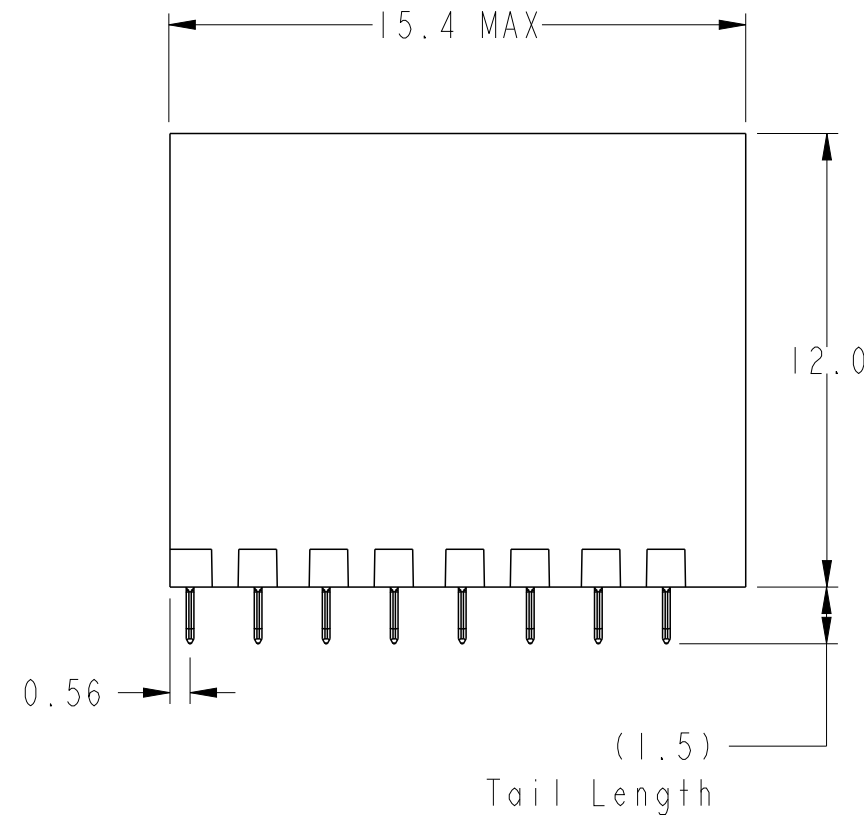
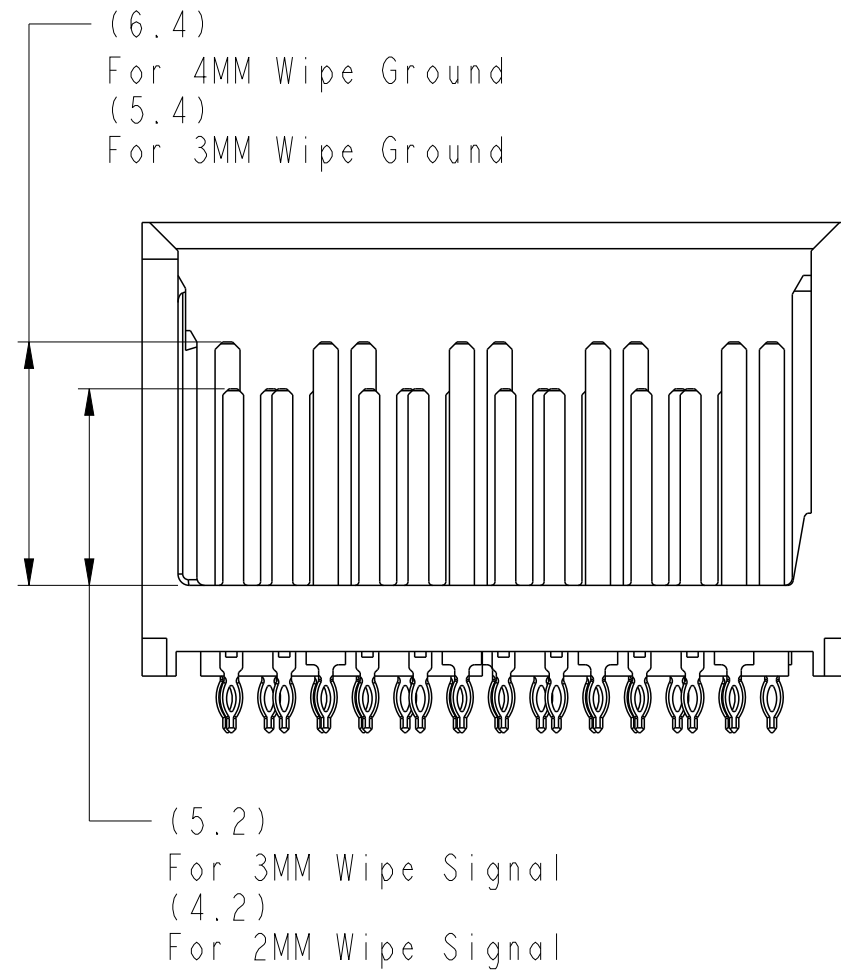
BP HOLE PATTERN COMPONENT SIDE  
LEFT WALL MODULE BACKPLANE FOOTPRINT



|               |                     |        |                                       |            |            |                                |        |                                                               |              |                        |
|---------------|---------------------|--------|---------------------------------------|------------|------------|--------------------------------|--------|---------------------------------------------------------------|--------------|------------------------|
| spec ref      | -                   | dr     | Collins Lu                            | 2011/07/27 | projection | mm                             | size   | A2                                                            | scale        | 1:1                    |
| tolerance std | ISO 406<br>ISO 1101 | eng    | Sandar Soe                            | 2016/03/07 | chr        | -                              | ecn no | ELX-S-17624-1                                                 | rel level    | Released               |
| surface       | ISO 1302            | linear | 0.X ±0.3<br>0.XX ±0.10<br>0.XXX ±0.05 | angular    | 0° ±2°     | Amphenol<br>FCi<br>www.fci.com | title  | MODULE ASSEMBLY, XCEDE HD<br>Veritcal Header, 4 Pair 8 Column | cat. no.     | Product - Customer Drw |
|               |                     |        |                                       |            |            |                                | dwg no | 10115091                                                      | rev          | E                      |
|               |                     |        |                                       |            |            |                                |        |                                                               | sheet 3 of 8 |                        |

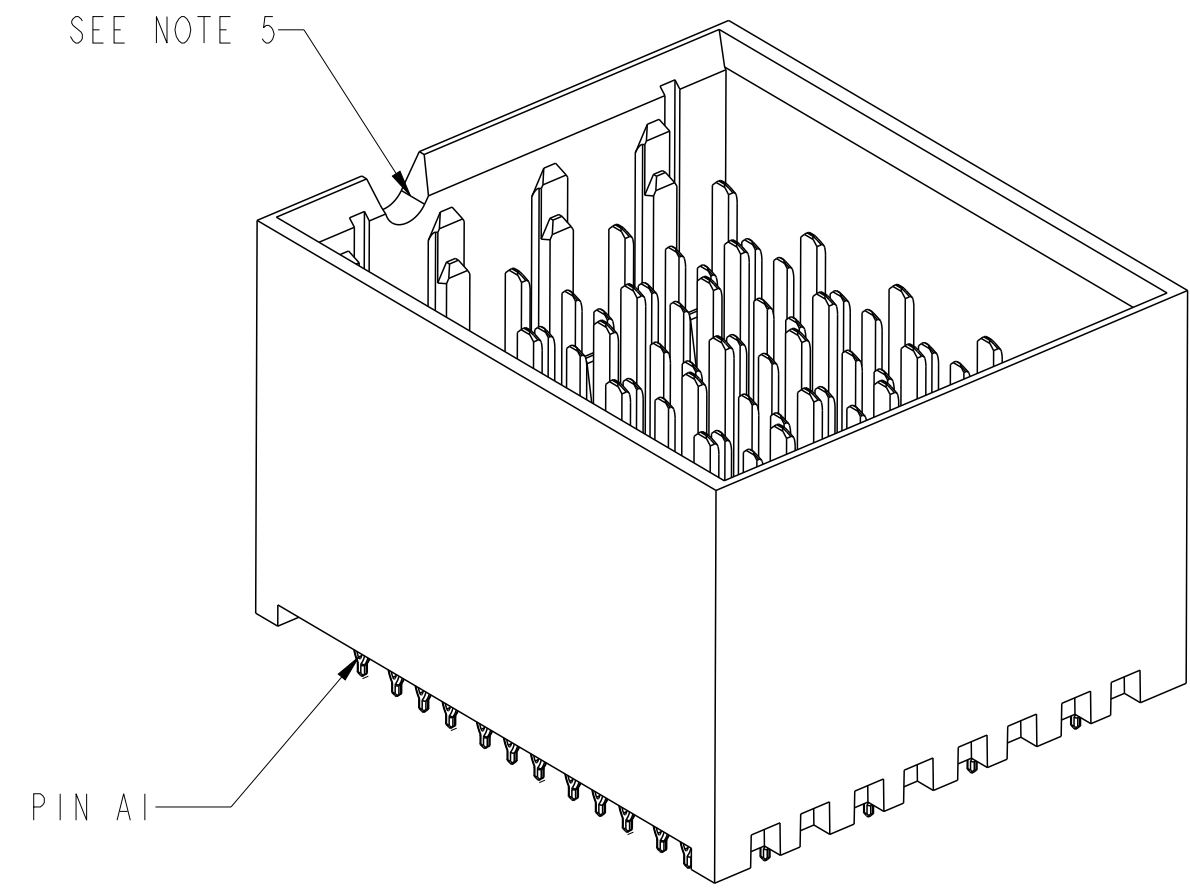


RIGHT WALL MODULE



BP HOLE PATTERN COMPONENT SIDE  
RIGHT WALL MODULE BACKPLANE FOOTPRINT

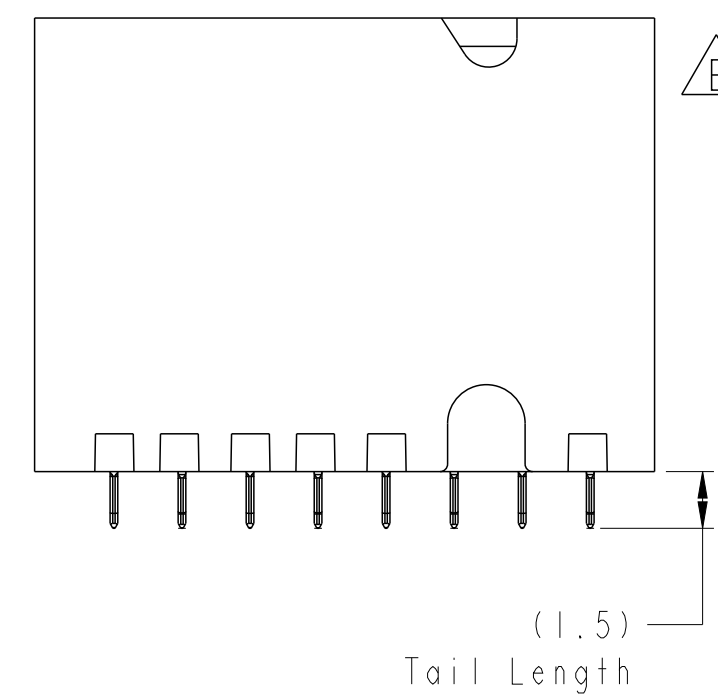
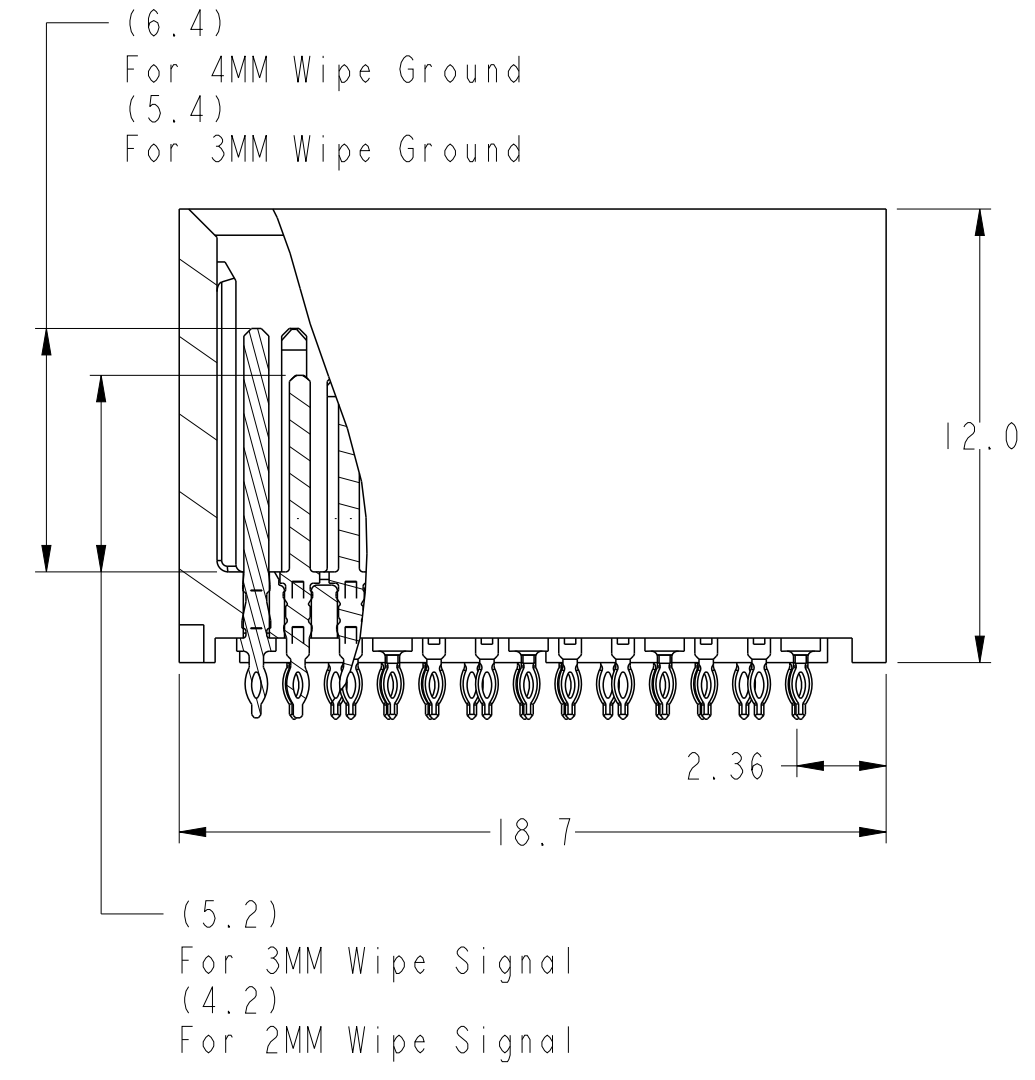
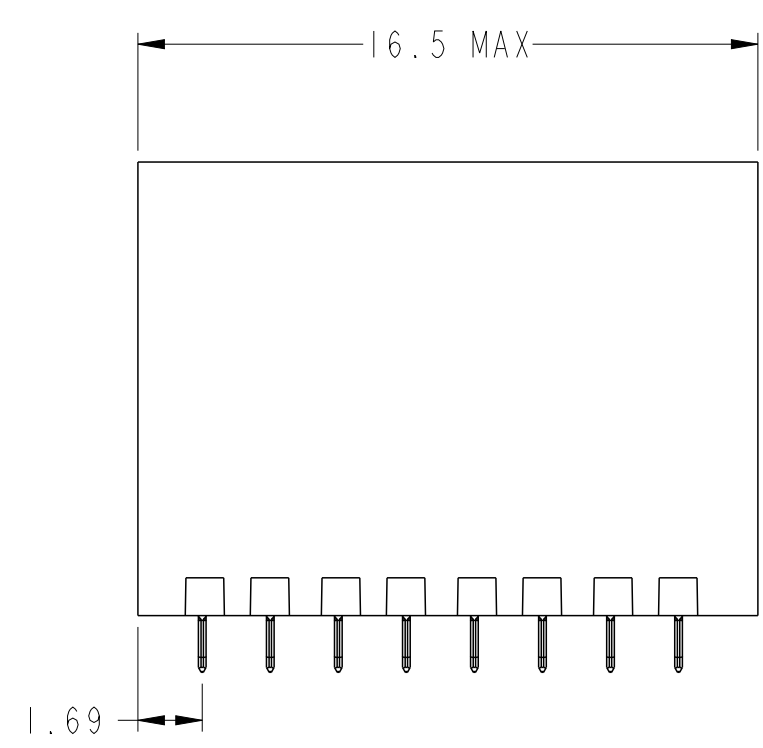
|               |                                       |         |               |                                |                |                                                               |          |               |                        |              |
|---------------|---------------------------------------|---------|---------------|--------------------------------|----------------|---------------------------------------------------------------|----------|---------------|------------------------|--------------|
| spec ref      | -                                     | dr      | Collins Lu    | 2011/07/27                     | projection     | mm                                                            | size     | A2            | scale                  | 1:1          |
| tolerance std | ISO 406<br>ISO 1101                   | eng     | Sandar Soe    | 2016/03/07                     | chr            | -                                                             | ecn no   | ELX-S-17624-1 | rel level              | Released     |
| surface       | ISO 1302                              | appr    | Chen-Hong Tan | 2016/03/17                     | product family | -                                                             | cat. no. | -             | Product - Customer Drw | sheet 4 of 8 |
| linear        | 0.X ±0.3<br>0.XX ±0.10<br>0.XXX ±0.05 | angular | 0° ±2°        | Amphenol<br>FCi<br>www.fci.com | title          | MODULE ASSEMBLY, XCEDE HD<br>Veritcal Header, 4 Pair 8 Column | dwg no   | 10115091      | rev                    | E            |



△ FOUR WALL MODULE

BP HOLE PATTERN COMPONENT SIDE

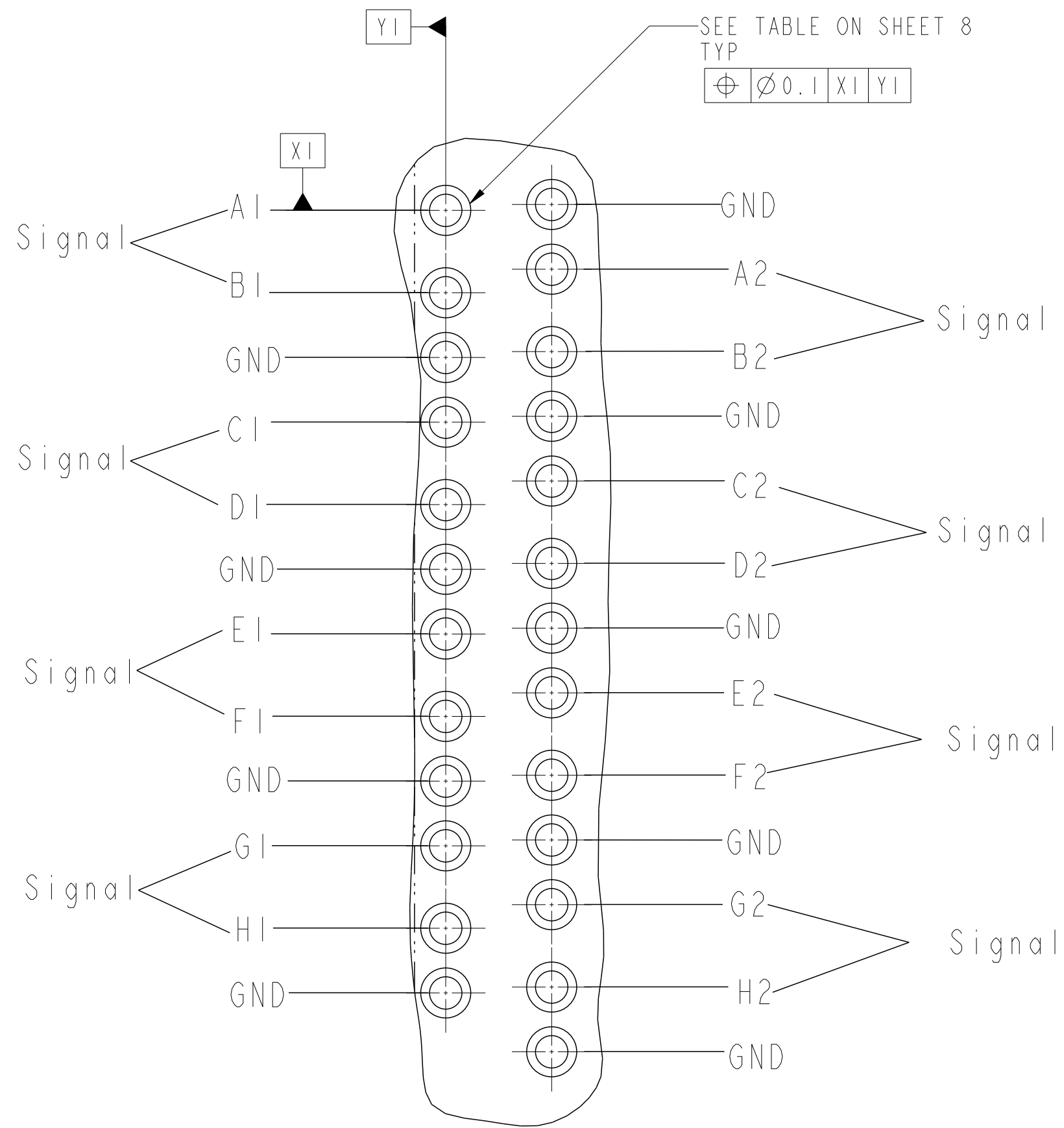
△ FOUR WALL MODULE BACKPLANE FOOTPRINT



|                                       |                     |        |               |            |                |         |          |               |           |          |
|---------------------------------------|---------------------|--------|---------------|------------|----------------|---------|----------|---------------|-----------|----------|
| spec ref                              | -                   | dr     | Collins Lu    | 2011/07/27 | projection     | mm      | size     | A2            | scale     | 1:1      |
| tolerance std                         | ISO 406<br>ISO 1101 | eng    | Sandar Soe    | 2016/03/07 | chr            | -       | ecn no   | ELX-S-17624-1 | rel level | Released |
| surface                               | ISO 1302            | appr   | Chen-Hong Tan | 2016/03/17 | product family | -       | cat. no. | 10115091      | rev       | E        |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                     | linear |               | 0.X        | ±0.3           | angular |          | 0°            | ±2°       |          |
|                                       |                     |        |               | 0.XX       | ±0.10          |         |          |               |           |          |
|                                       |                     |        |               | 0.XXX      | ±0.05          |         |          |               |           |          |







DETAIL A  
SCALE 12:1

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

NOTES:

- CONNECTOR MATERIALS  
SHROUD : HIGH-TEMP POLYMER, COLOR : BLACK, UL94V-0  
CONTACTS : HIGH PREFORMANCE COPPER ALLOY
- PRODUCT SPECIFICATION : GS-12-0936
- APPLICATION SPECIFICATION : GS-20-0348
- PRODUCT MARKING :  
PART NUMBER (10115091-XOE-XXXLF)  
"FCI" AND DATE CODE (FCI P#####)
- NOTCH DESIGNATES "ROW A" SIDE OF CONNECTOR. NOTCH FEATURE ON OPPOSITE FOR PRODUCT MARKING.
- PLATING THICKNESS OF SIGNAL & GROUND CONTACT ARE DETERMINED BY PLATING CODE, REFER TO P/N TREE ON SHEET 1.
- 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      |  | Collins Lu    |  | 2011/07/27 |  | projection     |  |  |  | mm                        |  | size                   |  | A2            |  | scale     |  | 1:1      |  |
| tolerance std |  | ISO 406                                                                               |  | eng     |  | Sandar Soe    |  | 2016/03/07 |  | chr            |  | -                                                                                     |  | -                         |  | ecn no                 |  | ELX-S-17624-1 |  | rel level |  | Released |  |
| ISO 1101      |  | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                 |  | appr    |  | Chen-Hong Tan |  | 2016/03/17 |  | product family |  |                                                                                       |  |                           |  |                        |  |               |  |           |  |          |  |
| surface       |  |  |  | linear  |  | 0.X           |  | ±0.3       |  | Amphenol FCI   |  | title                                                                                 |  | MODULE ASSEMBLY, XCEDE HD |  | dwg no                 |  | 10115091      |  | rev       |  | E        |  |
|               |  |                                                                                       |  |         |  | 0.XX          |  | ±0.10      |  | www.fci.com    |  | cat. no.                                                                              |  | -                         |  | Product - Customer Drw |  | sheet 8 of 8  |  |           |  |          |  |
| ISO 1302      |  |                                                                                       |  | angular |  | 0.XXX         |  | ±0.05      |  |                |  |                                                                                       |  |                           |  |                        |  |               |  |           |  |          |  |
|               |  |                                                                                       |  | °       |  | ±2°           |  |            |  |                |  |                                                                                       |  |                           |  |                        |  |               |  |           |  |          |  |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А