

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)                                       |   |   |   |   |   |   |   |   |   |             |

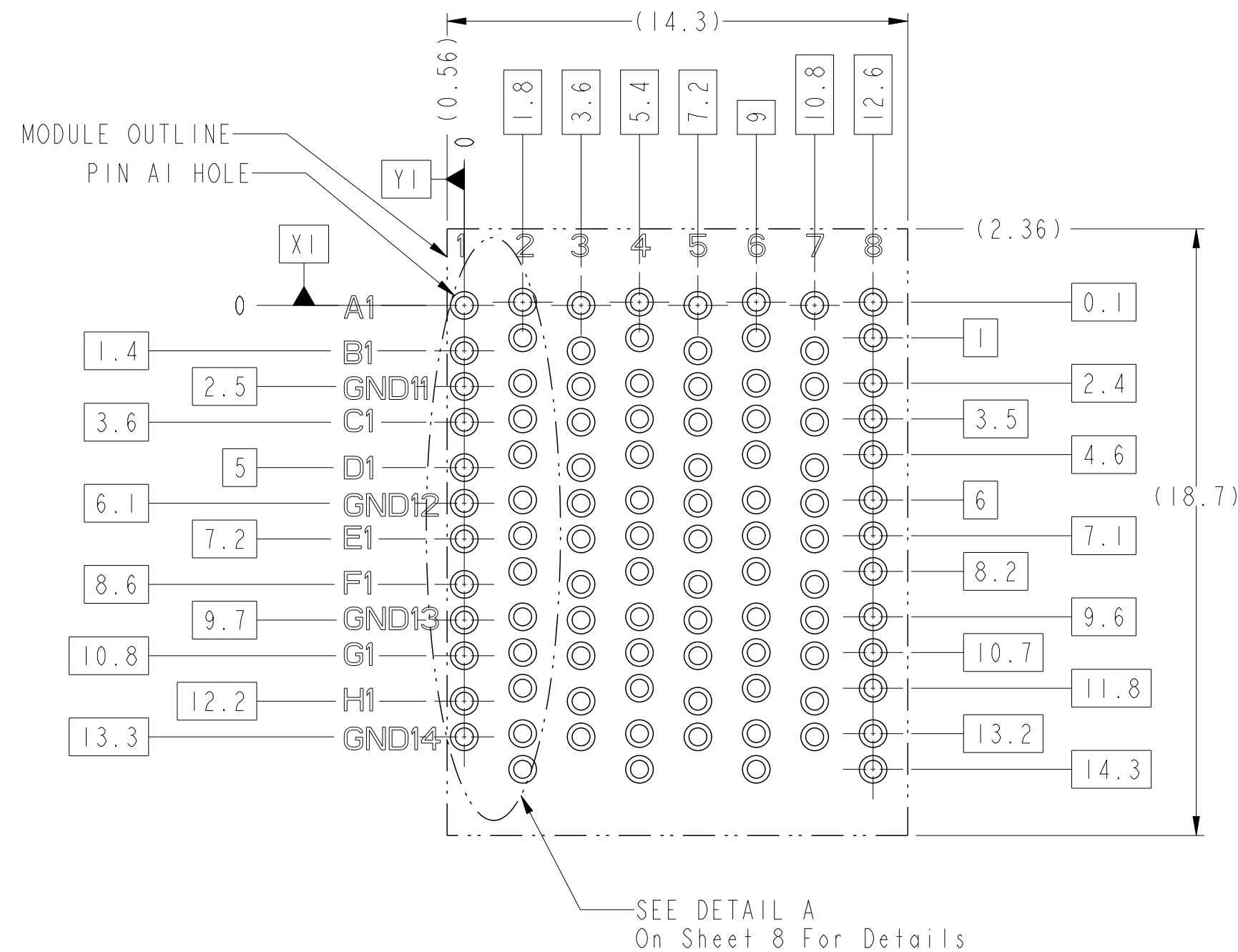
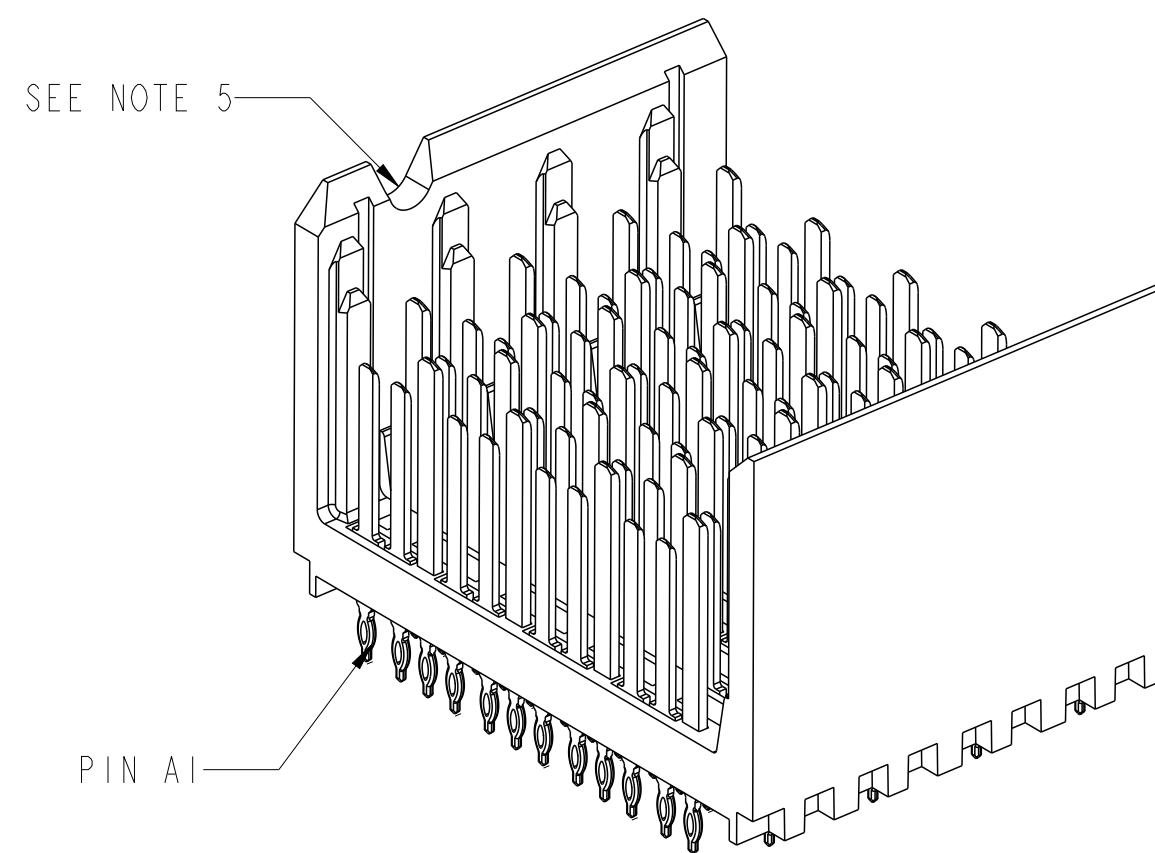
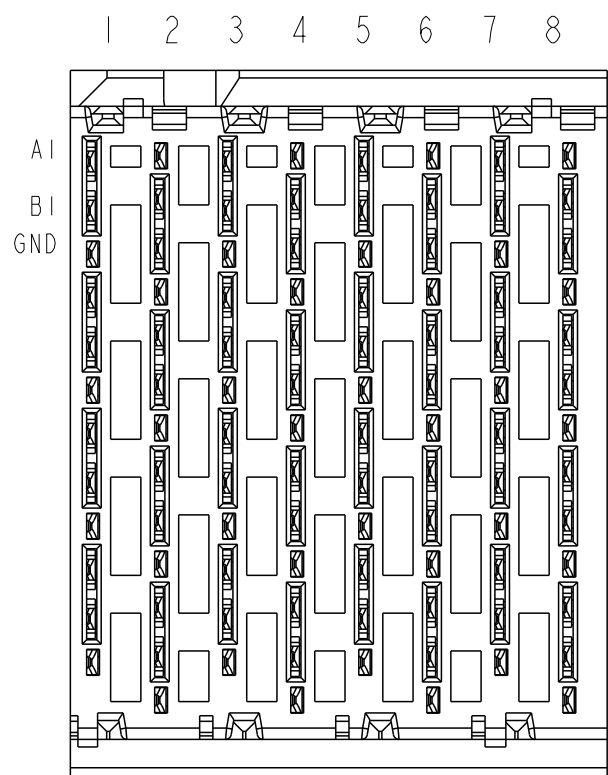
| NUMBER                                                                                                                                                                                                                 | CONTACT MATING WIPE LENGTH |        | COMPLIANT TAIL TYPE (SEE NOTE 9) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------|----------------------------------|
|                                                                                                                                                                                                                        | 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    |

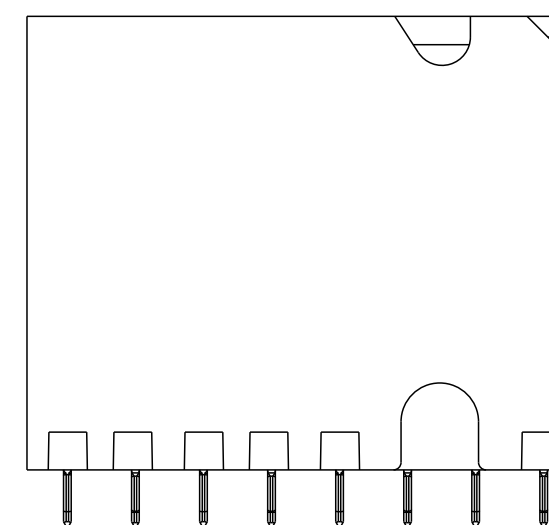
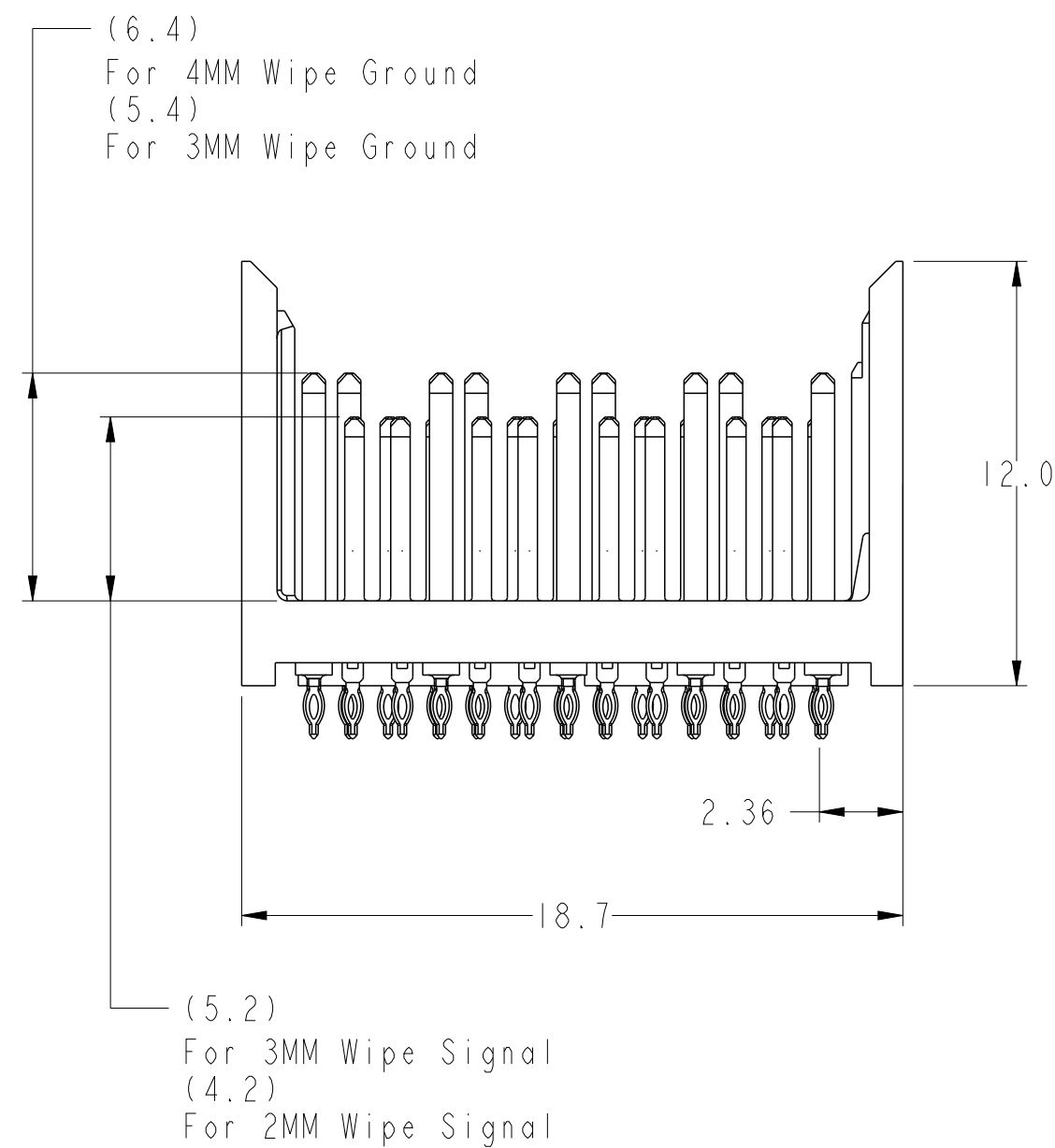
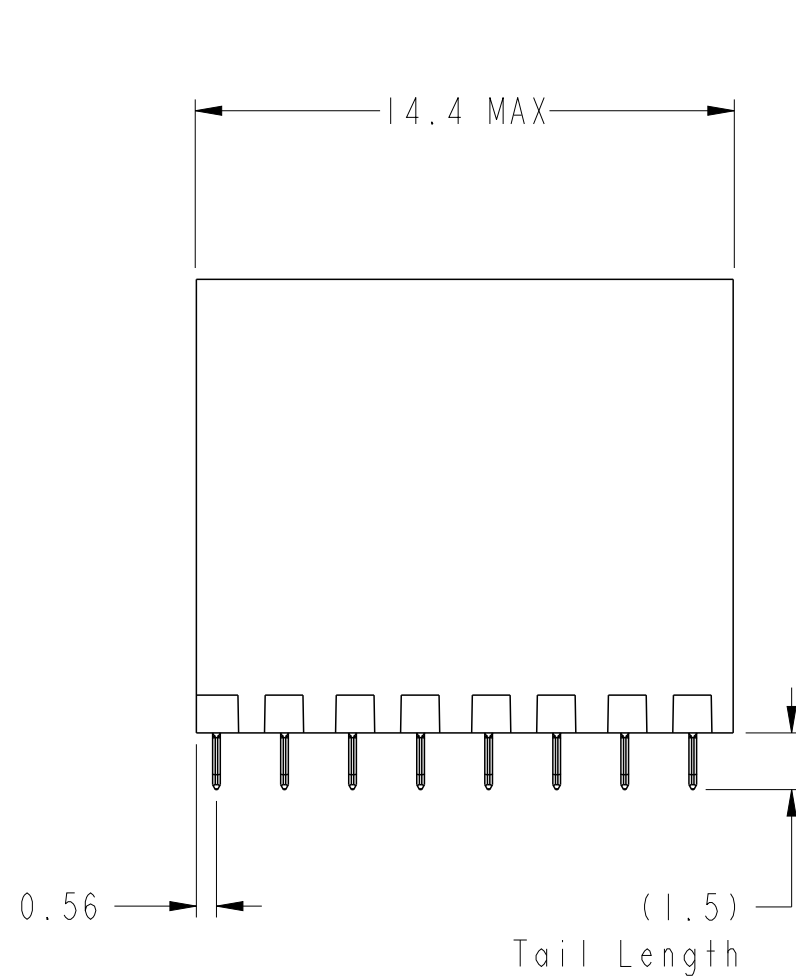
|                                                                                               |                                       |         |       |
|-----------------------------------------------------------------------------------------------|---------------------------------------|---------|-------|
| 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                | projection             |   | mm |  | size         | A2            | scale | 1:1 |
| eng                              | Sandar Soe    | 2016/03/07                |                        |   |    |  | ecn no       | ELX-S-17624-1 |       |     |
| chr                              | -             | -                         | product family         | - |    |  | rel level    | Released      |       |     |
| appr                             | Chen-Hong Tan | 2016/03/17                |                        |   |    |  |              |               |       |     |
| Amphenol FCI                     |               | MODULE ASSEMBLY, XCEDE HD |                        |   |    |  | dwg no       | 10115091      |       | 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

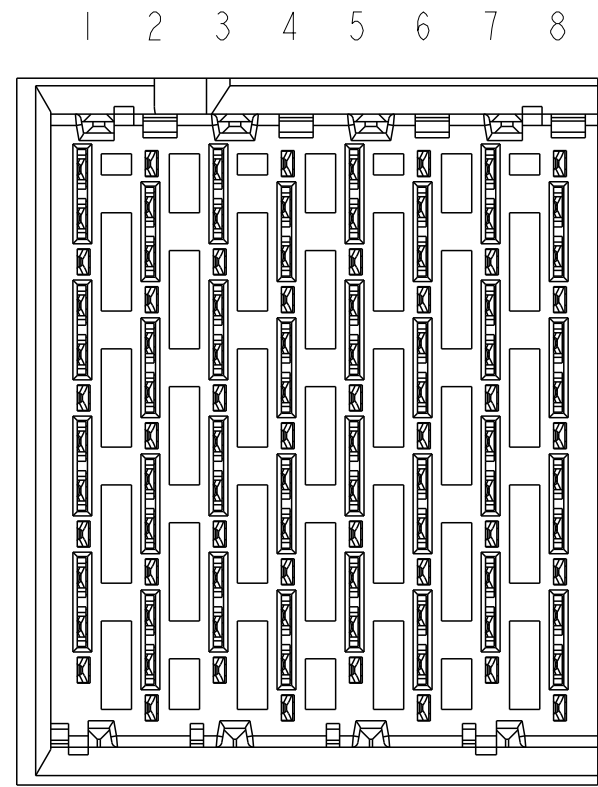


|                                       |                     |        |               |            |                |         |          |                        |              |          |
|---------------------------------------|---------------------|--------|---------------|------------|----------------|---------|----------|------------------------|--------------|----------|
| spec ref                              | -                   | dr     | 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 2 of 8 | rev      |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                     | linear |               | 0.X        | ±0.3           | angular |          | 0°                     | ±2°          |          |
|                                       |                     |        |               | 0.XX       | ±0.10          |         |          |                        |              |          |
|                                       |                     |        |               | 0.XXX      | ±0.05          |         |          |                        |              |          |

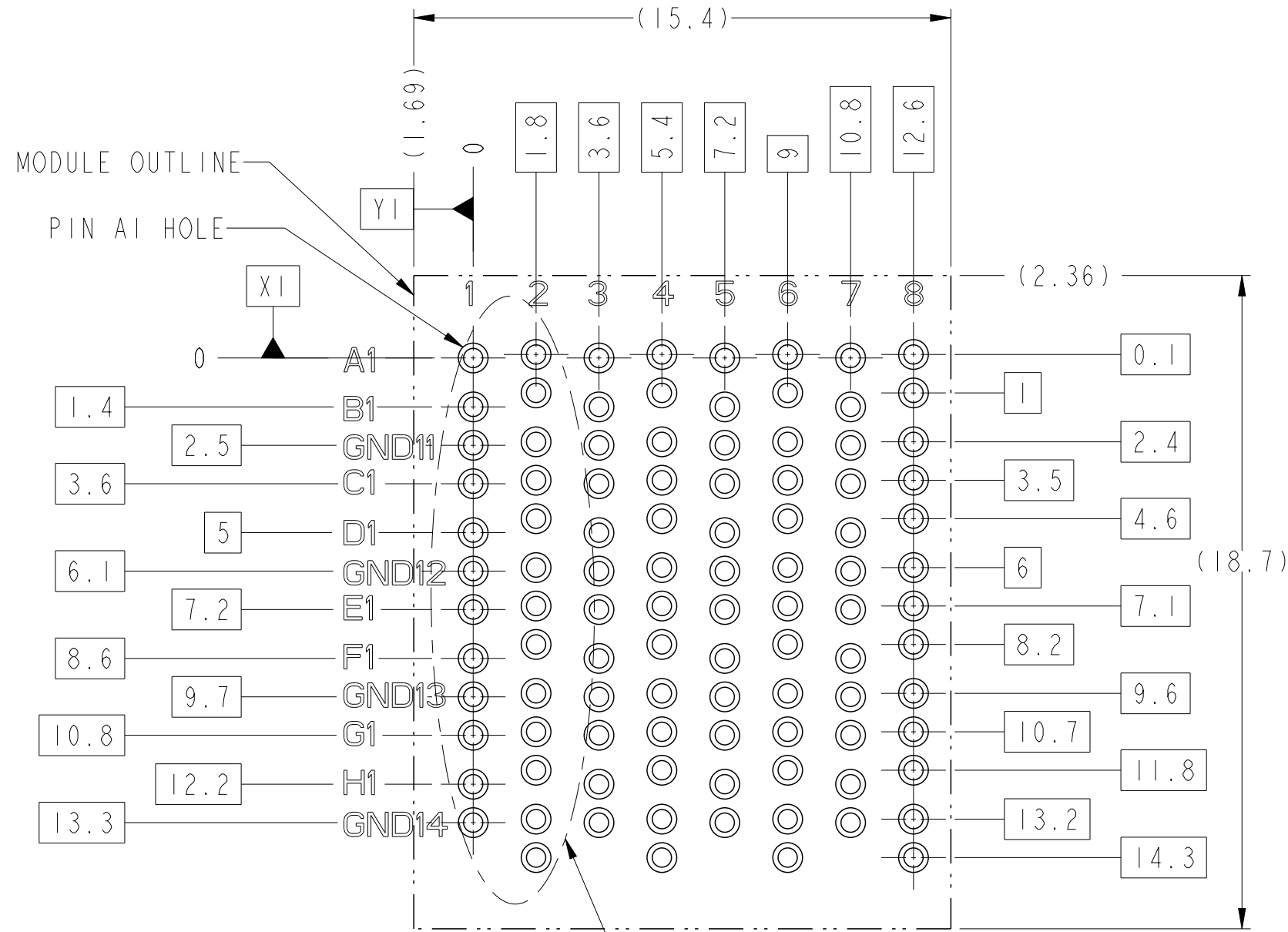
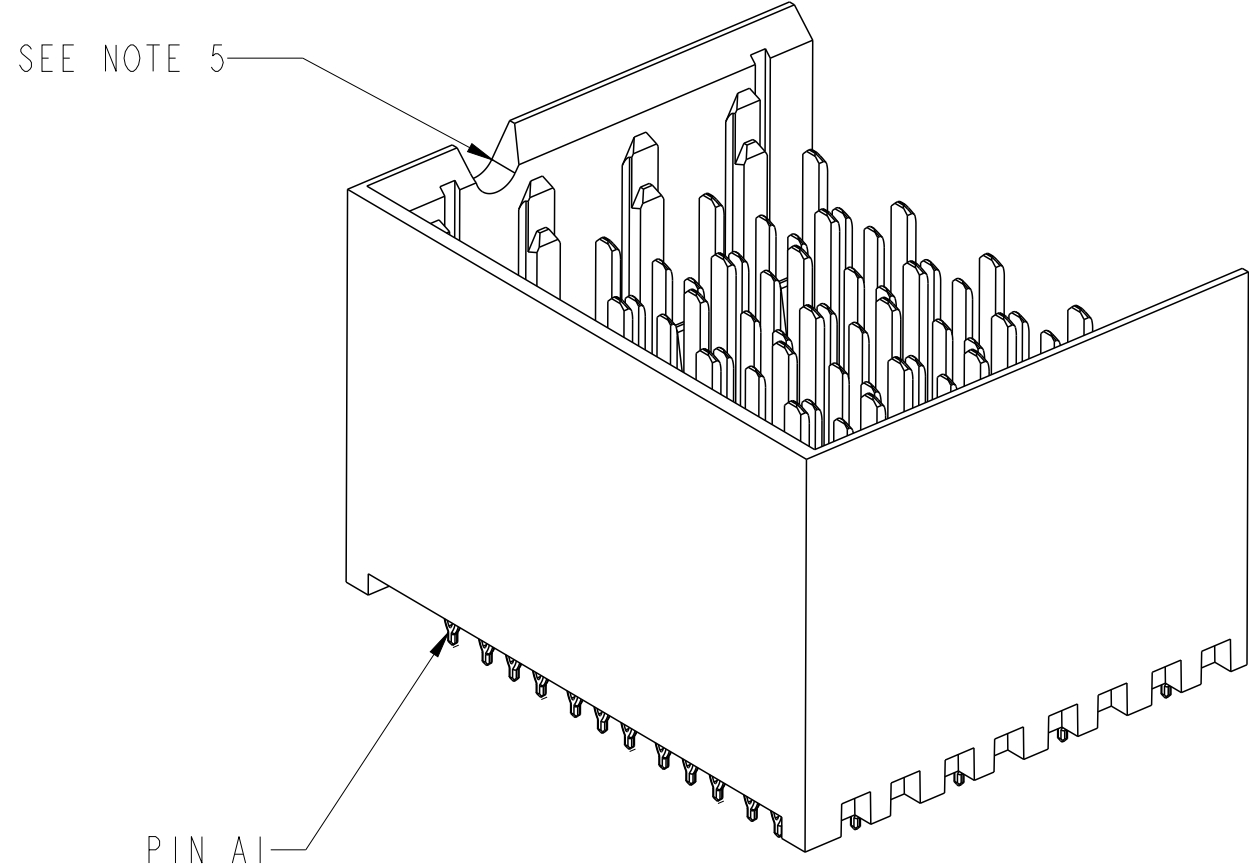
PDS: Rev :E

STATUS:Released

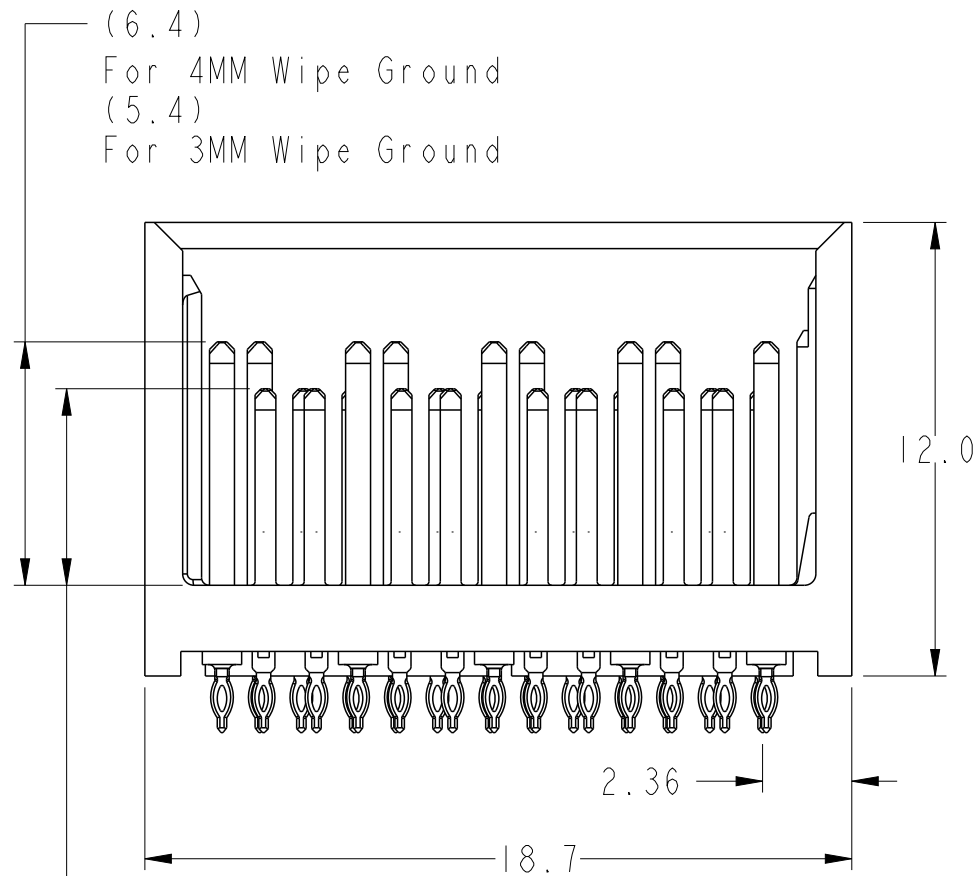
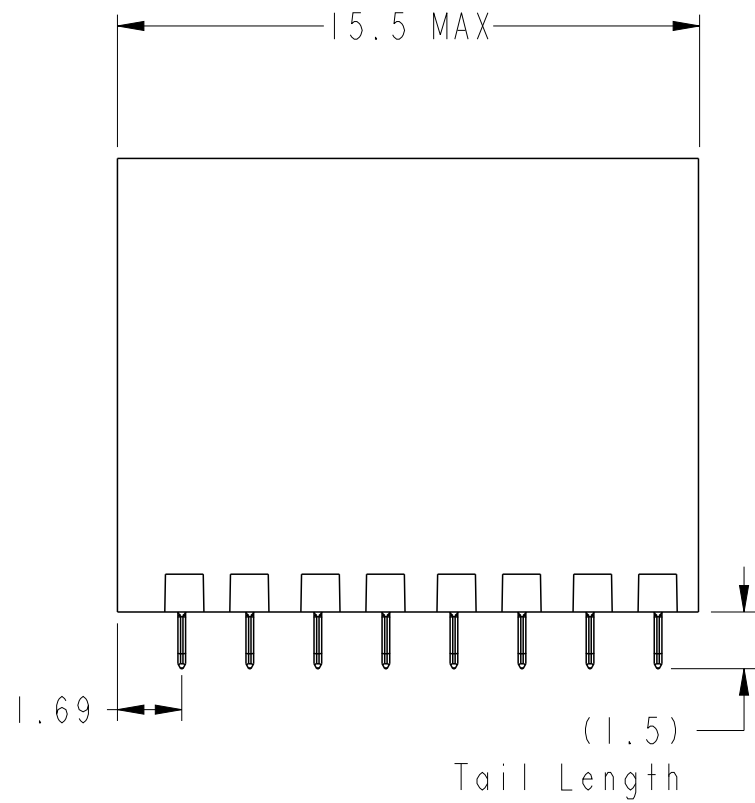
Printed: Mar 17, 2016



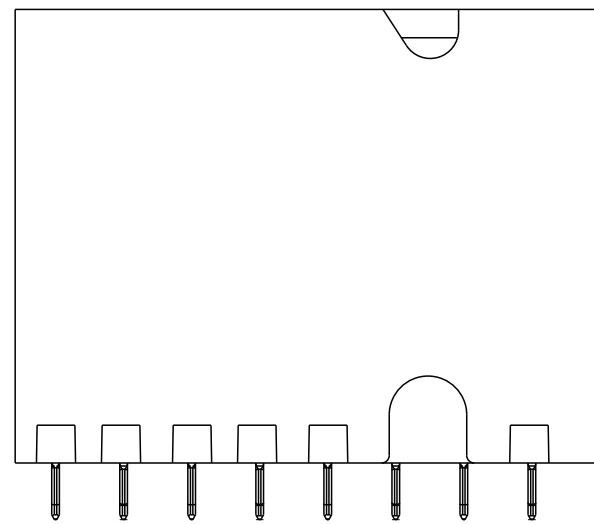
LEFT WALL MODULE



SEE DETAIL A  
On Sheet 8 For Details



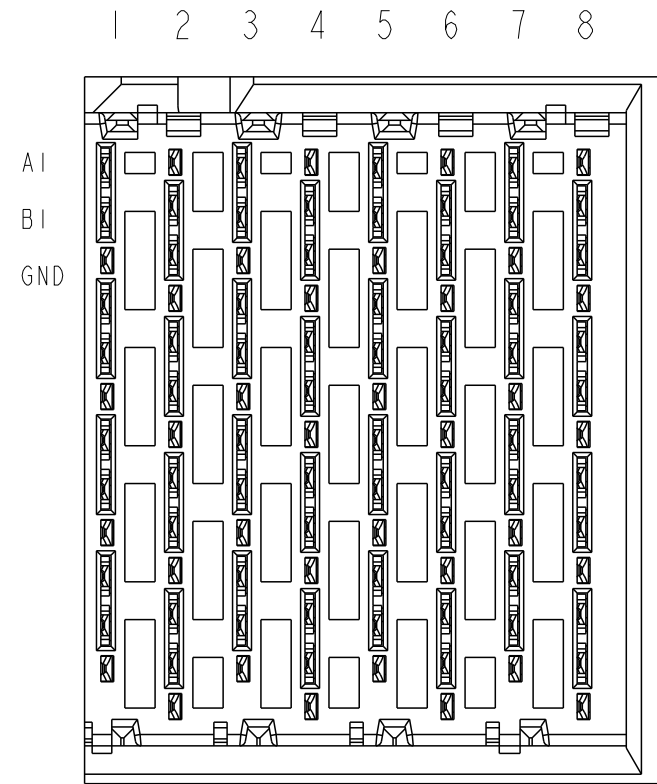
(5.2)  
For 3MM Wipe Signal  
(4.2)  
For 2MM Wipe Signal



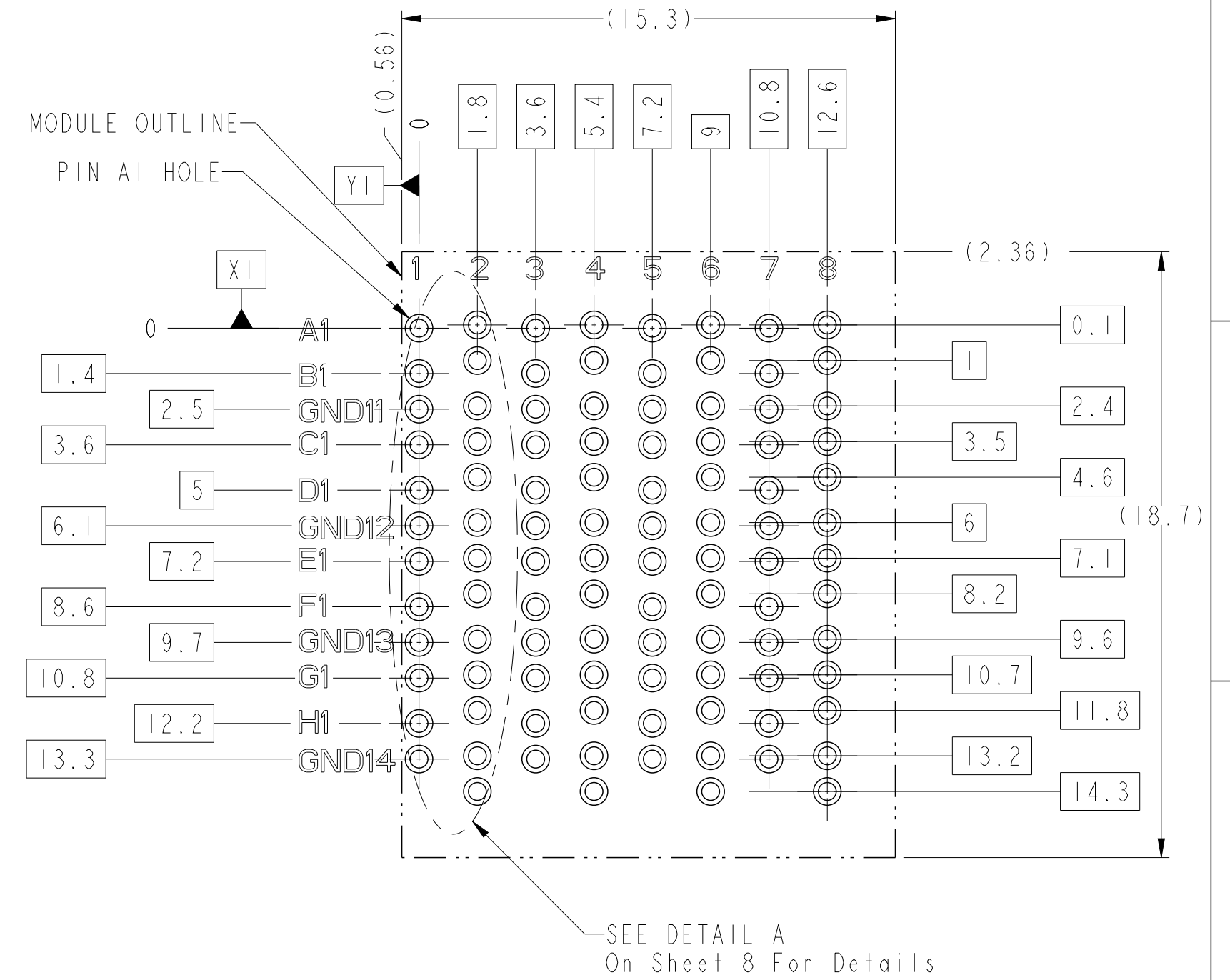
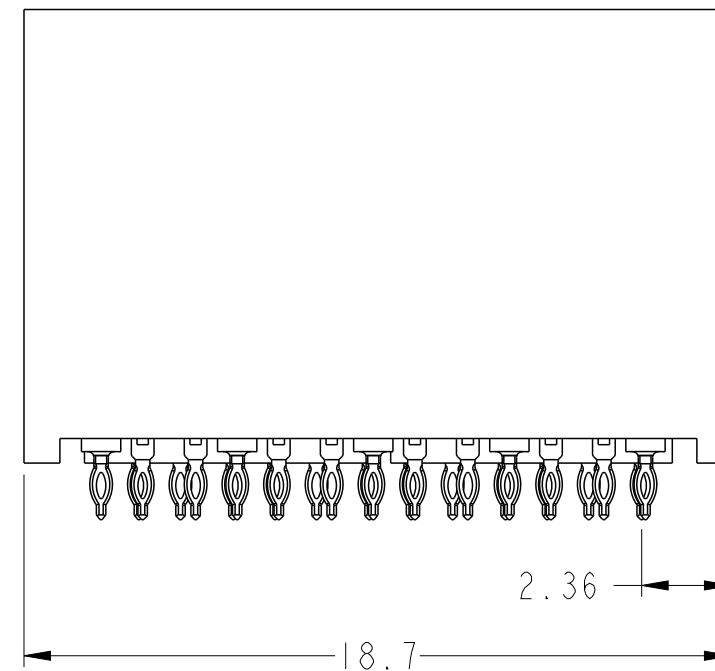
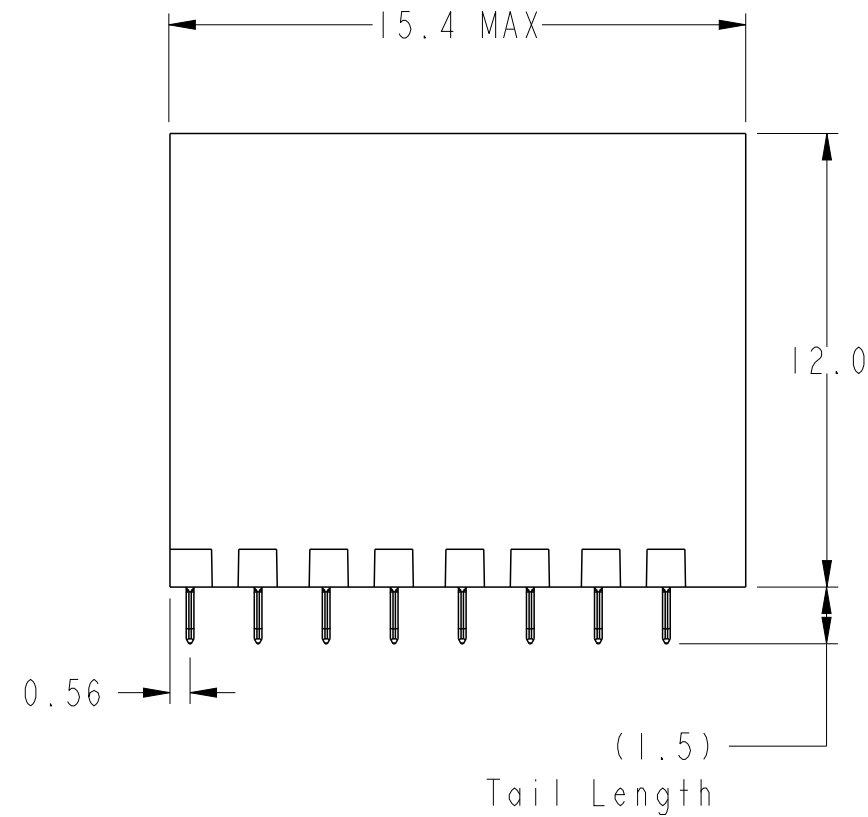
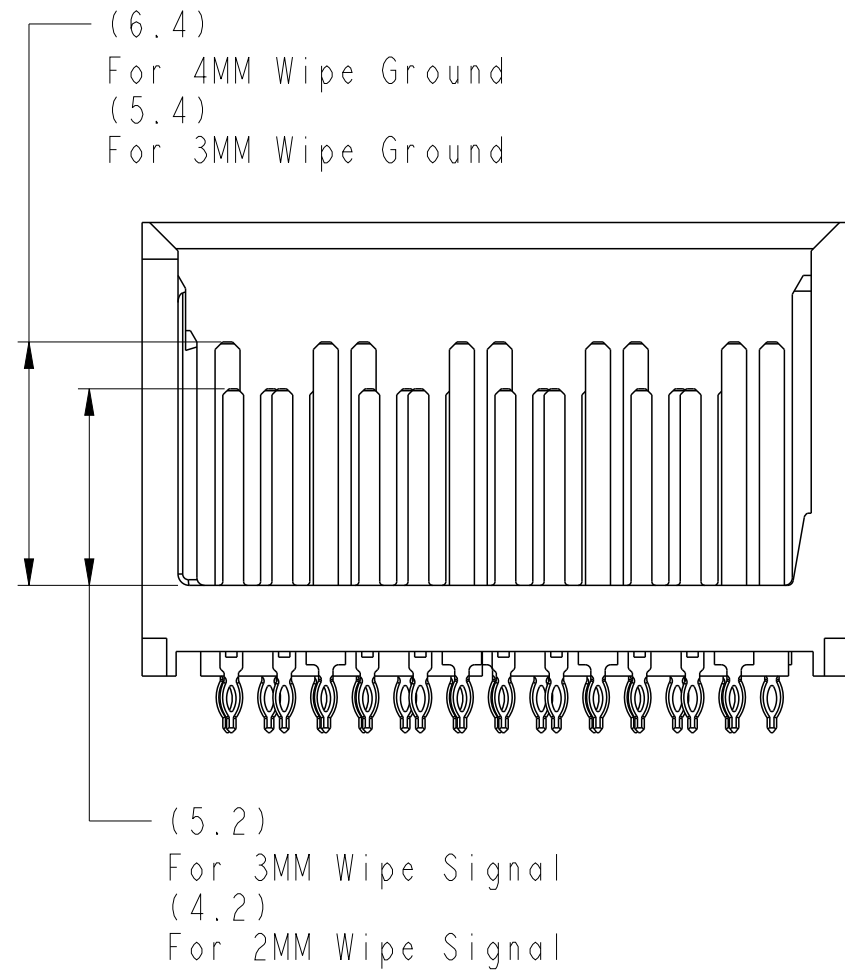
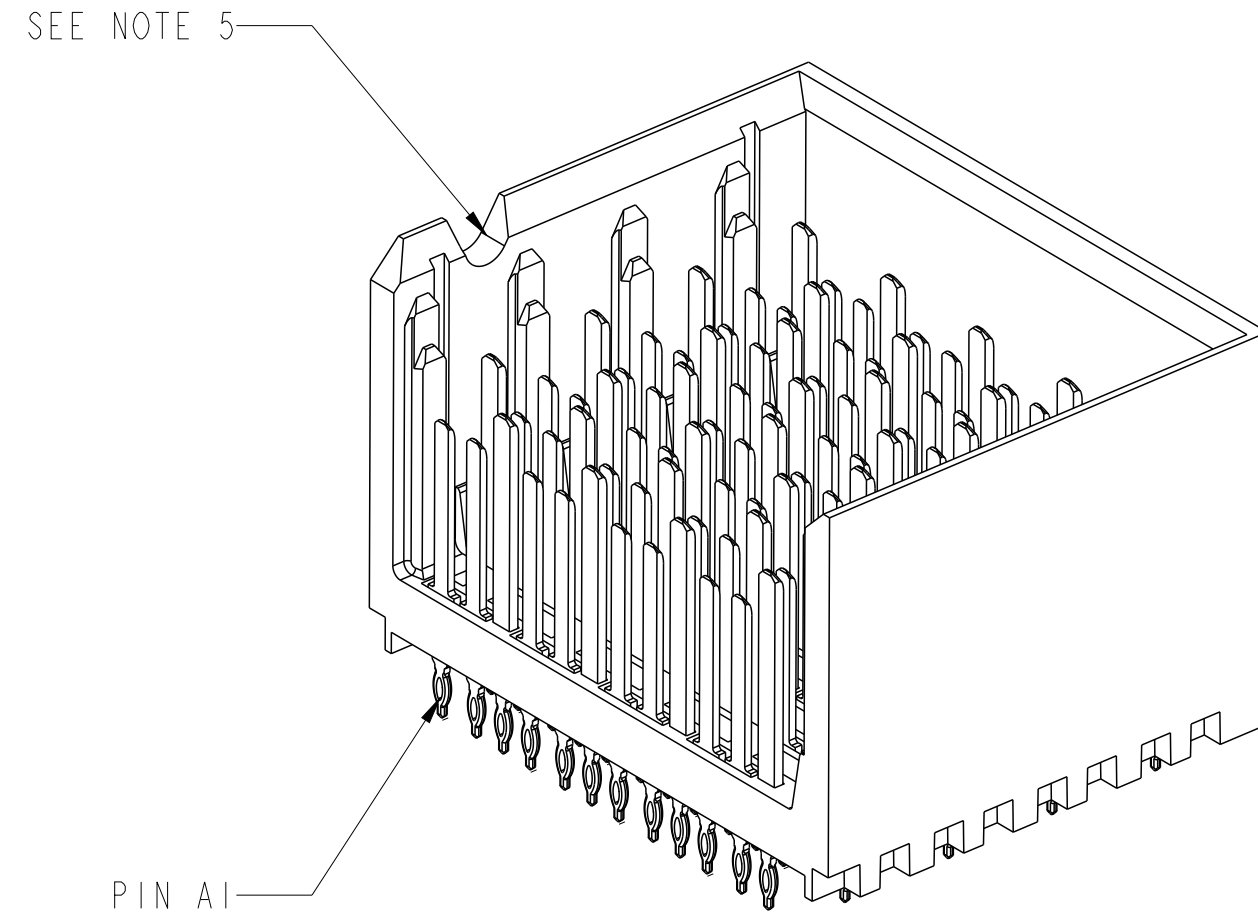
BP HOLE PATTERN COMPONENT SIDE  
LEFT WALL MODULE BACKPLANE FOOTPRINT

|               |                                       |         |               |                                |                |                                                               |          |                        |              |          |
|---------------|---------------------------------------|---------|---------------|--------------------------------|----------------|---------------------------------------------------------------|----------|------------------------|--------------|----------|
| 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                              | appr    | Chen-Hong Tan | 2016/03/17                     | product family | -                                                             | cat. no. | Product - Customer Drw | sheet 3 of 8 | rev      |
| 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        |



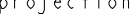


RIGHT WALL MODULE

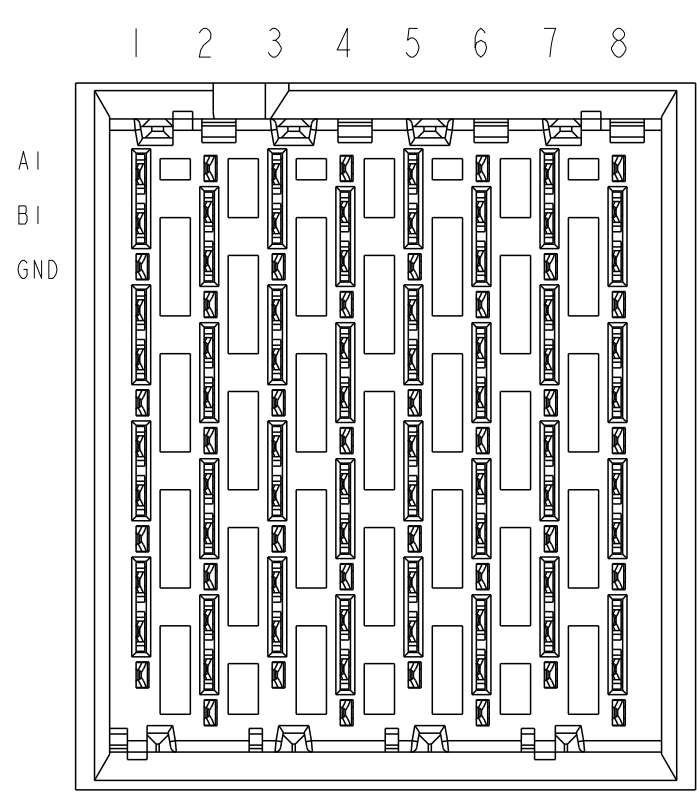


BP HOLE PATTERN COMPONENT SIDE

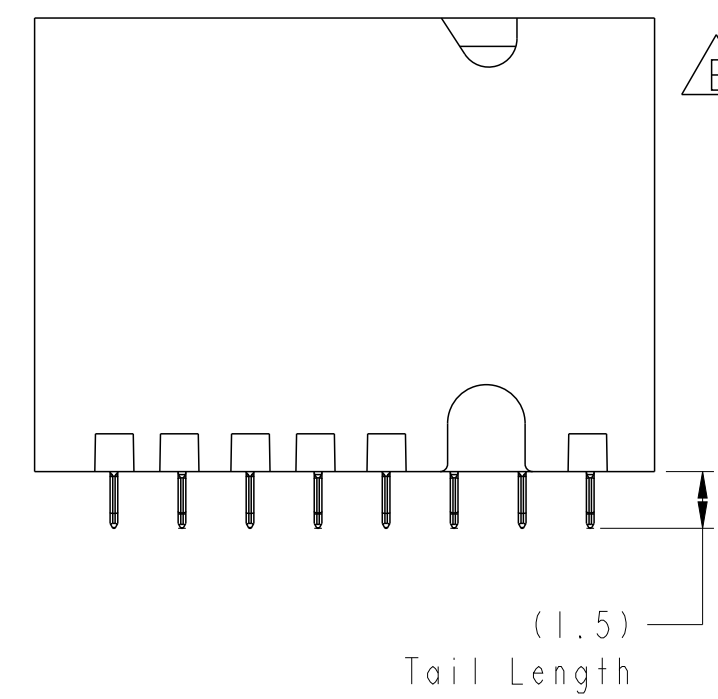
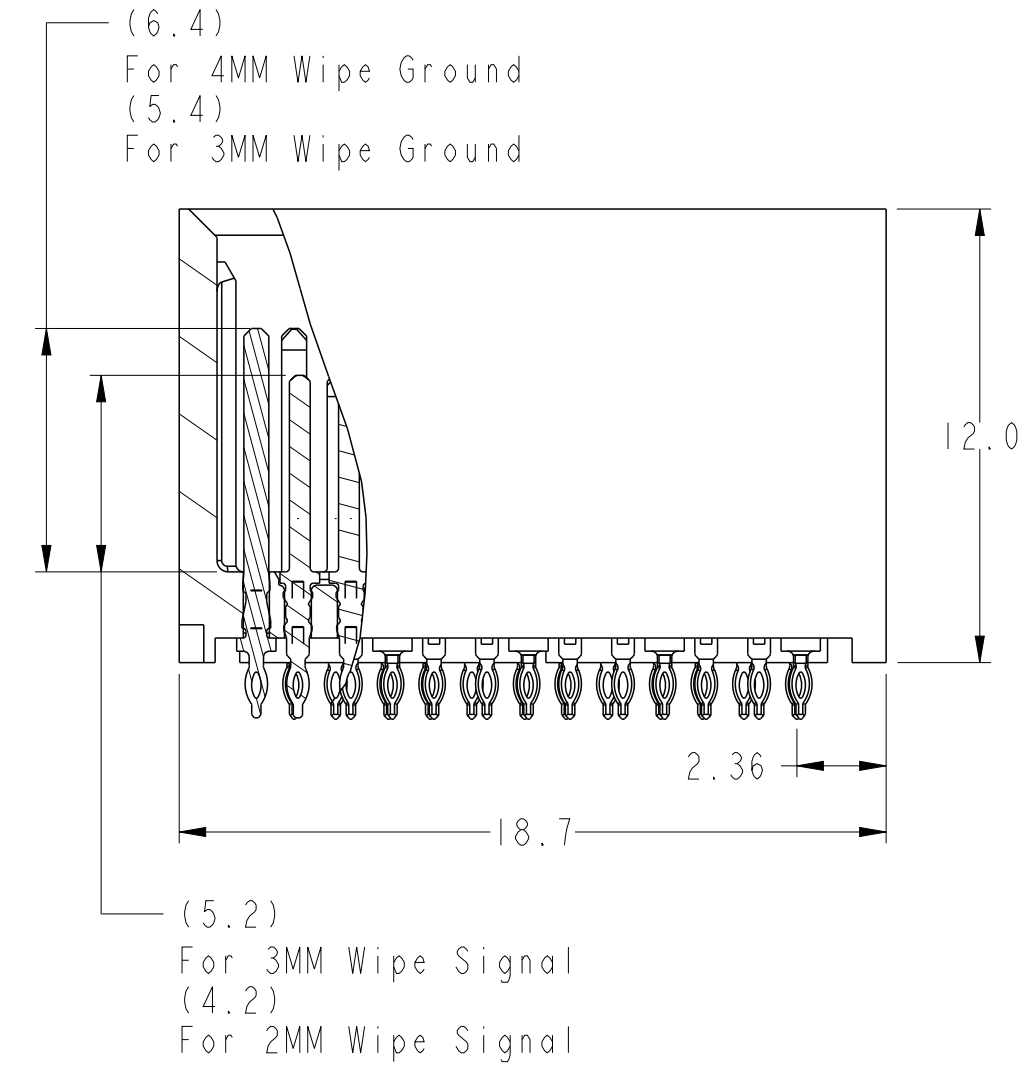
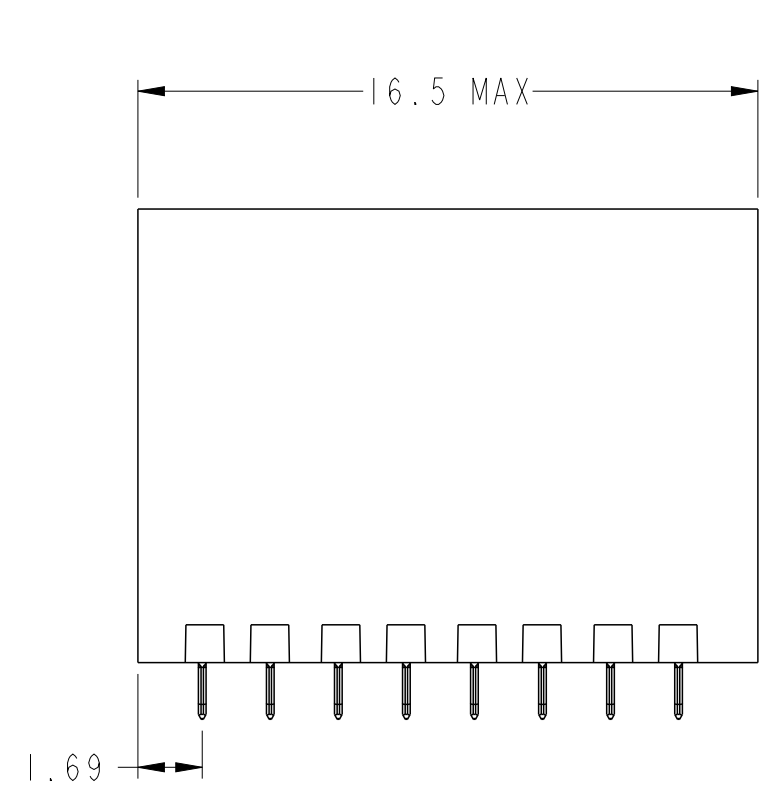
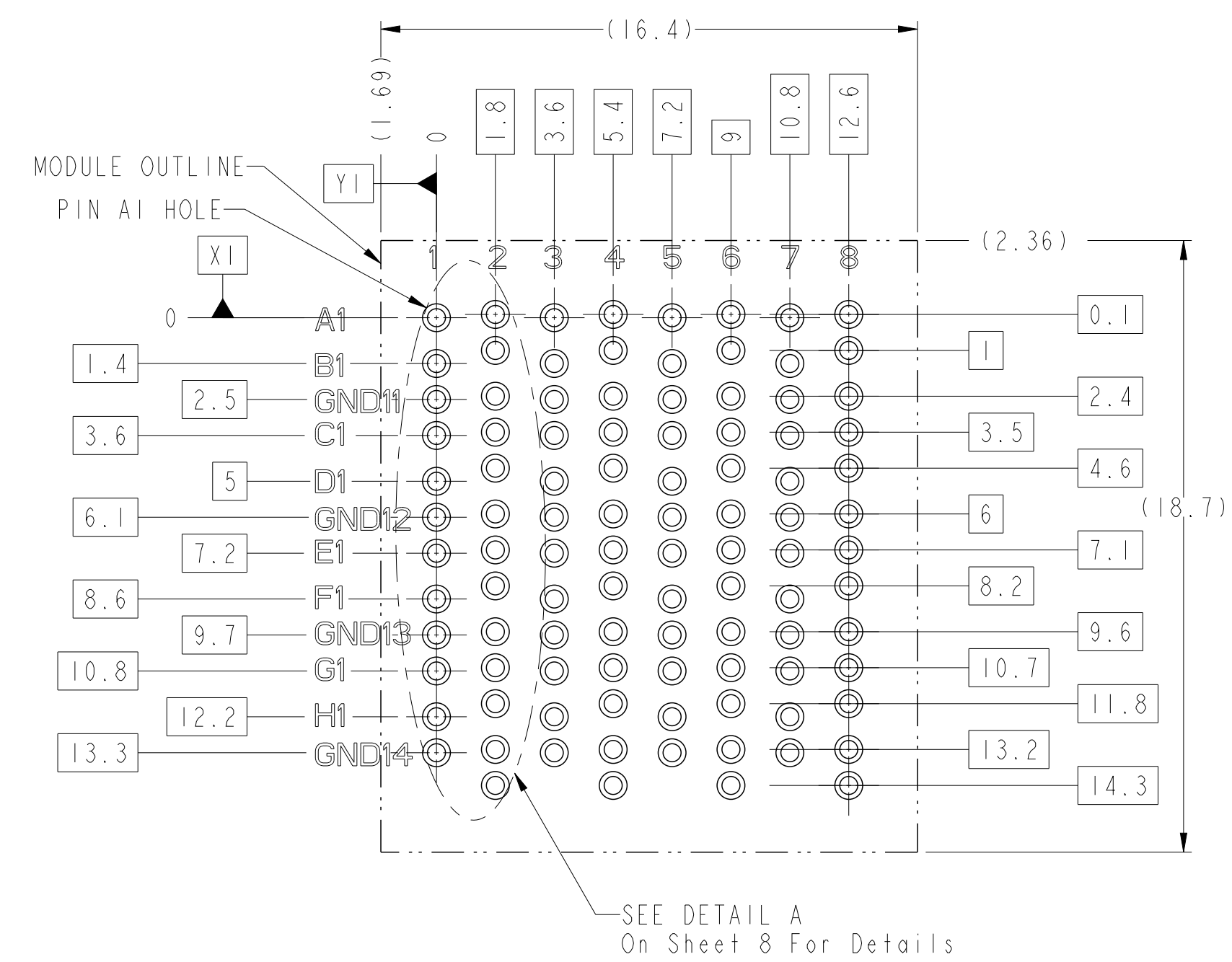
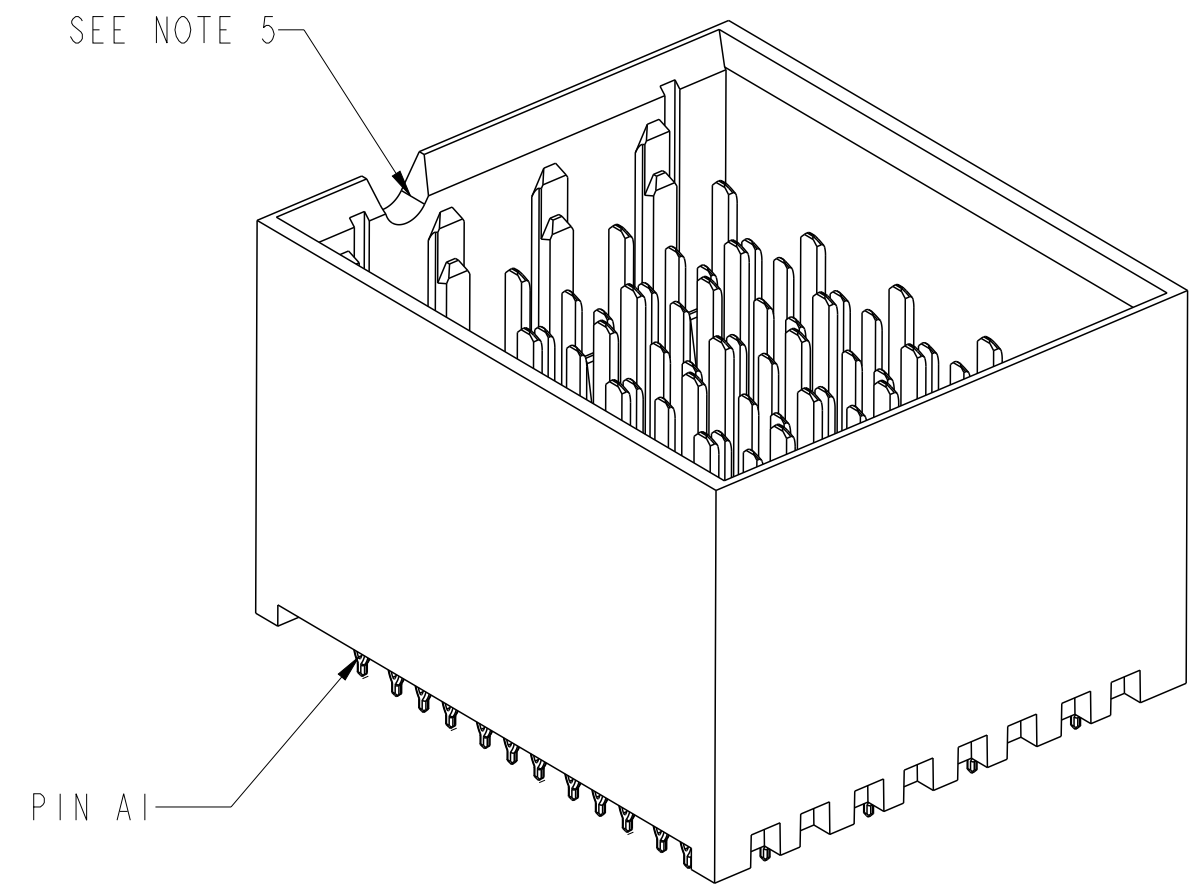
RIGHT WALL MODULE BACKPLANE FOOTPRINT

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





△ FOUR WALL MODULE



△ 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. | Product - Customer Drw | sheet 5 of 8 | rev      |
| linear        | 0.X ±0.3<br>0.XX ±0.10<br>0.XXX ±0.05 | Amphenol FCI | title         | MODULE ASSEMBLY, XCEDE HD | dwg no                 | 10115091     | rev      | E                      |              |          |
| angular       | 0° ±2°                                | www.fci.com  | cat. no.      | -                         | Product - Customer Drw | sheet 5 of 8 |          |                        |              |          |

# LEFT POLARIZING/GUIDE MODULE

Optional Key See Sheet 1  
Part Number Tree

SEE NOTE 5

SEE NOTE 11 & TABLE 1

PIN A1 HOLE

MODULE OUTLINE

Y1

A1

B1

GND11

C1

D1

GND12

E1

F1

GND13

G1

H1

GND14

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

AA

AB

AC

AD

AE

AF

AG

AH

AI

AJ

AK

AL

AM

AN

AO

AP

AQ

AR

AS

AT

AU

AV

AW

AX

AY

AZ

BA

BB

BC

BD

BE

BF

BG

BH

BI

BJ

BK

BL

BM

BN

BO

BP

BQ

BR

BS

BT

BU

BV

BW

BX

BY

BZ

CA

CB

CC

CD

CE

CF

CG

CH

CI

CJ

CK

CL

CM

CN

CO

CP

CQ

CR

CS

CT

CU

CV

CW

CX

CY

CZ

DA

DB

DC

DD

DE

DF

DG

DH

DI

DJ

DK

DL

DM

DN

DO

DP

DQ

DR

DS

DT

DU

DV

DW

DX

DY

DZ

EA

EB

EC

ED

EE

EF

EG

EH

EI

EJ

EK

EL

EN

EO

EP

EQ

ER

ES

ET

EU

EV

EW

EX

EY

EZ

FA

FB

FC

FD

FE

FF

FG

FH

FI

FJ

FK

FL

FN

FO

FP

FQ

FR

FS

FT

FU

FV

FW

FX

FY

FZ

GA

GB

GC

GD

GE

GF

GG

GH

GI

GJ

GK

GL

GN

GO

GP

GQ

GR

GS

GT

GU

GV

GW

GX

GY

GZ

HA

HB

HC

HD

HE

HF

HG

HH

HI

HJ

HK

HL

HN

HO

HP

HQ

HR

HS

HT

HU

HV

HW

HX

HY

HZ

IA

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IN

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IP

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IR

IS

IT

IU

IV

IW

IX

IY

IZ

JA

JB

JC

JD

JE

JF

JG

JH

JI

JJ

JK

JL

JN

JO

JP

JQ

JR

JS

JT

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KI

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KL

KN

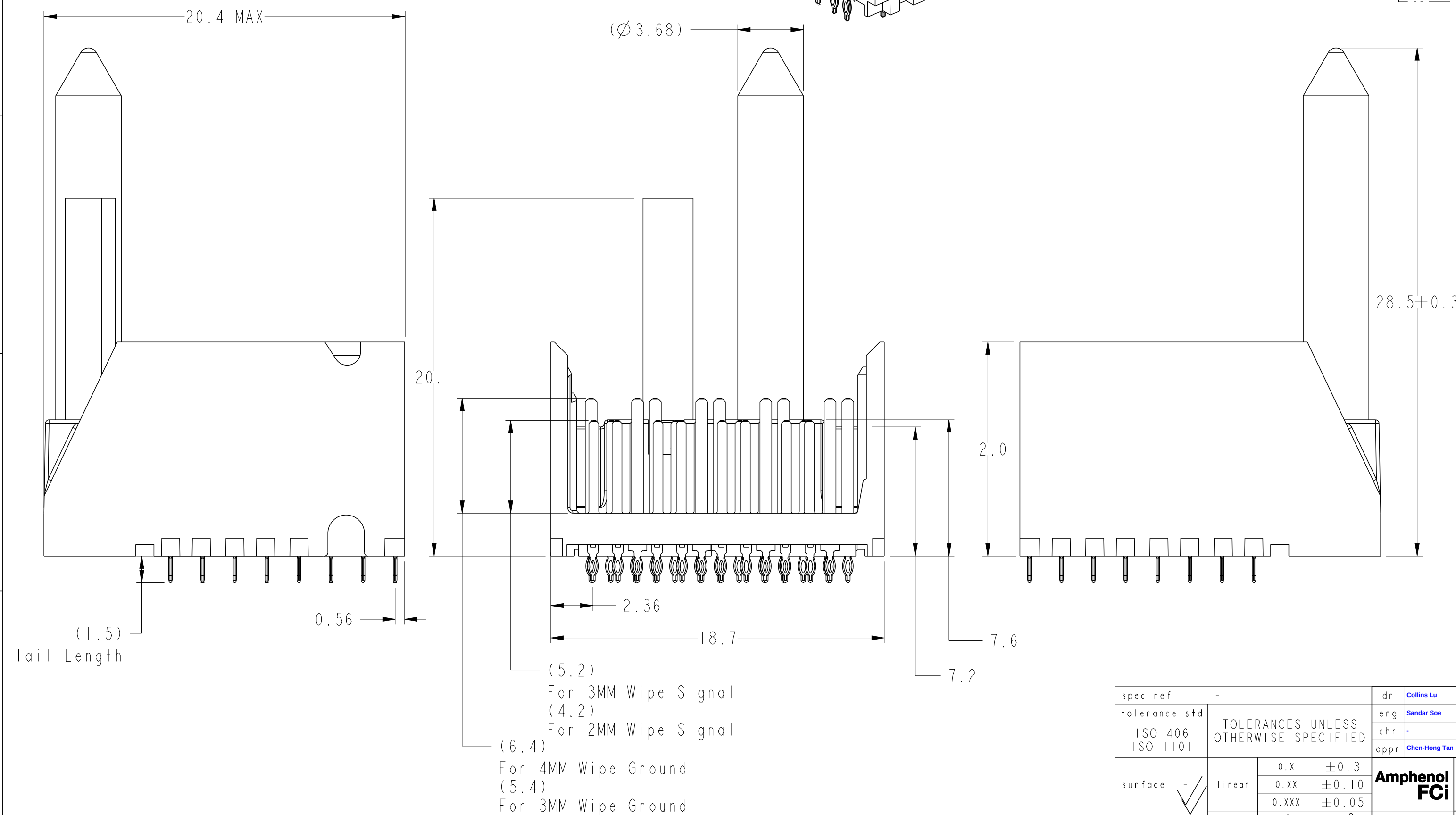
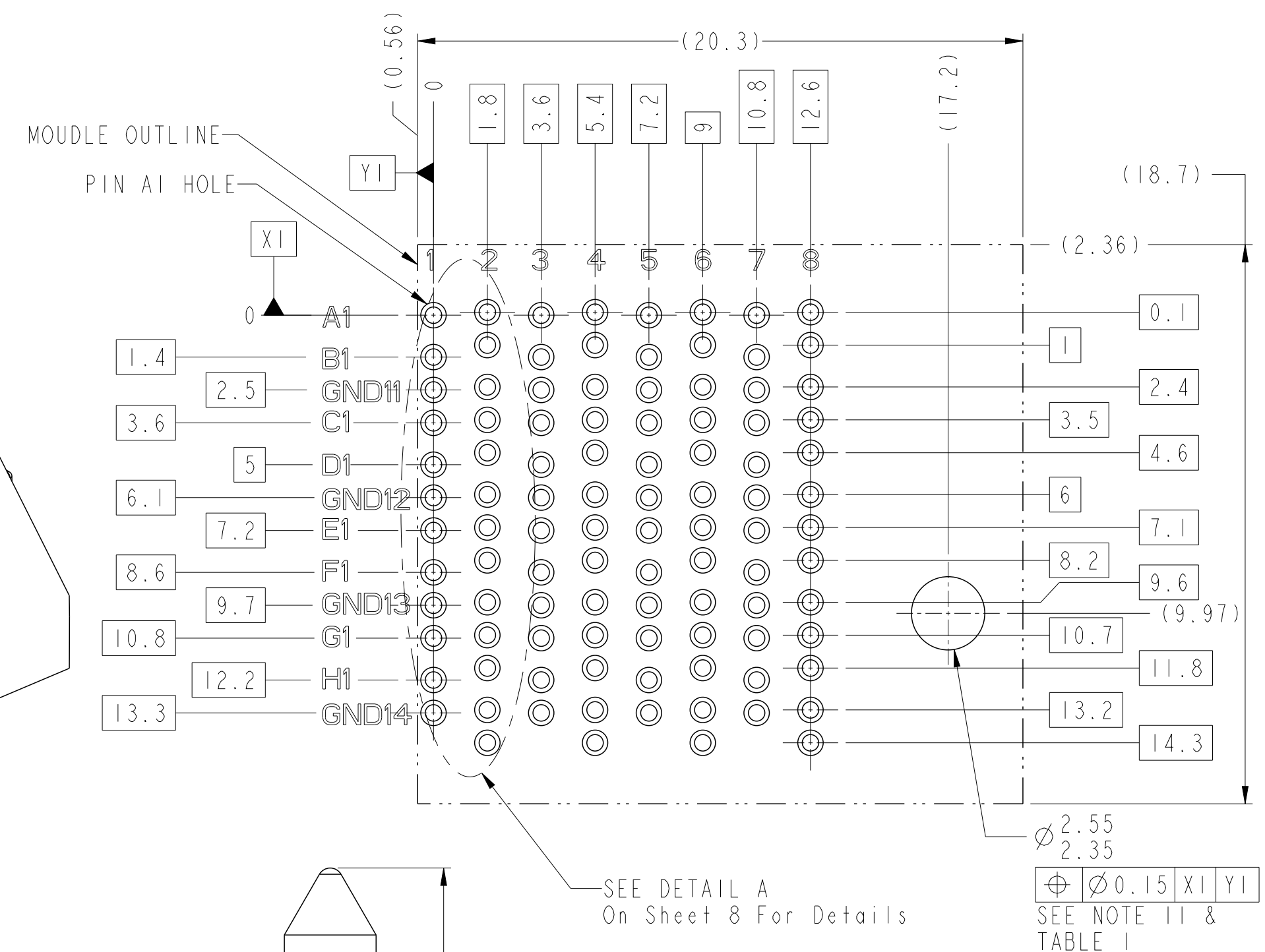
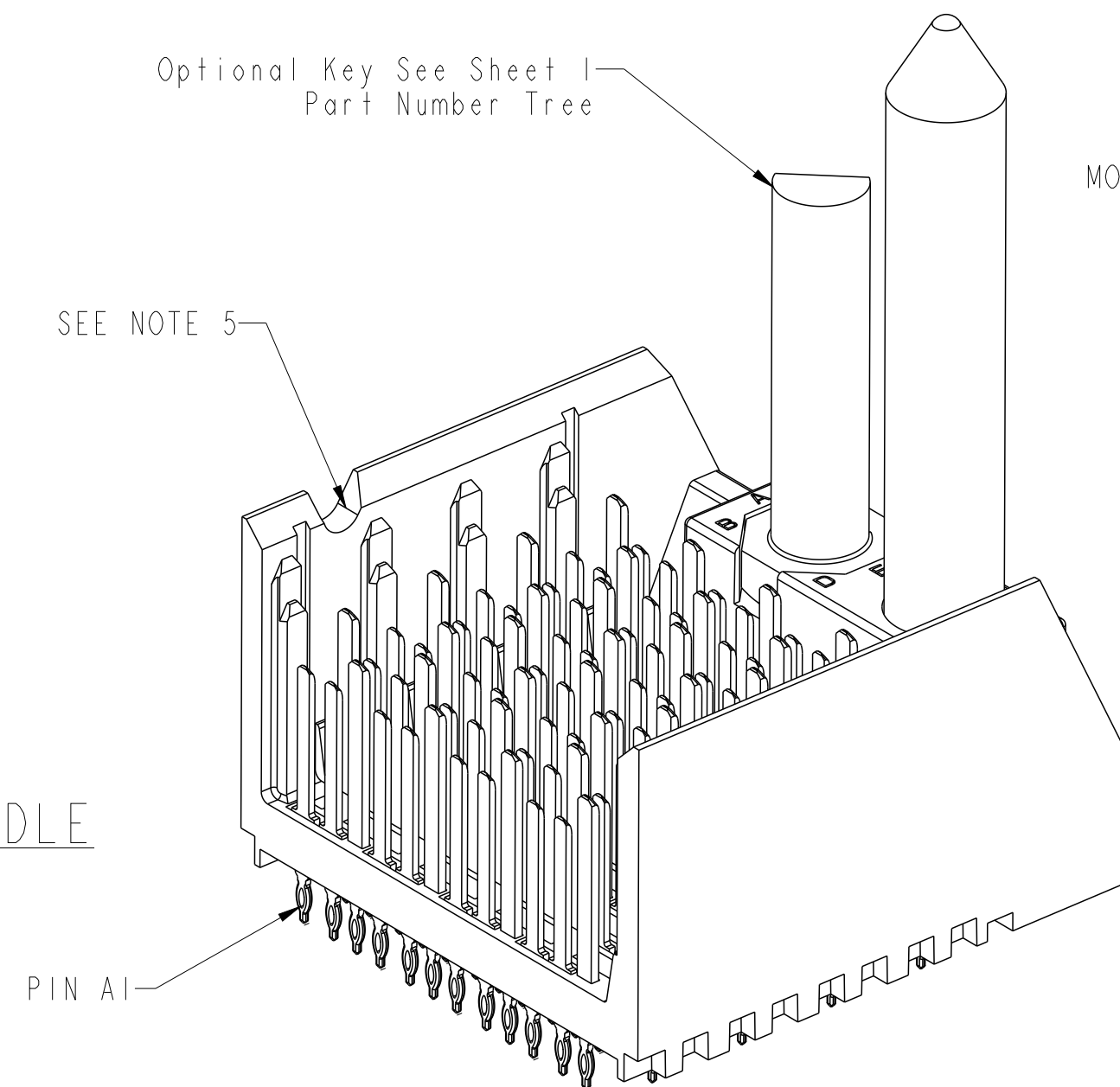
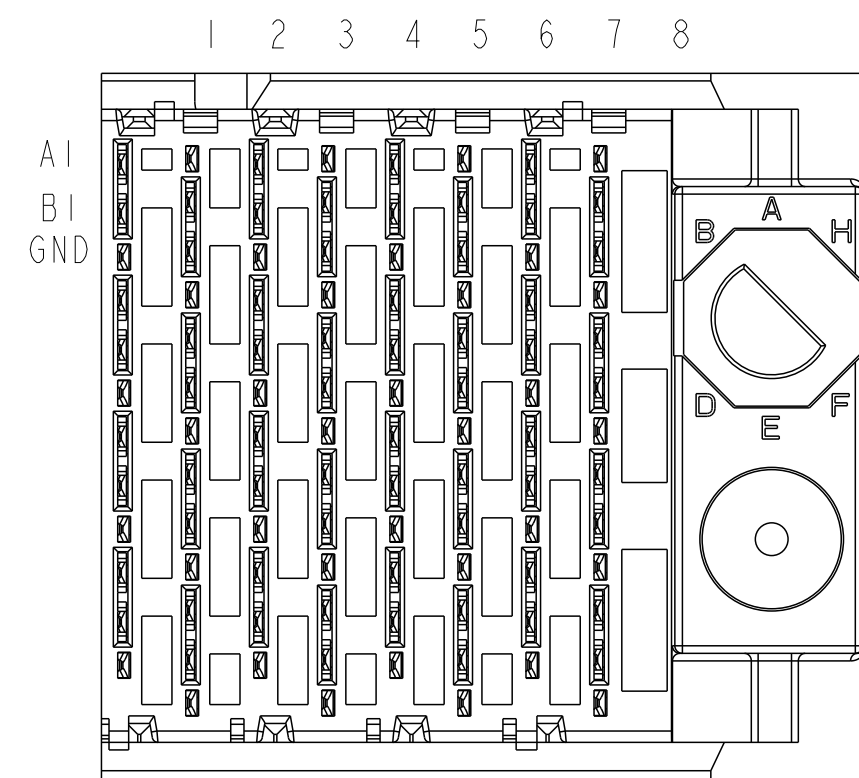
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KP

KQ

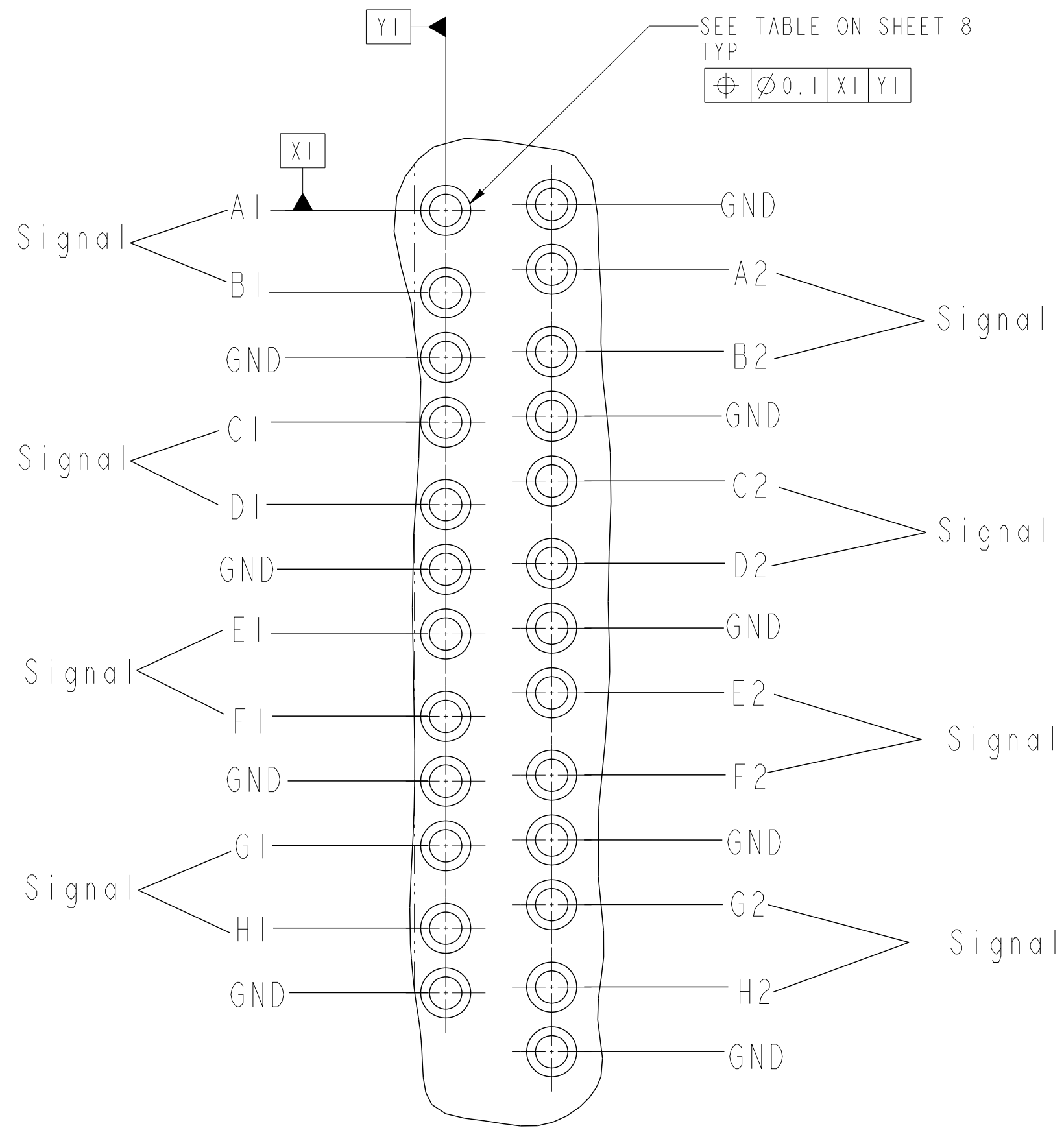
KR

KS



|                                                                                               |  |  |                                  |  |                                                                                       |  |                        |  |                      |  |
|-----------------------------------------------------------------------------------------------|--|--|----------------------------------|--|---------------------------------------------------------------------------------------|--|------------------------|--|----------------------|--|
| spec ref -                                                                                    |  |  | dr <b>Collins Lu</b> 2011/07/27  |  | projection                                                                            |  | size A2                |  | scale 1:1            |  |
| tolerance std                                                                                 |  |  | eng <b>Sandar Soe</b> 2016/03/07 |  |  |  | mm                     |  | ecn no ELX-S-17624-1 |  |
| ISO 406<br>ISO 1101                                                                           |  |  | chr -                            |  |                                                                                       |  |                        |  |                      |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                         |  |  | chr -                            |  | product family                                                                        |  | rel level              |  | Released             |  |
| appr <b>Chen-Hong Tan</b> 2016/03/17                                                          |  |  |                                  |  |                                                                                       |  |                        |  |                      |  |
| surface  |  |  | linear                           |  | <b>Amphenol FCI</b><br>MODULE ASSEMBLY, XCEDE HD<br>Vertical Header, 4 Pair 8 Column  |  | dwg no 10115091        |  | rev <b>E</b>         |  |
|                                                                                               |  |  | 0.X ±0.3                         |  |                                                                                       |  |                        |  |                      |  |
|                                                                                               |  |  | 0.XX ±0.10                       |  |                                                                                       |  |                        |  |                      |  |
| ISO 1302                                                                                      |  |  | 0.XXX ±0.05                      |  |                                                                                       |  |                        |  |                      |  |
|                                                                                               |  |  | angular ±2°                      |  | cat. no. -                                                                            |  | Product - Customer Drw |  | sheet 7 of 8         |  |
|                                                                                               |  |  | www.fci.com                      |  |                                                                                       |  |                        |  |                      |  |





DETAIL A  
SCALE 12:1

| 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     | $\varnothing 0.85$                                 | $\varnothing 0.75$                                 |

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<br>ISO 1101                                                                   |  | eng    |  | Sandar Soe |  | 2016/03/07  |  |  |  |  |  | ecn no                    |  | ELX-S-17624-1 |  | Released |  |                |  |   |  |   |  |                        |  |              |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |  | chr                                                                                   |  | -      |  | -          |  | appr        |  |                                                                                       |  |                                                                                       |  | Chen-Hong Tan             |  | 2016/03/17    |  |          |  | product family |  |   |  |   |  |                        |  |              |  |
| surface                               |  |  |  | linear |  | 0.X        |  | ±0.3        |  | Amphenol<br>FCI                                                                       |  | title                                                                                 |  | MODULE ASSEMBLY, XCEDE HD |  | dwg no        |  | 10115091 |  | rev            |  | E |  |   |  |                        |  |              |  |
|                                       |  |                                                                                       |  | 0.XX   |  | ±0.10      |  | cat. no.    |  |                                                                                       |  |                                                                                       |  |                           |  |               |  |          |  |                |  |   |  | - |  | Product - Customer Drw |  | sheet 8 of 8 |  |
| ISO 1302                              |  | angular                                                                               |  | 0°     |  | ±2°        |  | www.fci.com |  |                                                                                       |  |                                                                                       |  |                           |  |               |  |          |  |                |  |   |  |   |  |                        |  |              |  |