

Amphenol
FCi

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10120130 - X0J - XXXLF

4-COLUMN
DIFFERENTIAL
SIGNAL

LEAD-FREE DESIGNATION
ONLY WITH APPLICABLE
PLATING CODES

LETTER	PLATING (SEE NOTE 6)	
	APPLICATION	TYPE (REFERENCE)
B	TELCORDIA CO	0.76µm GOLD or GXT
C	TELCORDIA UE	1.27µm GOLD
D	TELCORDIA CO	0.76µm GOLD or GXT, LEAD-FREE
E	TELCORDIA UE	1.27µm 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 NO GUIDE PIN										
RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 7)	Z	Y	P	Q	R	S	T	U	V	W	
	NO KEY 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)	I (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 10120130-XXXX, WHERE: "X" DENOTES MODULE TYPE PER CHART ON THIS SHEET "XXXX" IS A SEQUENTIAL NUMBER BEGINNING WITH "0001".

TABLE 1 (SEE NOTE 11)		
	UNGROUND	GROUND
FHS	Ø 2.35-Ø 2.55	Ø 2.35-Ø 2.55
PAD	N/A	Ø 5.50
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

ASME Y14.5

TOLERANCES UNLESS OTHERWISE SPECIFIED

linear

angular

0.X

0.XX

0.XXX

0°

±0.3

±0.10

±0.05

±2°

dr

eng

chr

appr

Yong-Keat Lim

Sandar Soe

-

Chen-Hong Tan

2012/02/22

2016/03/07

-

2016/03/17

projection

MM

size

A2

scale

2:1

ecn no

ELX-S-17624-1

rel level

Released

product family

XCEDE HD

Amphenol FCI

www.fci.com

VERTICAL HEADER ASSEMBLY

XCEDE HD 6 PAIR, 4 COLUMN

cat. no.

-

Product

Customer Drw

sheet 1 of 8

title

10120130

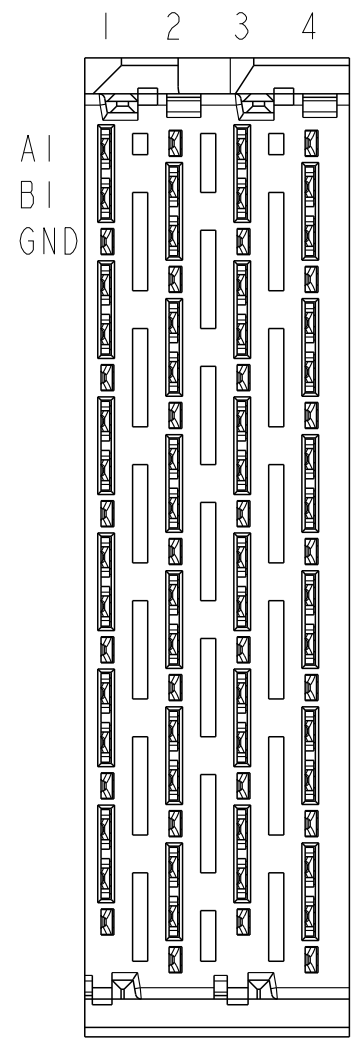
rev

C

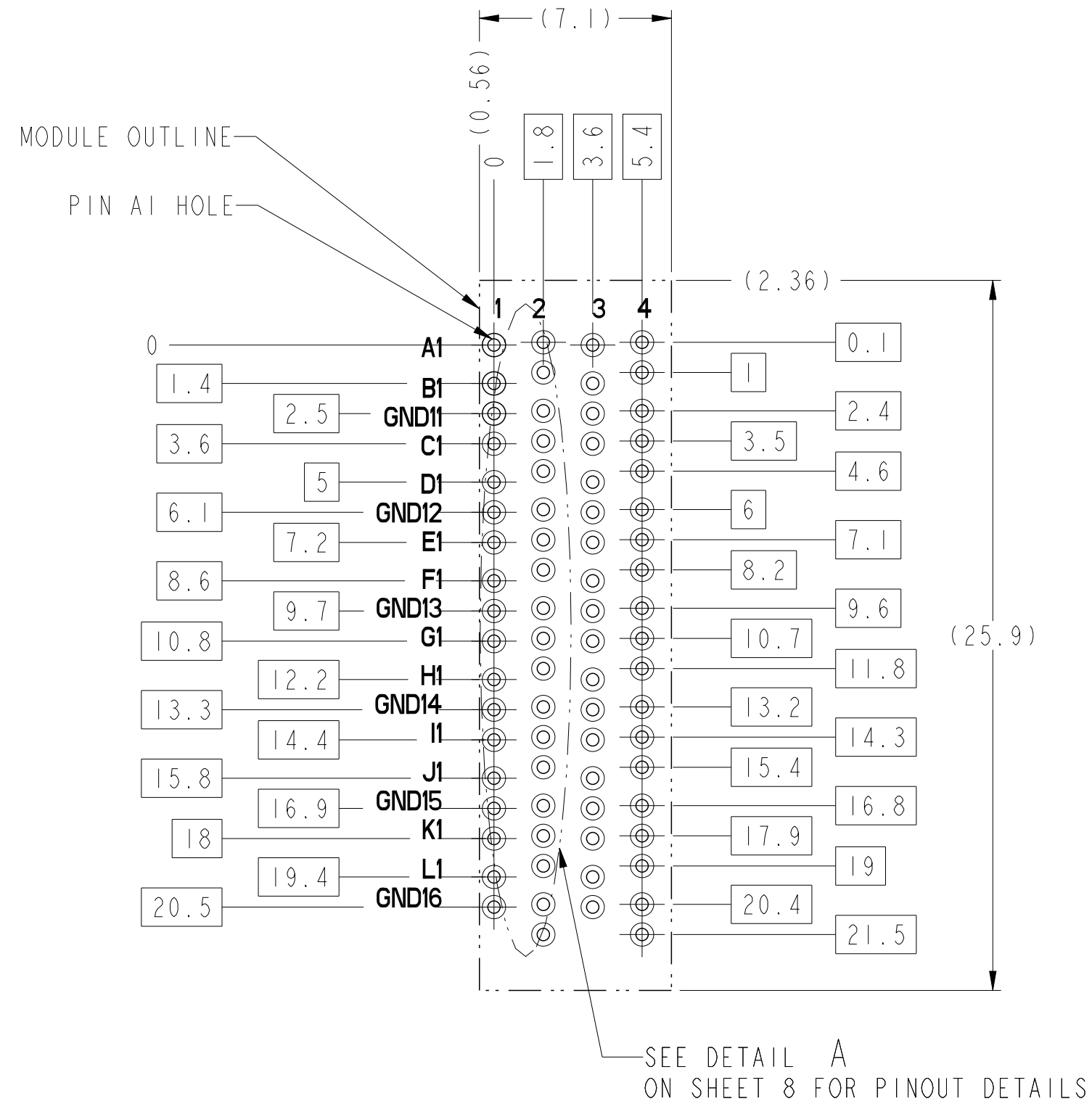
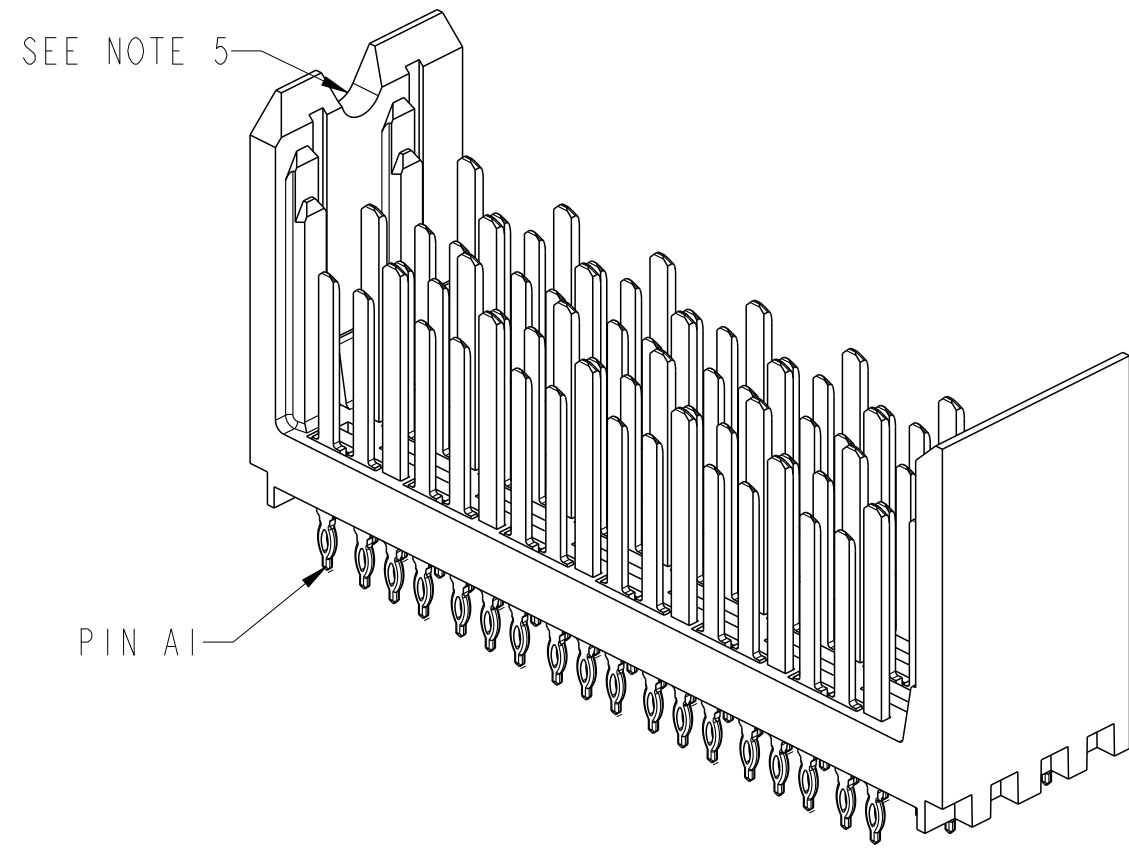
PDS: Rev :C

STATUS:Released

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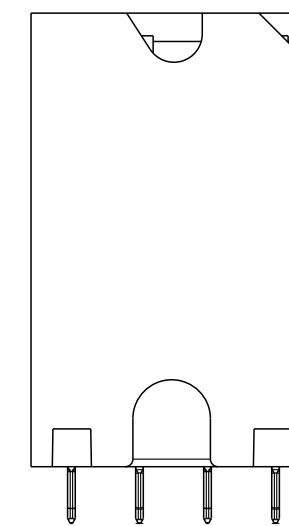
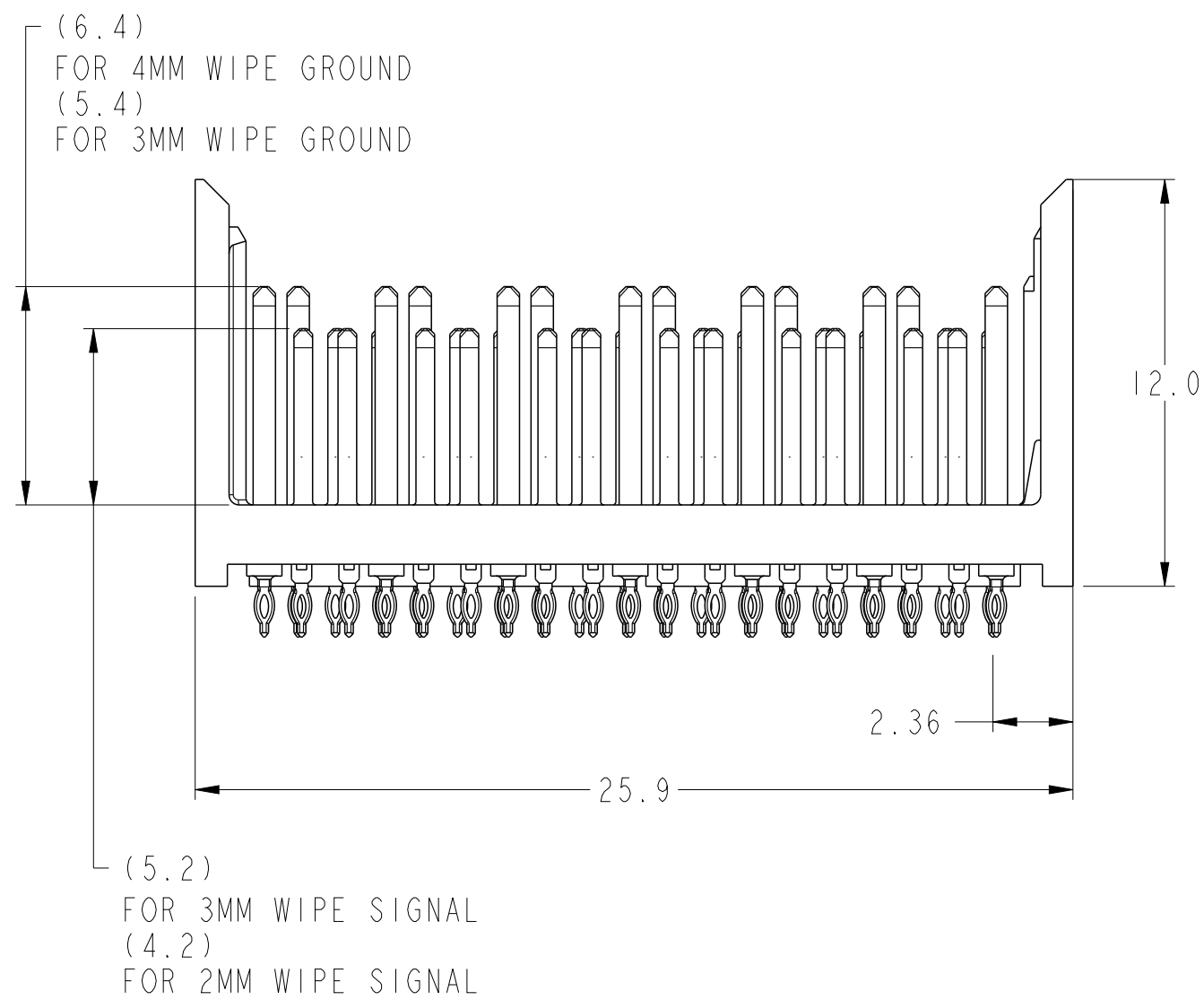
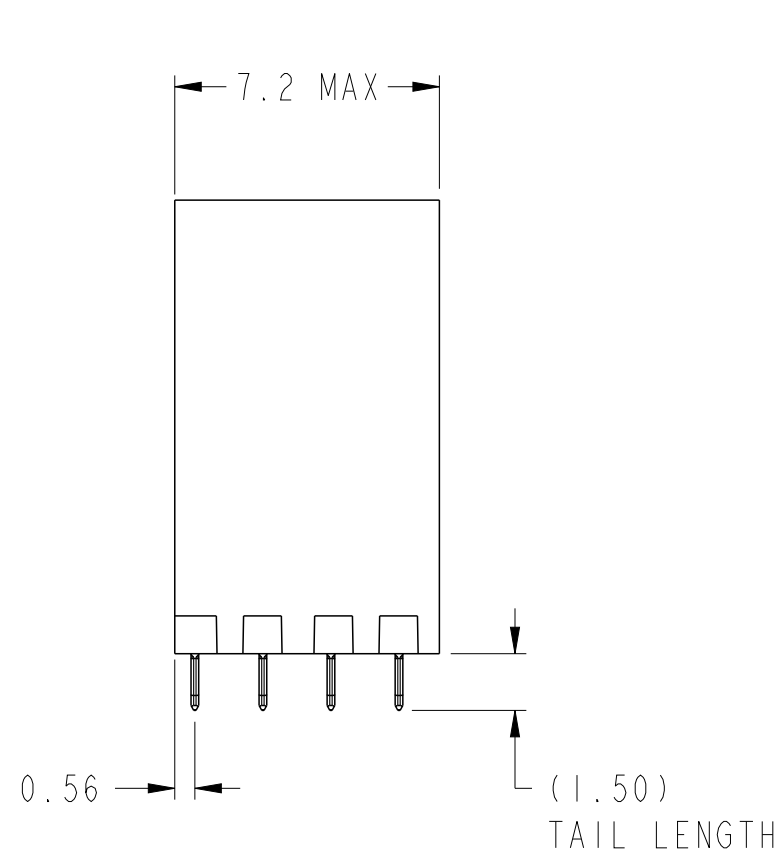


OPEN WALL MODULE

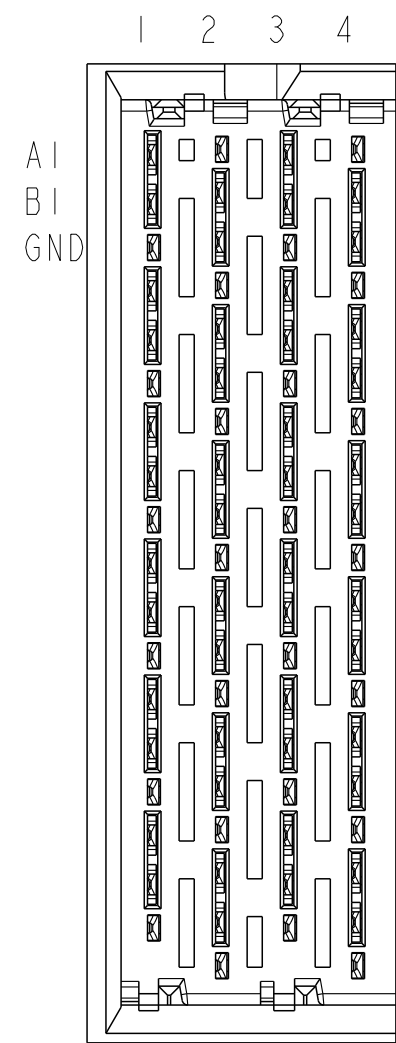


BP HOLE PATTERN COMPONENT SIDE

OPEN WALL MODULE BACKPLANE FOOTPRINT



spec ref	-	dr	Yong-Keat Lim	2012/02/22	projection	MM	size	A2	scale	5:1
tolerance std	-	eng	Sandar Soe	2016/03/07		MM	ecn no	ELX-S-17624-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-						
surface	linear	appr	Chen-Hong Tan	2016/03/17						
ASME Y14.5	angular	0°	±0.3	±0.10	±0.05	Amphenol FCI	title	VERTICAL HEADER ASSEMBLY	dwg no	10120130
			www.fci.com	cat. no.	-	Product - Customer Drw	sheet 2 of 8	rev	C	



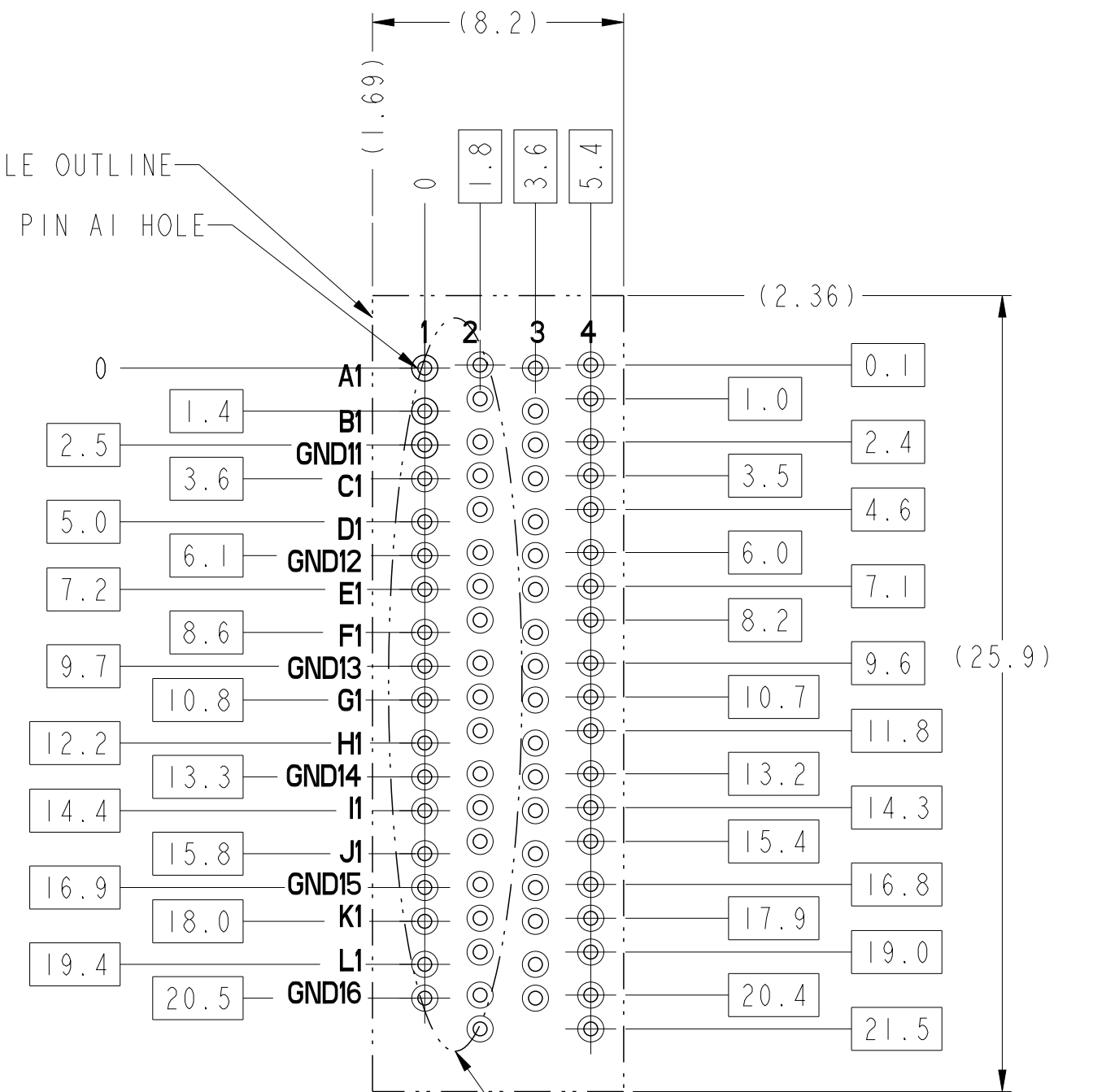
LEFT WALL MODULE

SEE NOTE 5

PIN AI

MODULE OUTLINE

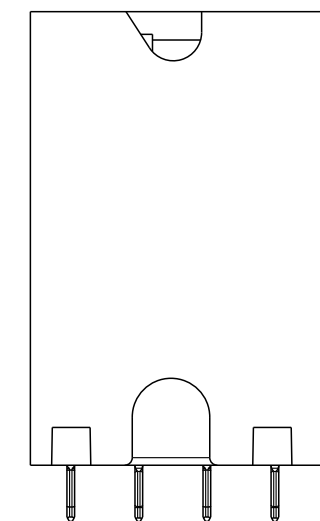
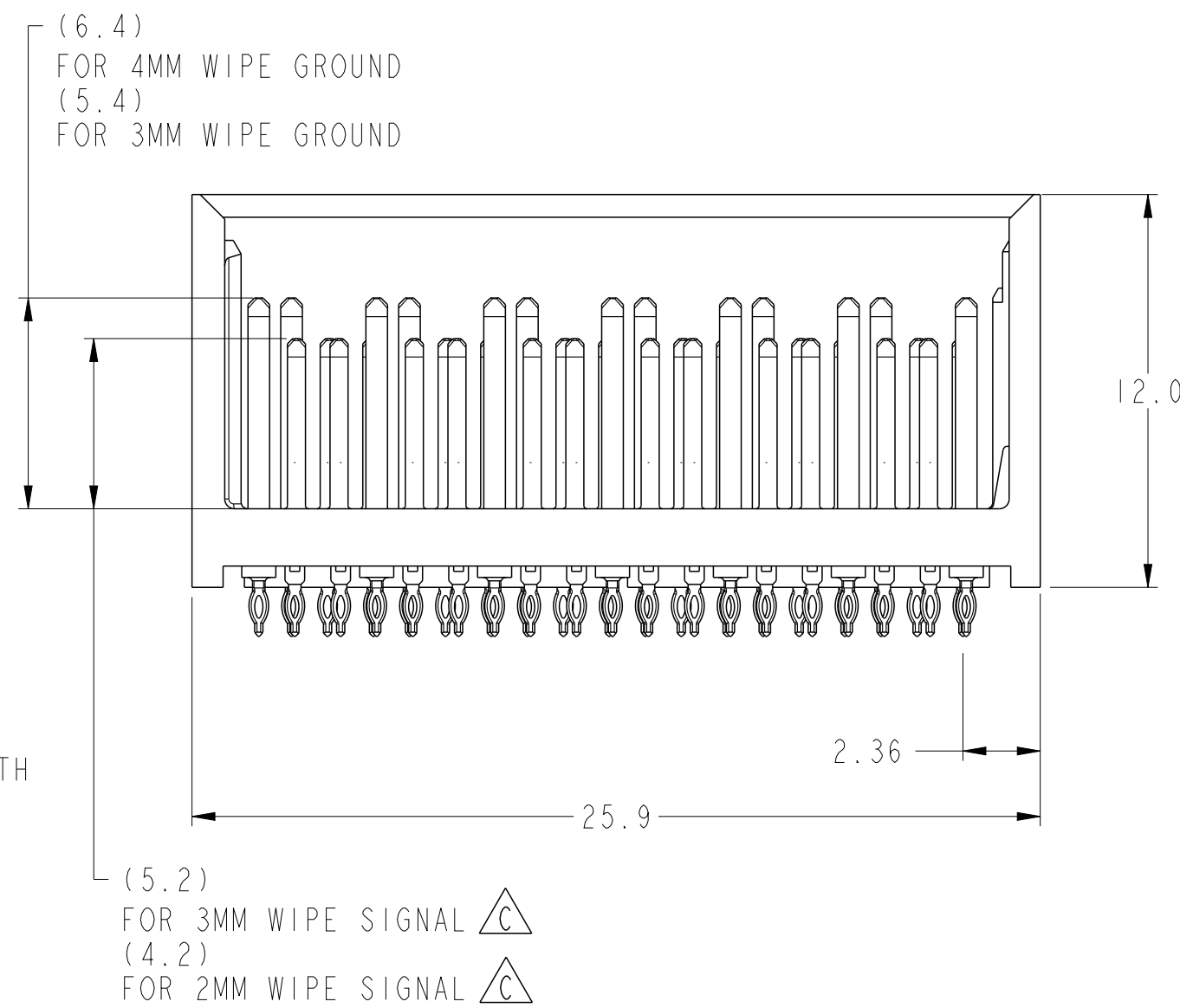
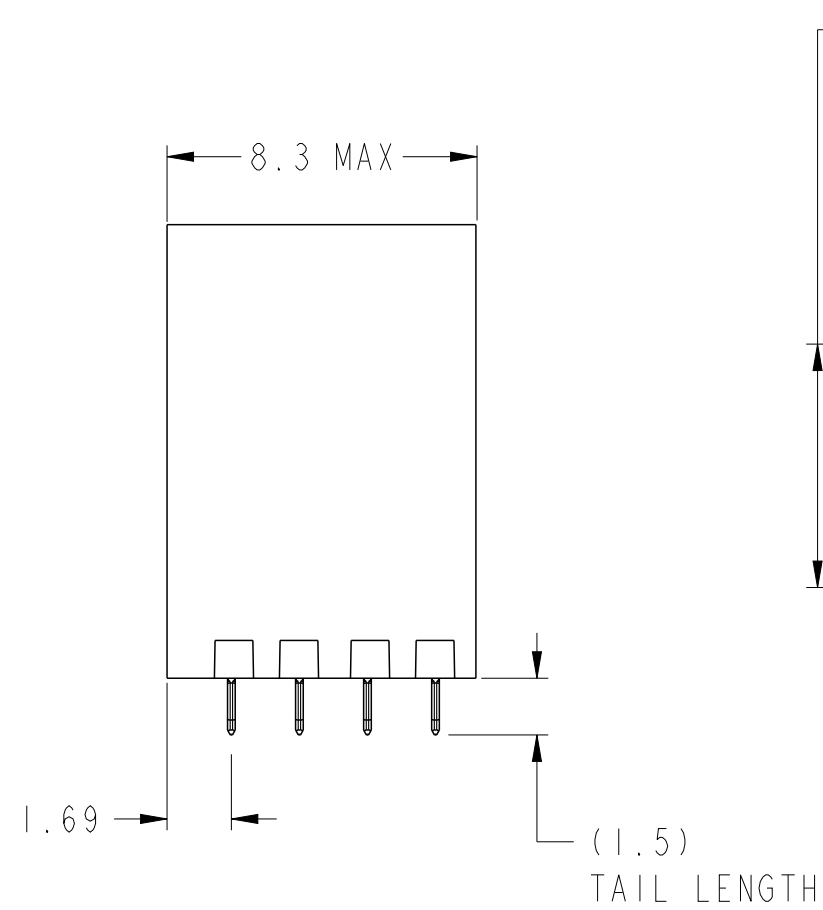
PIN AI HOLE



SEE DETAIL A
ON SHEET 8 FOR PINOUT DETAILS

BP HOLE PATTERN COMPONENT SIDE

LEFT WALL MODULE BACKPLANE FOOTPRINT

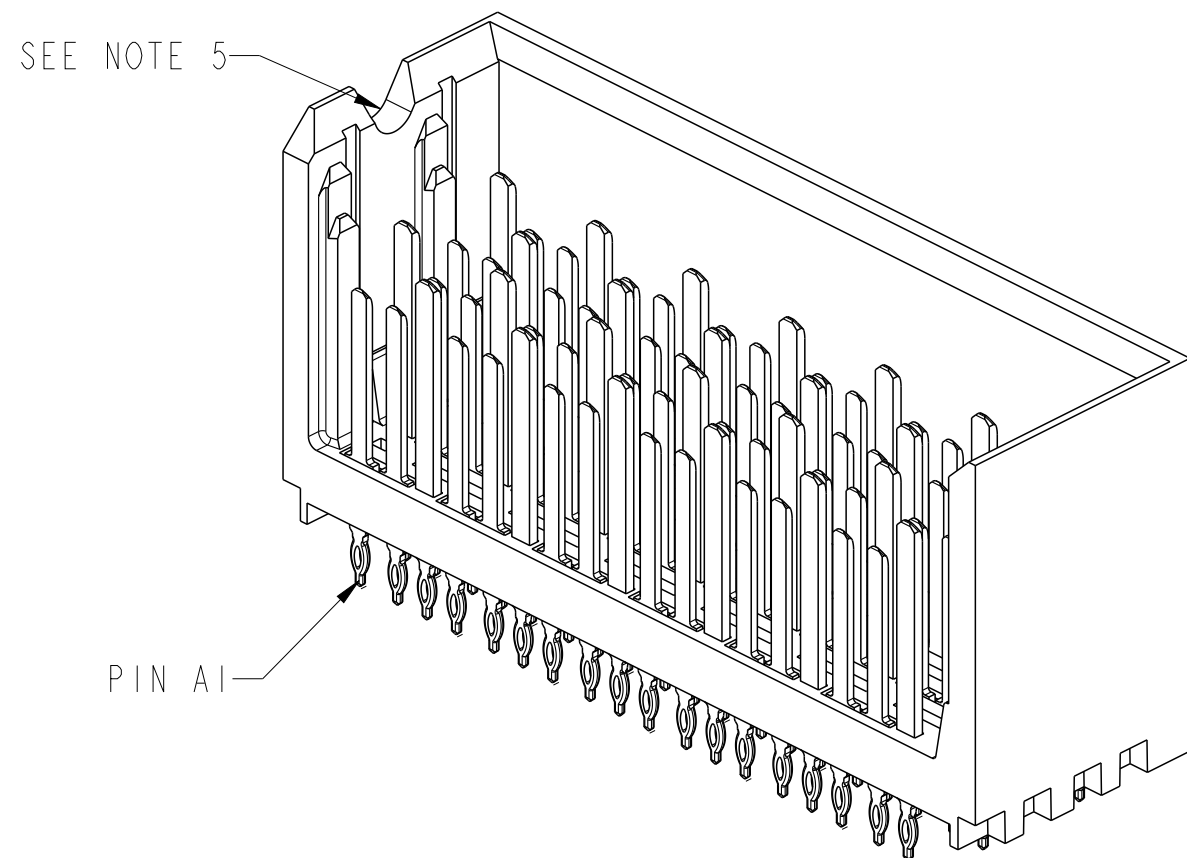
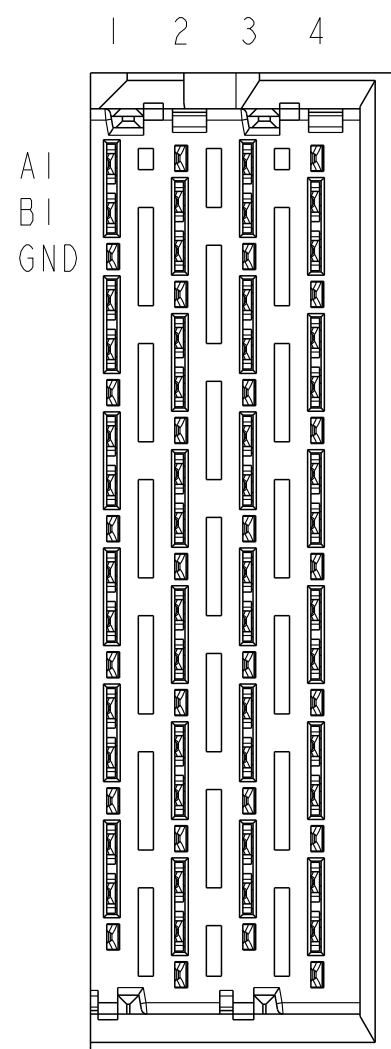


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tolerance std		-		eng	Sandar Soe	2016/03/07					ecn no	ELX-S-17624-1				
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	-					rel level	Released				
				appr	Chen-Hong Tan	2016/03/17					product family	XCEDE HD				
surface			linear	0.X	±0.3			VERTICAL HEADER ASSEMBLY				dwg no	10120130		rev	C
			0.XX	±0.10												
			0.XXX	±0.05												
ASME Y14.5		angular	0°	±2°		www.fci.com		cat. no.	-	Product -	Customer Drw	sheet 3 of 8				

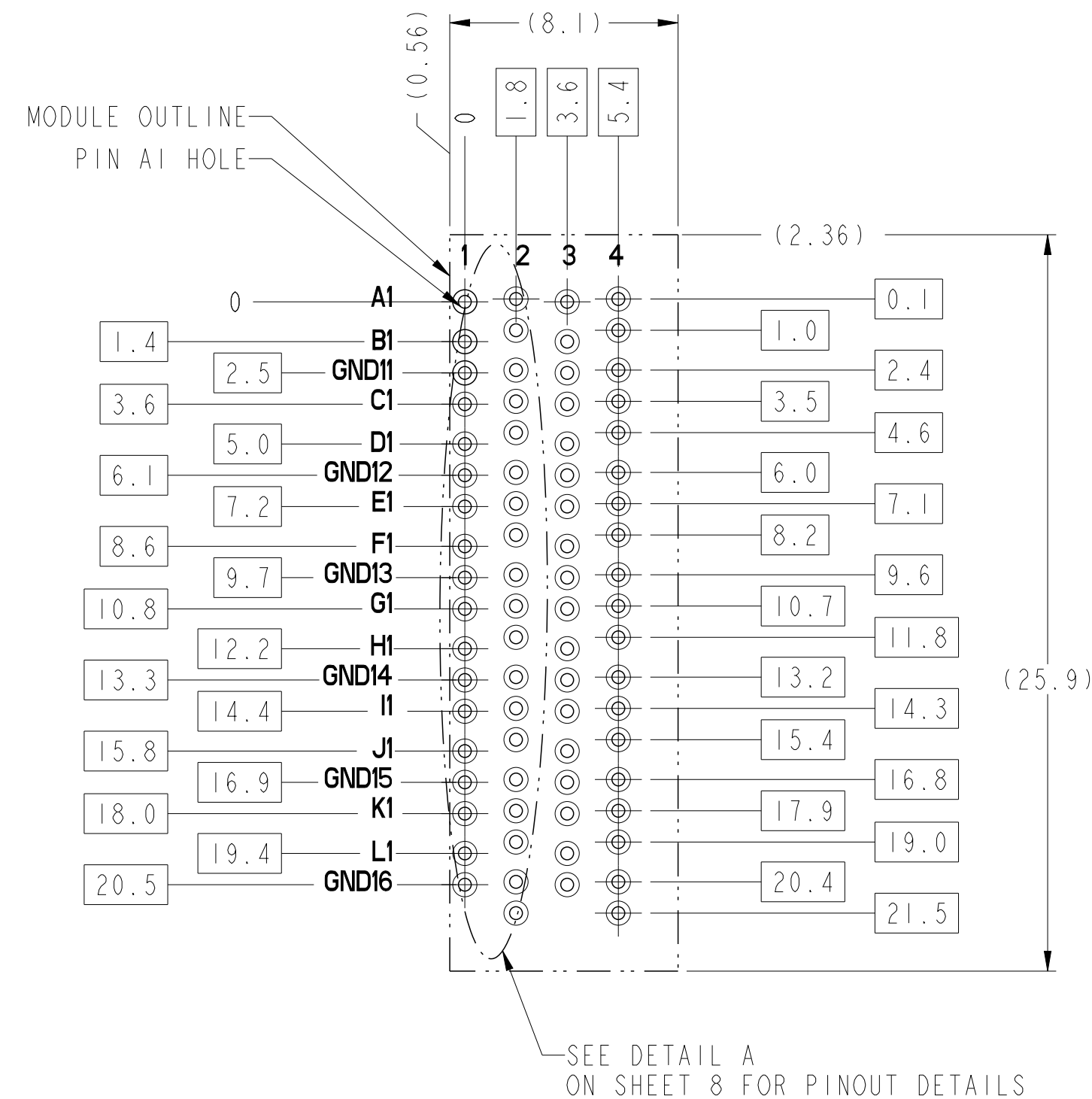
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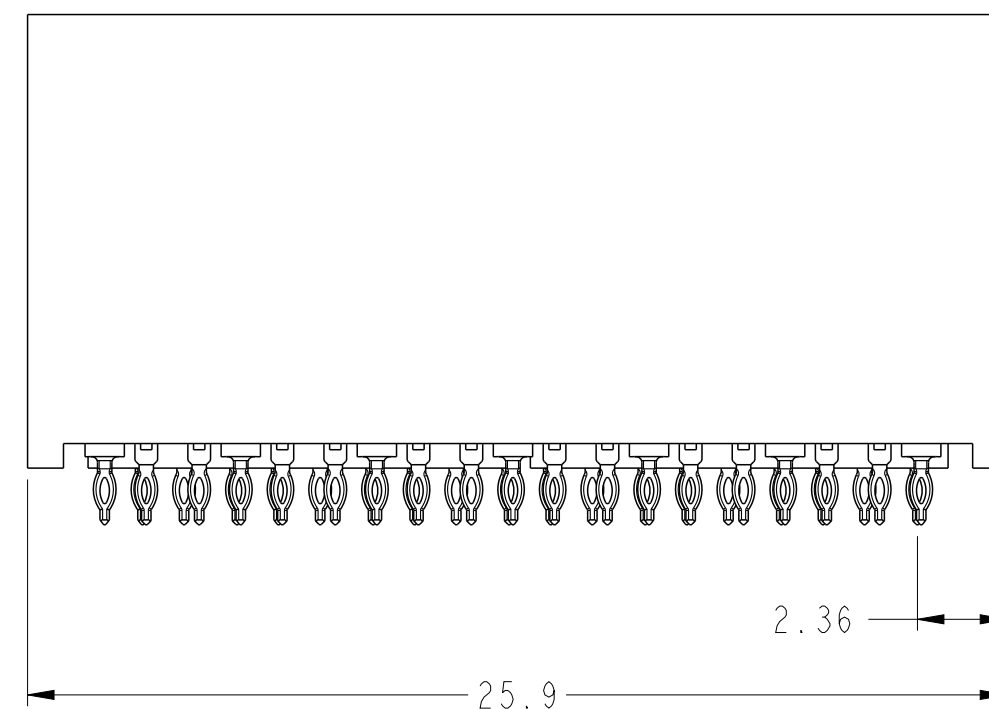
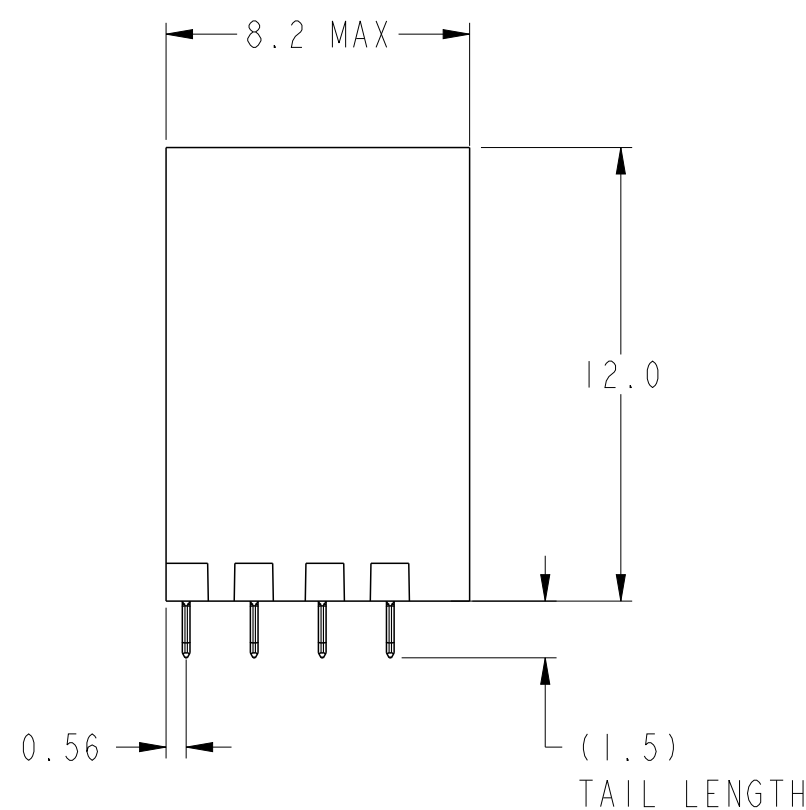
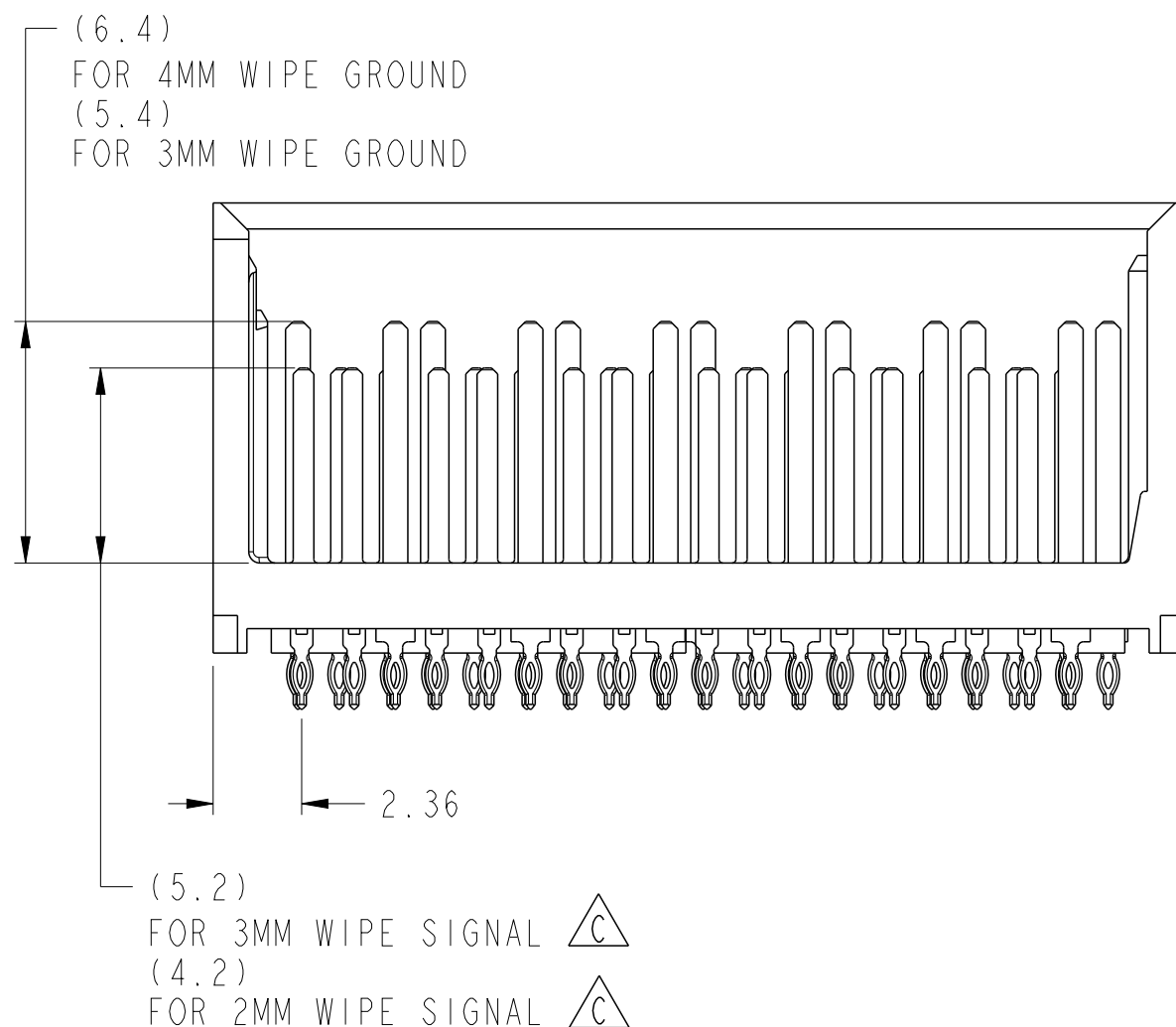


RIGHT WALL MODULE

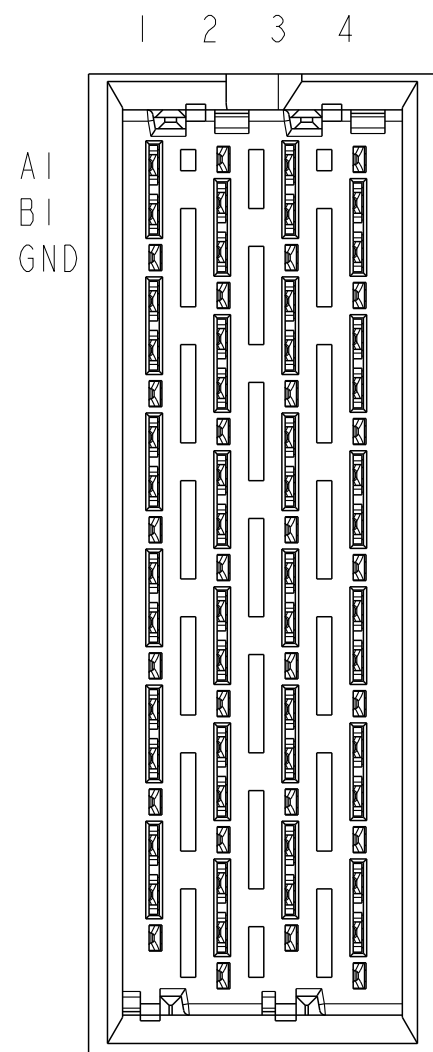


BP HOLE PATTERN COMPONENT SIDE

RIGHT WALL MODULE BACKPLANE FOOTPRINT



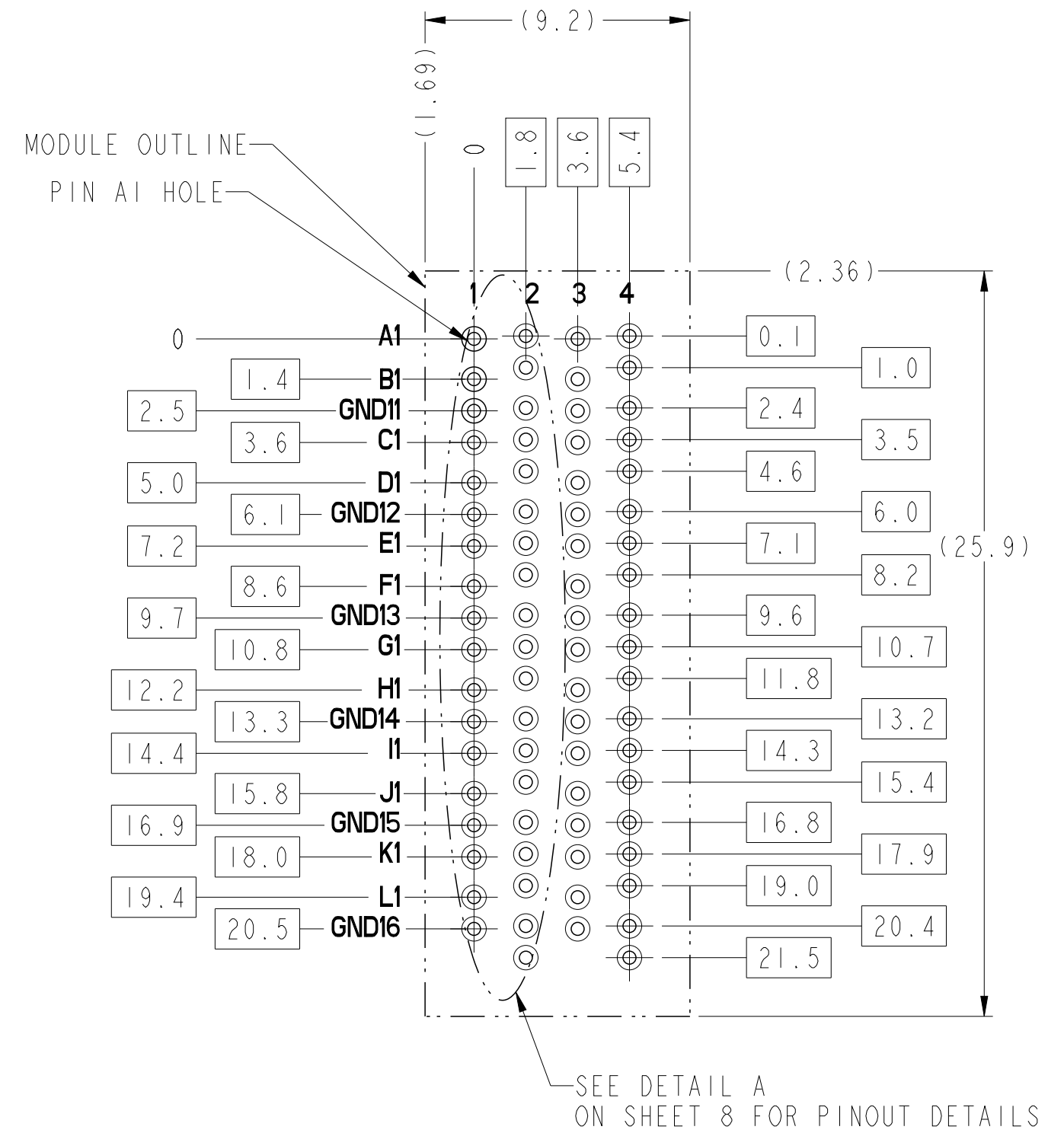
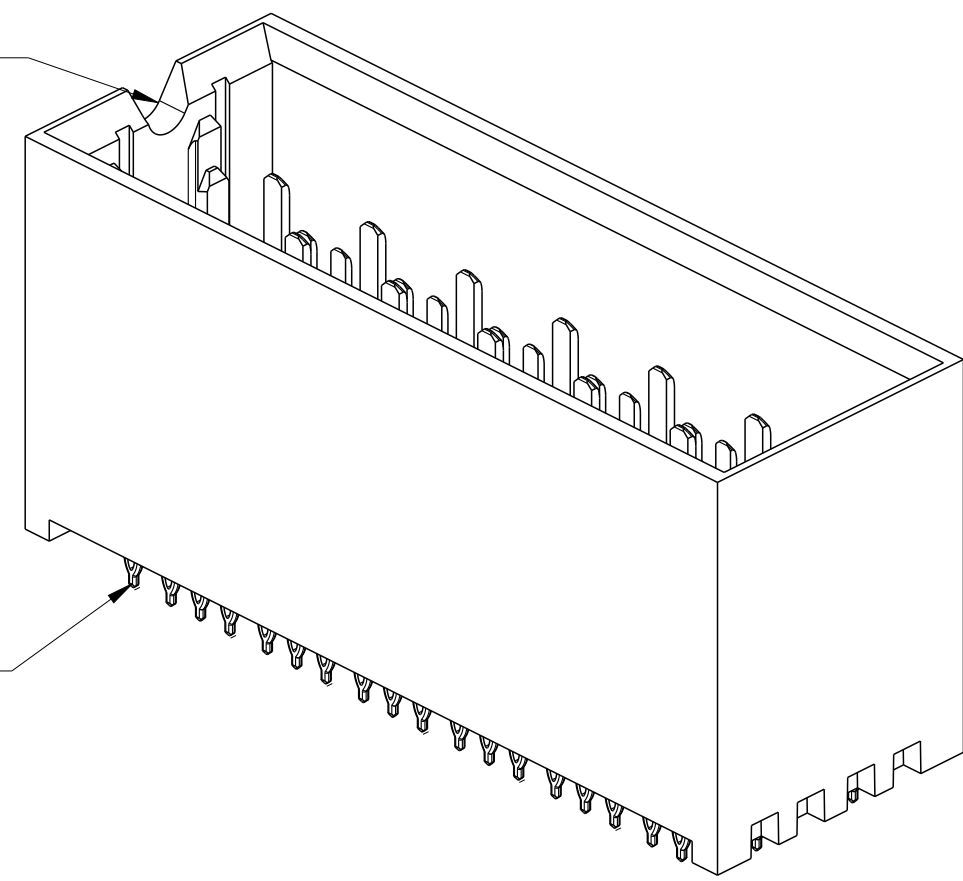
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tolerance std	-	eng	Sandar Soe	2016/03/07	chr	-	ecn no	ELX-S-17624-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2016/03/17	product family	XCEDE HD	rel level	Released	rev	C
surface	linear	0.X	±0.3	0.XX	±0.10	0.XXX	±0.05	angular	0°	±2°
ASME Y14.5	angular	0°	±2°	0°	±2°	0°	±2°	0°	±2°	0°
Amphenol FCI		VERTICAL HEADER ASSEMBLY		XCEDE HD 6 PAIR, 4 COLUMN		10120130		Product - Customer Drw		sheet 4 of 8
www.fci.com		cat. no.		-		Product - Customer Drw		sheet 4 of 8		



FOUR WALL MODULE

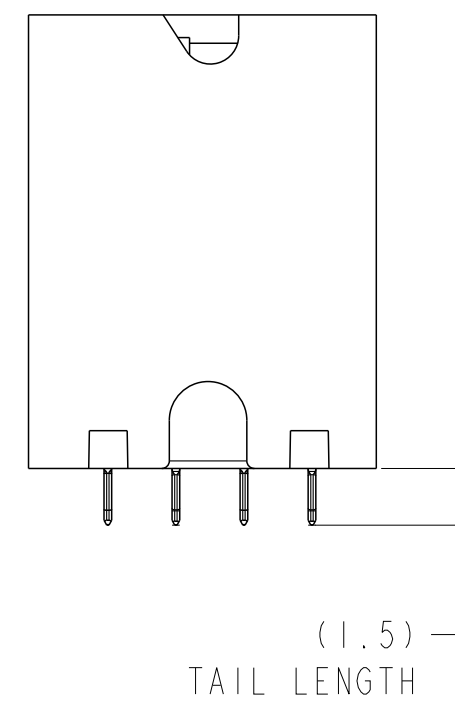
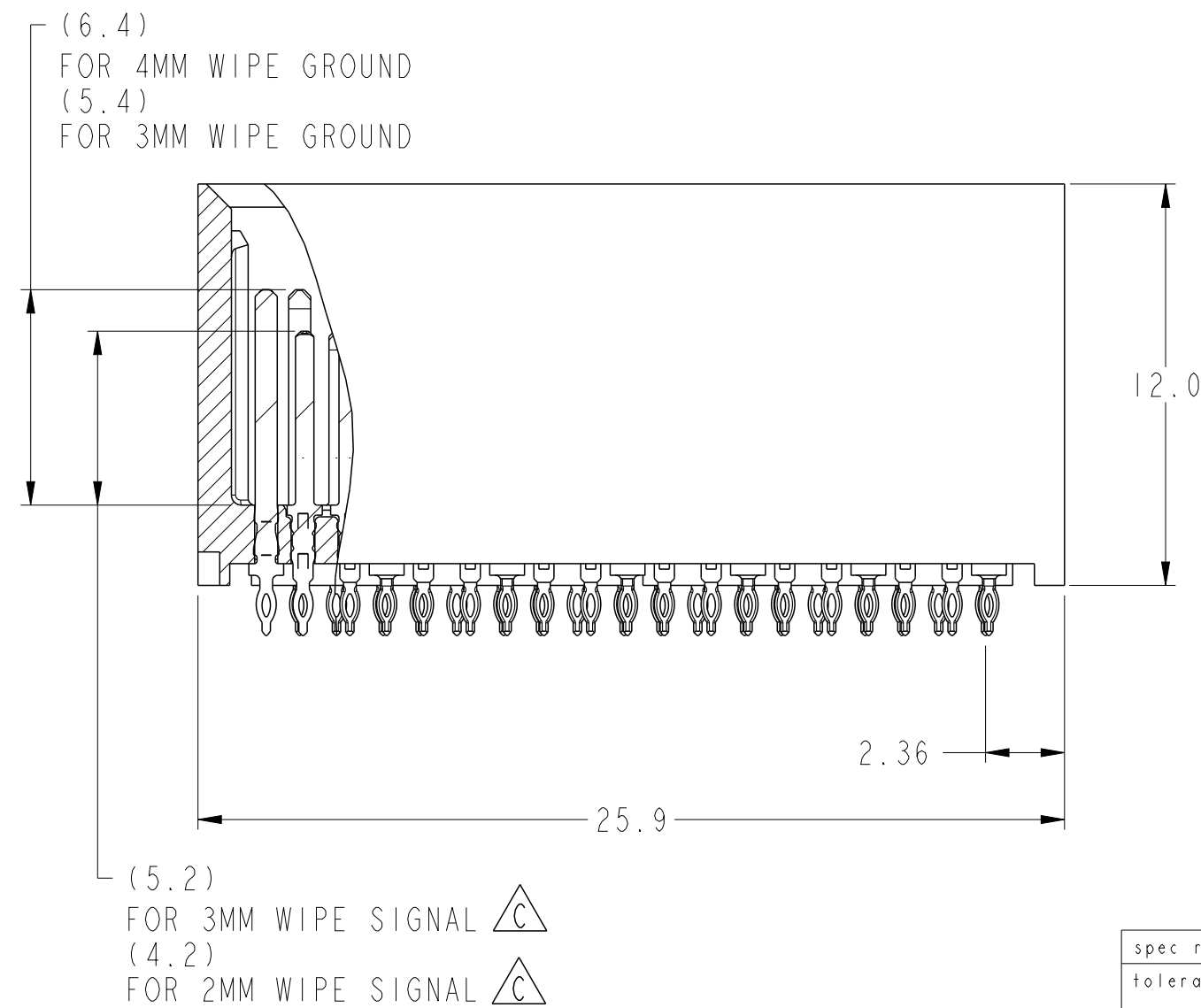
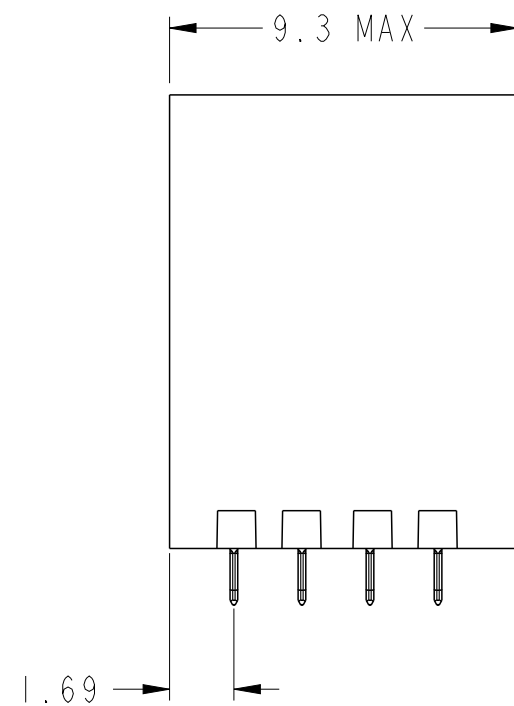
SEE NOTE 5

PIN A1



BP HOLE PATTERN COMPONENT SIDE

FOUR WALL MODULE BACKPLANE FOOTPRINT



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tolerance std		-		eng		Sandar Soe		2016/03/07						ecn no		ELX-S-17624-1		rel level		Released	
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-													
surface		✓		appr		Chen-Hong Tan		2016/03/17													
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		Amphenol FCI		title		VERTICAL HEADER ASSEMBLY		dwg no		10120130		rev		C					
linear		0.X ±0.3		0.XX ±0.10		0.XXX ±0.05		XCEDE HD 6 PAIR, 4 COLUMN		cat. no.		-		Product - Customer Drw		sheet 5 of 8					
angular		0° ±2°		www.fci.com																	

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LEFT POLARIZING / GUIDE MODULE

OPTIONAL KEY SEE SHEET 1
PART NUMBER TREE

SEE NOTE 5

SEE NOTE 11 & TABLE 1

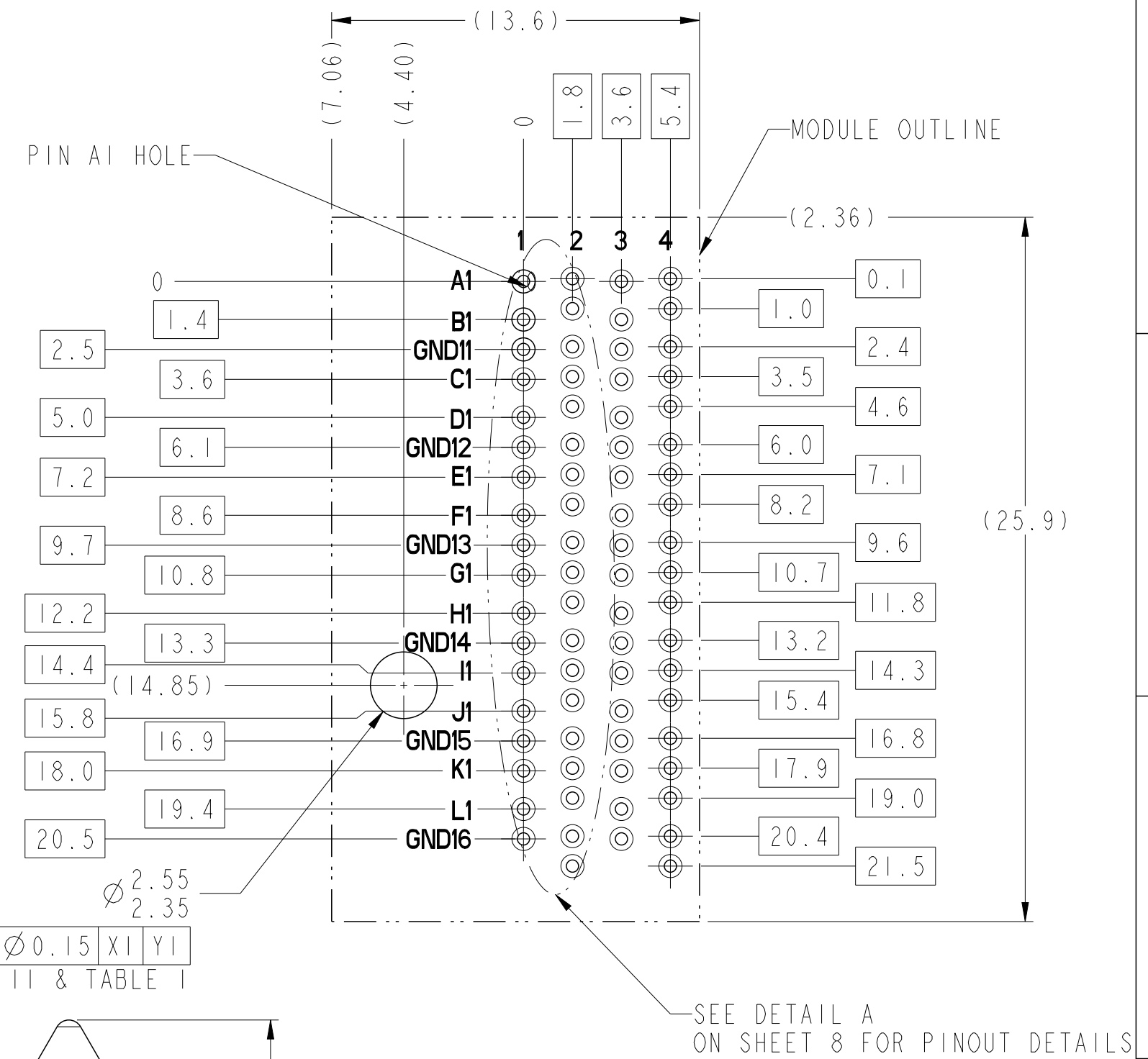
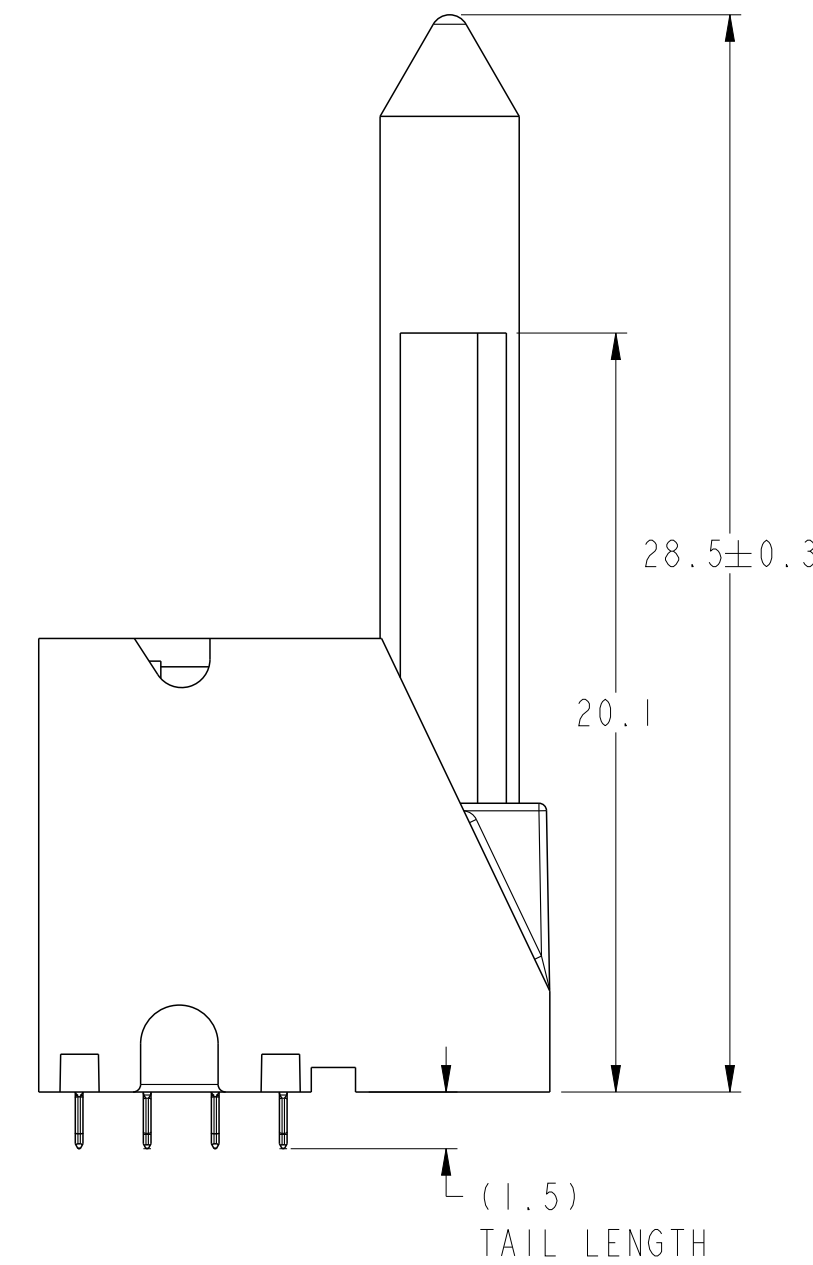
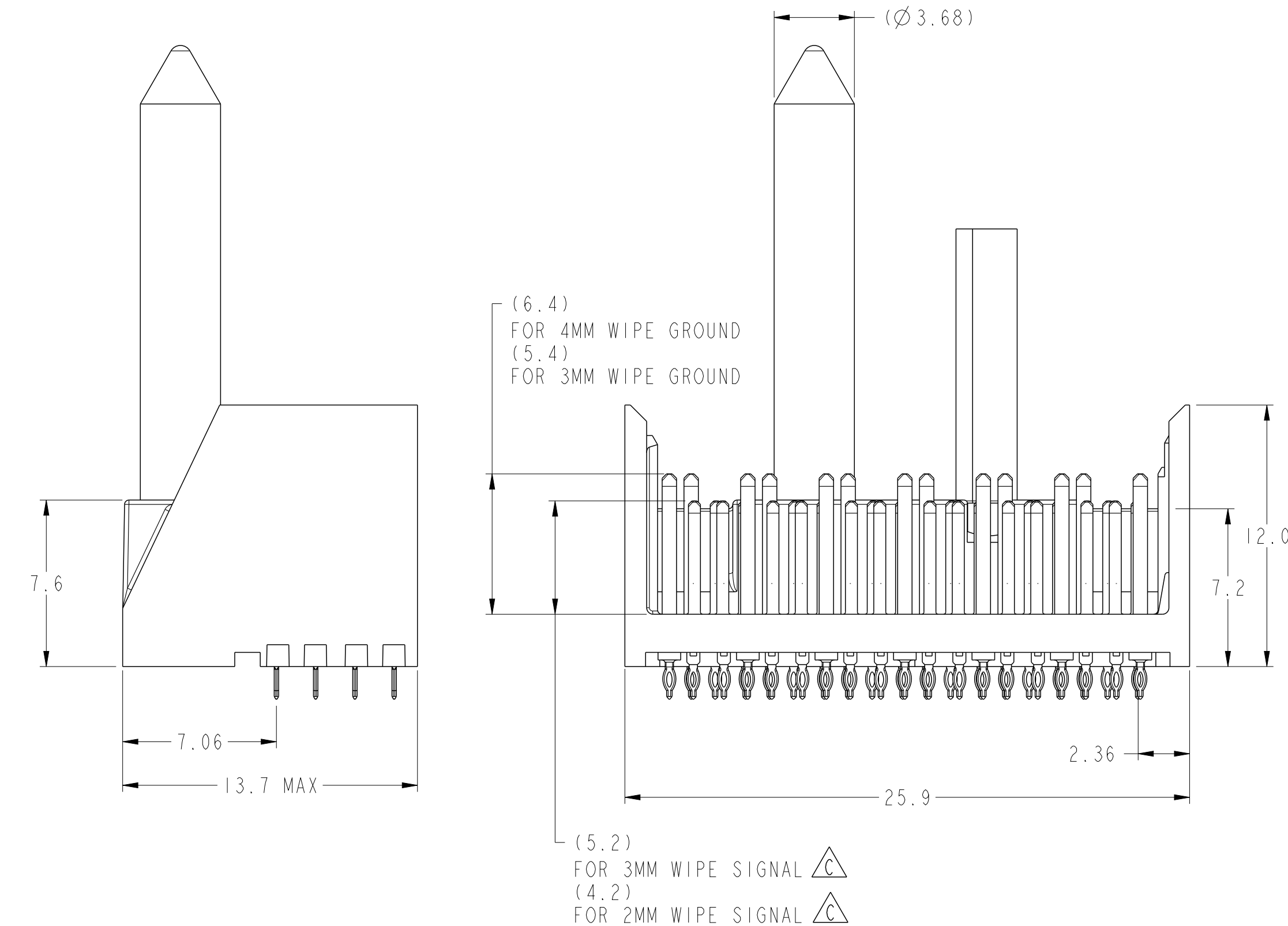
BP HOLE PATTERN COMPONENT SIDE
LEFT POLARIZING GUIDE MODULE
BACKPLANE FOOTPRINT

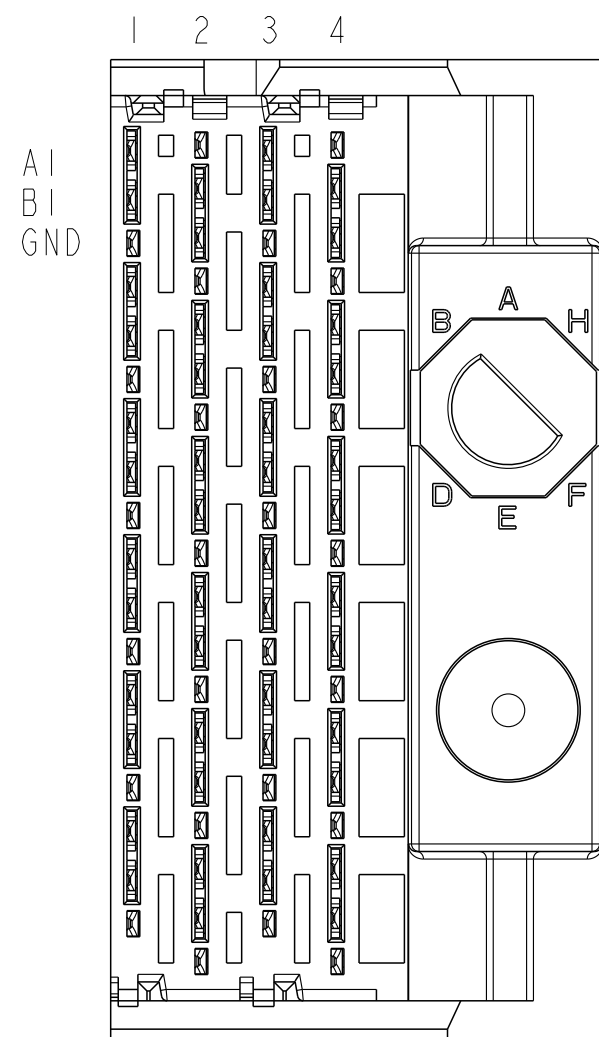
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tolerance std		-		eng		Sandar Soe		2016/03/07								ecn no		ELX-S-17624-1		Released					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-								rel level									
				appr		Chen-Hong Tan		2016/03/17								product family		XCEDE HD							
surface				linear		0.X		±0.3				title		VERTICAL HEADER ASSEMBLY		dwg no		10120130		rev		C			
				0.XX		±0.10																			
				0.XXX		±0.05																			
ASME Y14.5				angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 6 of 8							

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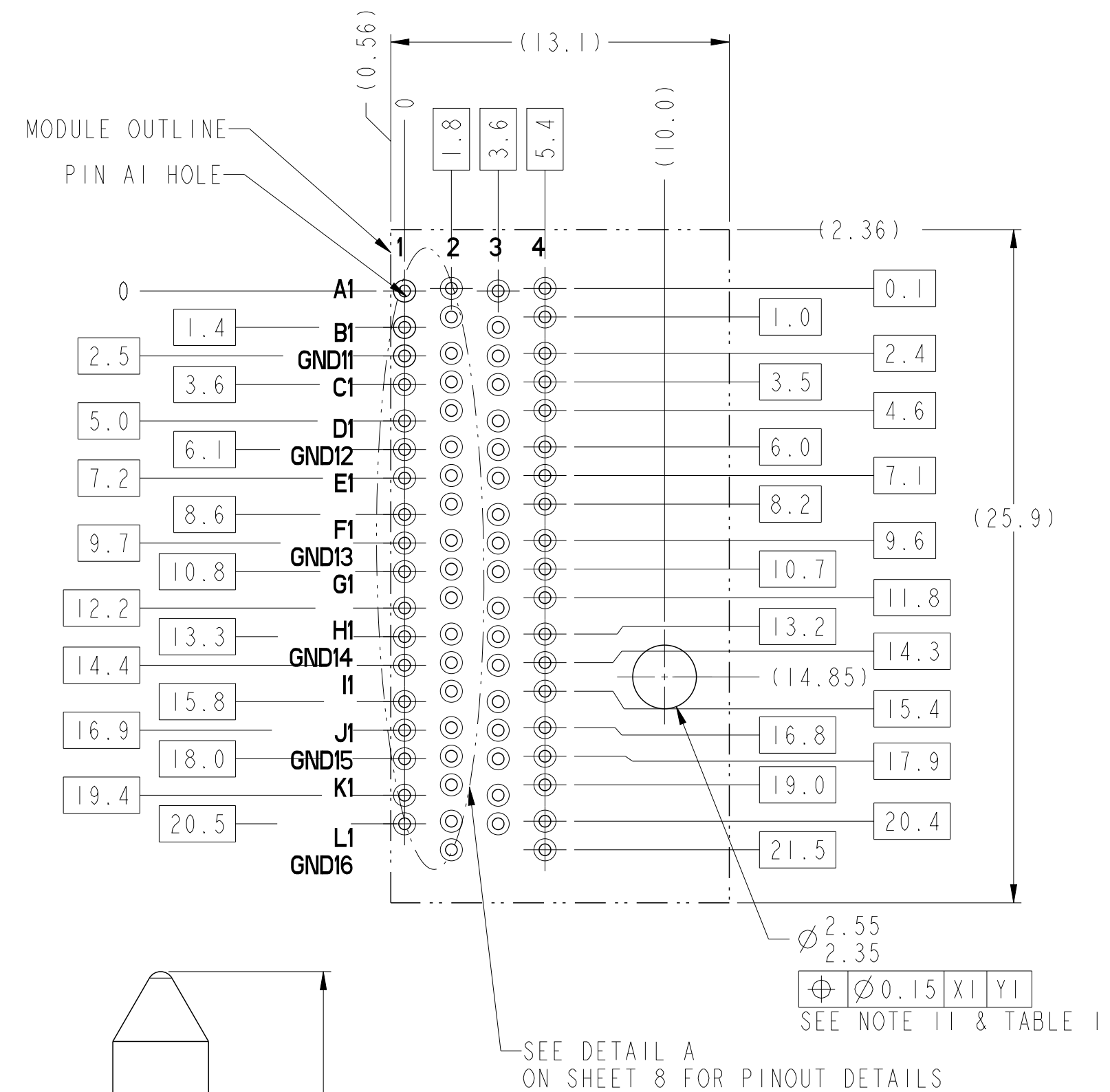
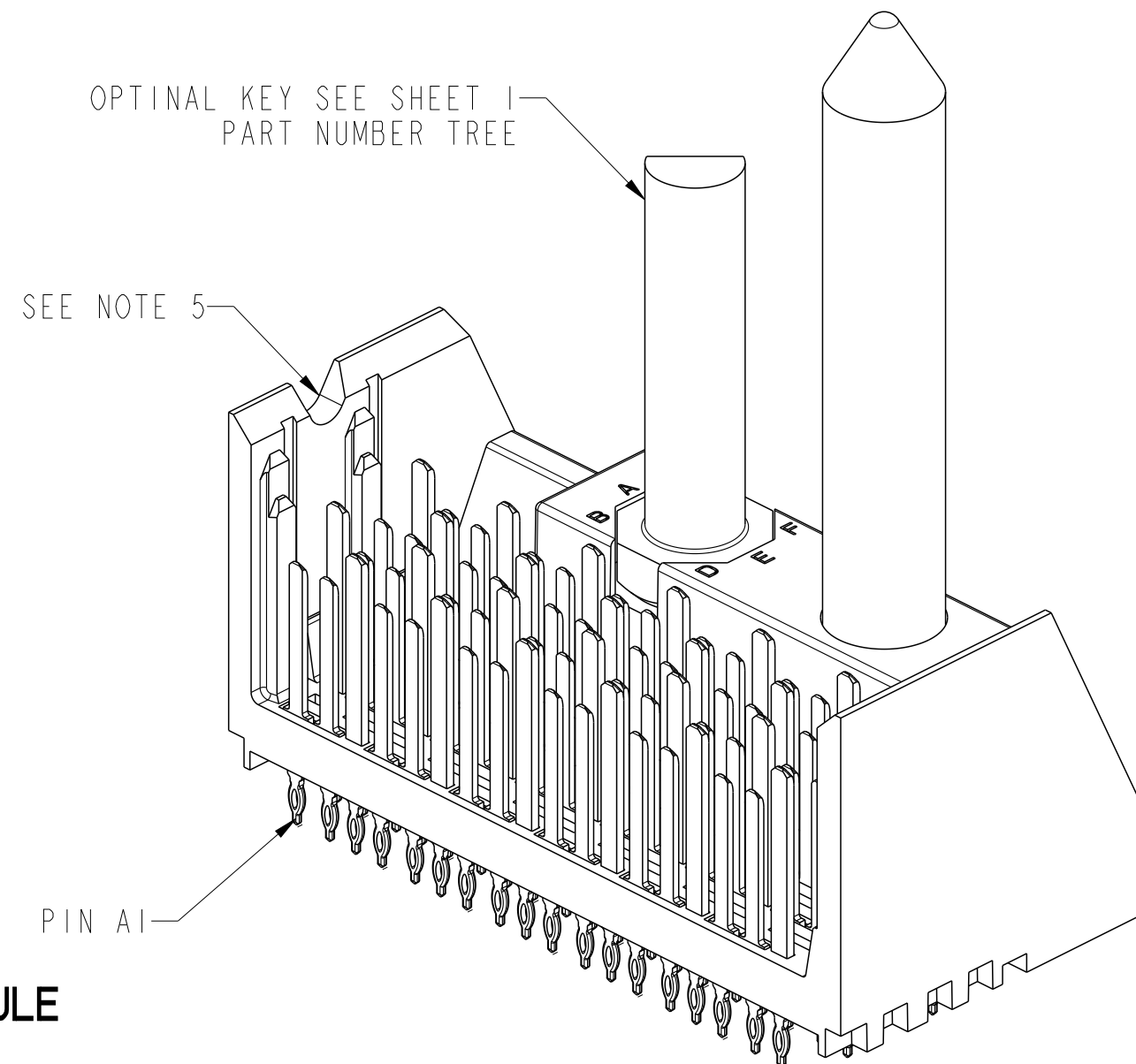
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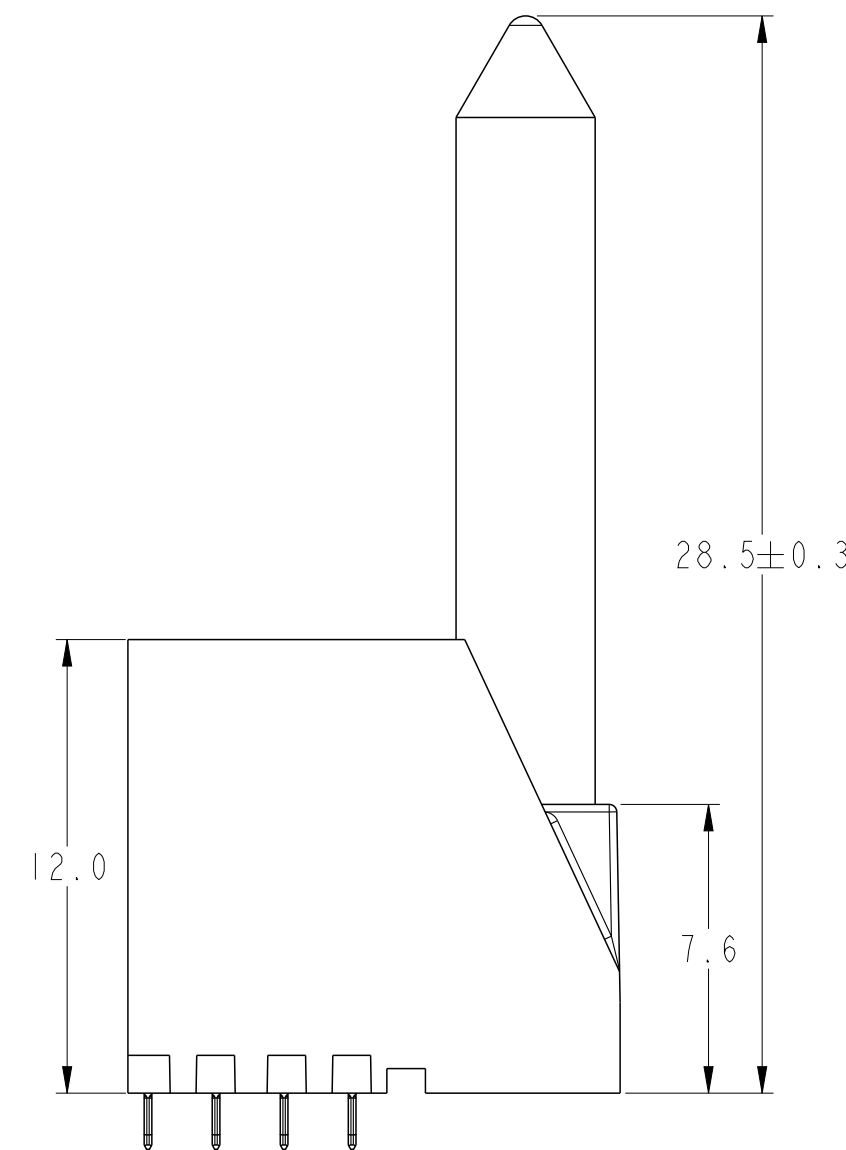
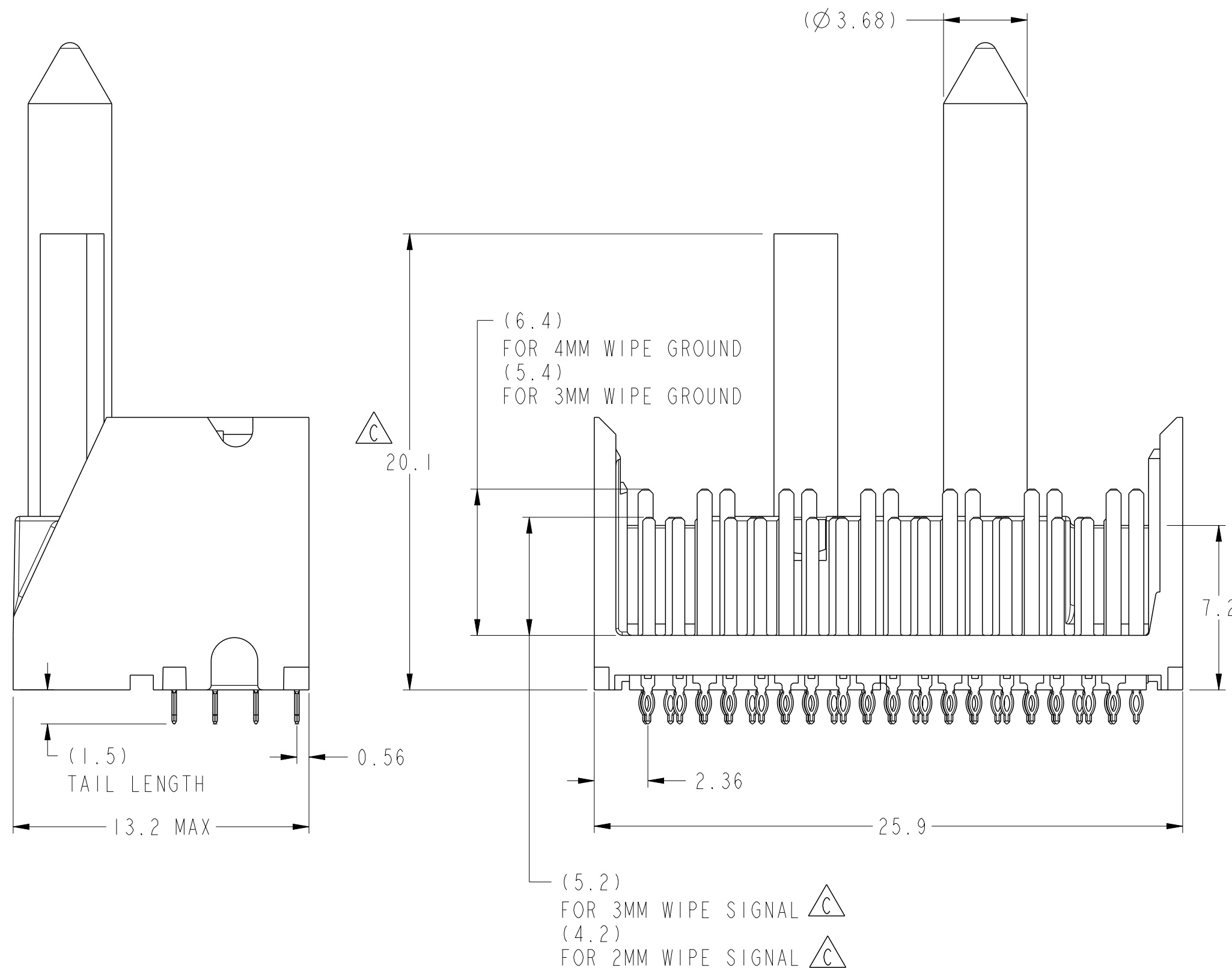




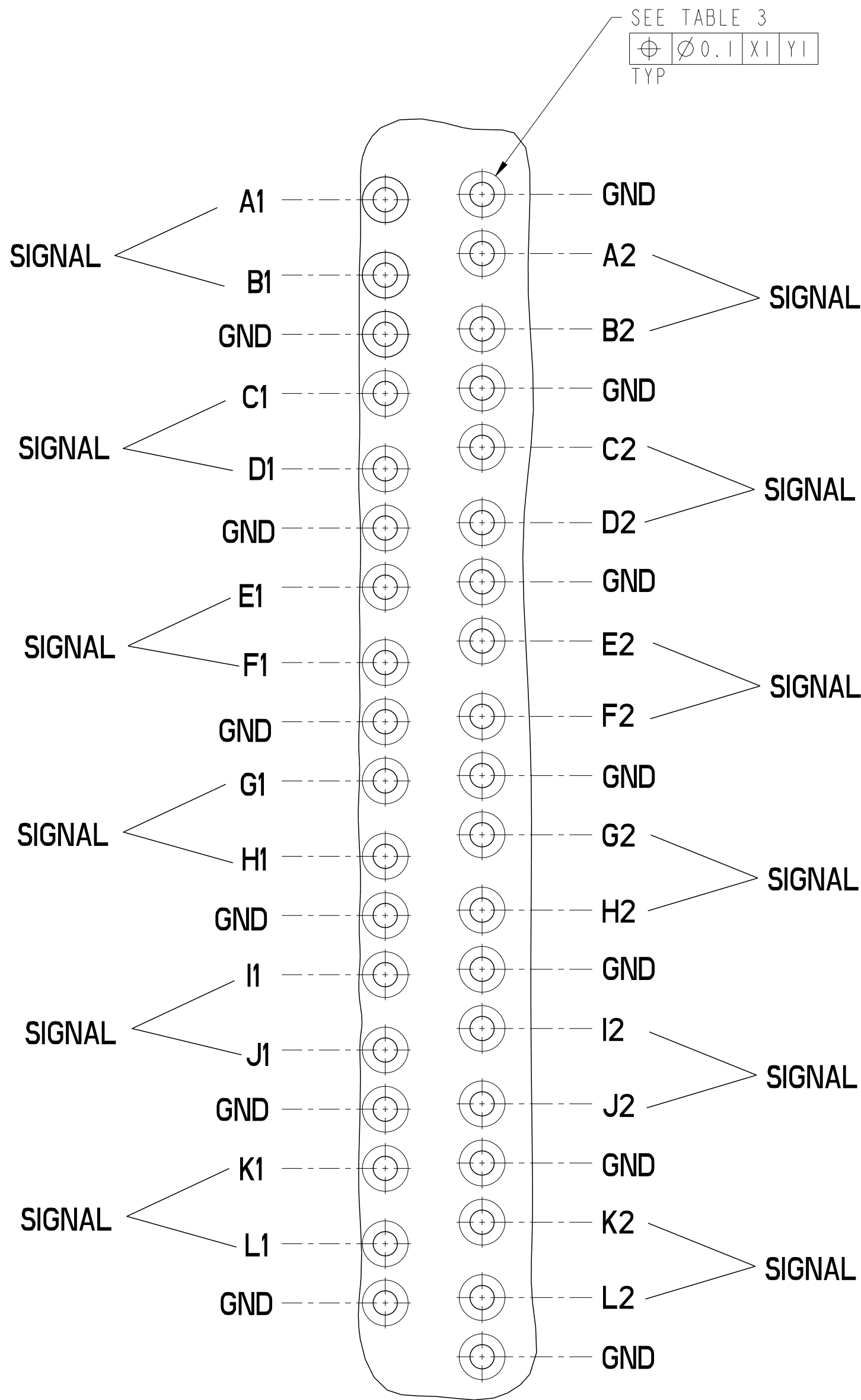
RIGHT POLARIZING GUIDE MODULE



BP HOLE PATTERN COMPONENT SIDE
RIGHT POLARIZING GUIDE MODULE
BACKPLANE FOOTPRINT



spec ref		-		dr		Yong-Keat Lim		2012/02/22		projection		MM		size		A2		scale		5:1			
tolerance std		-		eng		Sandar Soe		2016/03/07						ecn no		ELX-S-17624-1		rel level		Released			
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-						product family		XCED HD							
				appr		Chen-Hong Tan		2016/03/17															
surface				linear		0.X		±0.3		Amphenol FCI		title		VERTICAL HEADER ASSEMBLY		drg no		10120130		rev		C	
				0.XX		±0.10																	
				0.XXX		±0.05																	
ASME Y14.5				angular		0°		±2°		www.fci.com		cat. no.		-		Product -		Customer Drw		sheet 7 of 8			



DETAIL A
SCALE 12:1
PINOUT DETAILS

TABLE 3		
	COMPLIANT PIN DRILL Ø0.55[0.0217"]	COMPLIANT PIN DRILL Ø0.45[0.0117"]
PTH	Ø0.45±0.05	Ø0.36±0.05
DRILL	Ø0.55[0.0217"]	Ø0.45[0.0117"]
PAD	Ø0.85	Ø0.75

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 (10120130-X0J-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 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		Yong-Keat Lim		2012/02/22		projection		MM		size		A2		scale		3:1									
tolerance std		-		eng		Sandar Soe		2016/03/07						ecn no		ELX-S-17624-1		rel level		Released									
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		appr														Chen-Hong Tan		2016/03/17		product family		XCEDE HD	
surface				linear		0.X		±0.3		Amphenol FCi		title		VERTICAL HEADER ASSEMBLY		XCEDE HD 6 PAIR, 4 COLUMN		dwg no		10120130		rev		C					
				0.XX		±0.10																							
				0.XXX		±0.05																							
ASME Y14.5				angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 8 of 8											