

10115091 - 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 5)	N	J	A	B	C	D	E	F	G	H	
	NO KEY NO GUIDE PIN										
RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 5)	Z	Y	P	Q	R	S	T	U	V	W	
	NO KEY NO GUIDE PIN										
OPEN MODULE (TWO WALL) (SEE SHEET 3)	0 (ZERO)										
LEFT WALL MODULE (SEE SHEET 6)	L										
RIGHT WALL MODULE (SEE SHEET 6)	M										
FOUR WALL MODULE (SEE SHEET 6)	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

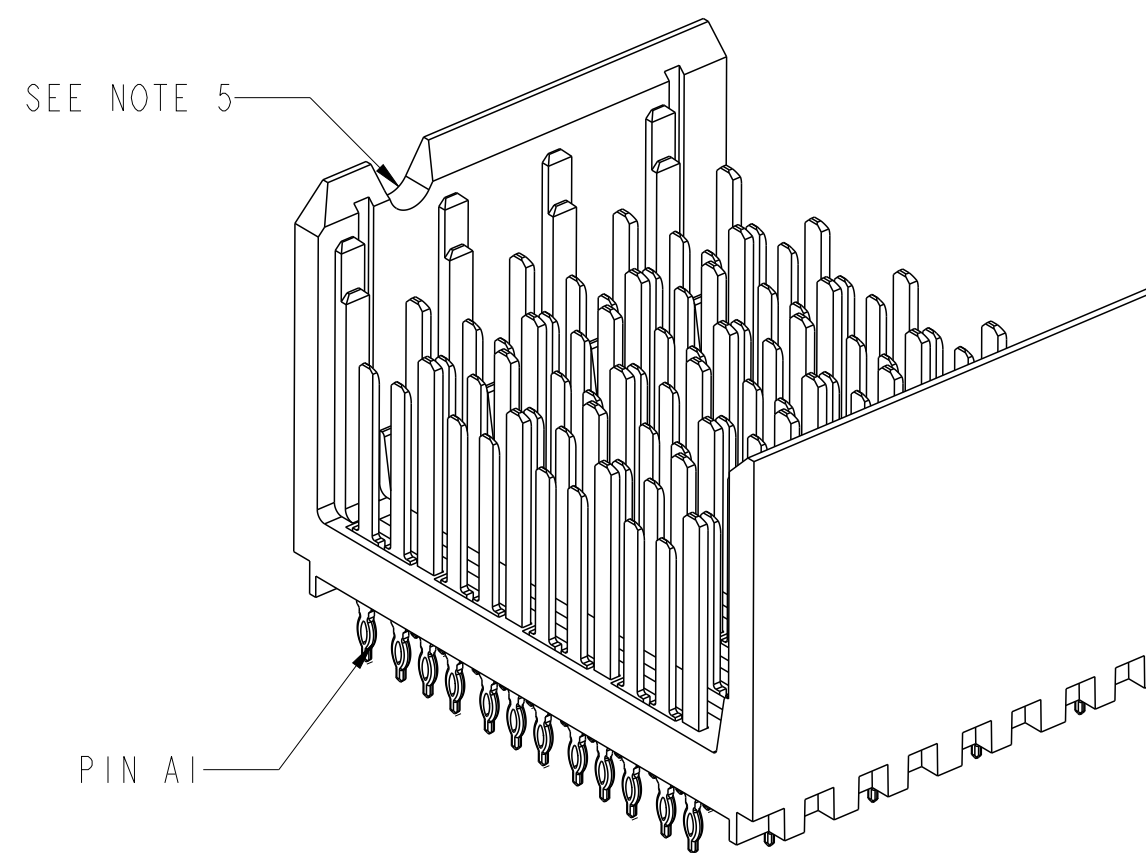
FOR CUSTOM-LOADED MODULES, SEE INDIVIDUAL CUSTOM DRAWINGS WITH THE DRAWING-NUMBER FORMAT OF 10115091-XXXX, WHERE: "X" DENOTES MODULE TYPE PER CHART ON THIS SHEET "YYYY" IS A SEQUENTIAL NUMBER BEGINNING WITH "0001".

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	2013/03/20			ecn no	ELX-S-14229-1		
chr	-	-				Released		
appr	Chen-Hong Tan	2013/04/09	product family	-	rel level	D		
FCI		title		MODULE ASSEMBLY, XCEDE HD		cat. no.		10115091
www.fci.com		Veritcal Header, 4 Pair 8 Column		Product - Customer Drw		sheet 1 of 8		



MODULE OUTLINE

PIN AI HOLE

Y1

X1

0

A1

B1

GND11

C1

D1

GND12

E1

F1

GND13

G1

H1

GND14

1.4

2.5

3.6

5

6.1

7.2

8.6

9.7

10.8

12.2

13.3

1.8

3.6

5.4

7.2

9

10.8

12.6

0.1

2.4

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9.6

10.7

11.8

13.2

14.3

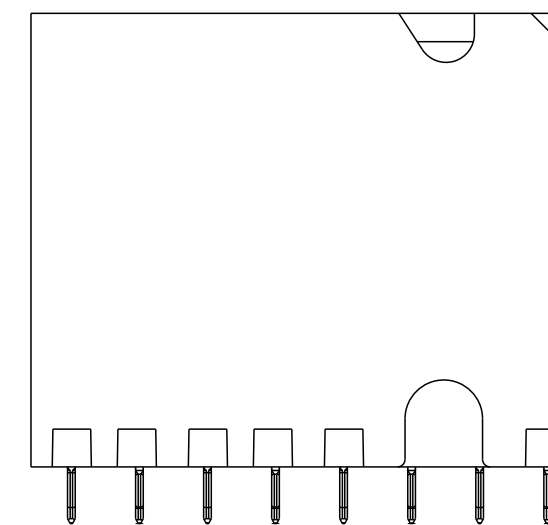
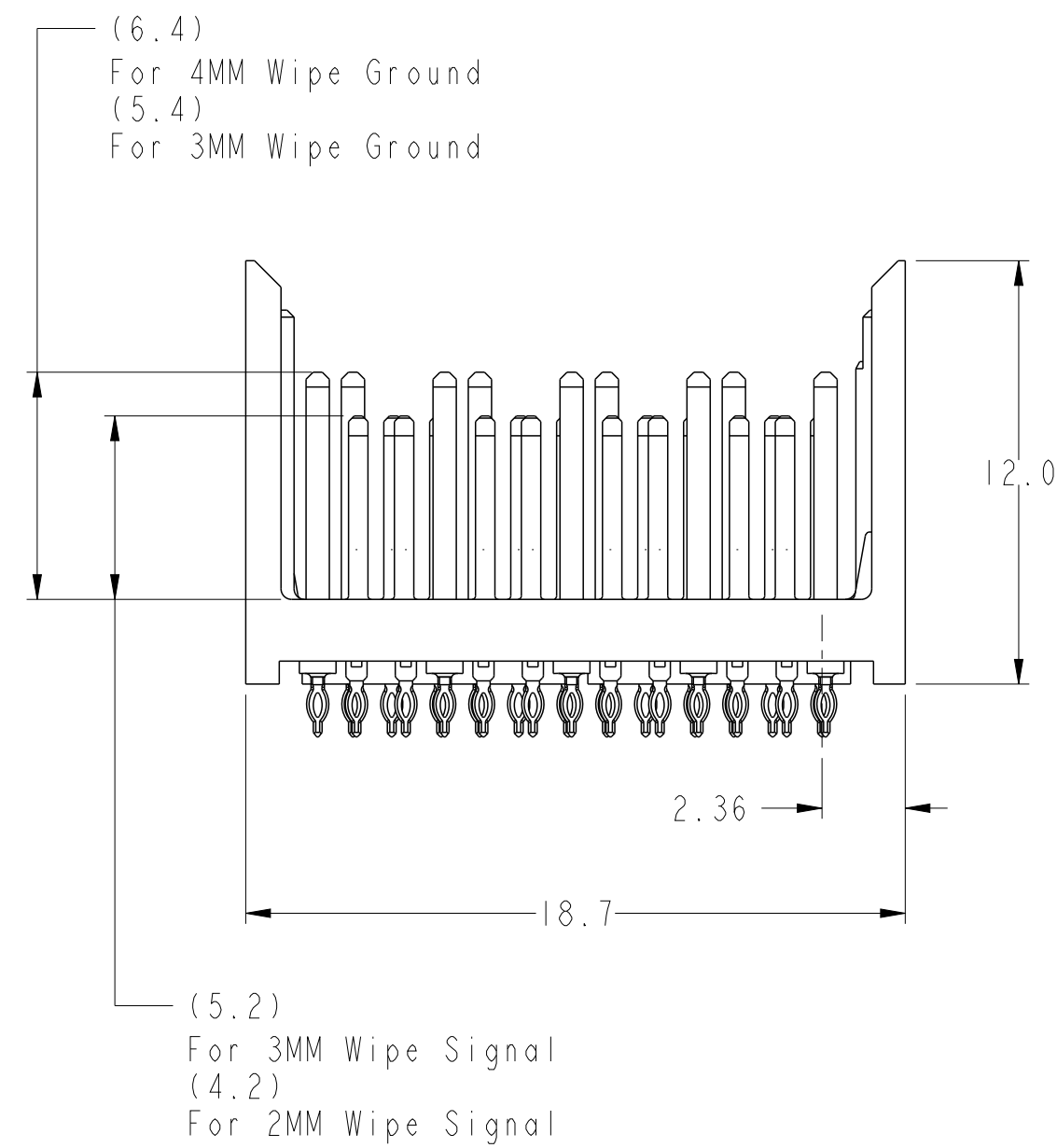
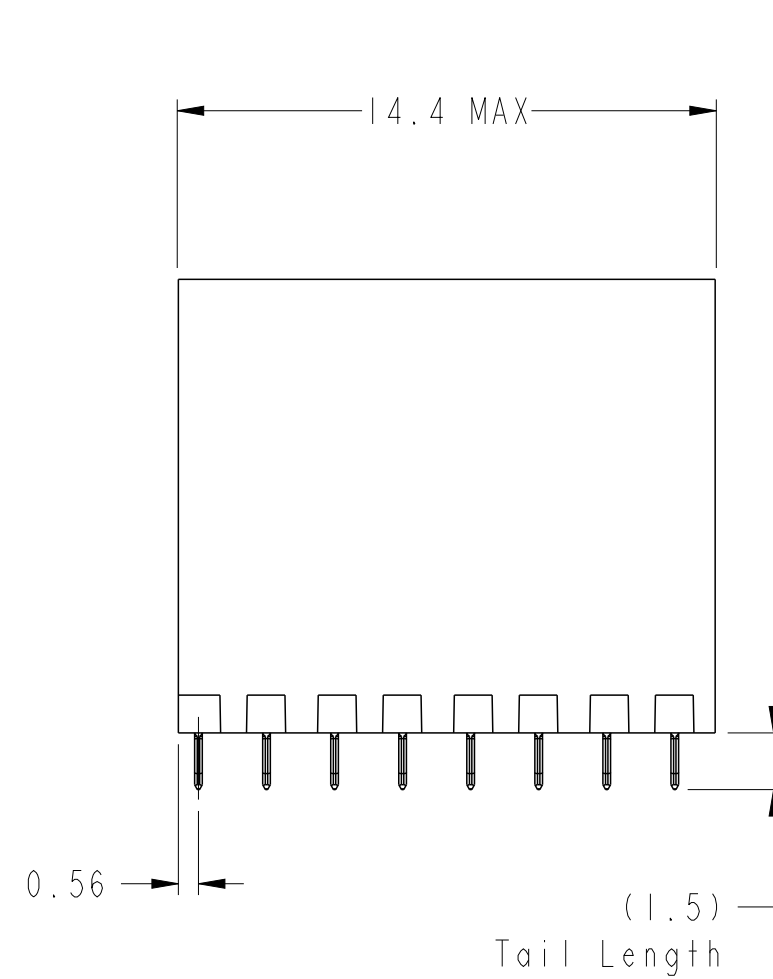
(0.56)

(14.3)

(2.36)

(18.7)

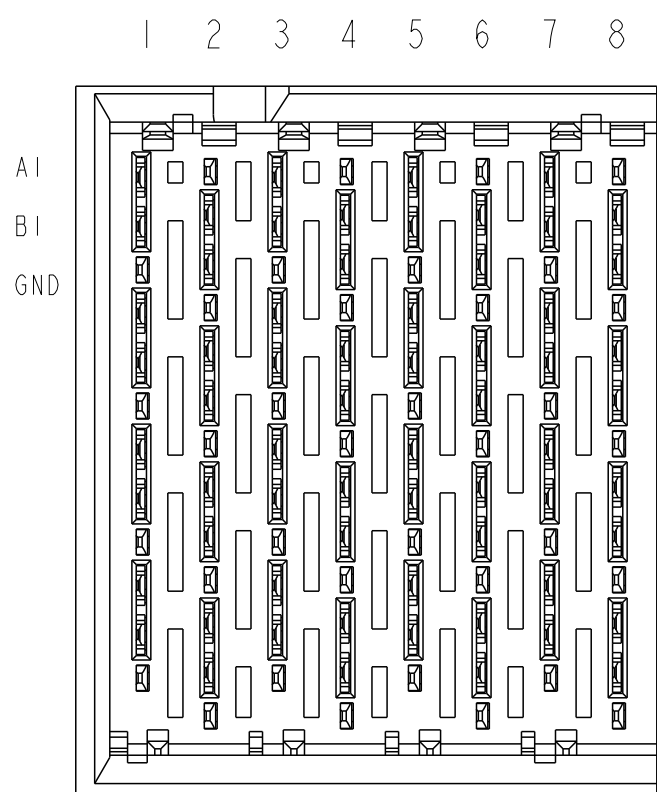
SEE DETAIL A
On Sheet 8 For Details



BP HOLE PATTERN COMPONENT SIDE

OPEN WALL MODULE BACKPLANE FOOTPRINT

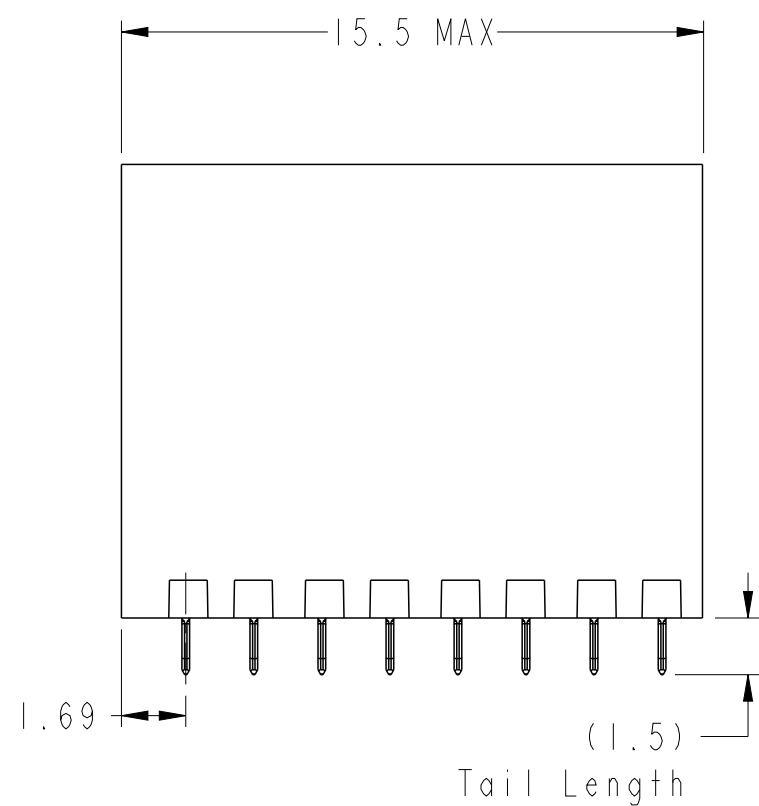
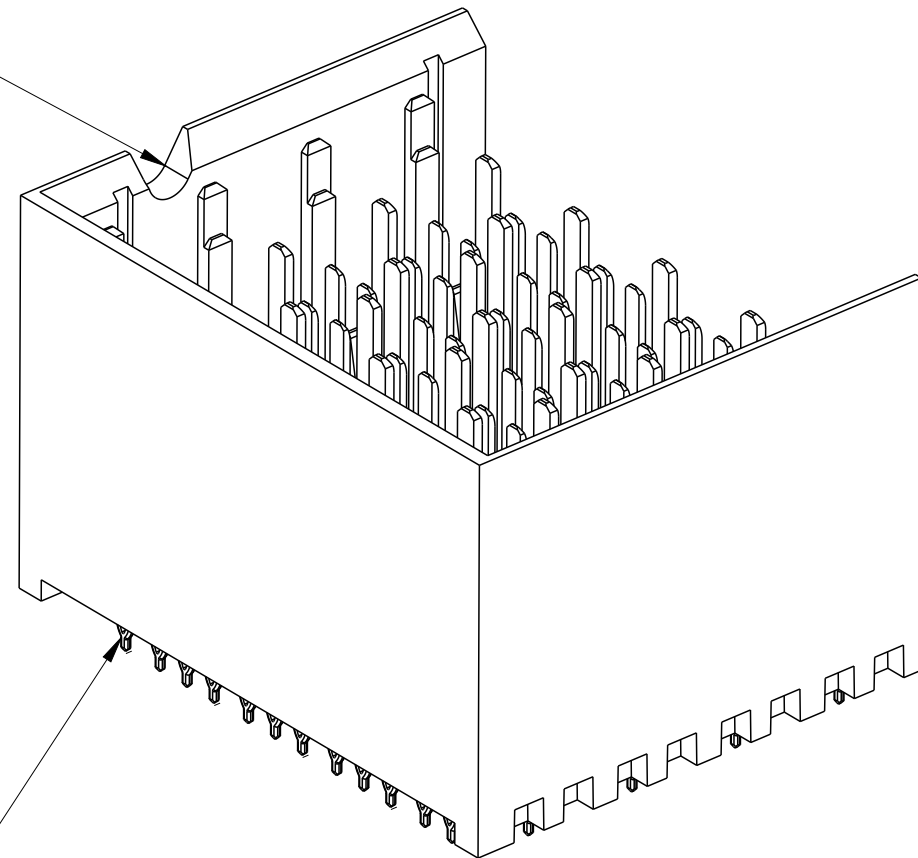
A
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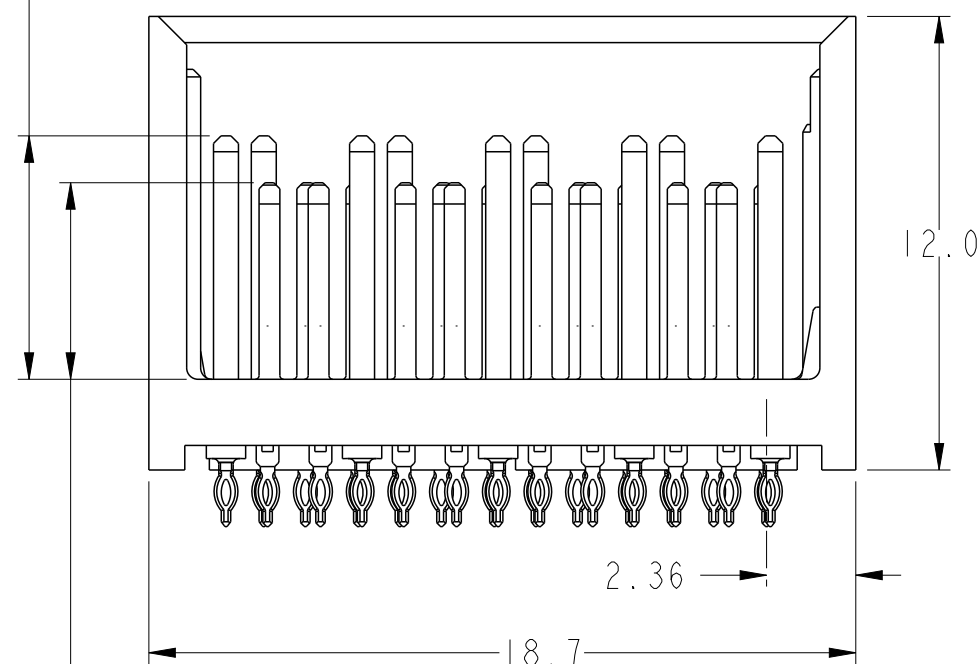
LEFT WALL MODULE

SEE NOTE 5

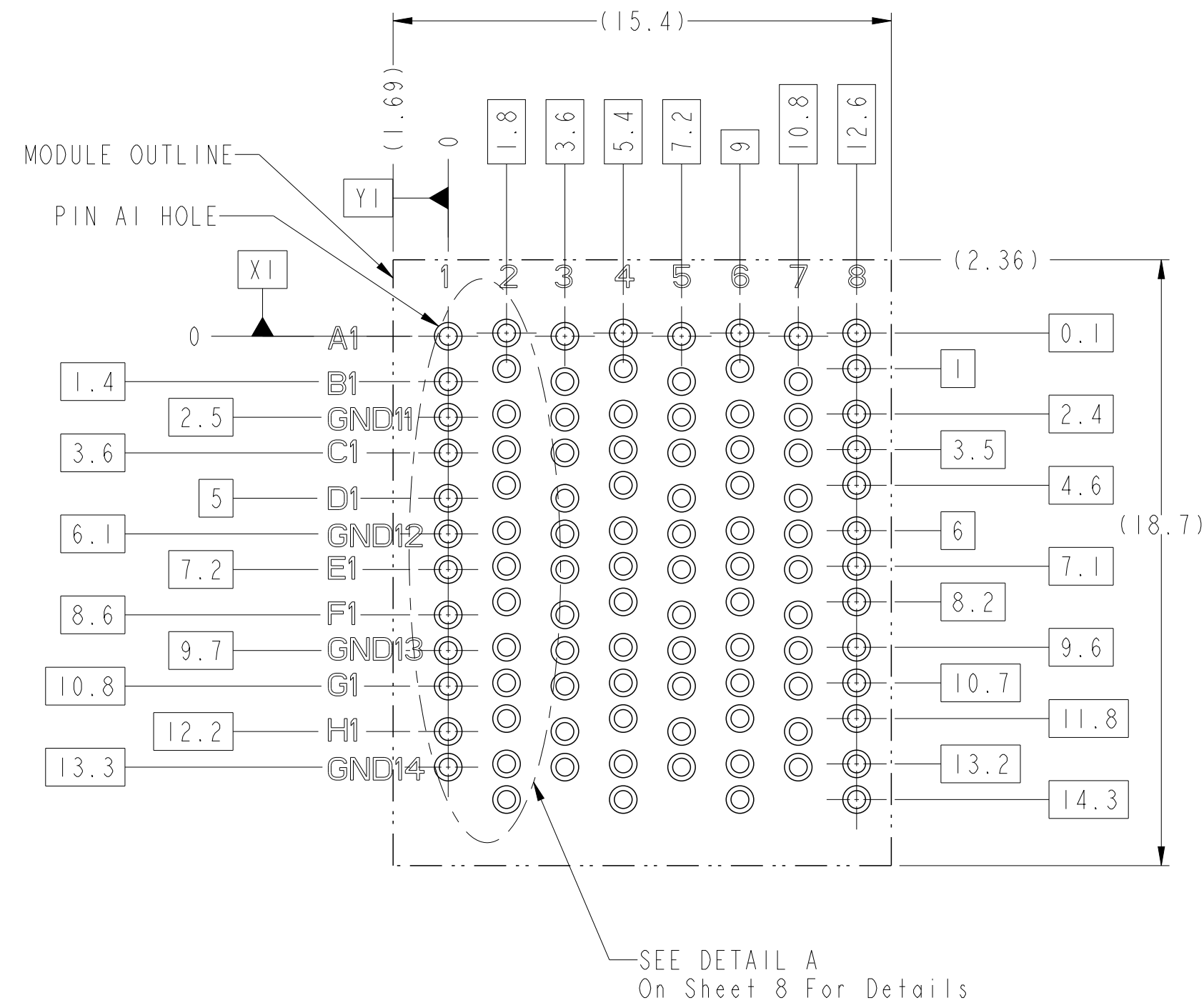
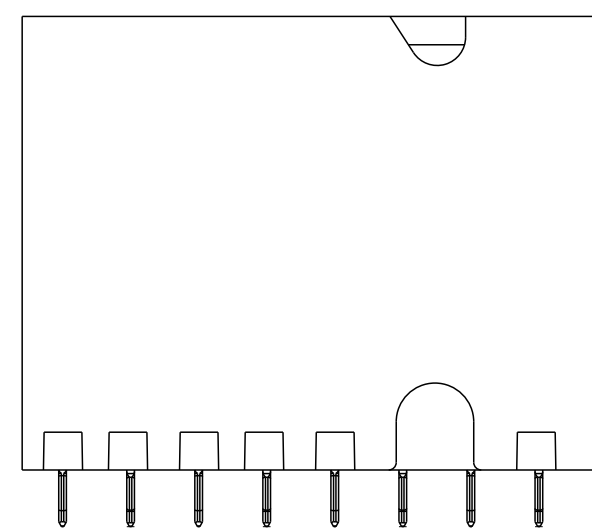
PIN AI



(6.4)
For 4MM Wipe Ground
(5.4)
For 3MM Wipe Ground



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



SEE DETAIL A
On Sheet 8 For Details

BP HOLE PATTERN COMPONENT SIDE
LEFT WALL MODULE BACKPLANE FOOTPRINT



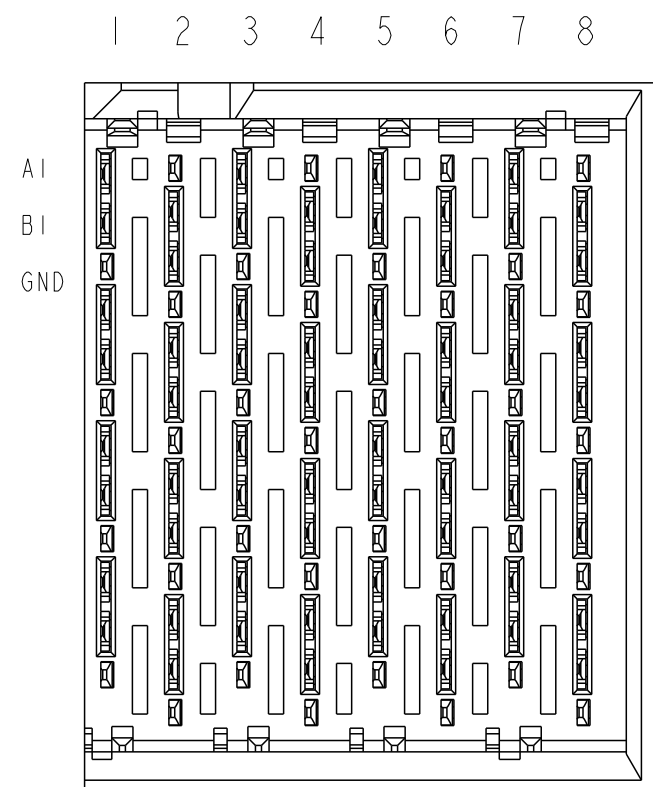
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spec ref	-	dr	Collins Lu	2011/07/27	projection	mm	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Sandar Soe	2013/03/20	chr	-	ecn no	ELX-S-14229-1	rel level	Released
surface	ISO 1302	appr	Chen-Hong Tan	2013/04/09	product family	-	cat. no.	Product - Customer Drw	sheet 3 of 8	rev
linear	0.X ±0.3 0.XX ±0.10 0.XXX ±0.05	angular	0° ±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 8	rev	D

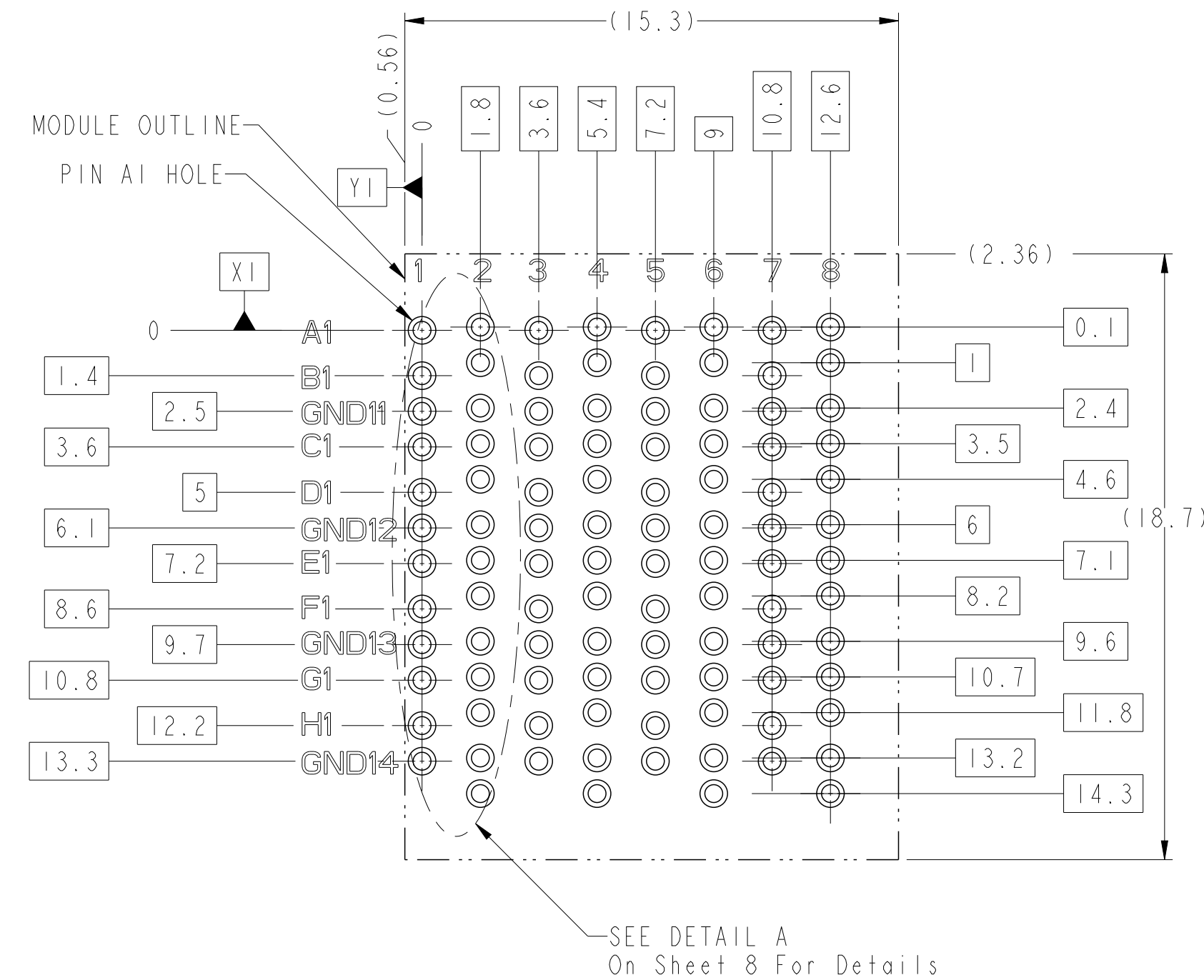
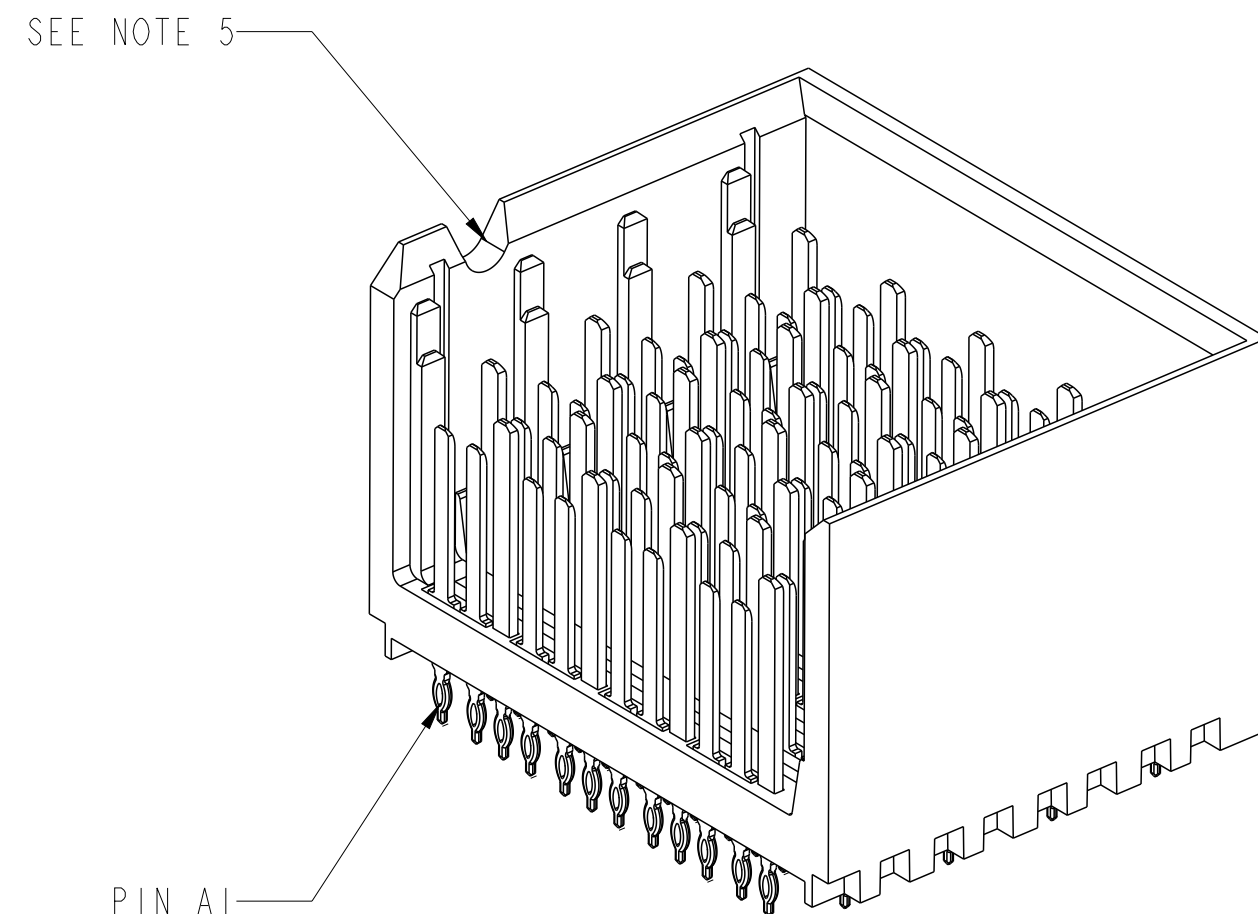
PDS: Rev :D

STATUS:Released

Printed: Apr 10, 2013

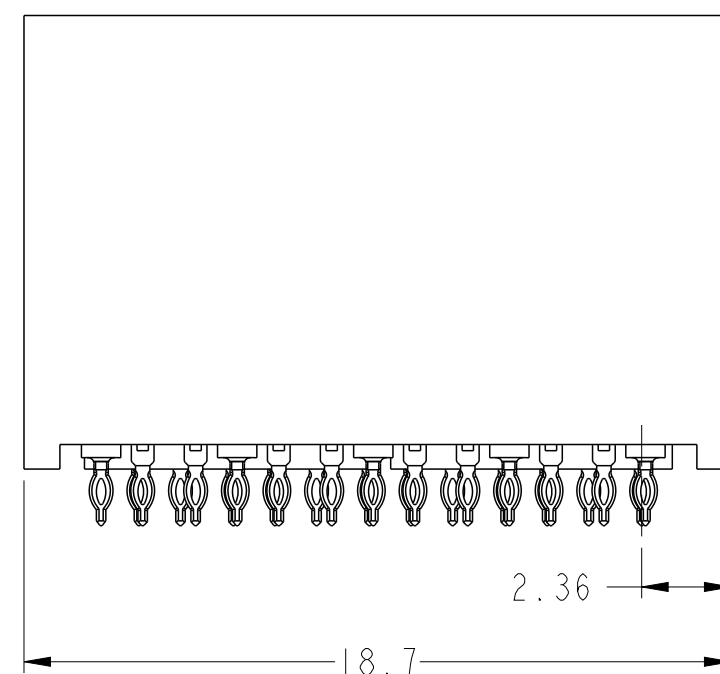
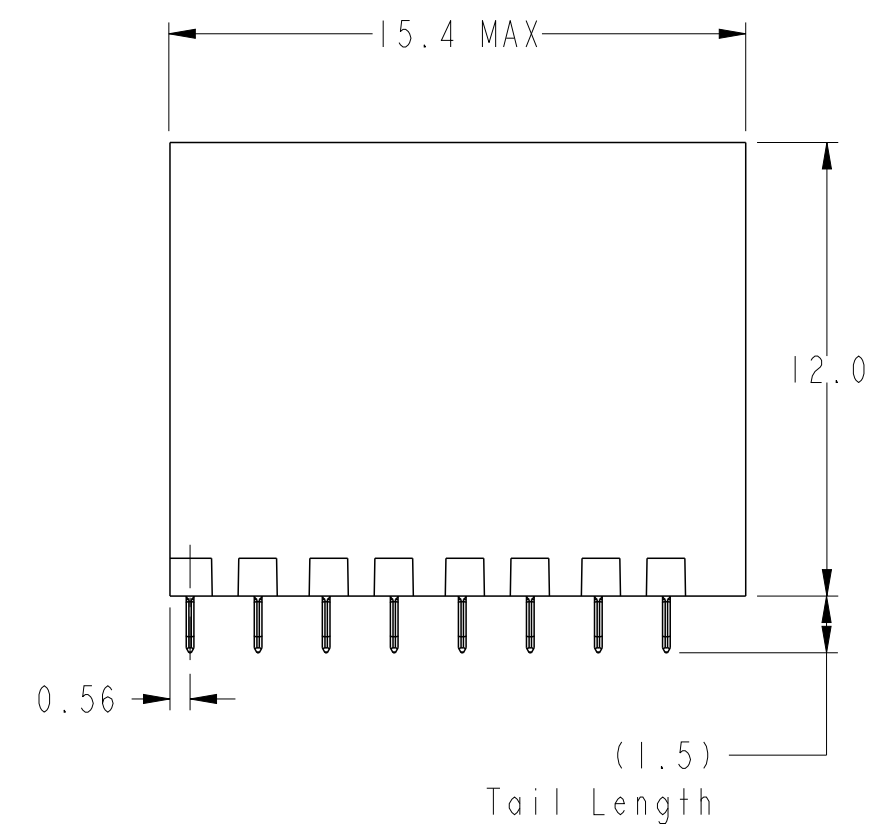
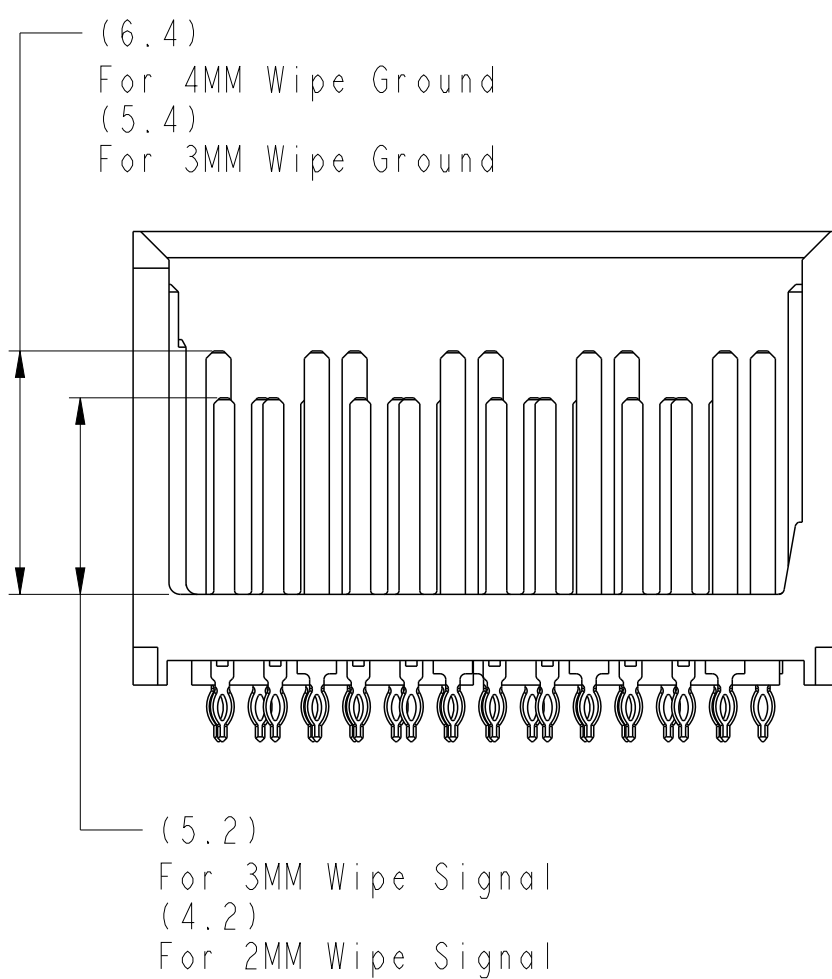


RIGHT WALL MODULE

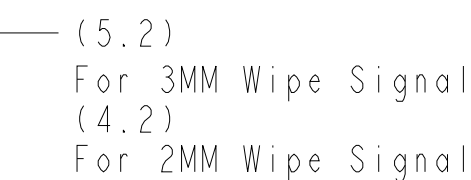
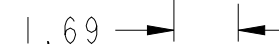


BP HOLE PATTERN COMPONENT SIDE

RIGHT WALL MODULE BACKPLANE FOOTPRINT

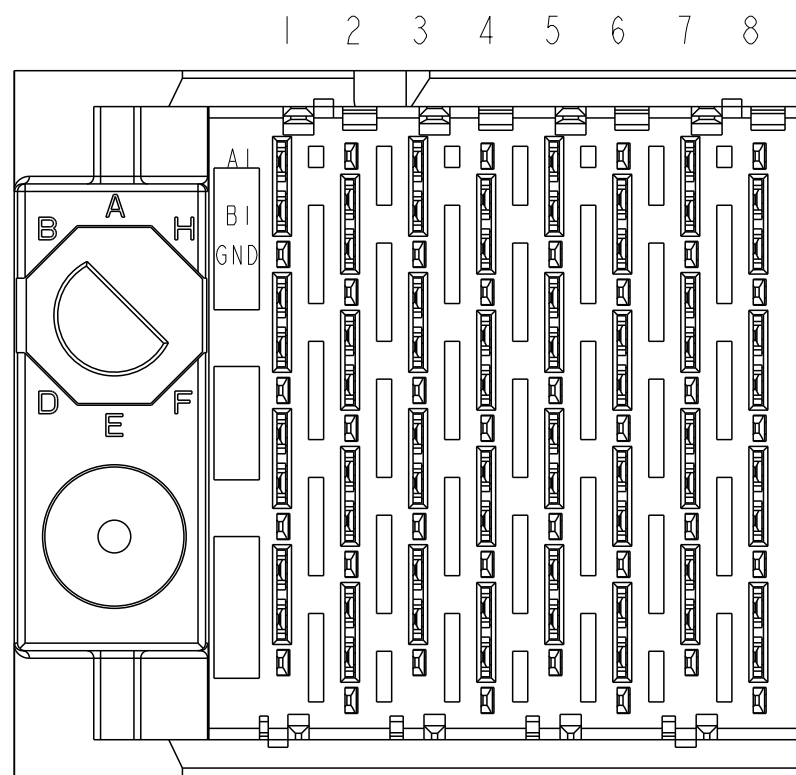


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tolerance std	ISO 406 ISO 1101	eng	Sandar Soe	2013/03/20	chr	-	ecn no	ELX-S-14229-1	rel level	Released
surface	ISO 1302	appr	Chen-Hong Tan	2013/04/09	product family	-	cat. no.	-	Product - Customer Drw	sheet 4 of 8
TOLERANCES UNLESS OTHERWISE SPECIFIED		FCI		MODULE ASSEMBLY, XCEDE HD		10115091		D		
linear		0.X	±0.3	Veritcal Header, 4 Pair 8 Column						
		0.XX	±0.10							
		0.XXX	±0.05							
angular		0°	±2°							



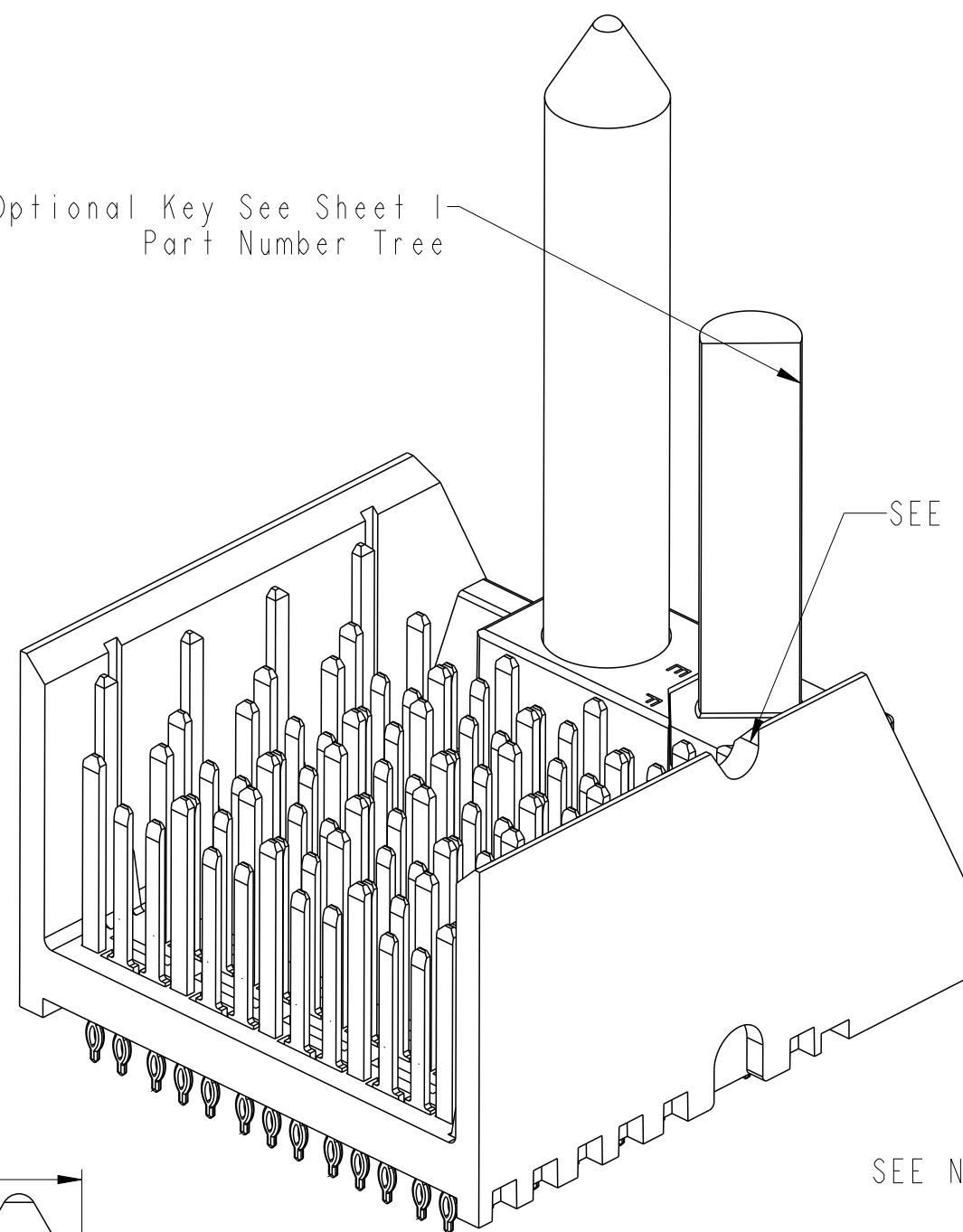
TWO WALL MODULE BACKPLANE FOOTPRINT

Printed: Apr 10, 2013



LEFT POLARIZING/GUIDE MODULE

Optional Key See Sheet 1
Part Number Tree



PIN A1 HOLE

MODULE OUTLINE

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8.6

(9.97)

10.8

13.3

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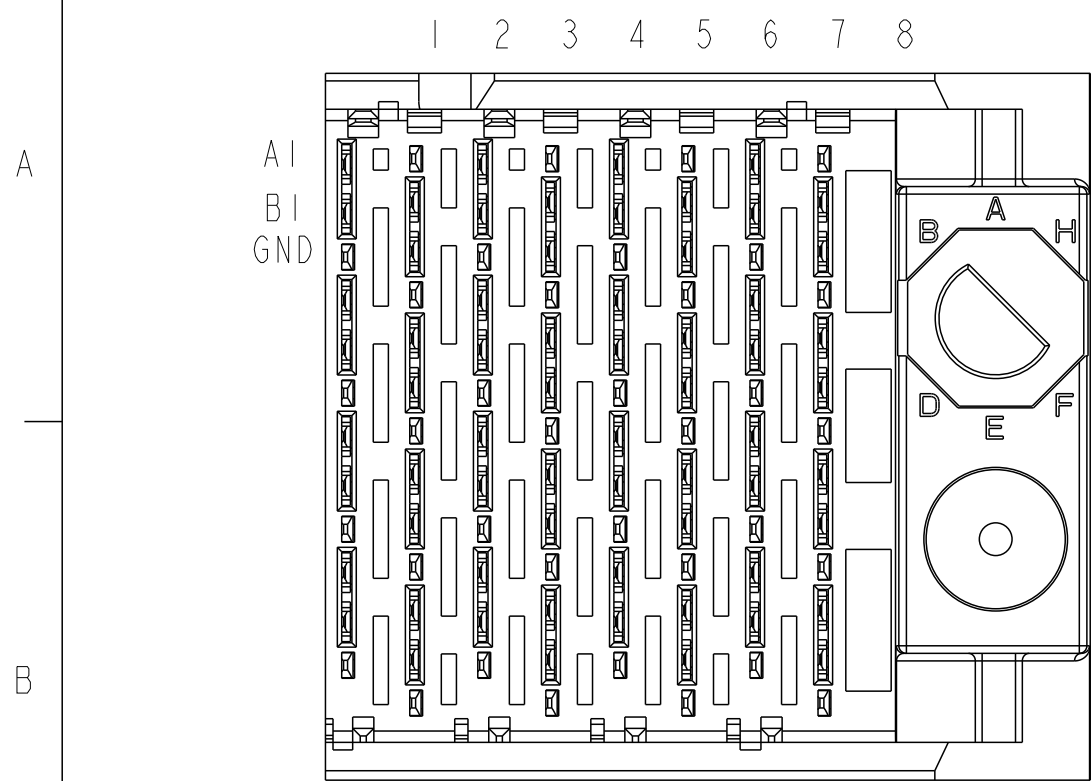
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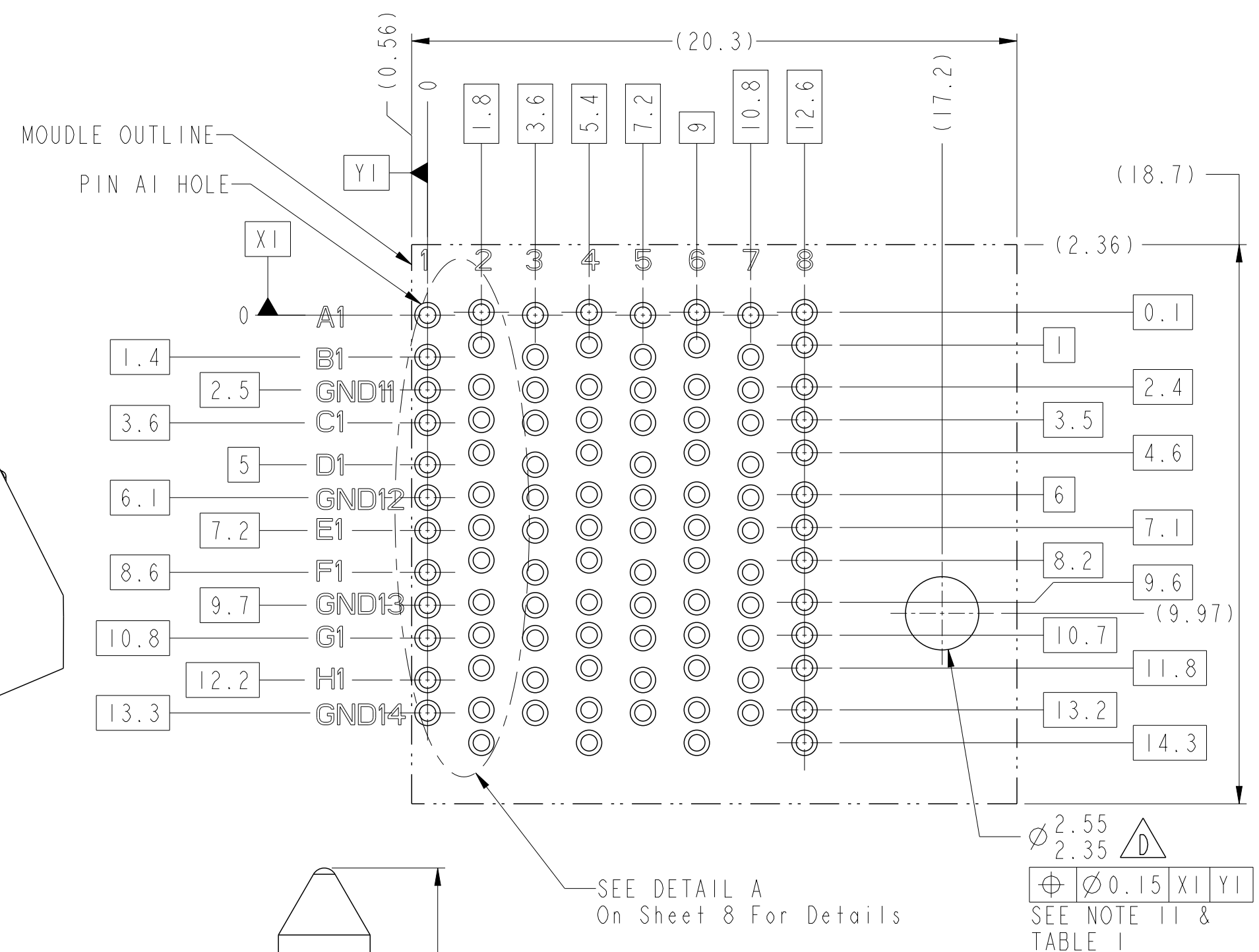
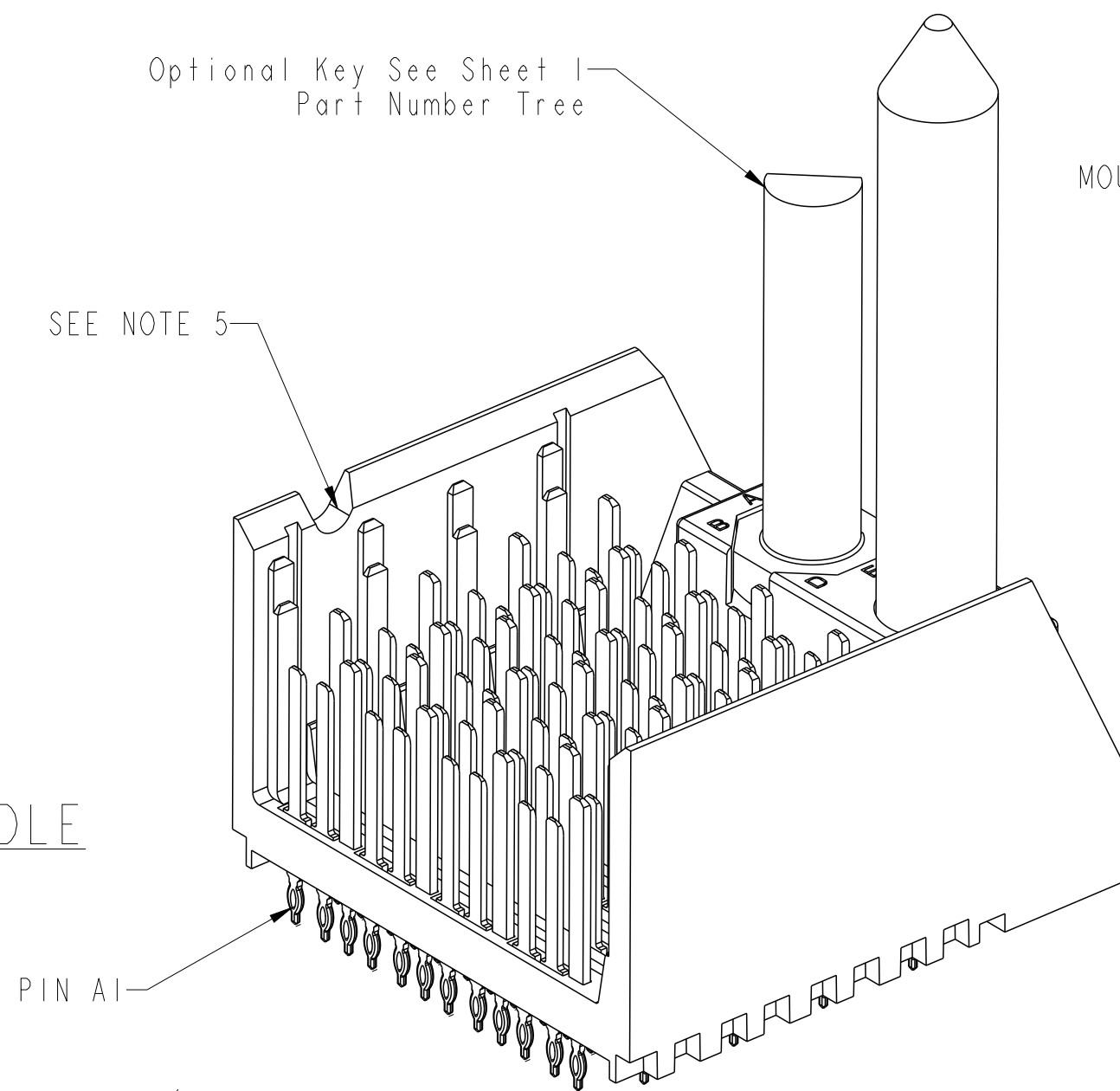
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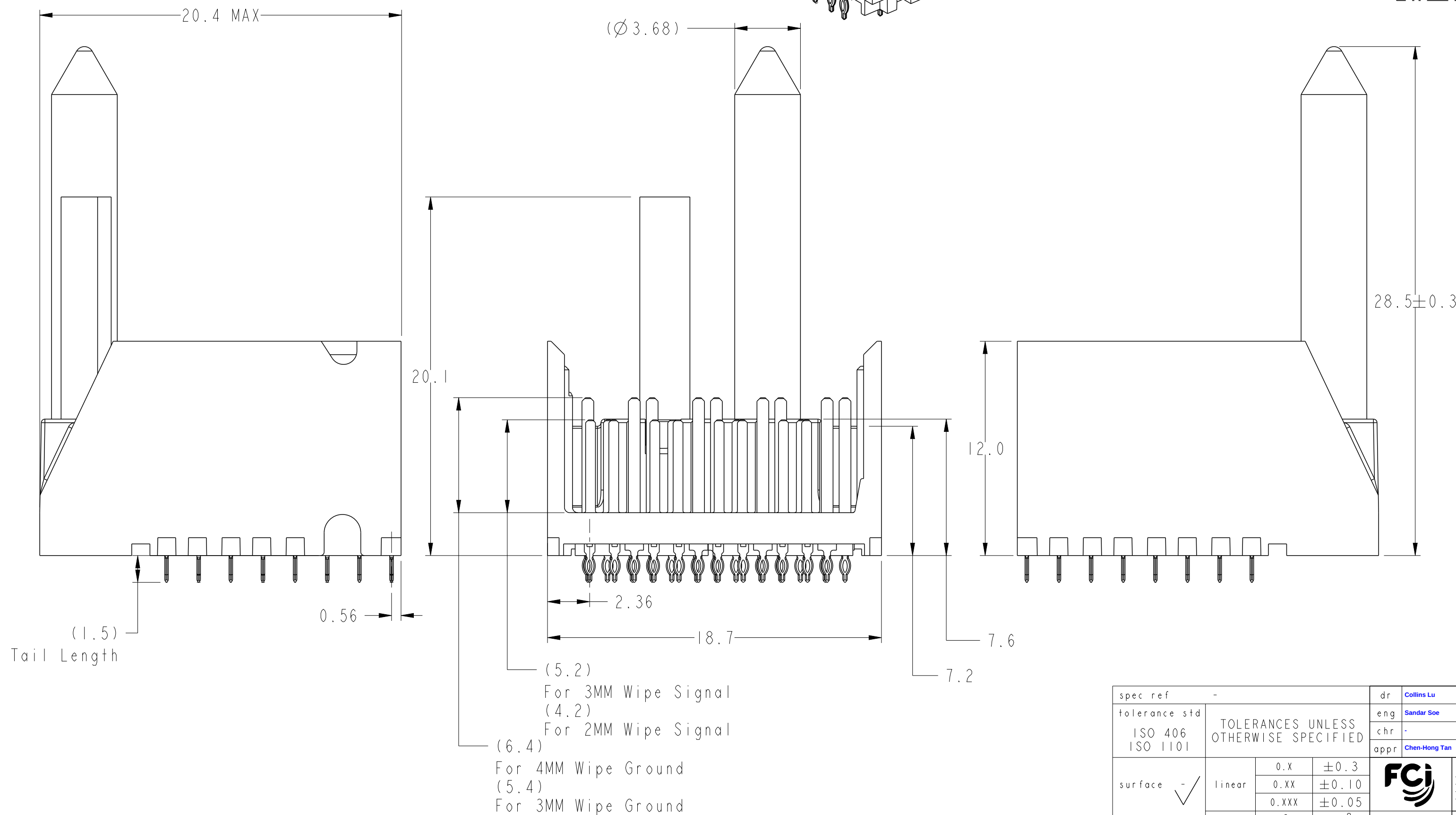
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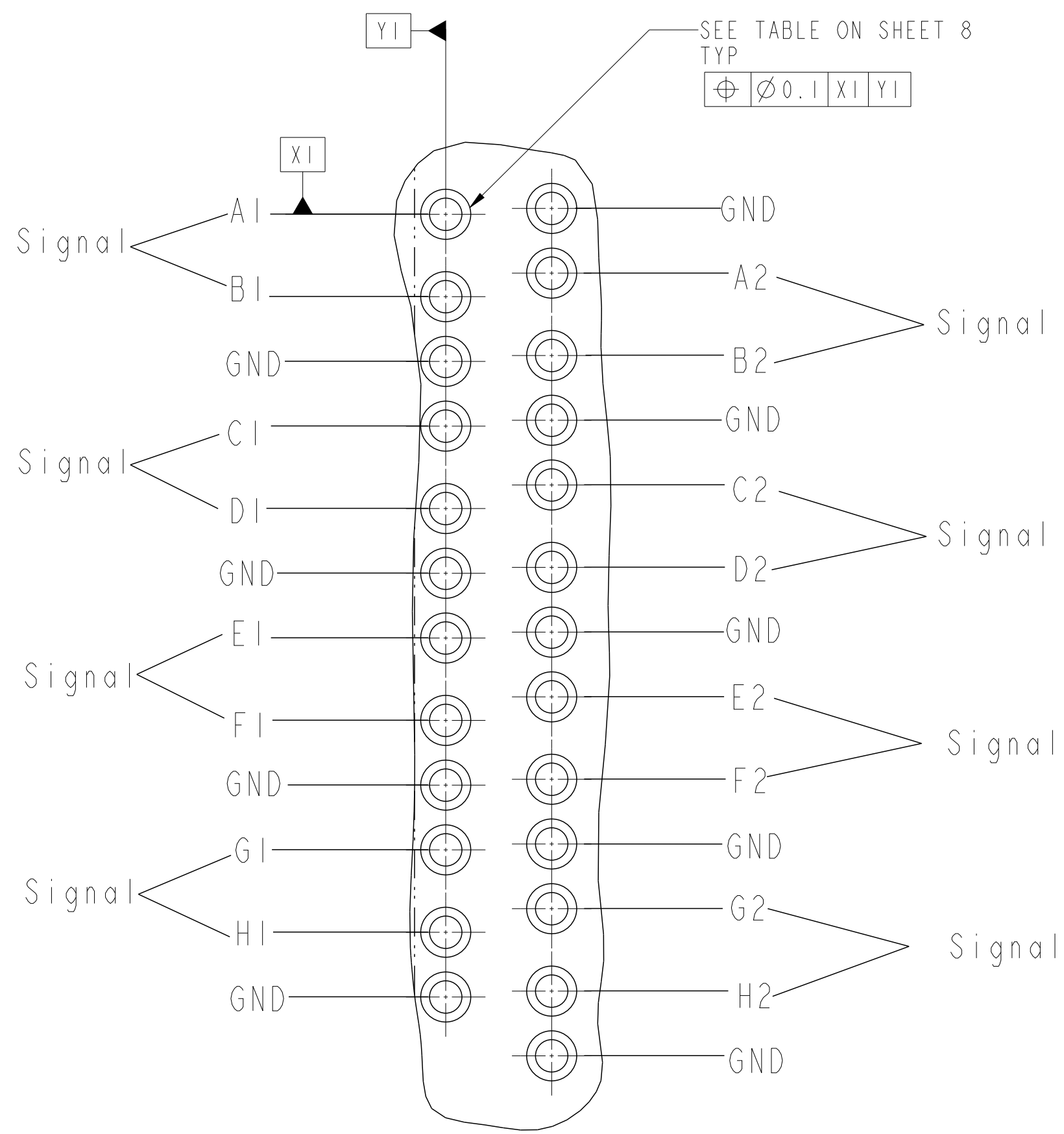
RIGHT POLARIZING/GUIDE MOUDLE



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



spec ref	-	dr	Collins Lu	2011/07/27	projection	mm	size	A2	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Sandar Soe	2013/03/20	chr	-	ecn no	ELX-S-14229-1	rel level	Released
surface	ISO 1302	appr	Chen-Hong Tan	2013/04/09	product family	-	cat. no.	Product - Customer Drw	sheet 7 of 8	rev
TOLERANCES UNLESS OTHERWISE SPECIFIED		FCI		MODULE ASSEMBLY, XCEDE HD		10115091		D		
linear		0.X ±0.3		0.XX ±0.10		0.XXX ±0.05		angular		0° ±2°



DETAIL A
SCALE 12:1

TABLE 3		
	COMPLIANT PIN DRILL $\varnothing 0.55[0.0217"]$	COMPLIANT PIN 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 Δ SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.
- Δ (1) OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 SHEET 1 FOR ADDITIONAL DETAILS.
- Δ (2) 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 ISO 1101	eng	Sandar Soe	2013/03/20	chr	-	ecn no	ELX-S-14229-1	rel level	Released
surface	ISO 1302	appr	Chen-Hong Tan	2013/04/09	product family	Module Assembly, XCEDE HD	cat. no.	10115091	rev	D
linear	0.X ± 0.3 0.XX ± 0.10 0.XXX ± 0.05	angular	0° $\pm 2^\circ$	www.fci.com	Product - Customer Drw	sheet 8 of 8				

Mouser Electronics

Authorized Distributor

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10115091-V0E-80DLF	10115091-E0E-80DLF	10115091-Y0E-60DLF	10115091-R0E-70DLF	10115091-A0E-70DLF
10115091-10E-50DLF	10115091-D0E-70DLF	10115091-V0E-20DLF	10115091-P0E-80DLF	10115091-M0E-30DLF
10115091-H0E-70DLF	10115091-G0E-10DLF	10115091-Q0E-40DLF	10115091-U0E-10DLF	10115091-A0E-10DLF
10115091-Q0E-60DLF	10115091-B0E-70DLF	10115091-E0E-70DLF	10115091-S0E-40DLF	10115091-10E-20DLF
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10115091-L0E-50DLF	10115091-P0E-40DLF	10115091-V0E-50DLF	10115091-C0E-60DLF	10115091-L0E-70DLF
10115091-00E-60DLF	10115091-H0E-10DLF	10115091-M0E-40DLF	10115091-P0E-60DLF	10115091-A0E-20DLF
10115091-S0E-60DLF	10115091-J0E-20DLF	10115091-E0E-60DLF	10115091-A0E-30DLF	10115091-W0E-50DLF
10115091-H0E-50DLF	10115091-W0E-70DLF	10115091-S0E-20DLF	10115091-U0E-80DLF	10115091-10E-60DLF
10115091-00E-20DLF	10115091-L0E-80DLF	10115091-B0E-30DLF	10115091-H0E-30DLF	10115091-F0E-10DLF
10115091-P0E-50DLF	10115091-B0E-10DLF	10115091-W0E-20DLF	10115091-B0E-50DLF	10115091-G0E-30DLF
10115091-C0E-20DLF	10115091-Y0E-70DLF	10115091-G0E-20DLF	10115091-F0E-60DLF	10115091-10E-40DLF
10115091-S0E-30DLF	10115091-T0E-20DLF	10115091-V0E-70DLF	10115091-00E-50DLF	10115091-F0E-40DLF
10115091-M0E-50DLF	10115091-H0E-20DLF	10115091-R0E-80DLF	10115091-T0E-30DLF	10115091-Y0E-10DLF