

10119189 - X0C - XXXLF

LEAD-FREE DESIGNATION
ONLY WITH APPLICABLE
PLATING CODES

6-COLUMN
DIFFERENTIAL
SIGNAL

LETTER	PERFORMANCE-BASED PLATING (SEE NOTE 2)	
	TARGET APPLICATION	LEAD-FREE (LF)
B	TELCORDIA CO	NO
C	TELCORDIA UE	NO
D	TELCORDIA CO	YES
E	TELCORDIA UE	YES

NUMBER	GUIDE PIN STYLE, HEIGHT
0	STANDARD GUIDE PIN MACHINED, 31.6mm
4	STANDARD GUIDE PIN MACHINED, 25.7mm

NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	GROUND	
1	2	4	Ø0.55 [0.0217"]
2	3	4	Ø0.55 [0.0217"]
3	2	4	Ø0.45 [0.0177"]
4	3	4	Ø0.45 [0.0177"]
5	2	3	Ø0.55 [0.0217"]
6	3	3	Ø0.55 [0.0217"]
7	2	3	Ø0.45 [0.0177"]
8	3	3	Ø0.45 [0.0177"]

TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)		
	GROUNDED	UNGROUNDED
FINISHED	Ø2.35-2.55	Ø2.35-2.55
PAD	Ø5.50	N/A
PLATED	YES	NO
DRILL (mm/in)	2.58/.1015	2.44/.096

TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)		
SCREW P/N	DESCRIPTION	BOARD THICKNESS
10091790-002LF	#2.56 X .375" PHILIPS PANHEAD W/SQ CONICAL WASHER	1.60 - 5.00
10091790-003LF	#2.56 X .500" PHILIPS PANHEAD W/SQ CONICAL WASHER	5.00 - 10.00

MODULE DESCRIPTION	LETTER DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 3)	J	A	B	C	D	E	F	G	H		
RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 4)	Y	P	Q	R	S	T	U	V	W		
OPEN MODULE (TWO WALL) (SEE SHEET 2)	0 (ZERO)										
LEFT WALL MODULE (SEE SHEET 5)	L										
RIGHT WALL MODULE (SEE SHEET 6)	M										
FOUR WALL MODULE (SEE SHEET 7)	I (ONE)										

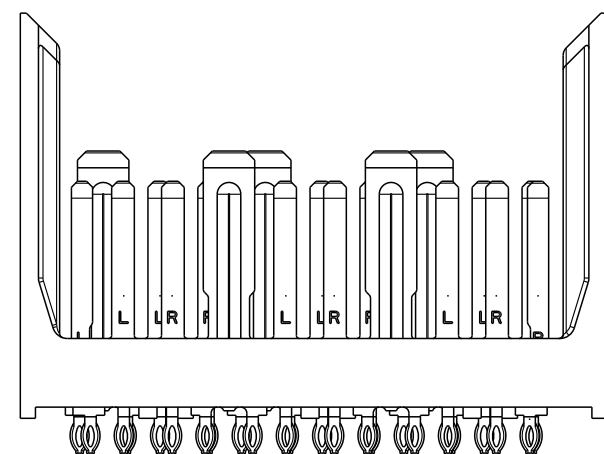
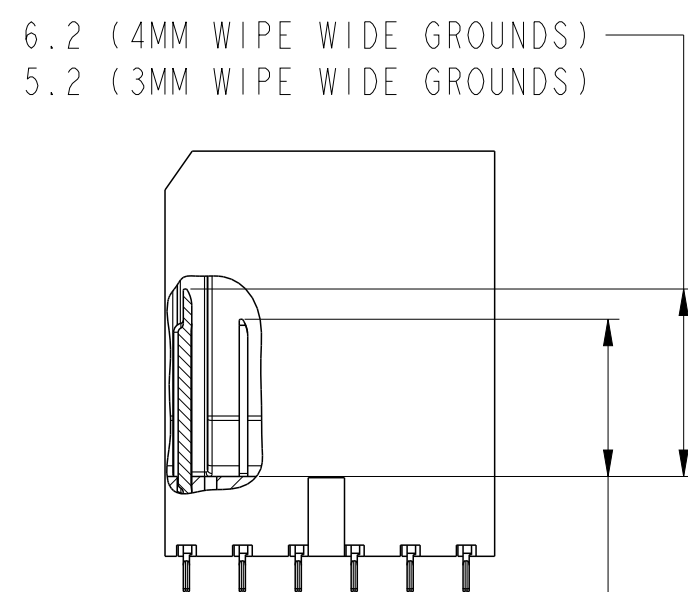
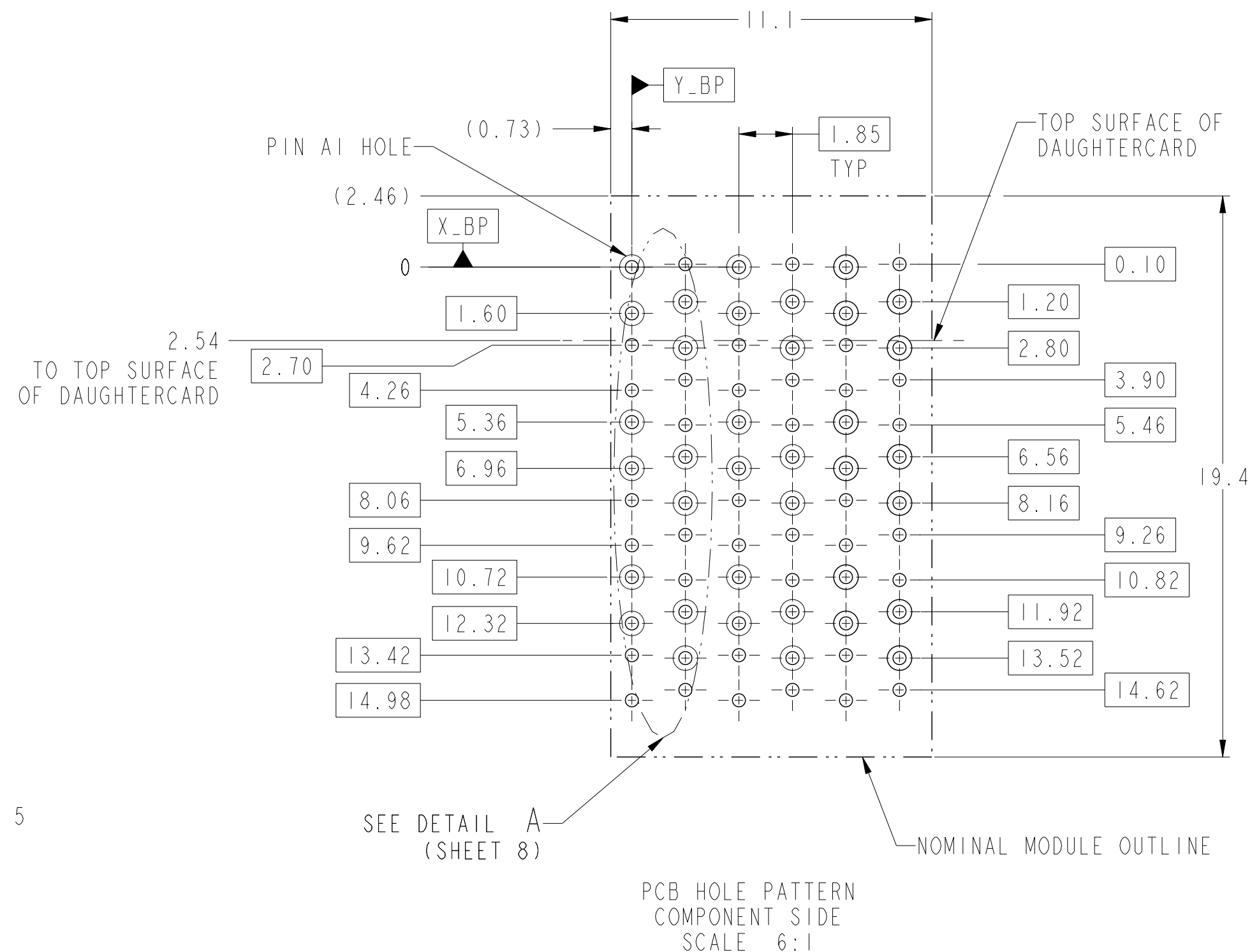
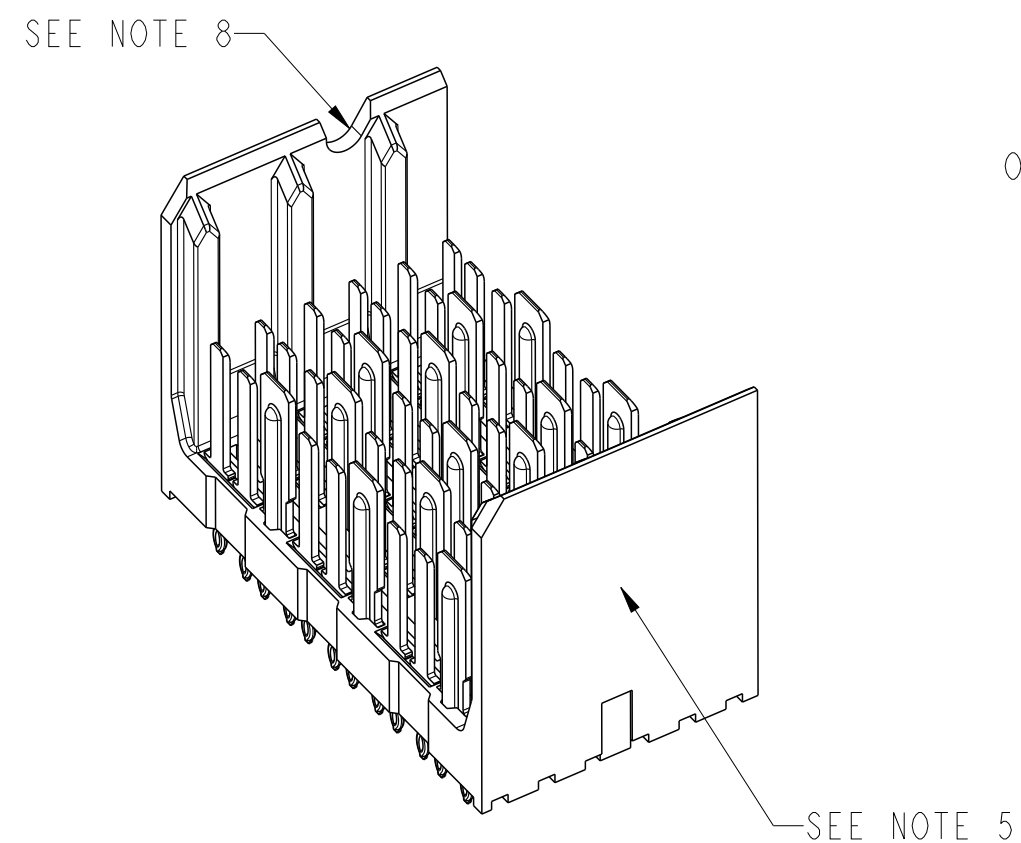
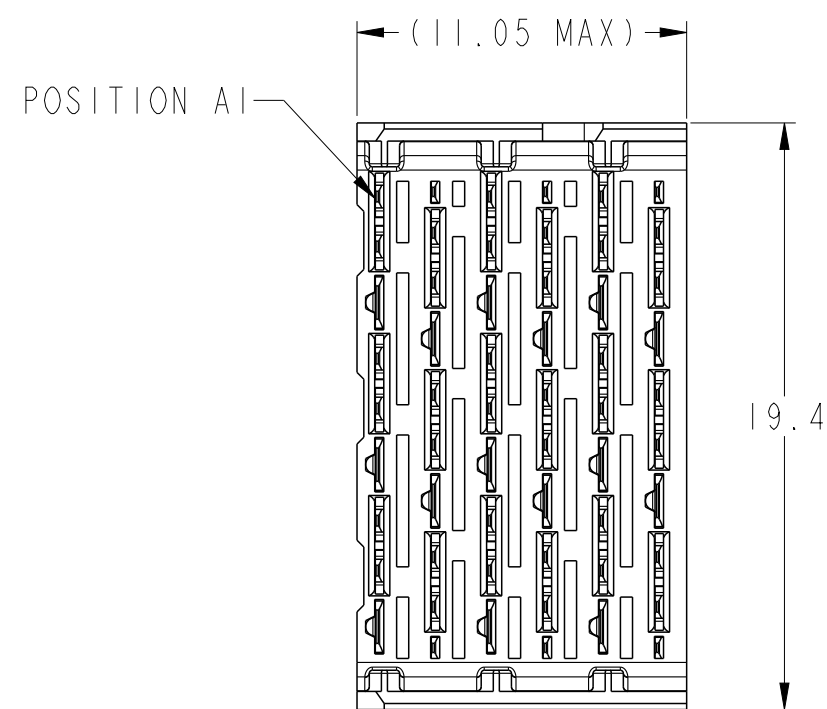
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tolerance std	-	eng	Sandar Soe	2012/08/15			ecn no	-	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-						
		appr	Chen-Hong Tan	2012/08/31	product family	XCEDE				
surface	✓	linear		title	MODULE ASSEMBLY	dwg no	10119189		rev	A
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw		sheet 1 of 8	

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OPEN (2- WALL) MODULE



5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

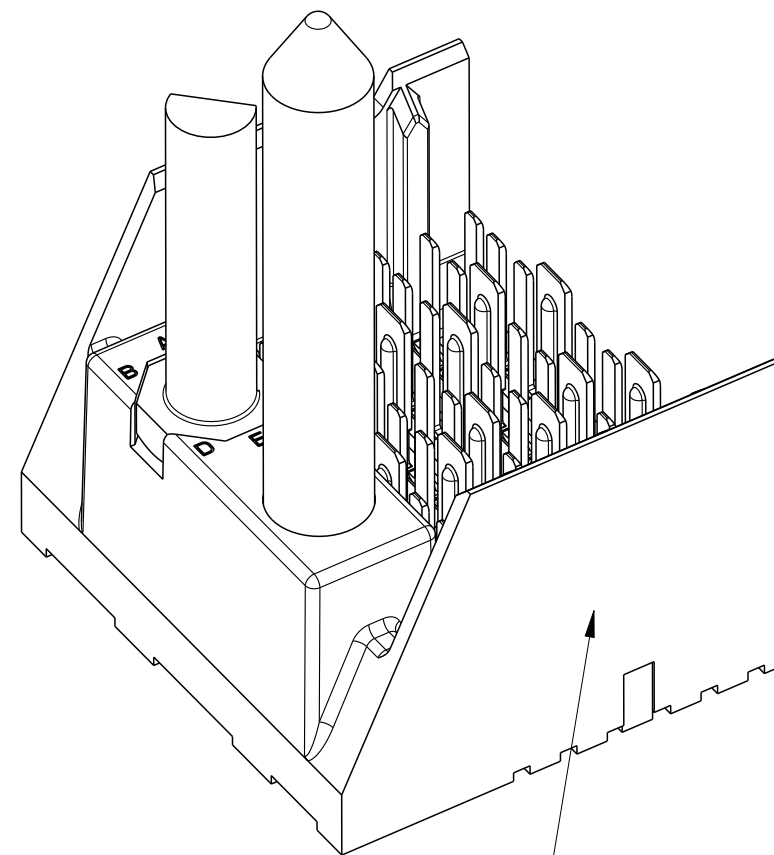
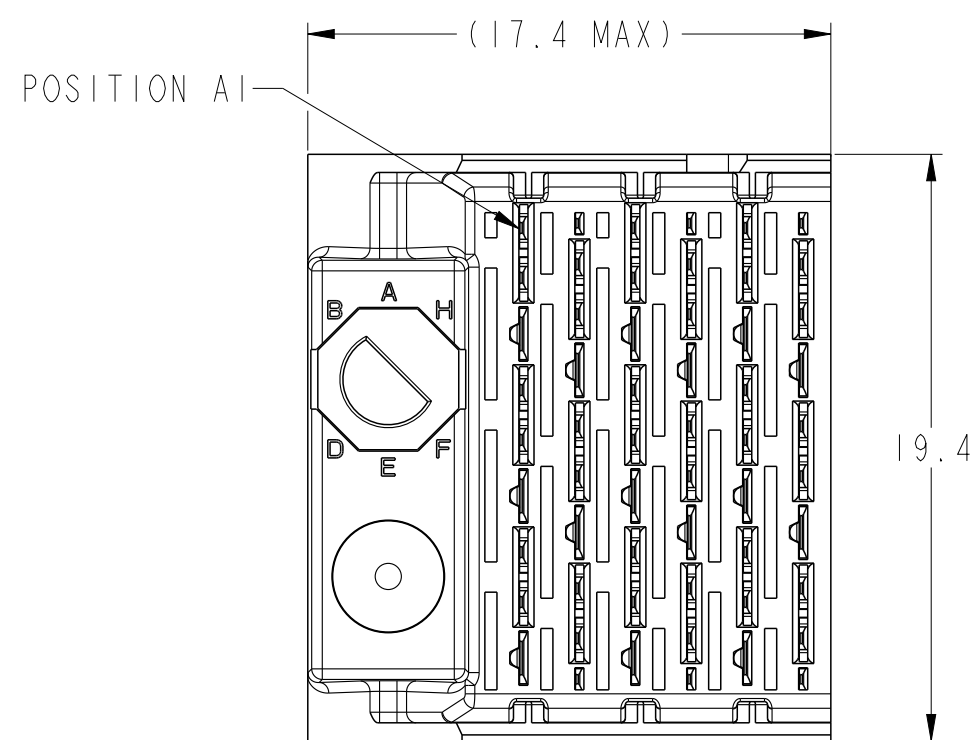
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tolerance std	-	eng	Sandar Soe	2012/08/15	chr	-	ecn no	-	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2012/08/31	product family	XCEDE	rel level	Released	rev	A
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±2°
ASME Y14.5	www.fci.com	cat. no.	-	Product	- Customer Drw	sheet 2 of 8	rev	A	10119189	10119189

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LEFT POLARIZING/GUIDE MODULE



SEE NOTE 5

2.54
TO TOP SURFACE
OF DAUGHTERCARD

PIN AI HOLE

(2.46)

X_BP

0

1.60

2.70

4.26

5.36

8.06

6.96

9.62

10.72

11.495

12.32

13.42

14.98

2.55
2.35

SEE NOTE 11 & TABLE 1

SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

Y_BP

(7.10)

4.44

1.85
TYP

TOP SURFACE OF
DAUGHTERCARD

0.10

1.20

2.80

3.90

5.46

6.56

8.16

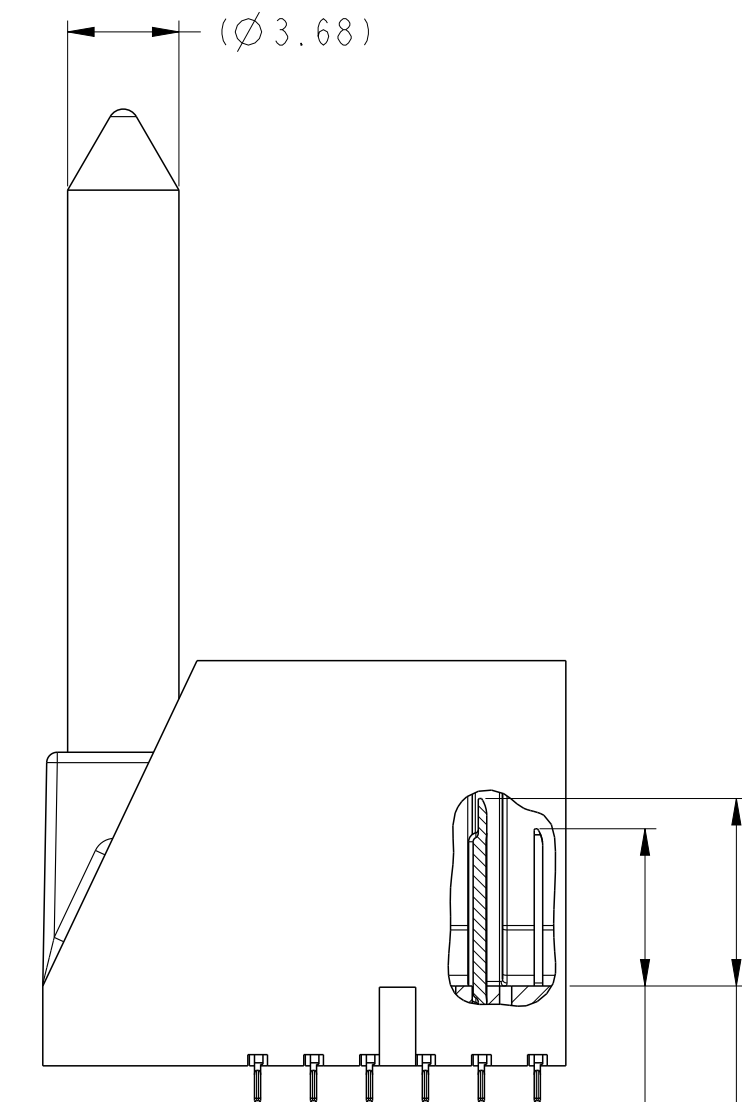
9.26

10.82

11.92

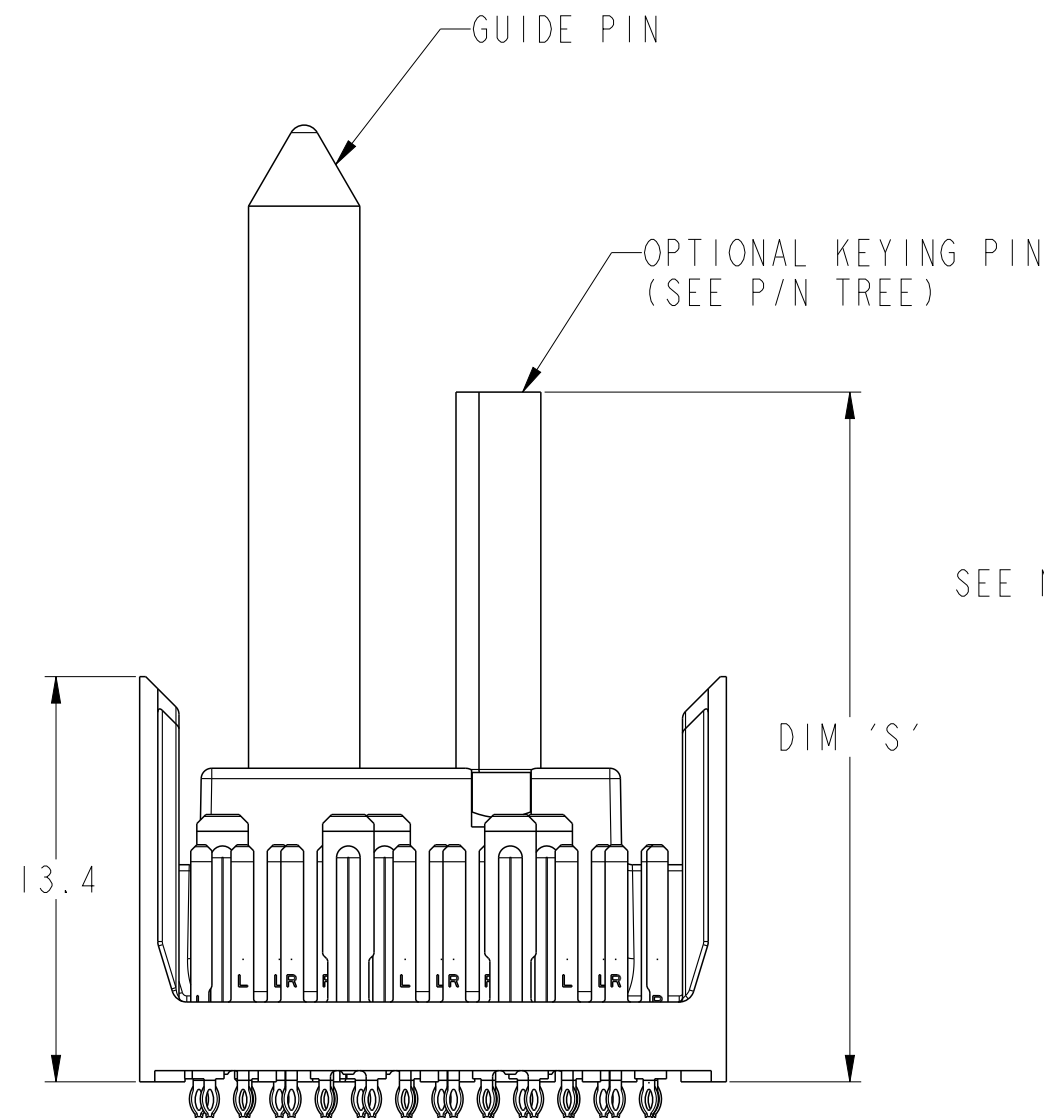
13.52

14.62



5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)



SEE NOTE 8

DIM 'R'

1.27

ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

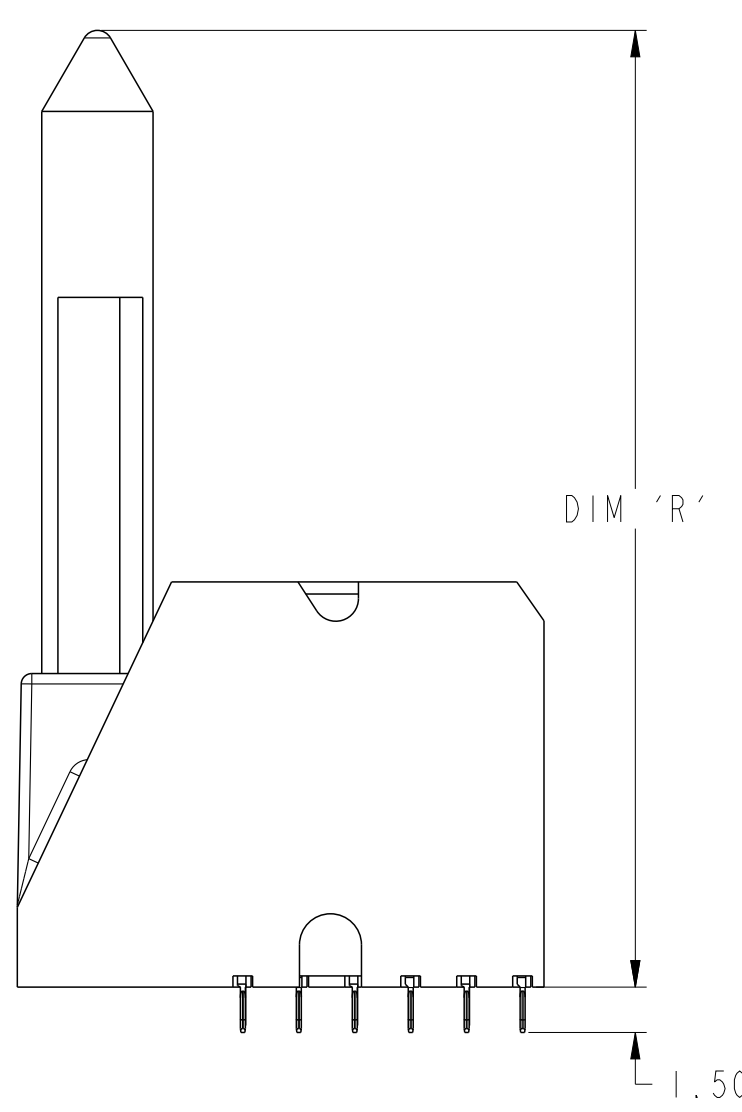
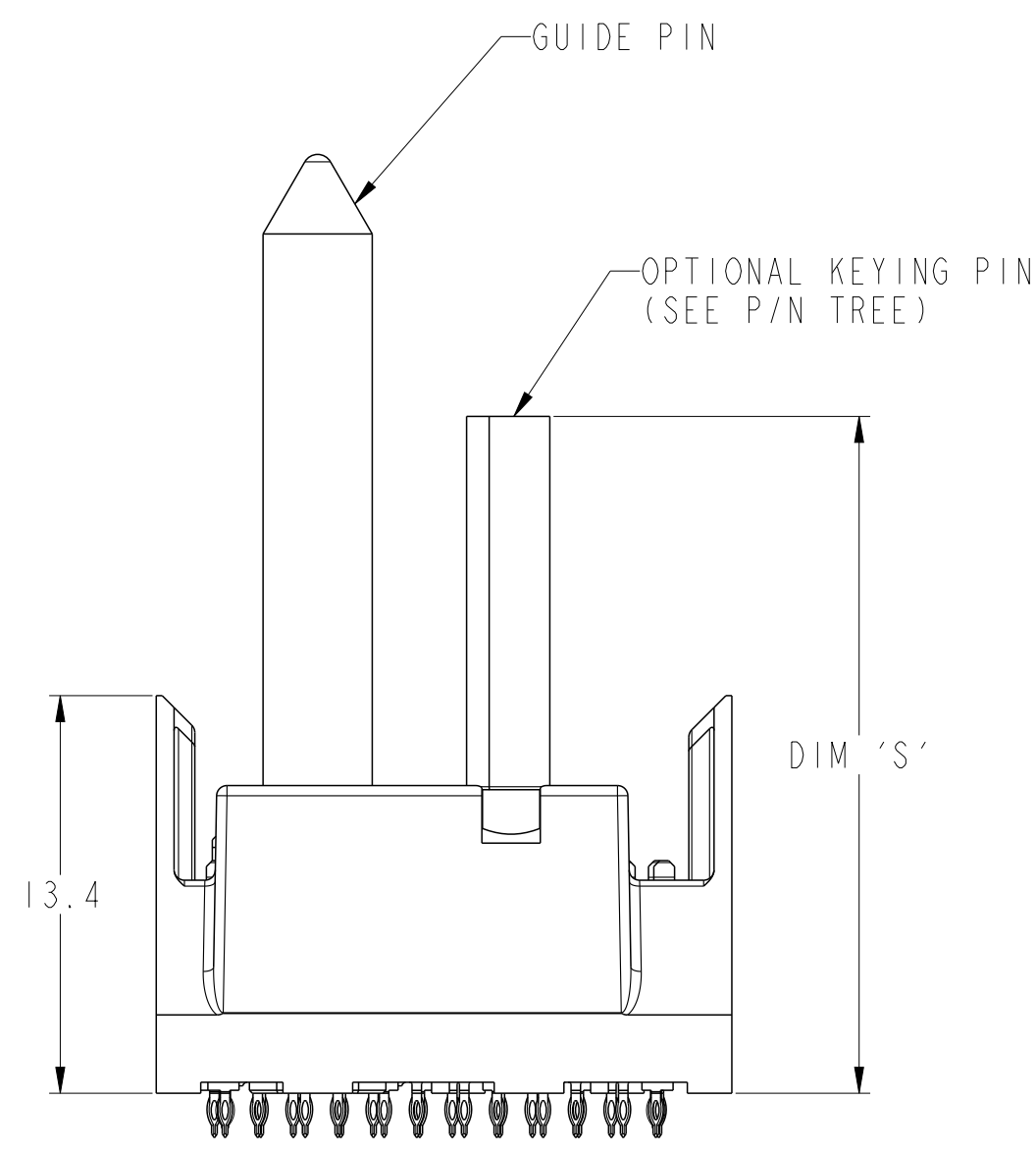
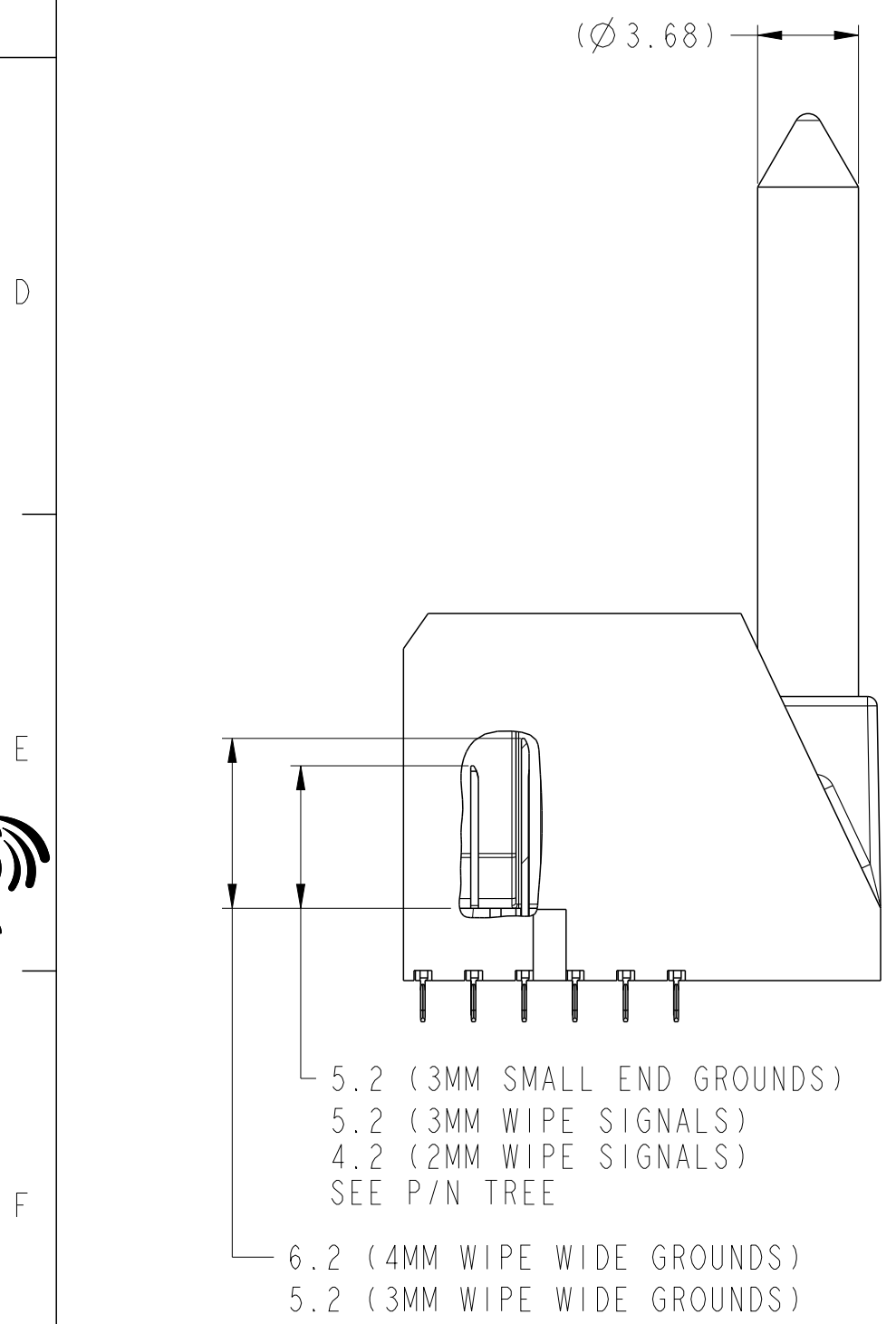
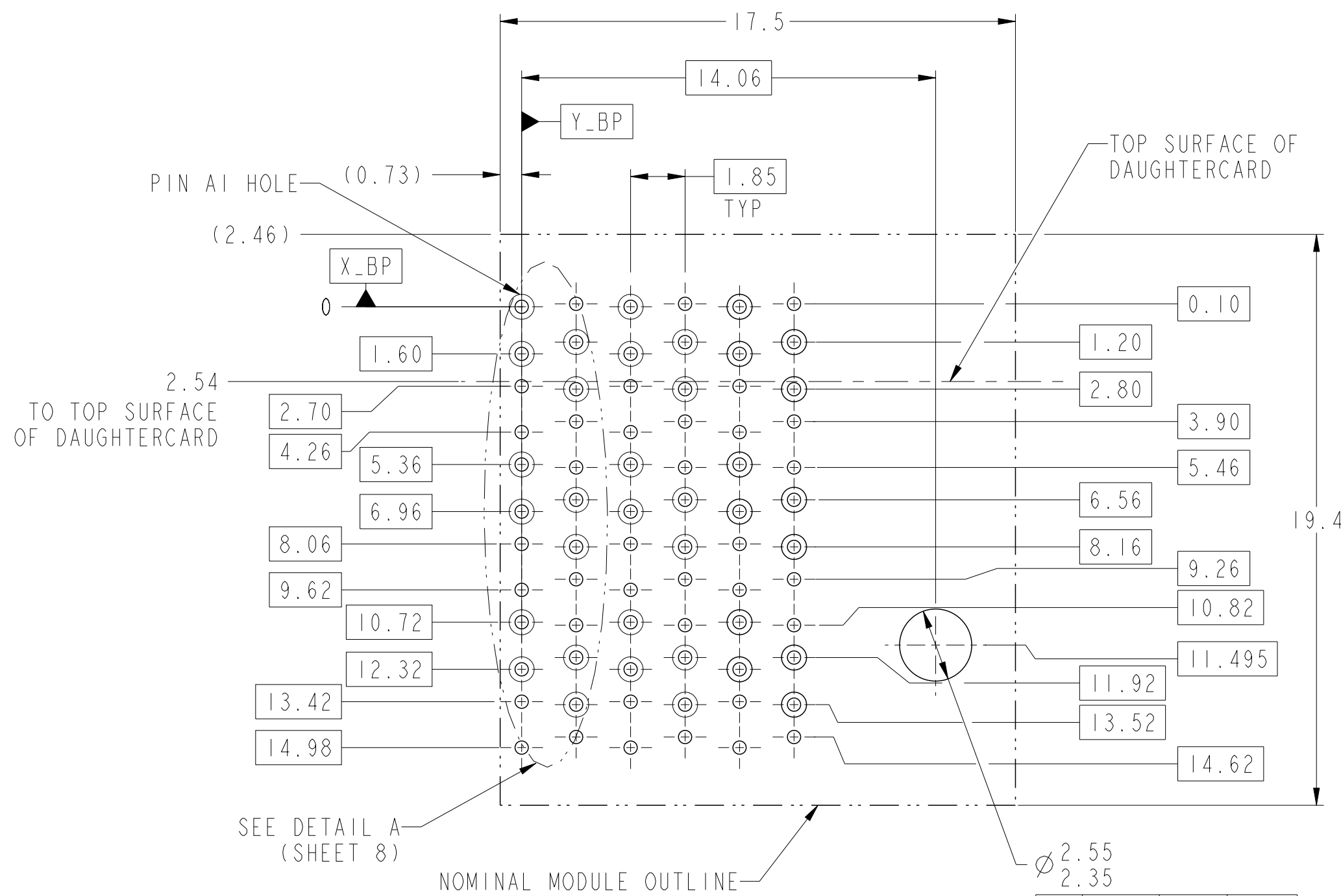
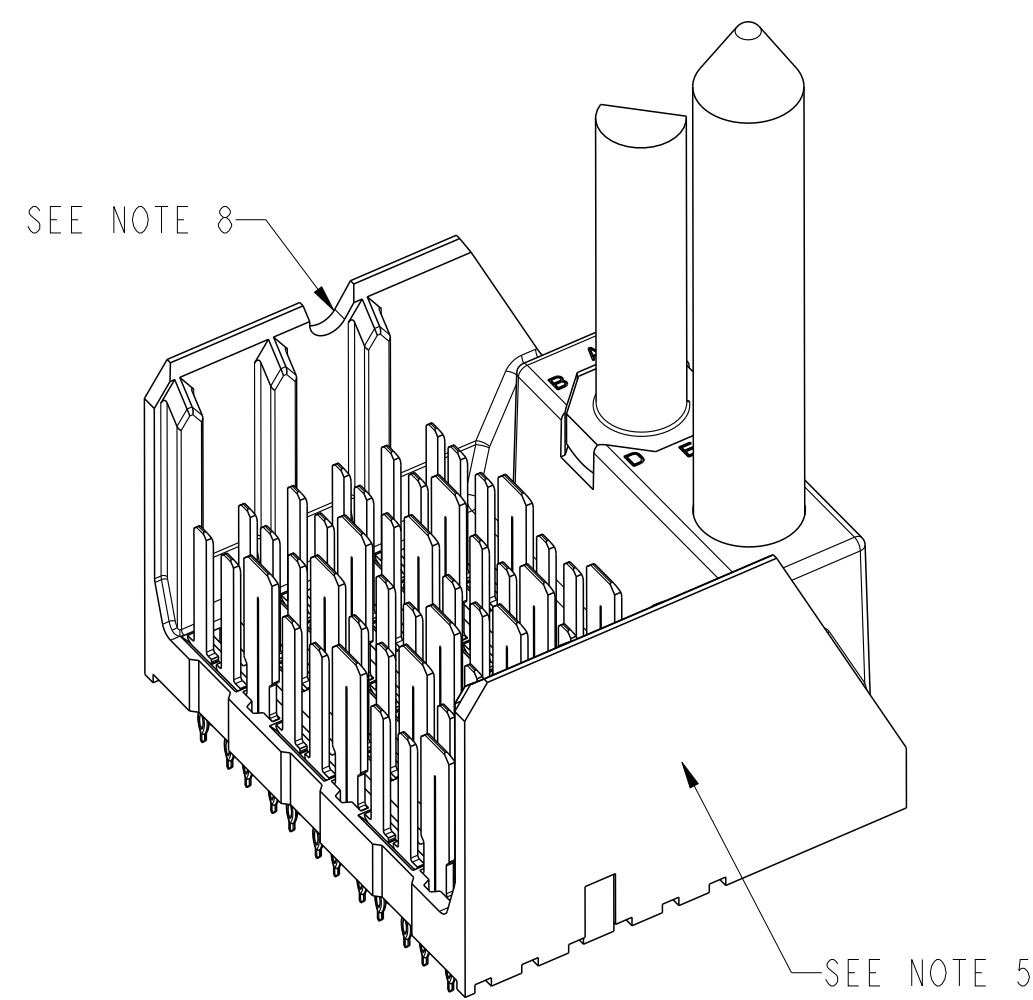
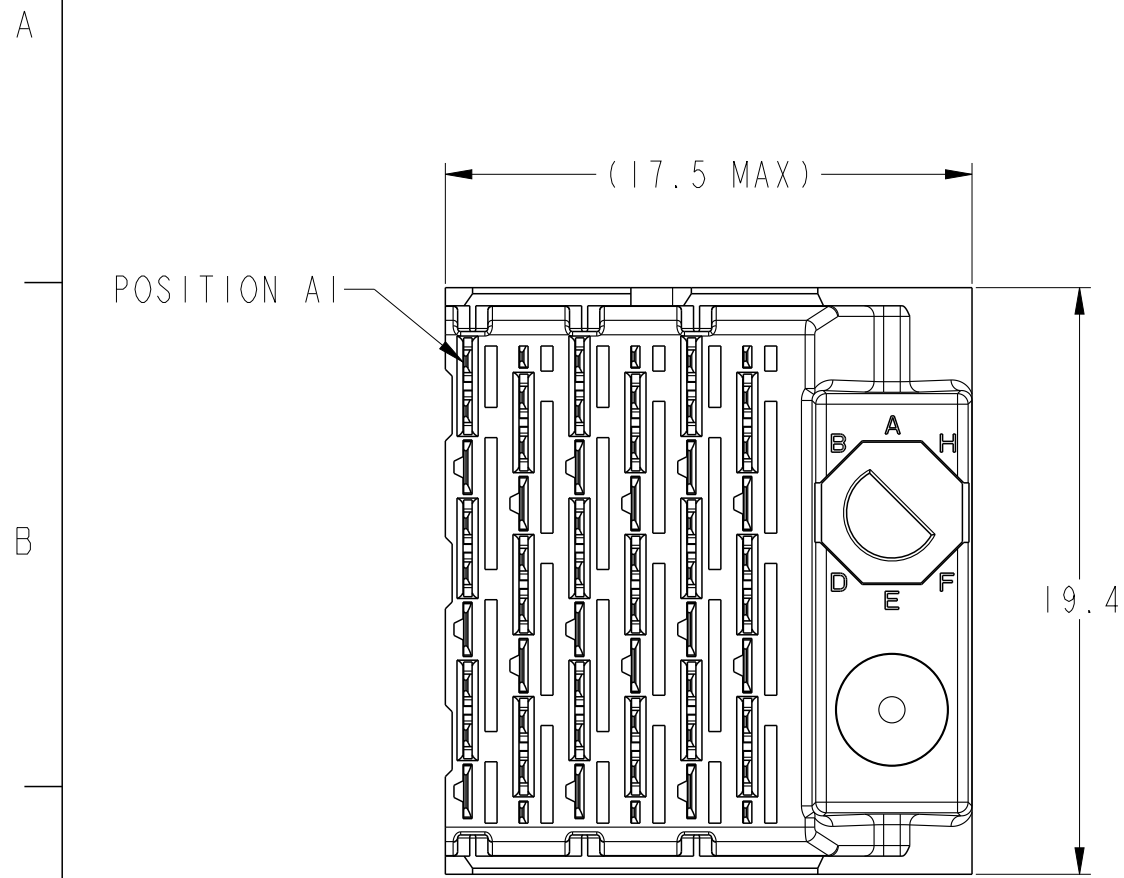
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tolerance std	-	eng	Sandar Soe	2012/08/15	chr	-	ecn no	-	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2012/08/31	product family	XCEDE	rel level	Released	rev	A
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±2°
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 8		

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RIGHT POLARIZING/GUIDE MODULE

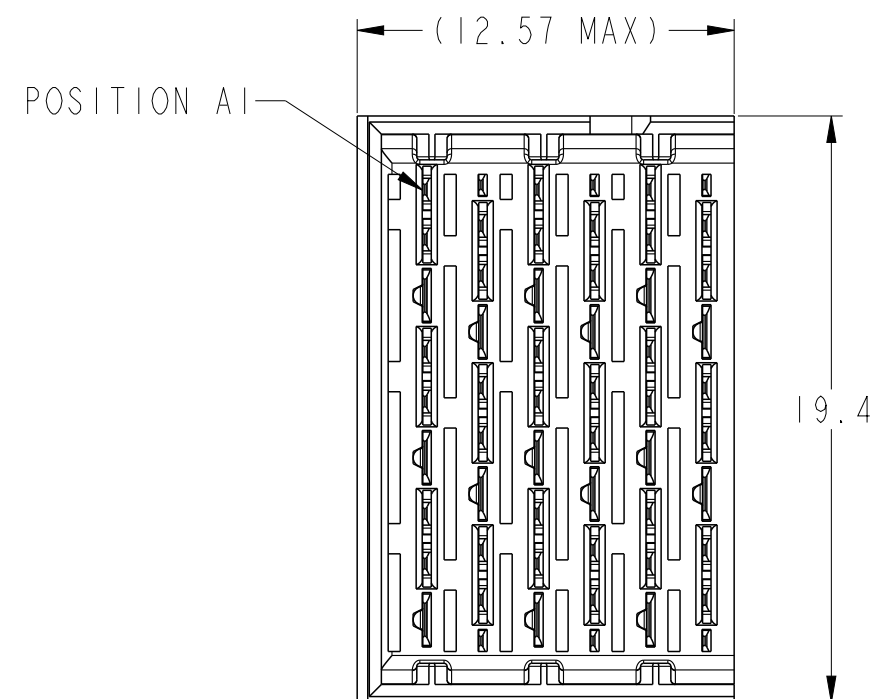


ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

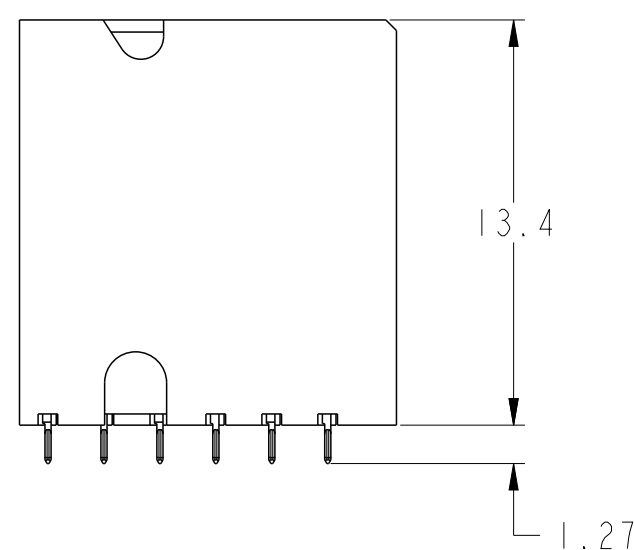
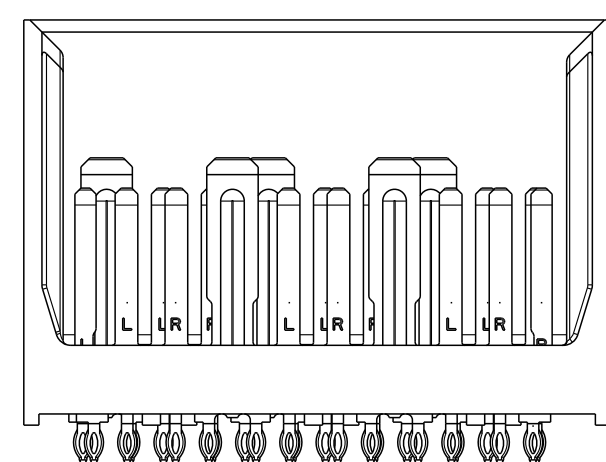
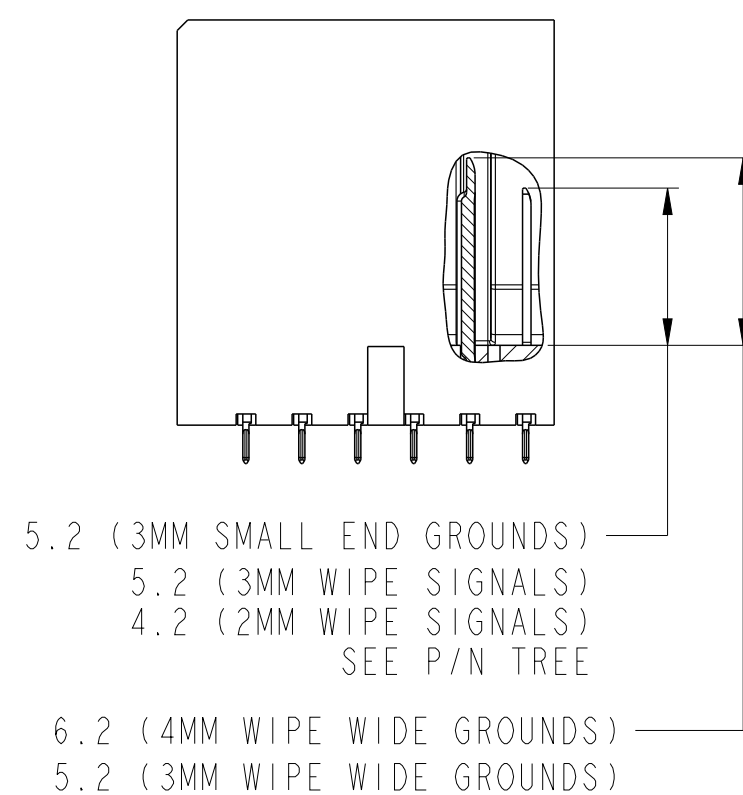
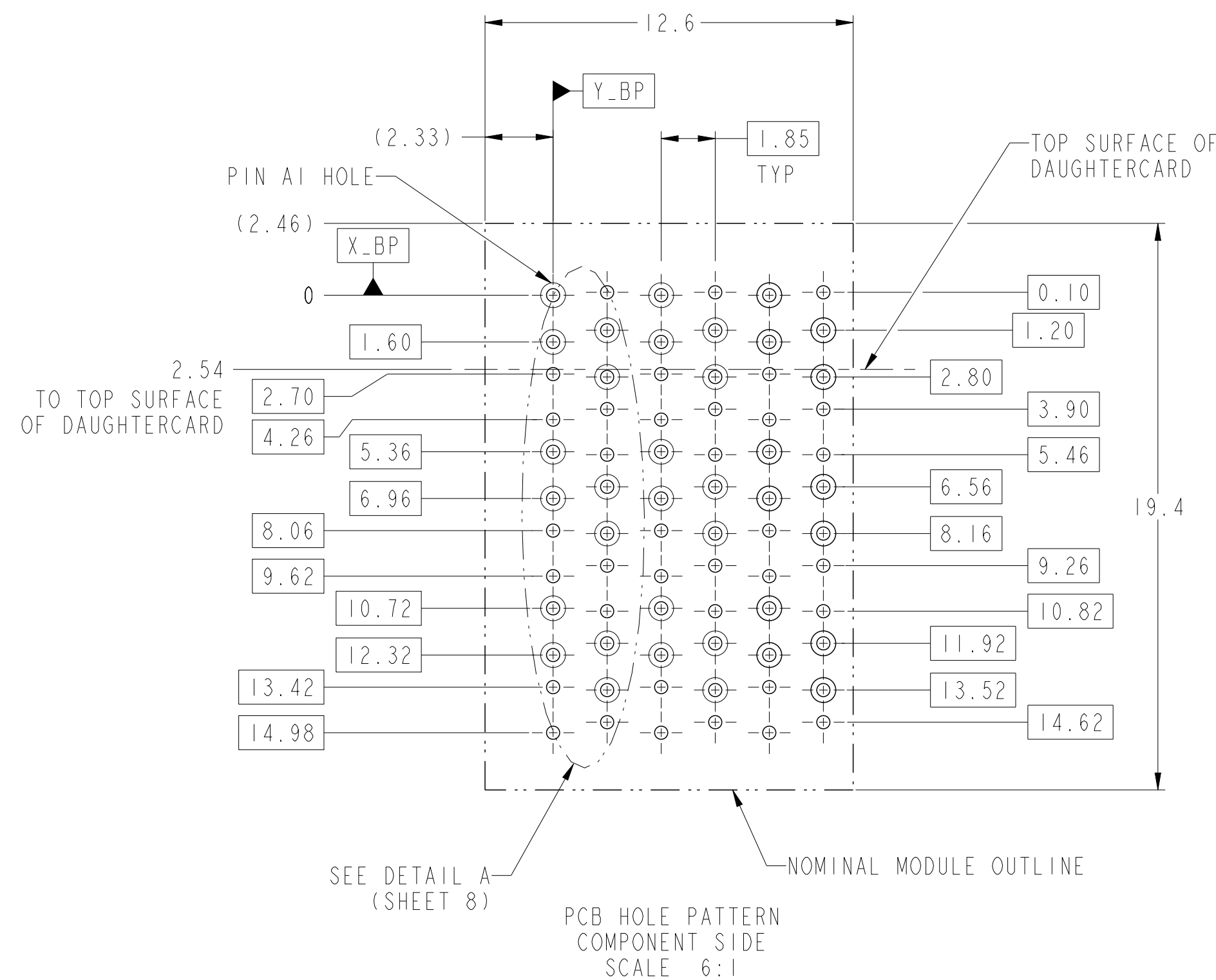
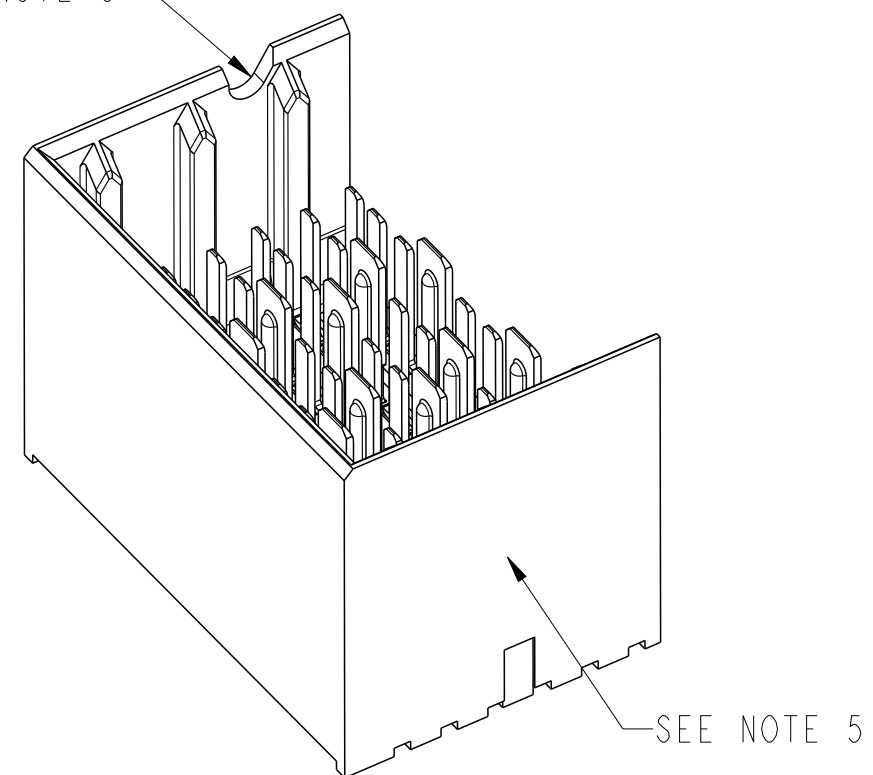
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tolerance std	-	eng	Sandar Soe	2012/08/15	chr	-	ecn no	-		
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2012/08/31	product family	XCED	rel level	Released		
surface	✓	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	FCI	title
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 4 of 8	rev	A

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LEFT WALL MODULE



SEE NOTE 8



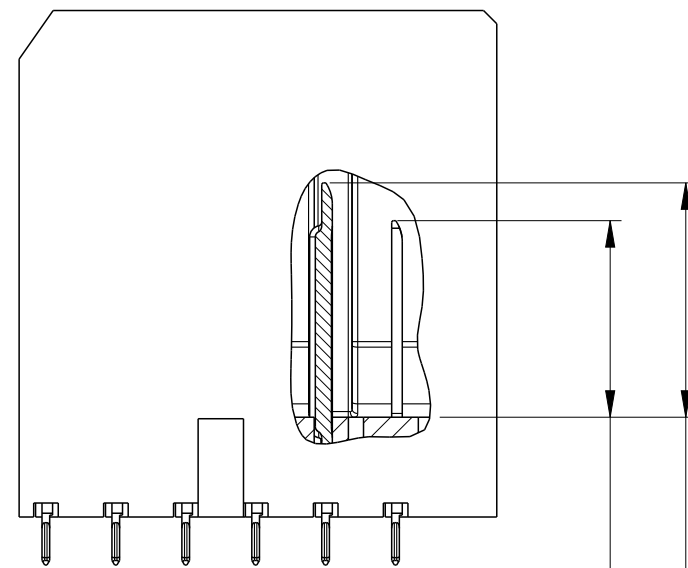
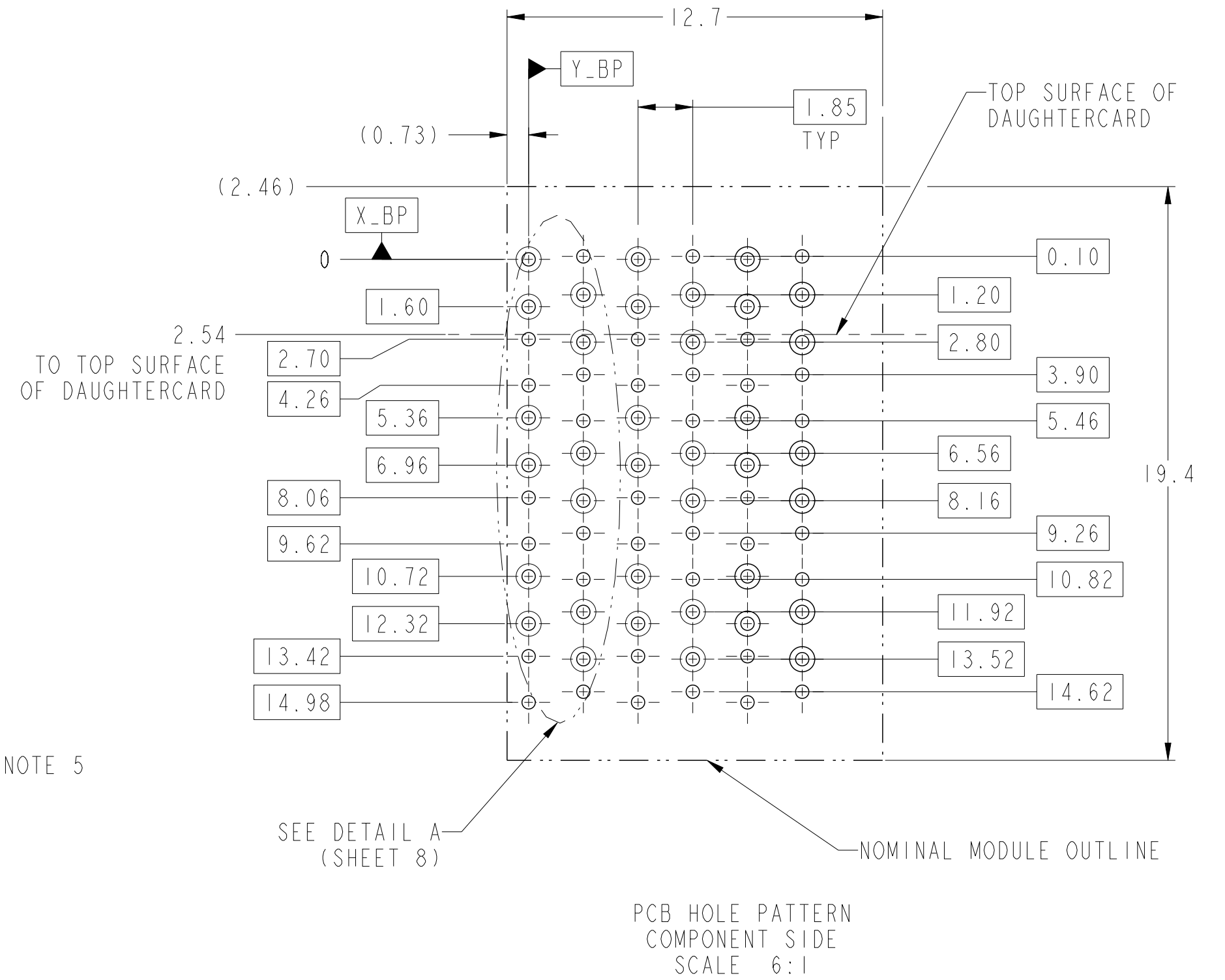
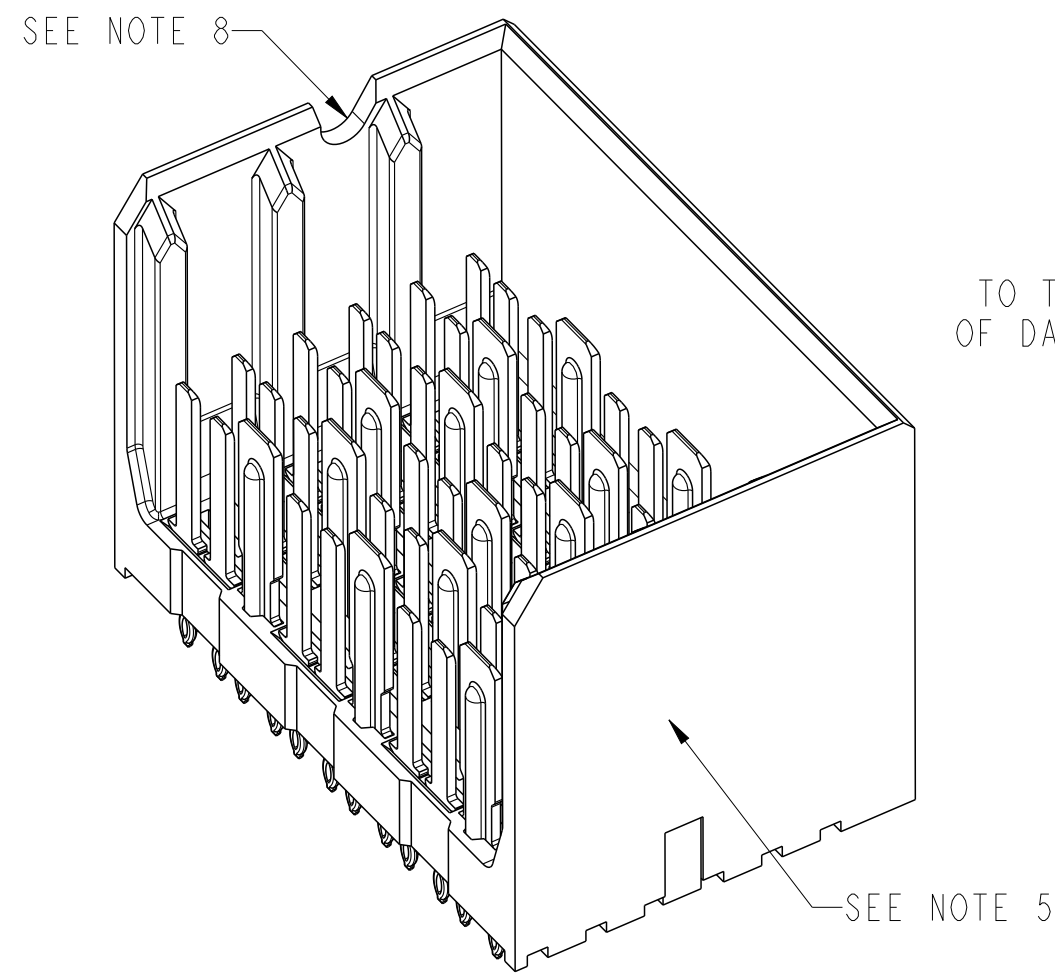
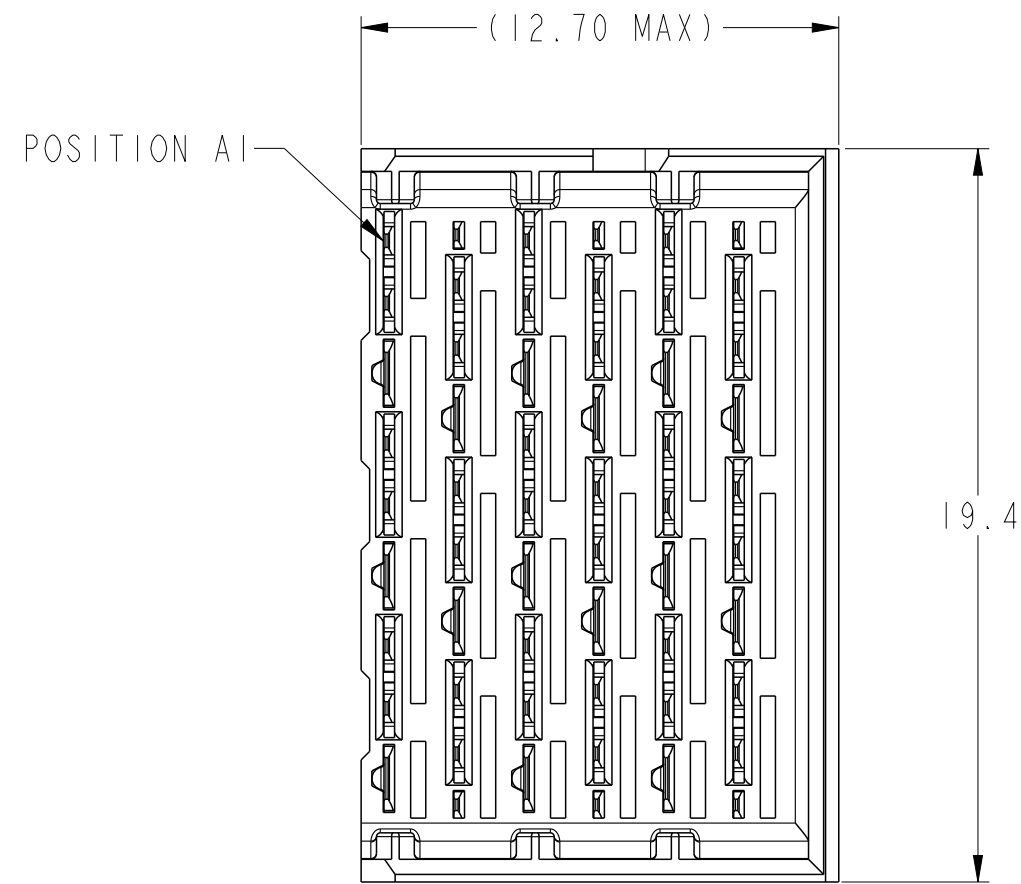
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tolerance std	-	eng	Sandar Soe	2012/08/15			ecn no	-		
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-			rel level	Released		
		appr	Chen-Hong Tan	2012/08/31	product family	XCEDE	rel level	Released		
surface	✓	linear	0.X	±0.2	FCI	title	MODULE ASSEMBLY	dwg no	10119189	rev
			0.XX	±0.10						A
			0.XXX	±0.050						
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 5 of 8		

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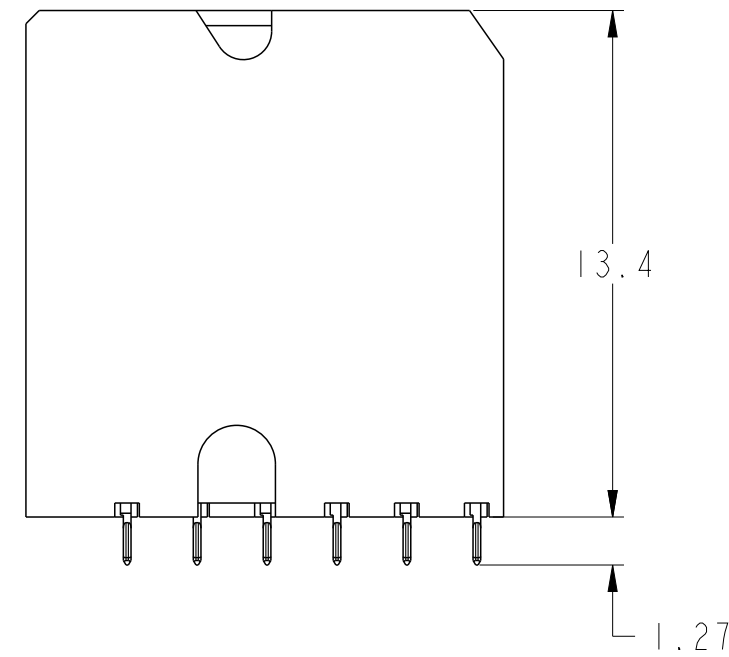
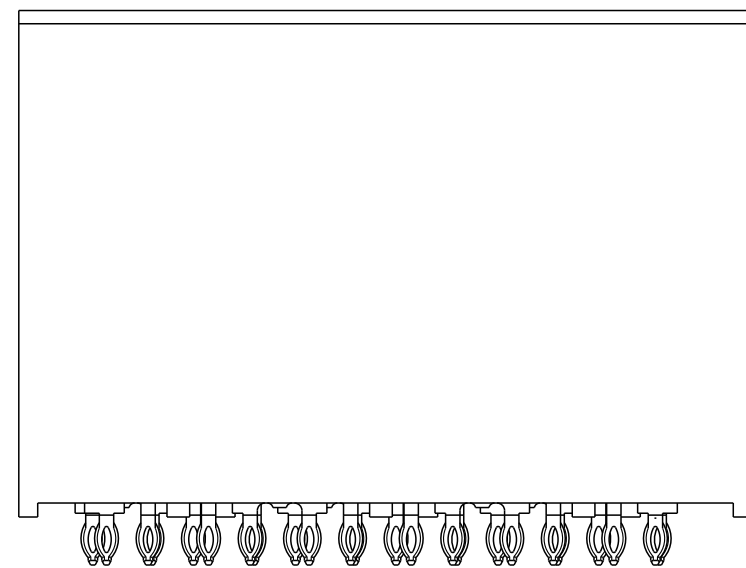
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RIGHT WALL MODULE



5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)



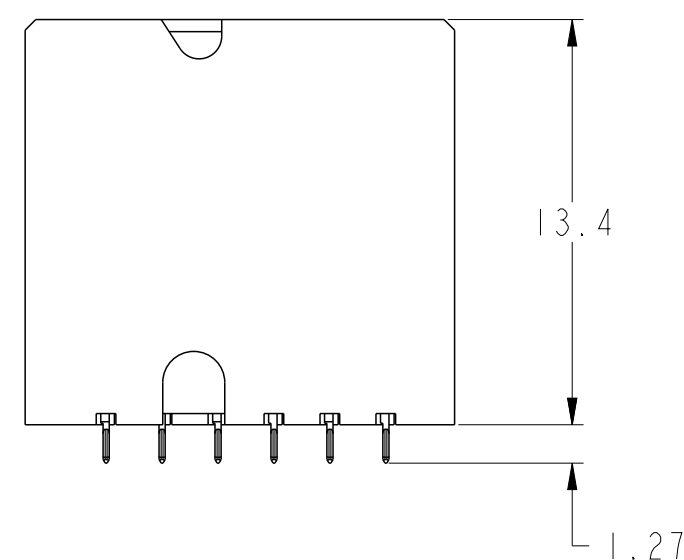
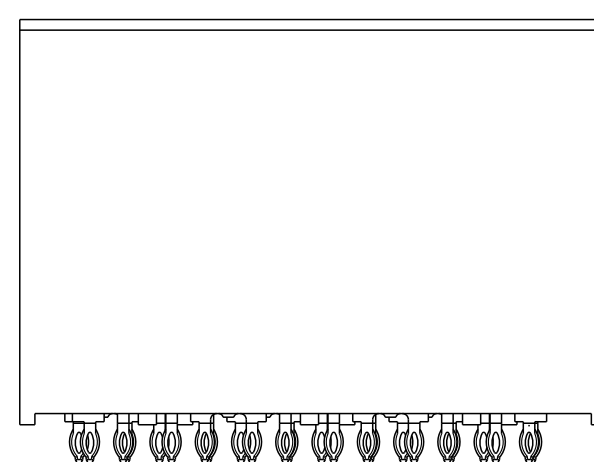
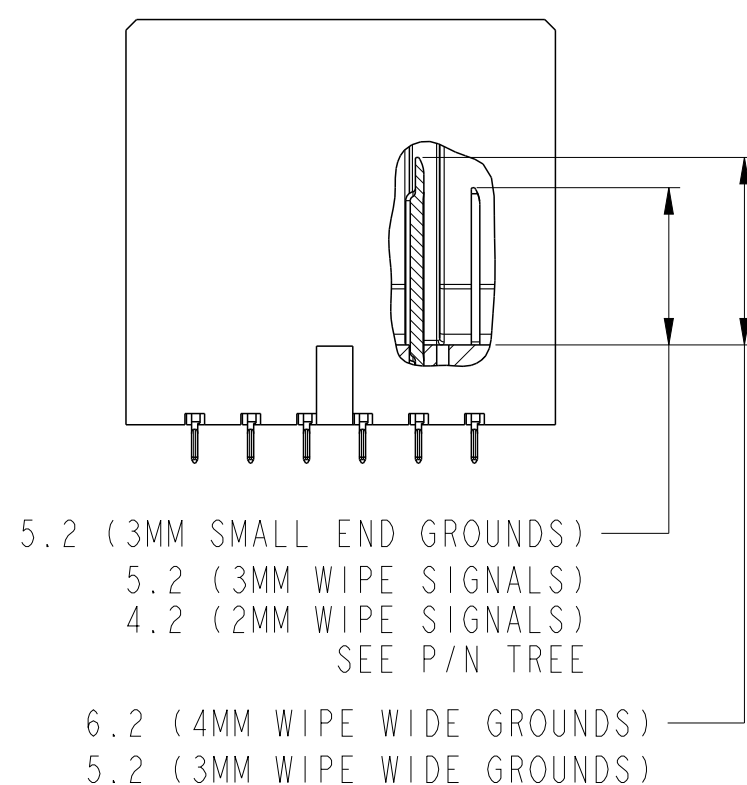
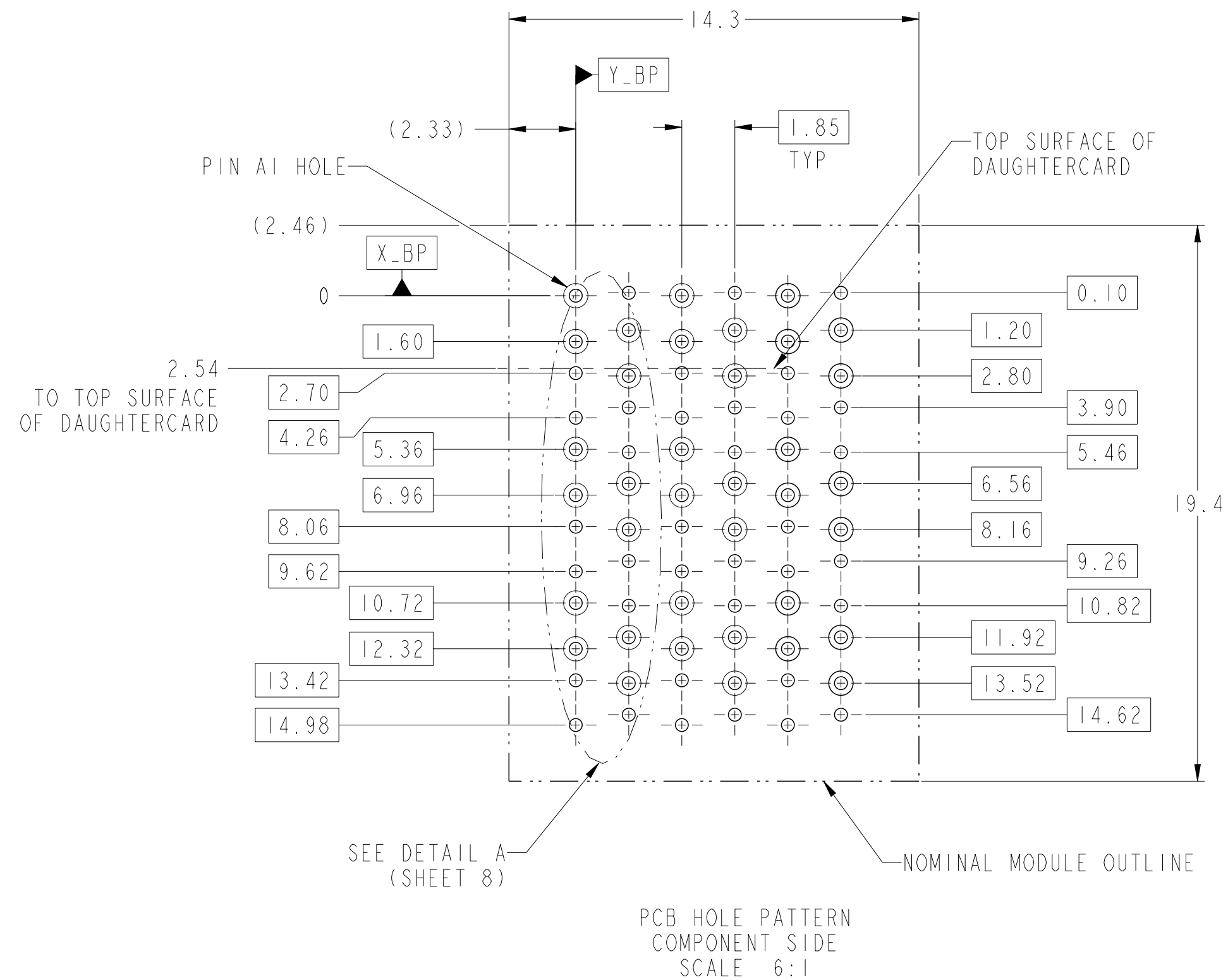
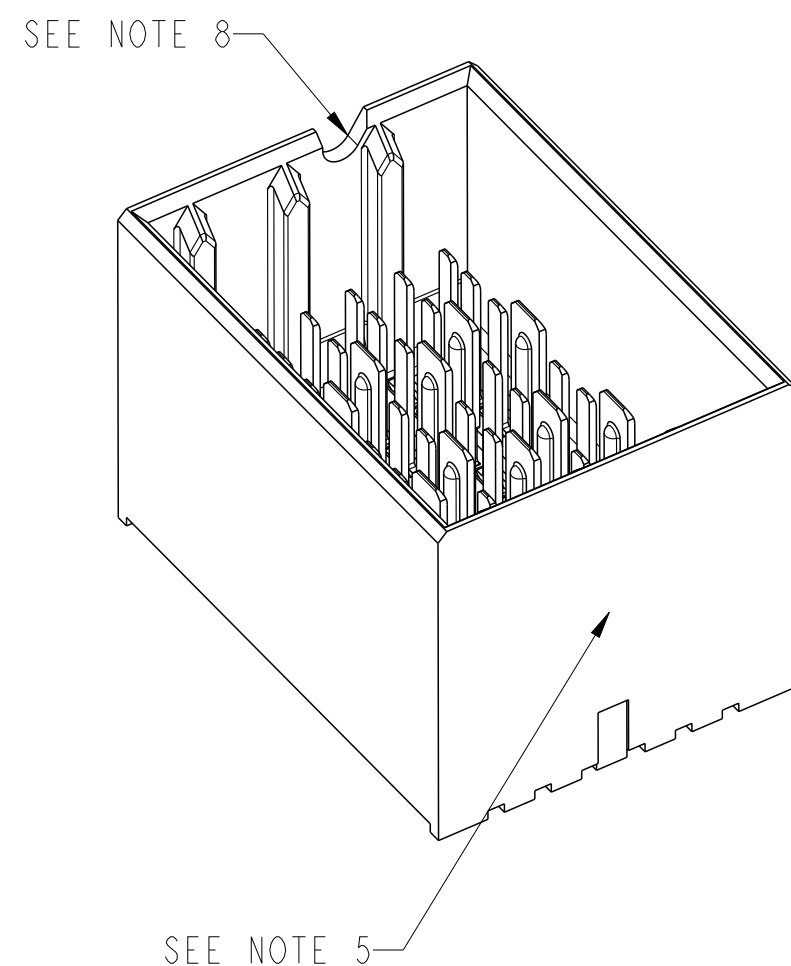
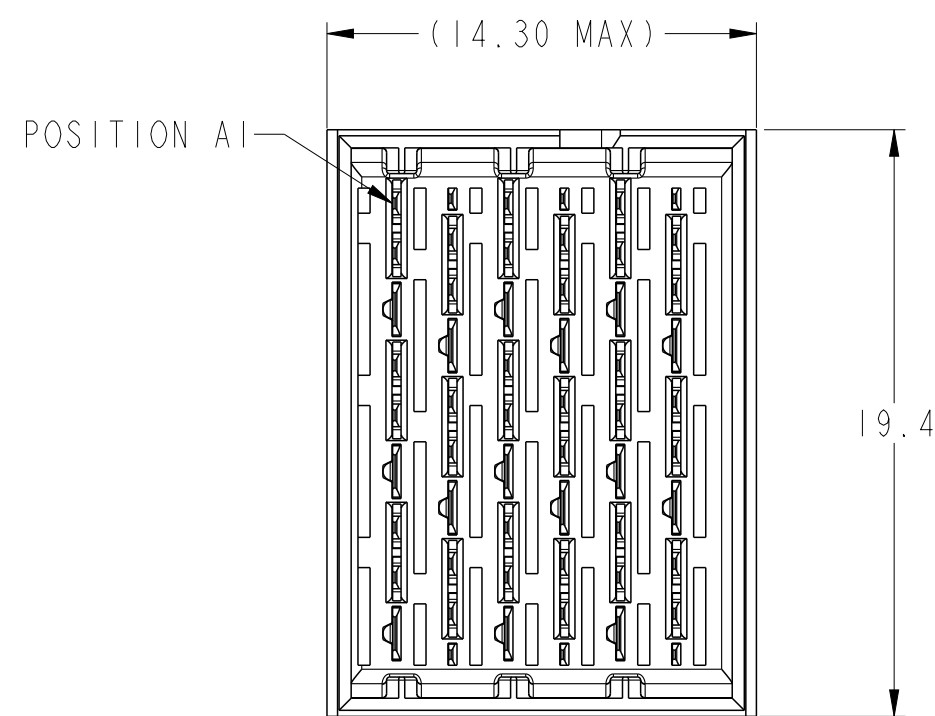
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tolerance std	-	eng	Sandar Soe	2012/08/15			ecm no	-		
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-			rel level	Released		
surface	✓	appr	Chen-Hong Tan	2012/08/31	product family	XCEDE	dwg no	10119189	rev	A
ASME Y14.5	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±2°

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FOUR WALL MODULE



spec ref	-	dr	K Ayyappan	2011/10/31	projection	MM	size	A2	scale	4:1
tolerance std	-	eng	Sandar Soe	2012/08/15	chr	-	ecn no	-	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2012/08/31	product family	XCEDE	rel level	Released	rev	A
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±2°
ASME Y14.5	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 7 of 8	rev	A	title	MODULE ASSEMBLY	VERTICAL HEADER, 6 COLUMN, 3 PAIR

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NOTES:

- CONNECTOR MATERIALS
SHROUD: HIGH-TEMP THERMOPLASTIC, GRAY, UL94V-0
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
- CONTACT PLATING:

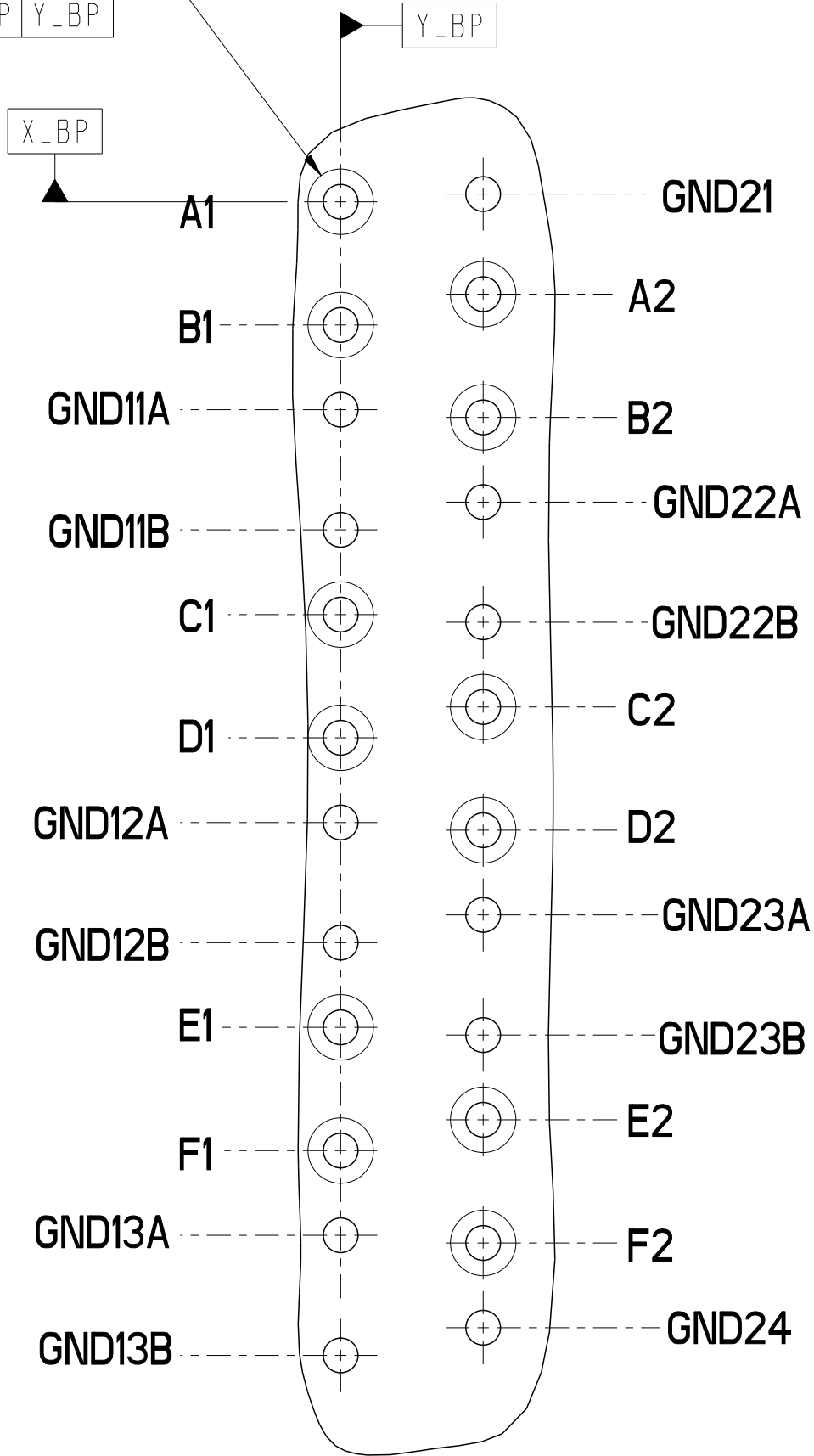
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12 588, INCLUDING THE TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE (CO) OR UNCONTROLLED ENVIRONMENT (UE) TEST SEQUENCE AS NOTED IN P/N TREE.

PRESS-FIT TAILS: TIN OVER NICKEL (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLCATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR-PHASE REFLOW OVEN.
- PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.
- NOTCH INDICATES "ROW A" SIDE OF CONNECTOR.
- SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PN SELECTION, ETC.
- SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE-PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.
- OPTINAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.
- A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL		
COMPLIANT PIN DRILL	PTH	PAD
Ø 0.55 [0.0217"]	Ø 0.45±0.05	Ø 0.85
Ø 0.45 [0.0177"]	Ø 0.36±0.05	Ø 0.75

REFER TO TABLE 3 FOR PTH, DRILL & PAD SIZES

	Ø 0.10	X_BP	Y_BP
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DETAIL A
SCALE 12:1

spec ref -				dr K Ayyappa Raj		2011/10/31		projection		MM		size A2		scale 4:1					
tolerance std -				eng Sandar Soe		2012/08/15						ecn no -		rel level					
ASME Y14.5				chr -		2012/08/31													
				appr Chen-Hong Tan		2012/08/31		product family				XCEDE							
												Released							
surface 		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10119189		rev	
				0.XX		±0.10													
				0.XXX		±0.050													
ASME Y14.5		angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw				sheet 8 of 8	

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