

10119187 - X0J - XXXLF

LEAD-FREE DESIGNATION
ONLY WITH APPLICABLE
PLATING CODES

4-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

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)										

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

spec ref		-		dr		Roger Ng		2011/11/22		projection				MM		size		A2		scale		4:1	
tolerance std		-		eng		Sandar Soe		2014/10/02						←→		ecn no		ELX-S-18843-1		rel level		Released	
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-																	
surface		✓		appr		Chen-Hong Tan		2014/12/10															
linear		0.X ±0.2				title		MODULE ASSEMBLY		dwg no		10119187		rev		B							
ASME Y14.5		0.XX ±0.10																					
angular		0° ±2°																					
www.fci.com		cat. no.		-		Product - Customer Drw		sheet 1 of 8															

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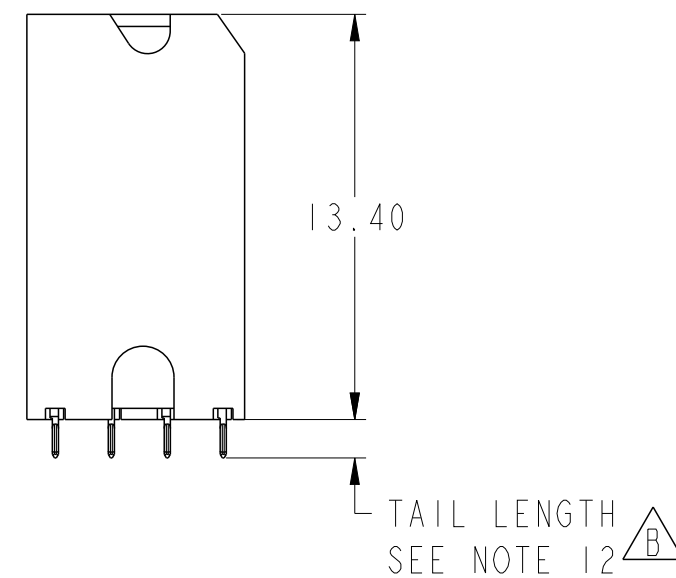
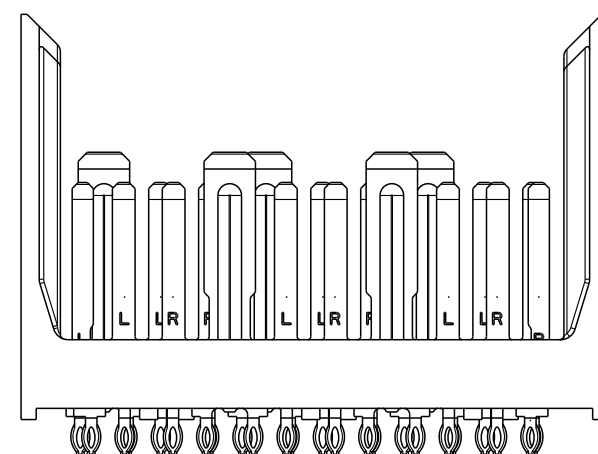
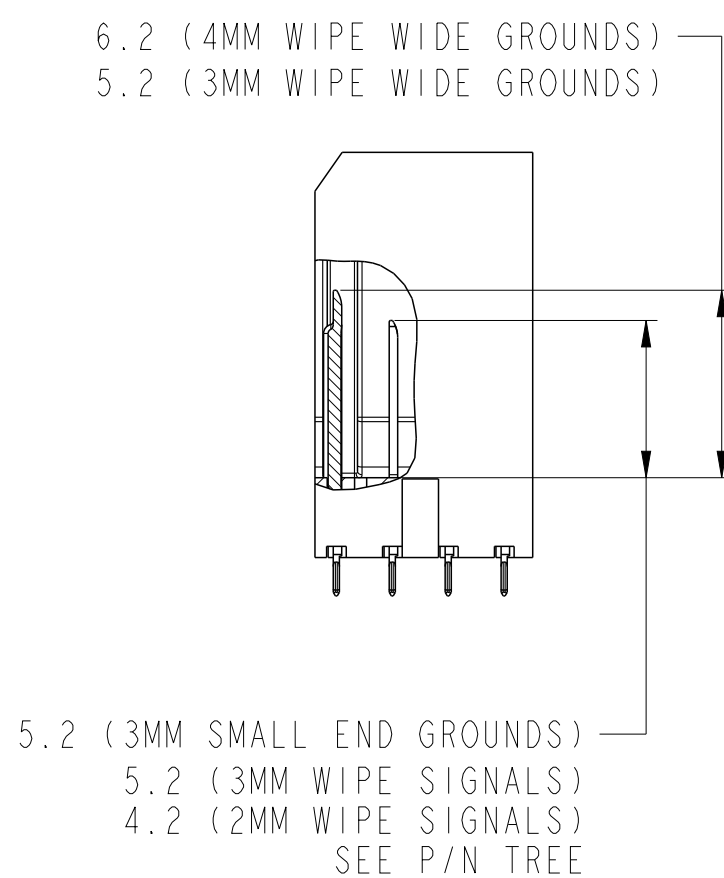
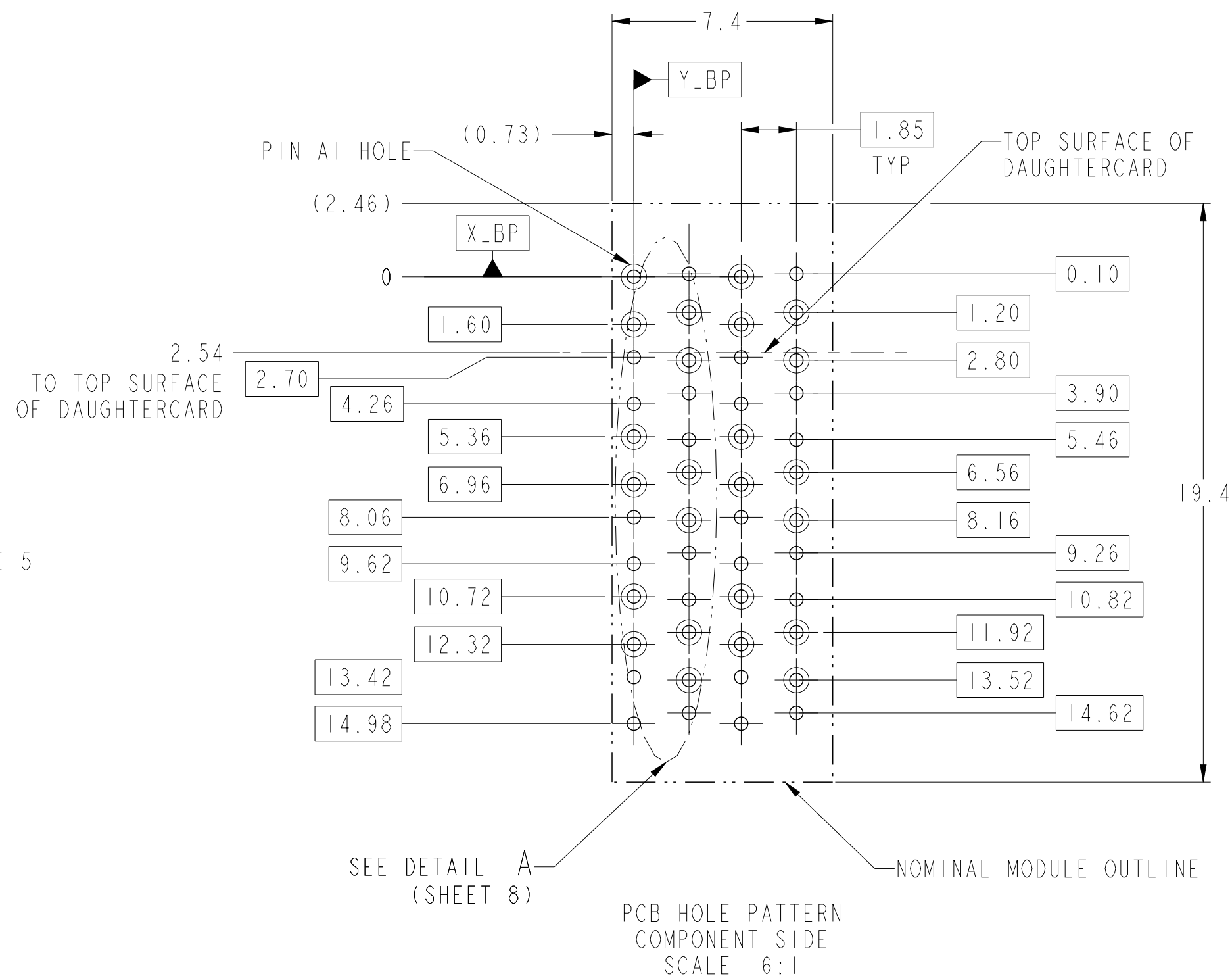
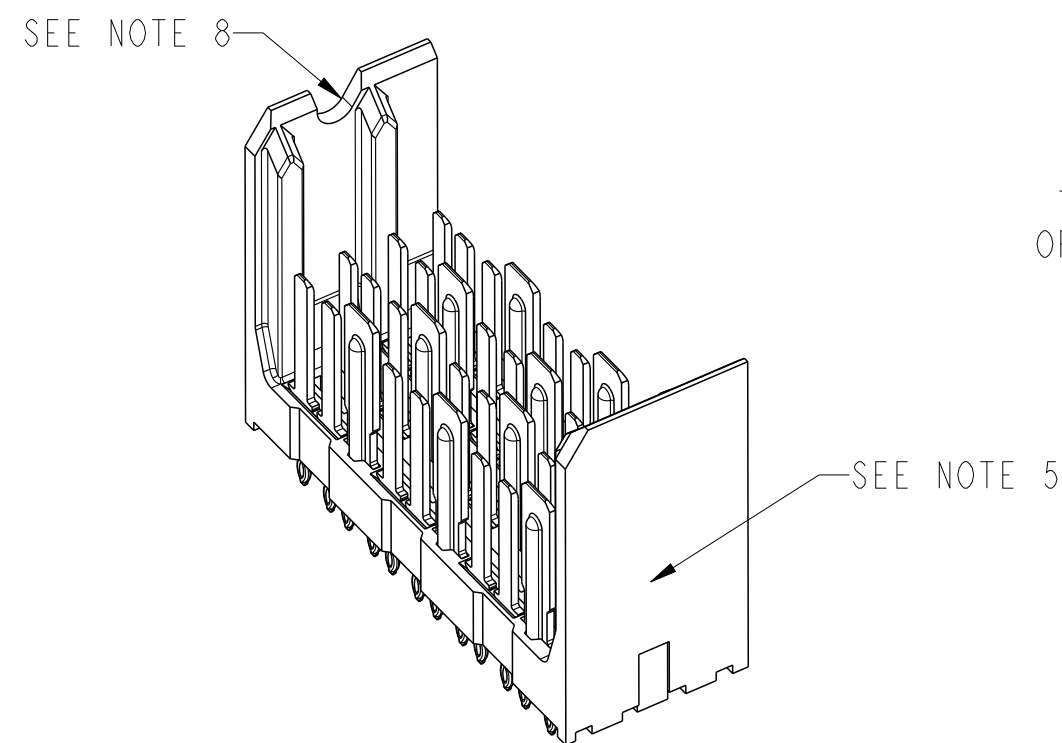
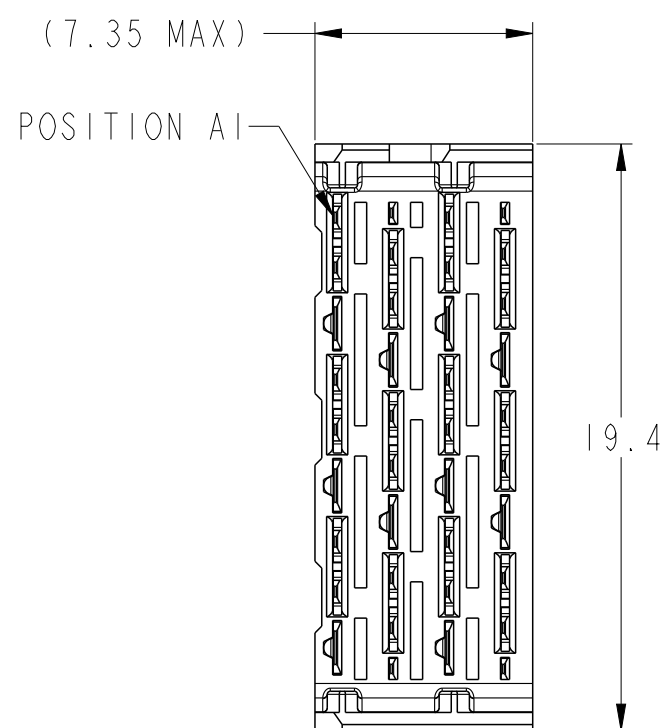
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OPEN (2- WALL) MODULE



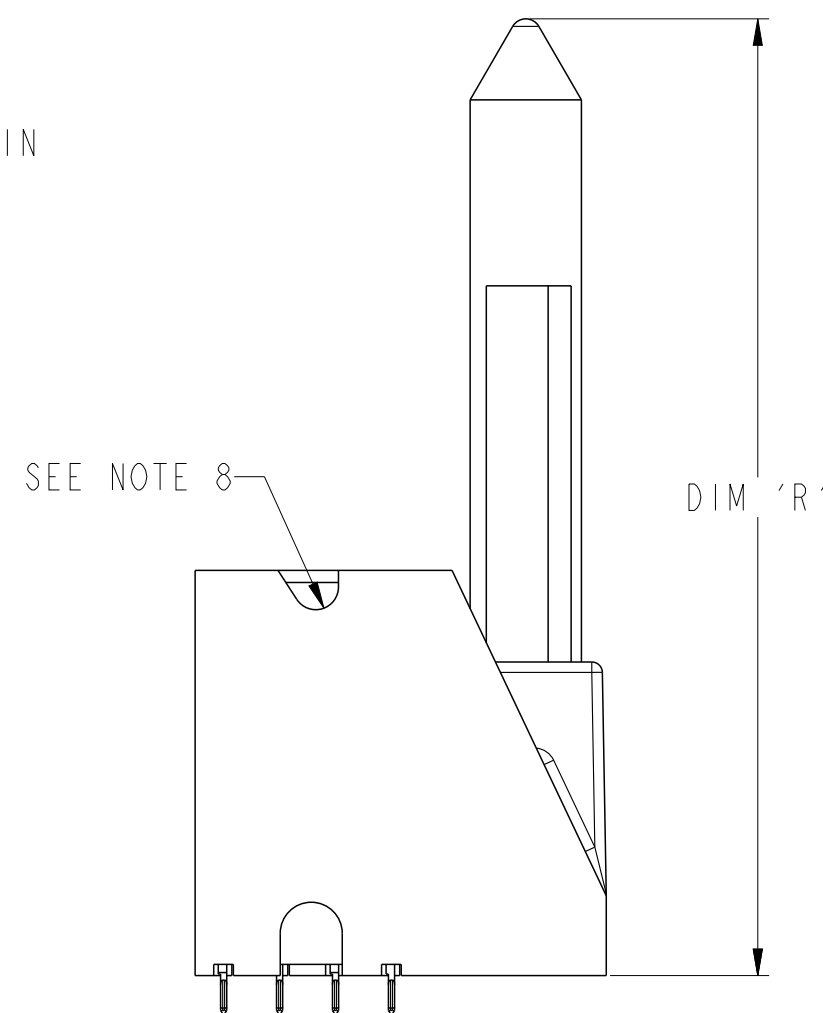
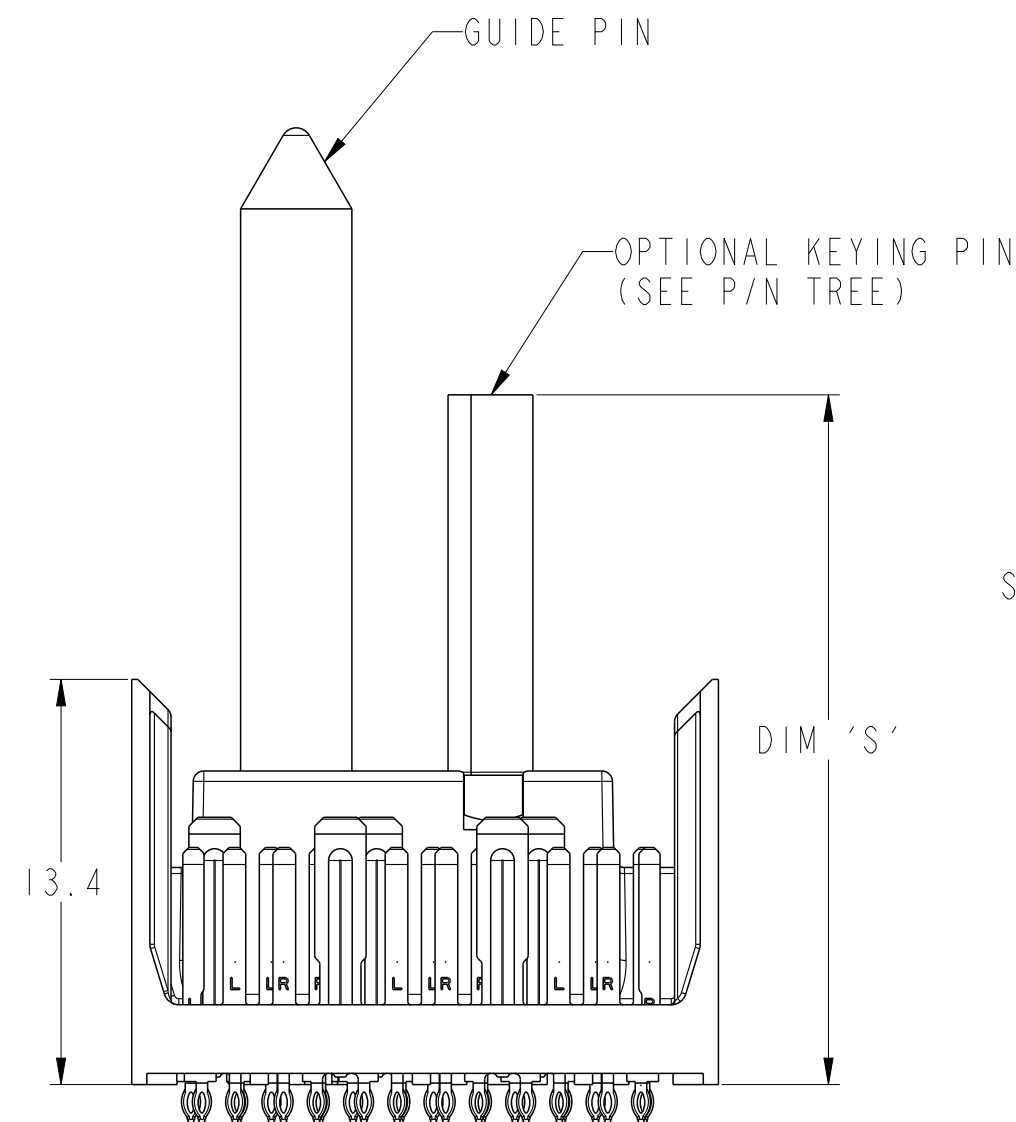
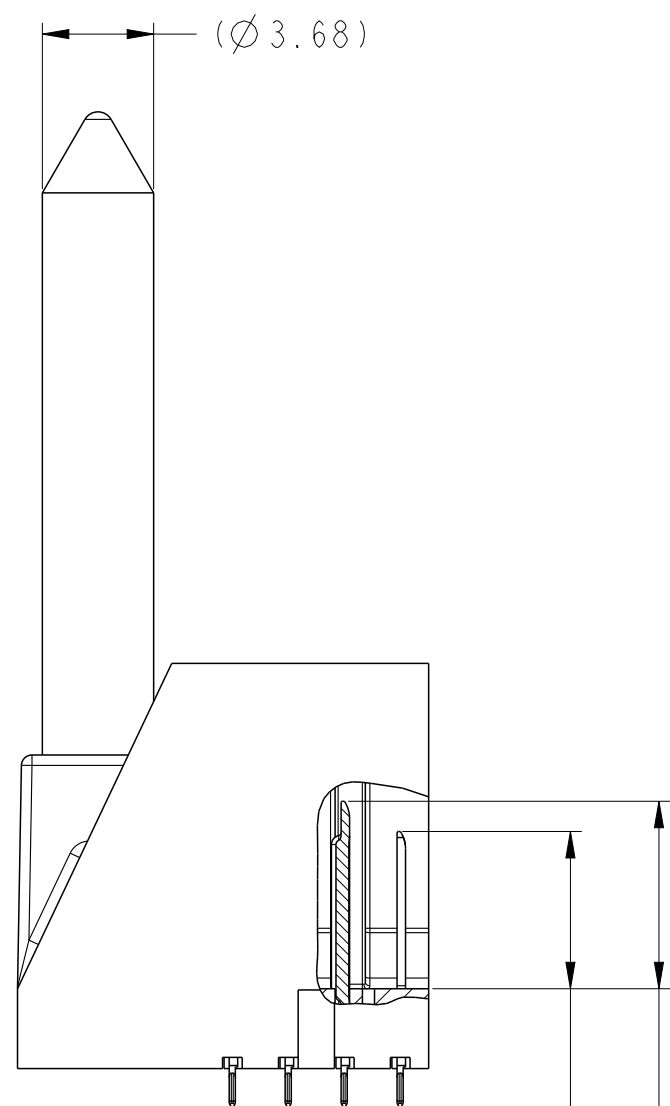
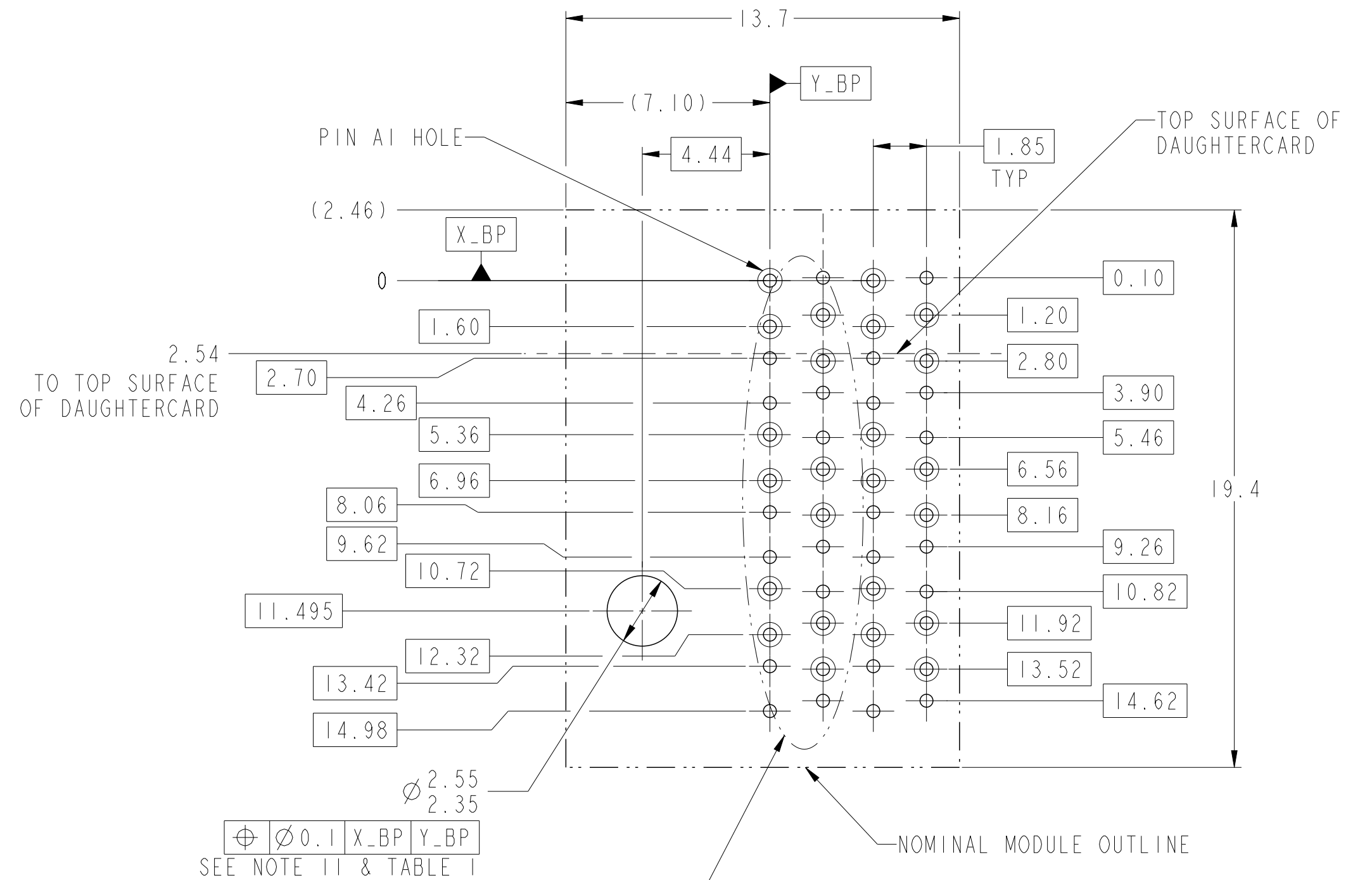
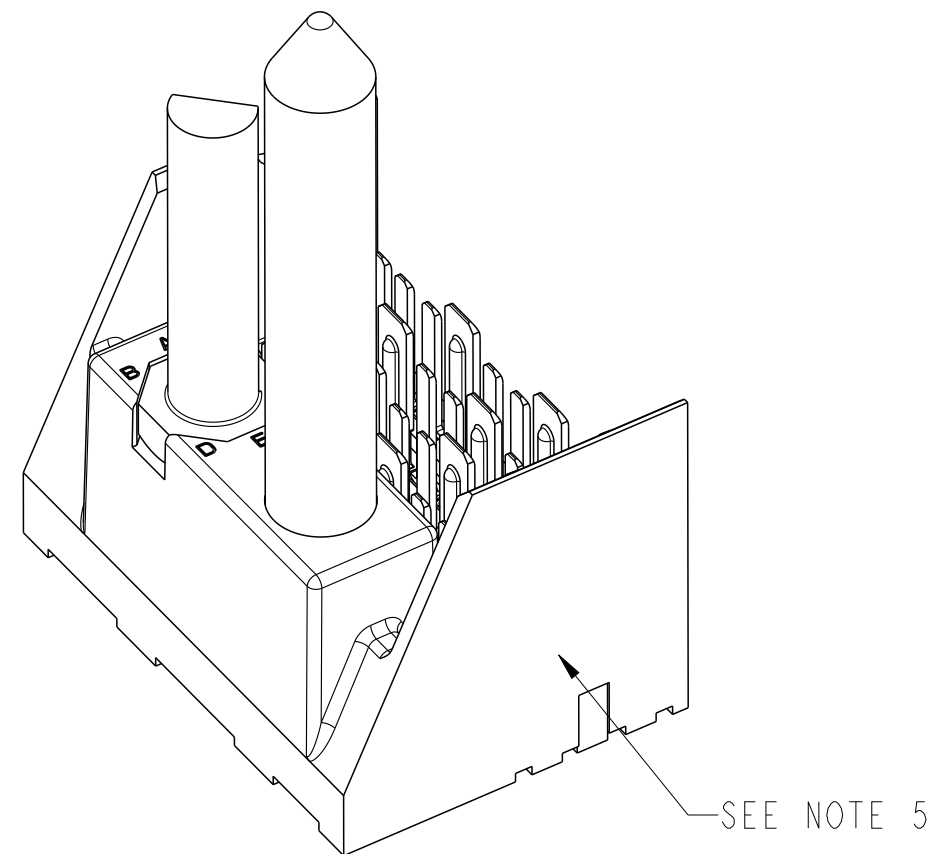
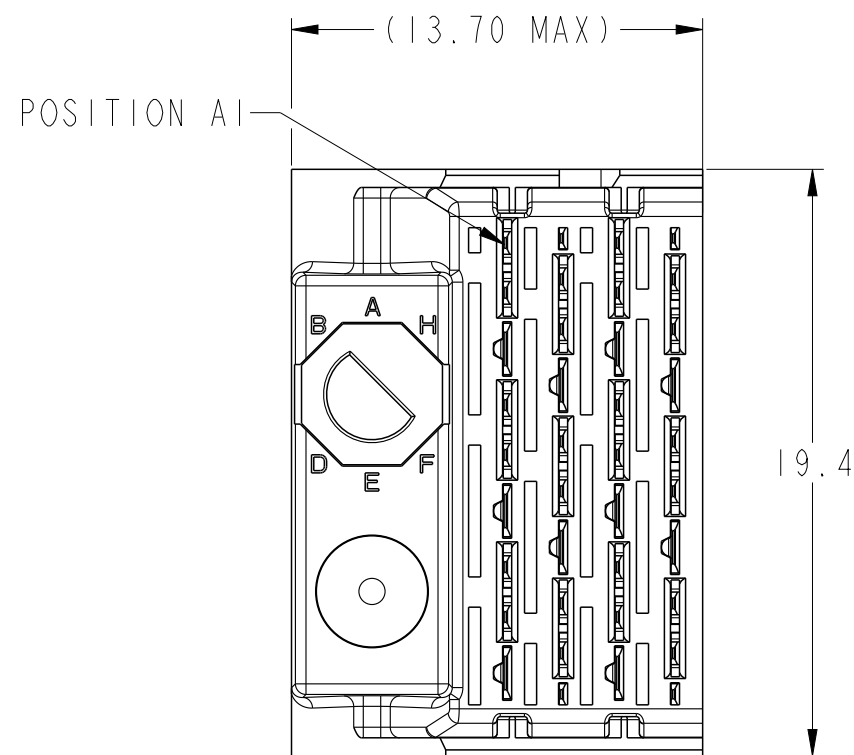
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tolerance std		-		eng		Sandar Soe		2014/10/02						ecn no		ELX-S-18843-1							
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-						rel level		Released							
				appr		Chen-Hong Tan		2014/12/10						product family		XCEDE							
surface		✓		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10119187		rev		B	
				0.XX		±0.10																	
				0.XXX		±0.050																	
ASME Y14.5				angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 2 of 8					

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LEFT 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

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)

spec ref	-	dr	Roger Ng	2011/11/22	projection	MM	size	A2	scale	4:1
tolerance std	-	eng	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2014/12/10	product family	XCEDE	rel level	Released	rev	B
surface	linear	0.X	± 0.2	0.XX	± 0.10	0.XXX	± 0.050	angular	0°	$\pm 2^\circ$
ASME Y14.5	angular	0°	$\pm 2^\circ$	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 8		

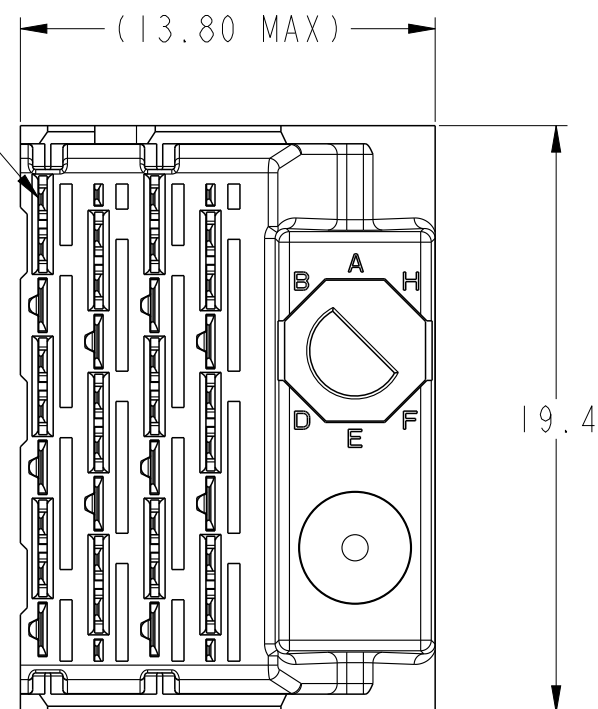
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STATUS:Released

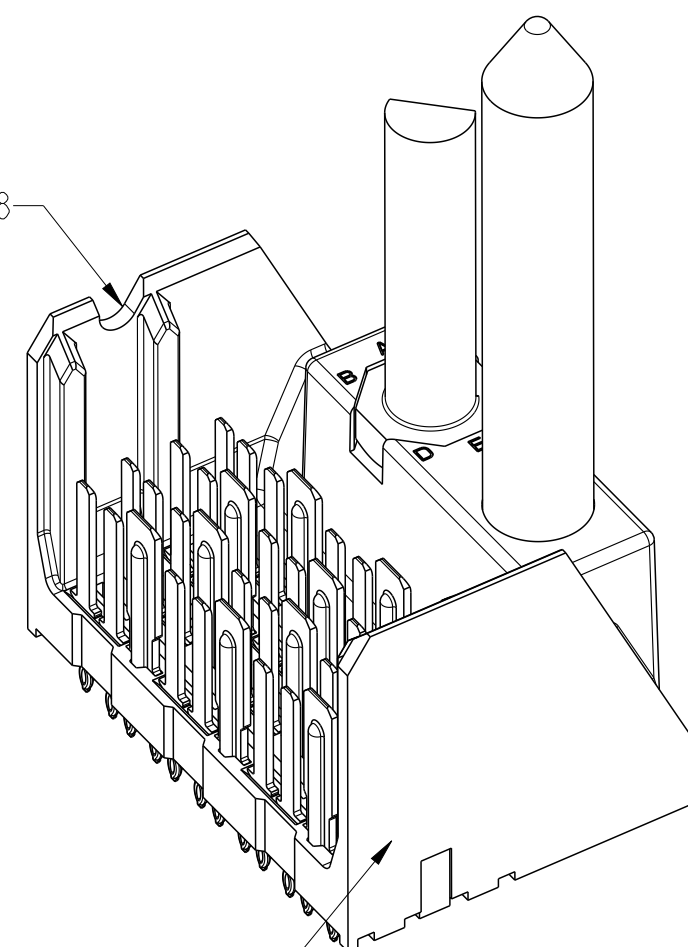
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RIGHT POLARIZING/GUIDE MODULE

POSITION A1



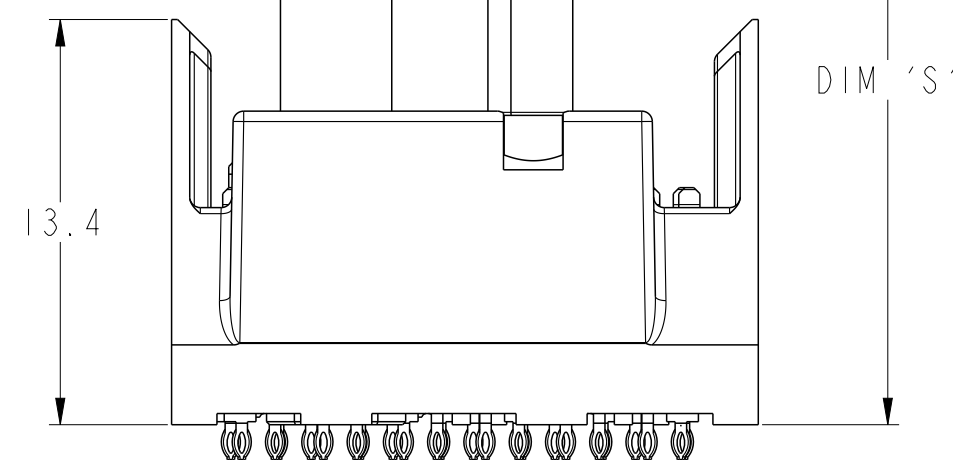
SEE NOTE 8



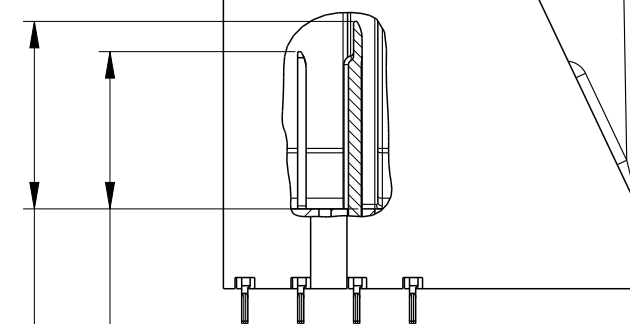
SEE NOTE 5

GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)

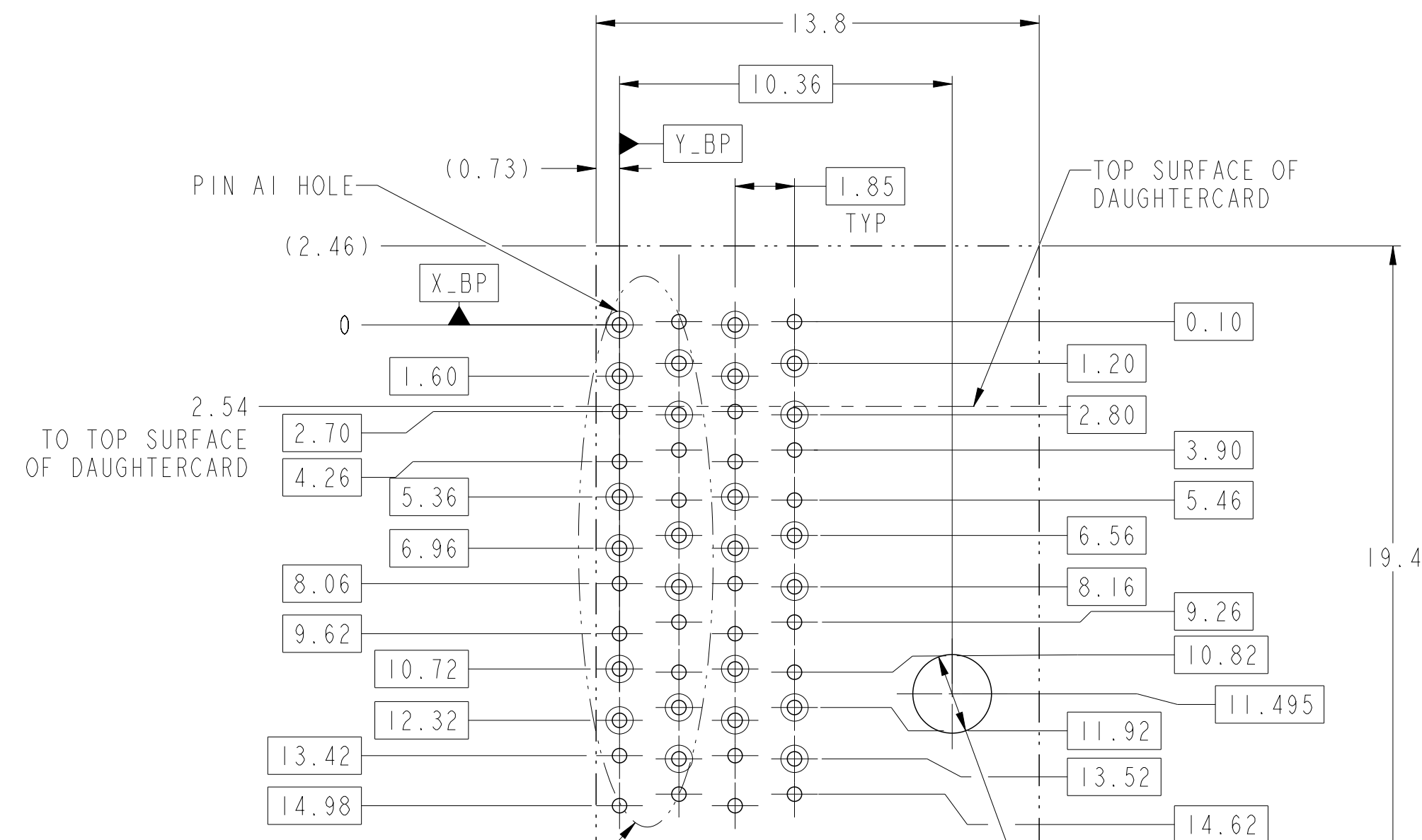


(Ø 3.68)



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 11 & TABLE 1

DIM 'R'

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

TAIL LENGTH
SEE NOTE 12

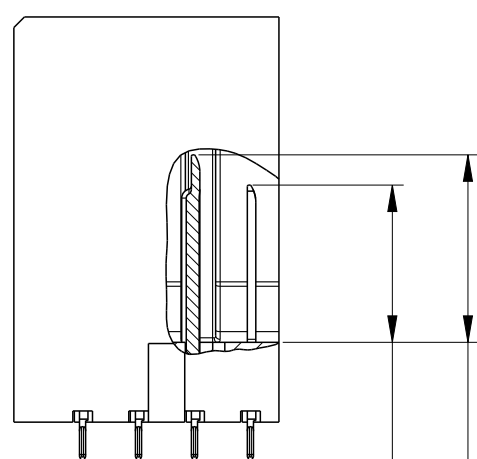
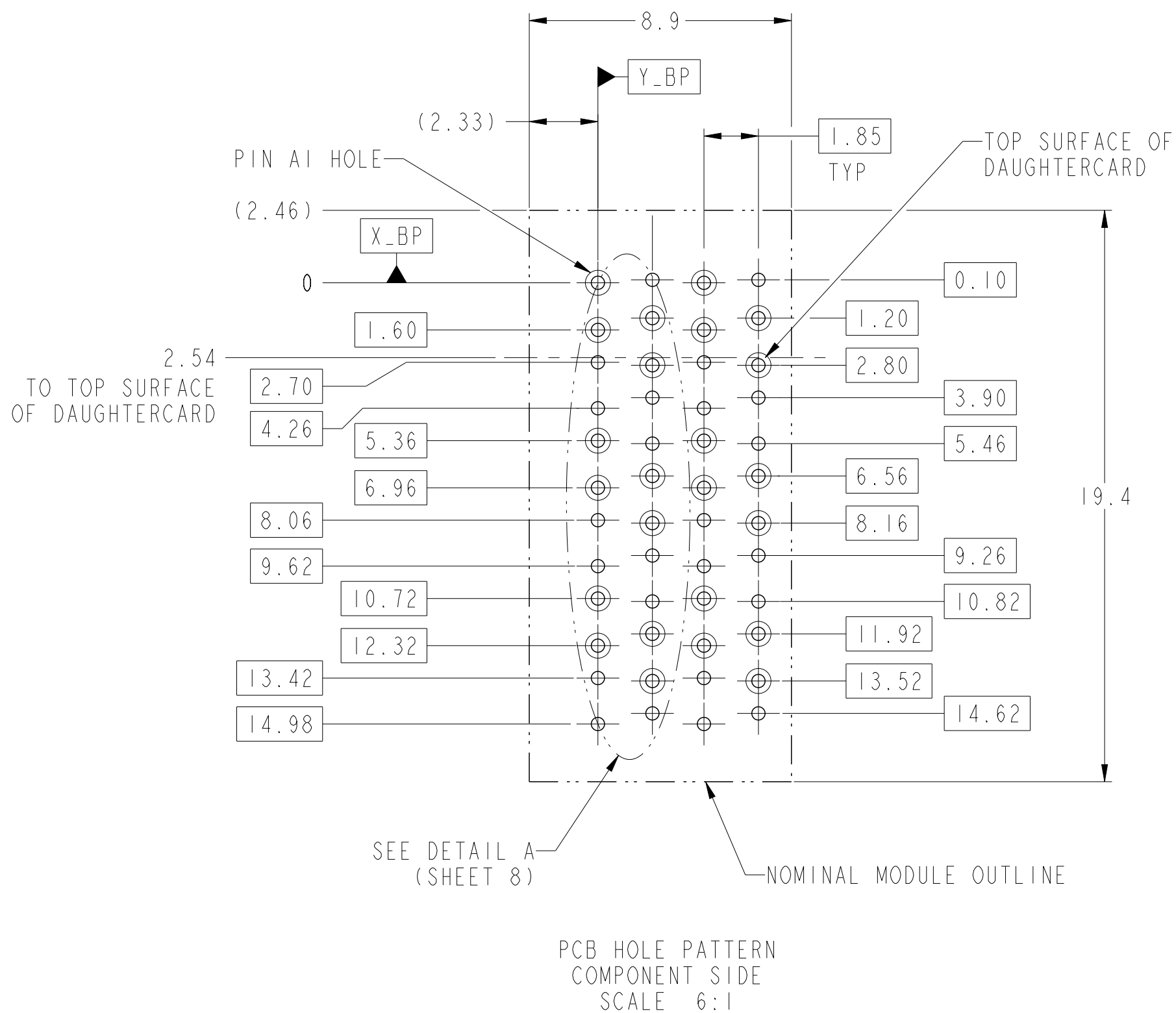
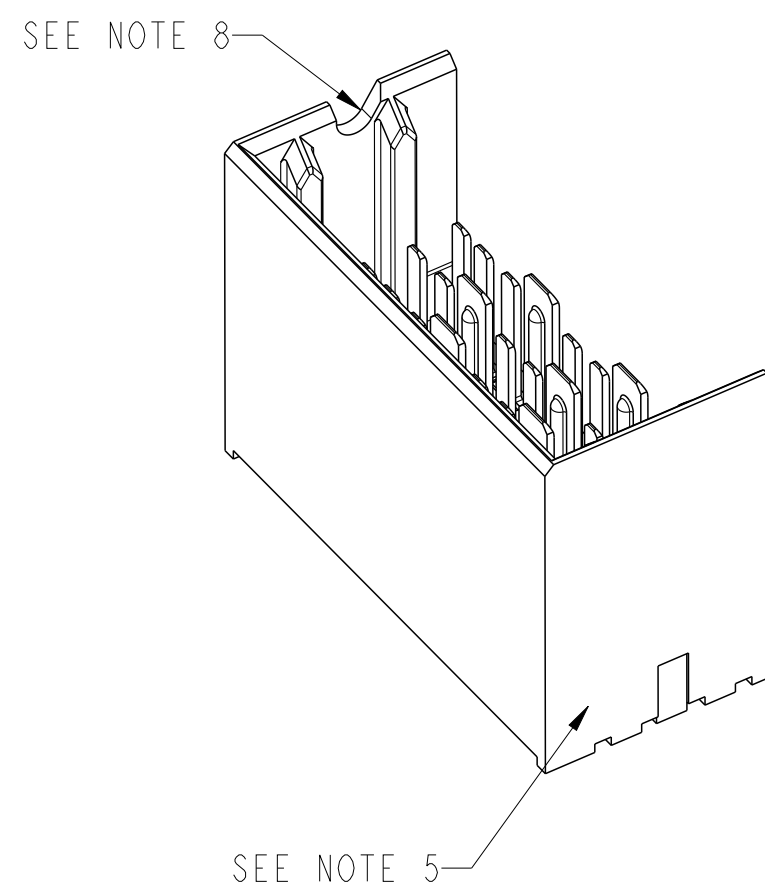
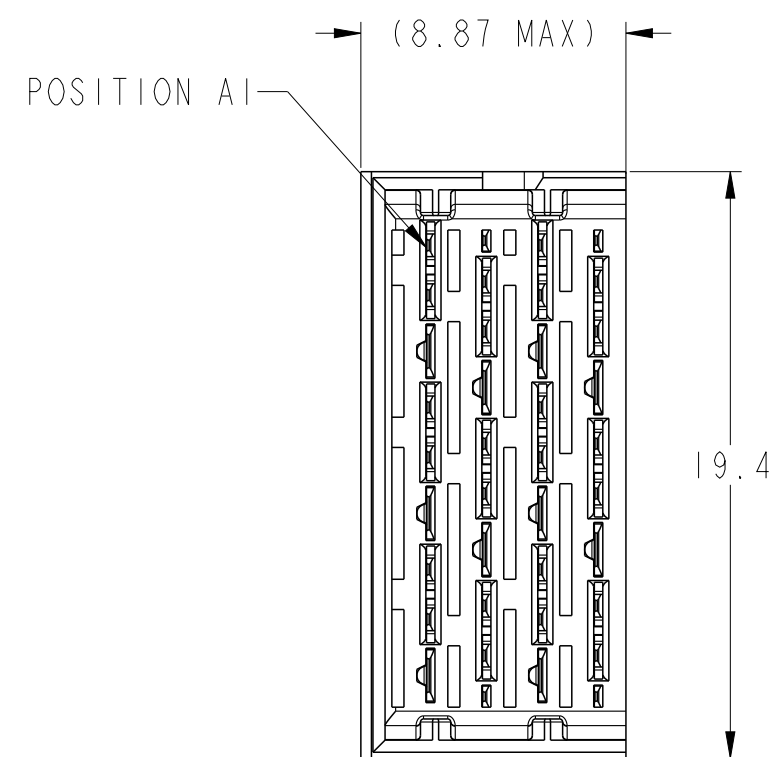
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tolerance std	ASME Y14.5	eng	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2014/12/10	product family	XCEDE	rel level	Released	rev	B
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	FCI	cat. no.	-	Product - Customer Drw	sheet 4 of 8	dwg no	10119187	rev	B
angular	0° ±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 4 of 8	dwg no	10119187	rev	B

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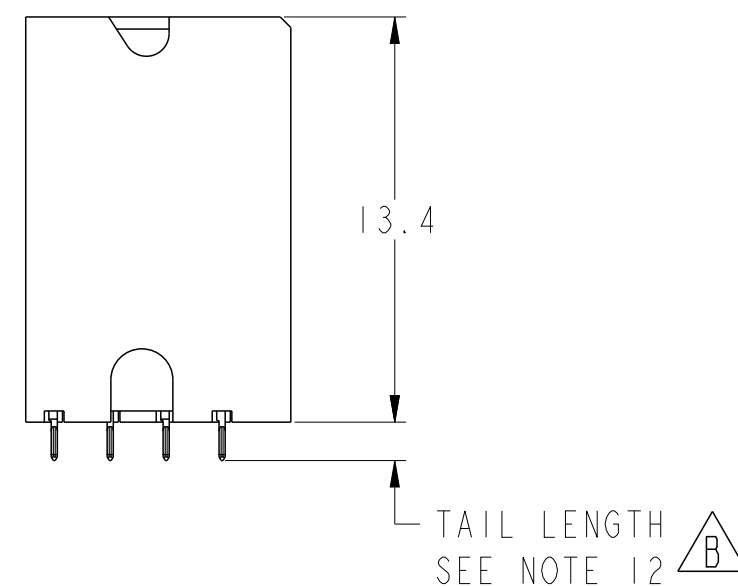
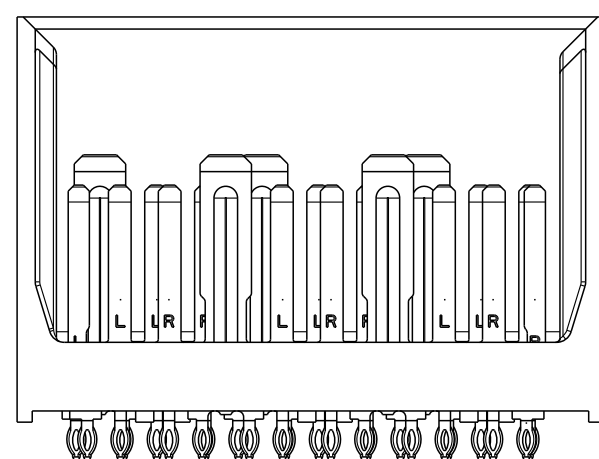
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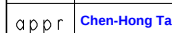
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LEFT WALL MODULE



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)



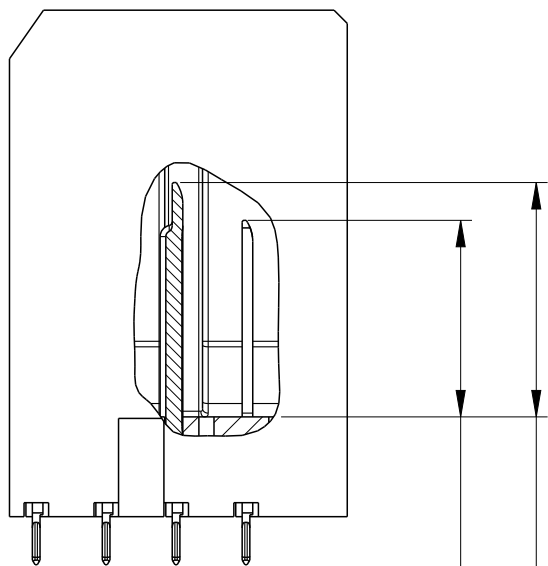
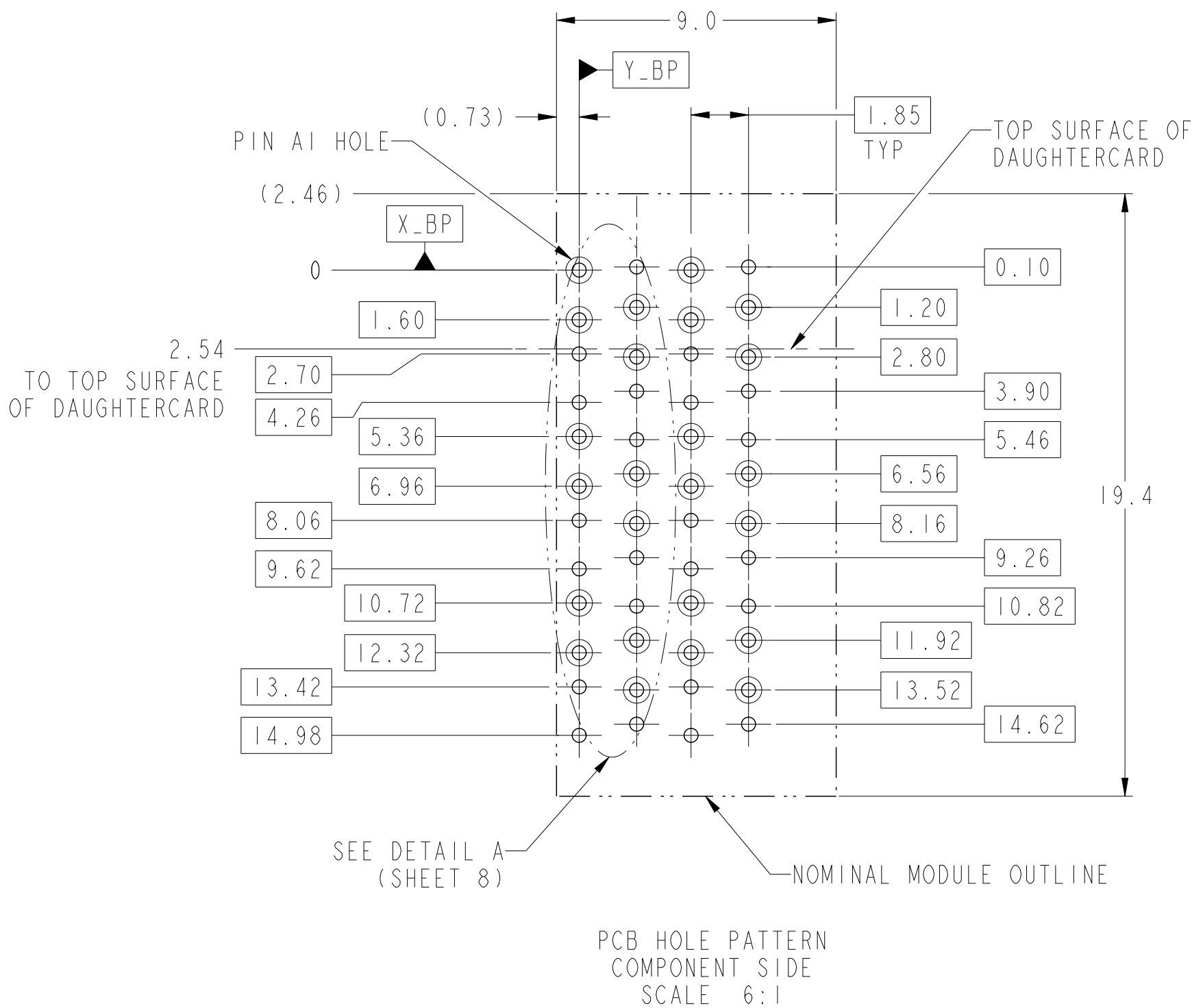
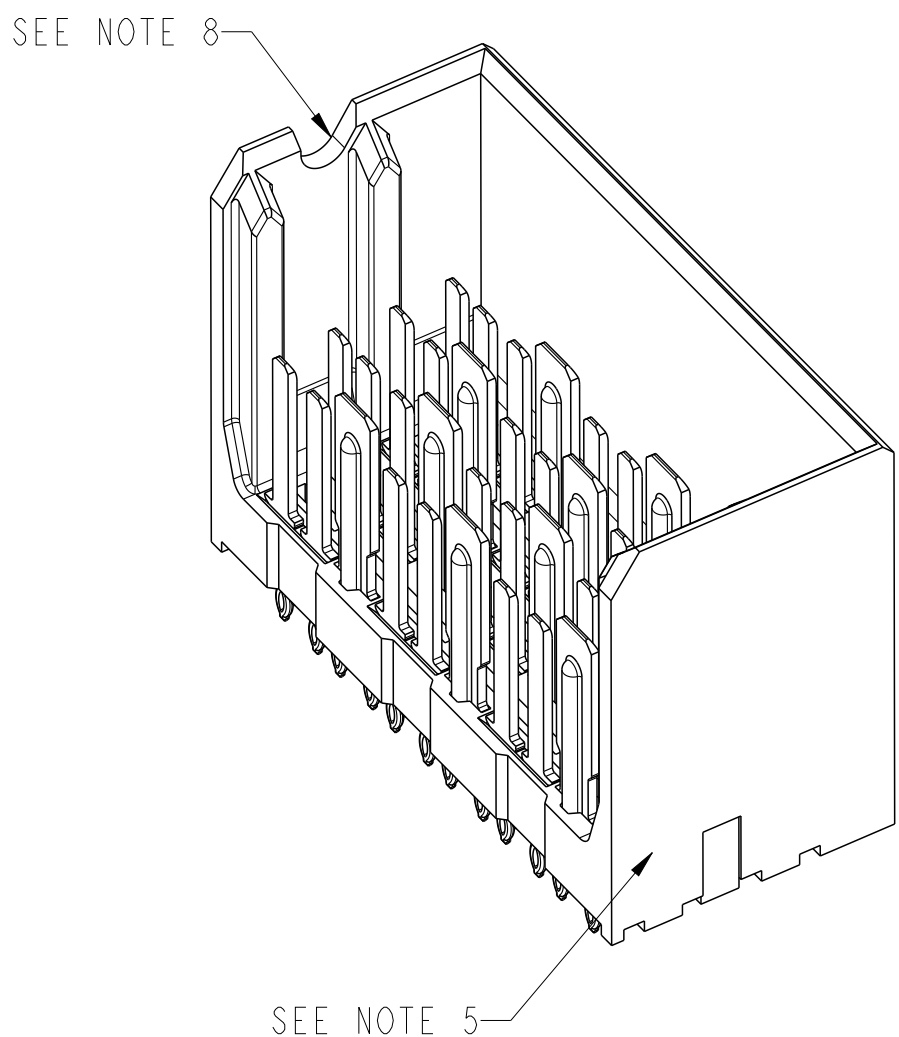
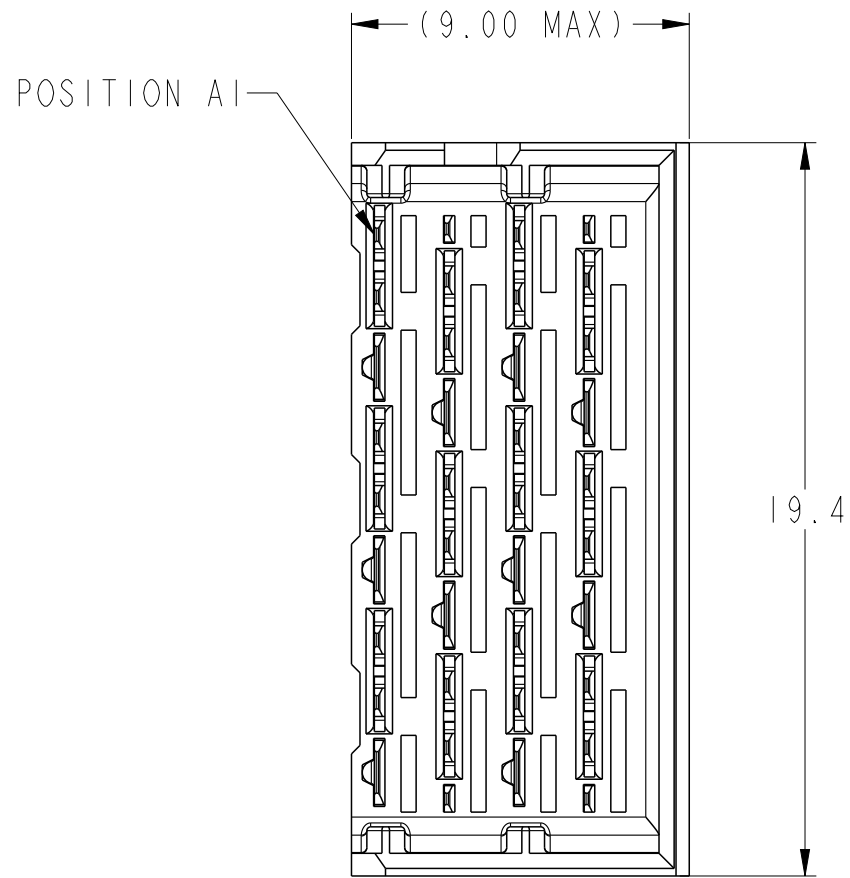
spec ref		-	dr		Roger Ng	2011/11/22	projection			MM	size	A2	scale	4:1	
tolerance std		-	eng		Sandar Soe	2014/10/02					ecn no		ELX-S-18843-1		
ASME Y14.5		chr		-	-										
		appr		Chen-Hong Tan	2014/12/10										
						product family		XCEDE		rel level		Released			
surface		✓	linear				title		MODULE ASSEMBLY		dwg no		10119187		rev
									VERTICAL HEADER 4 COLUMN, 3 PAIR						B
ASME Y14.5			angular		0° ±2°		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 5 of 8

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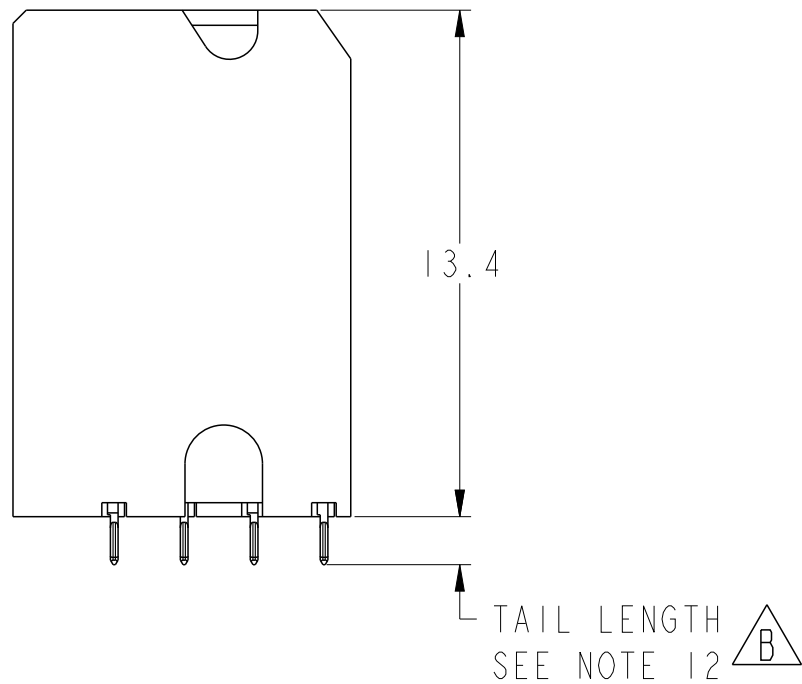
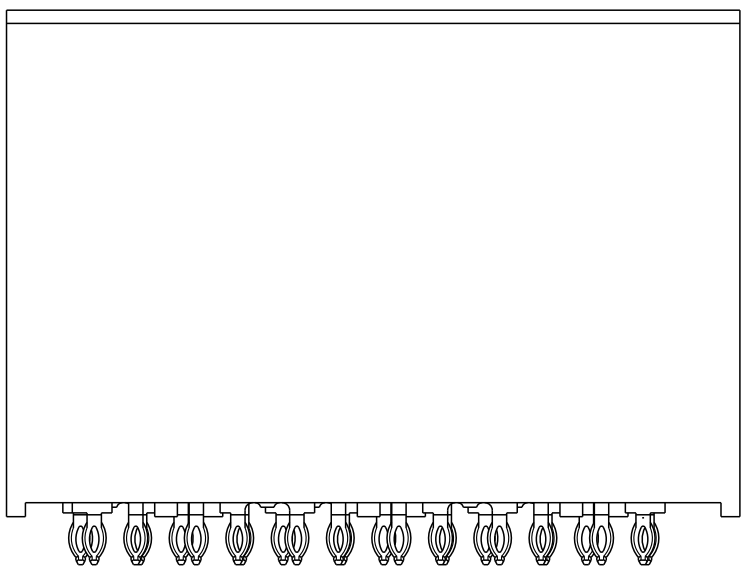
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RIGHT WALL MODULE



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)



TAIL LENGTH
SEE NOTE 12

spec ref -				dr Roger Ng 2011/11/22		projection 		MM 		size A2		scale 4:1	
tolerance std - ASME Y14.5				eng Sandar Soe 2014/10/02		chr -		ecn no ELX-S-18843-1		rel level Released			
TOLERANCES UNLESS OTHERWISE SPECIFIED				appr Chen-Hong Tan 2014/12/10		product family		XCEDE					
surface 		linear		0.X ±0.2 0.XX ±0.10 0.XXX ±0.050				title MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR		dwg no 10119187		rev B	
ASME Y14.5		angular 0° ±2°		www.fci.com		cat. no. -		Product - Customer Drw				sheet 6 of 8	



MODULE ASSEMBLY
VERTICAL HEADER 4 COLUMN, 3 PAIR

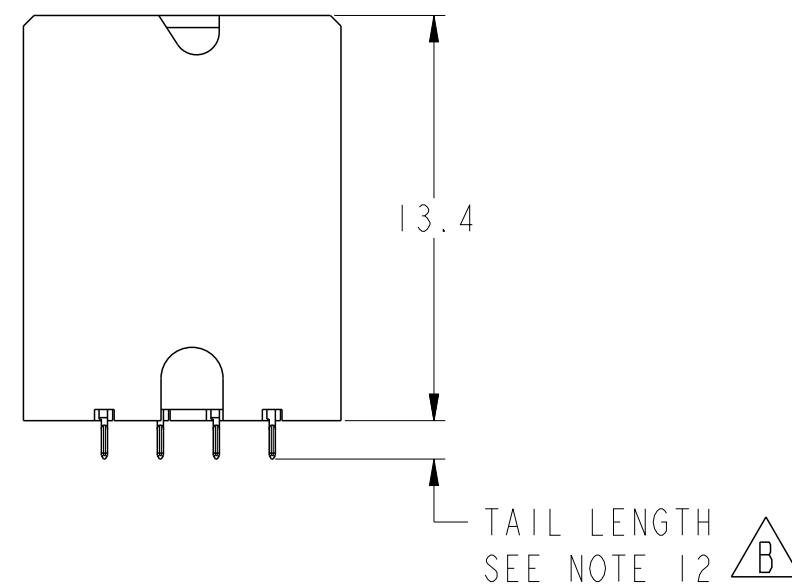
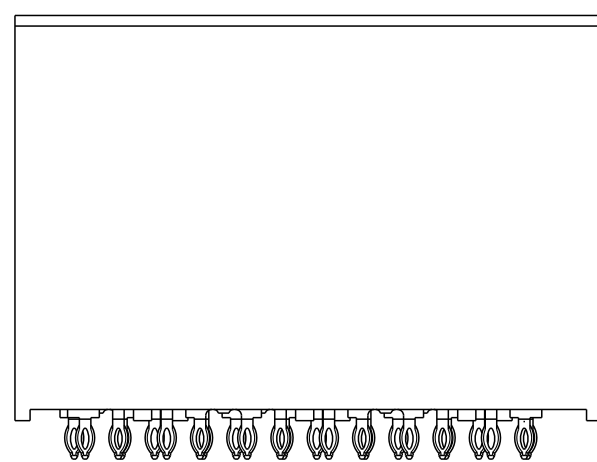
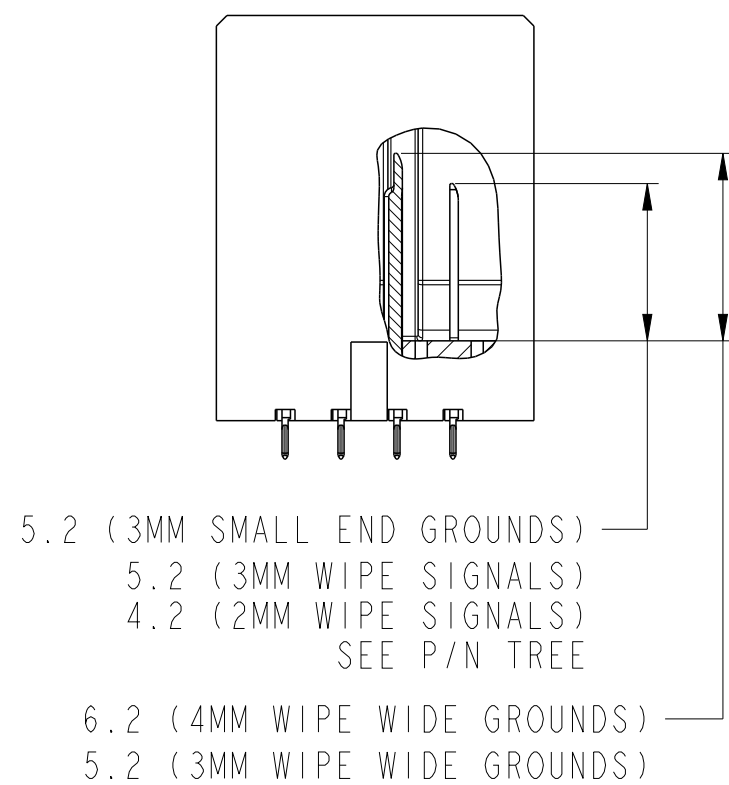
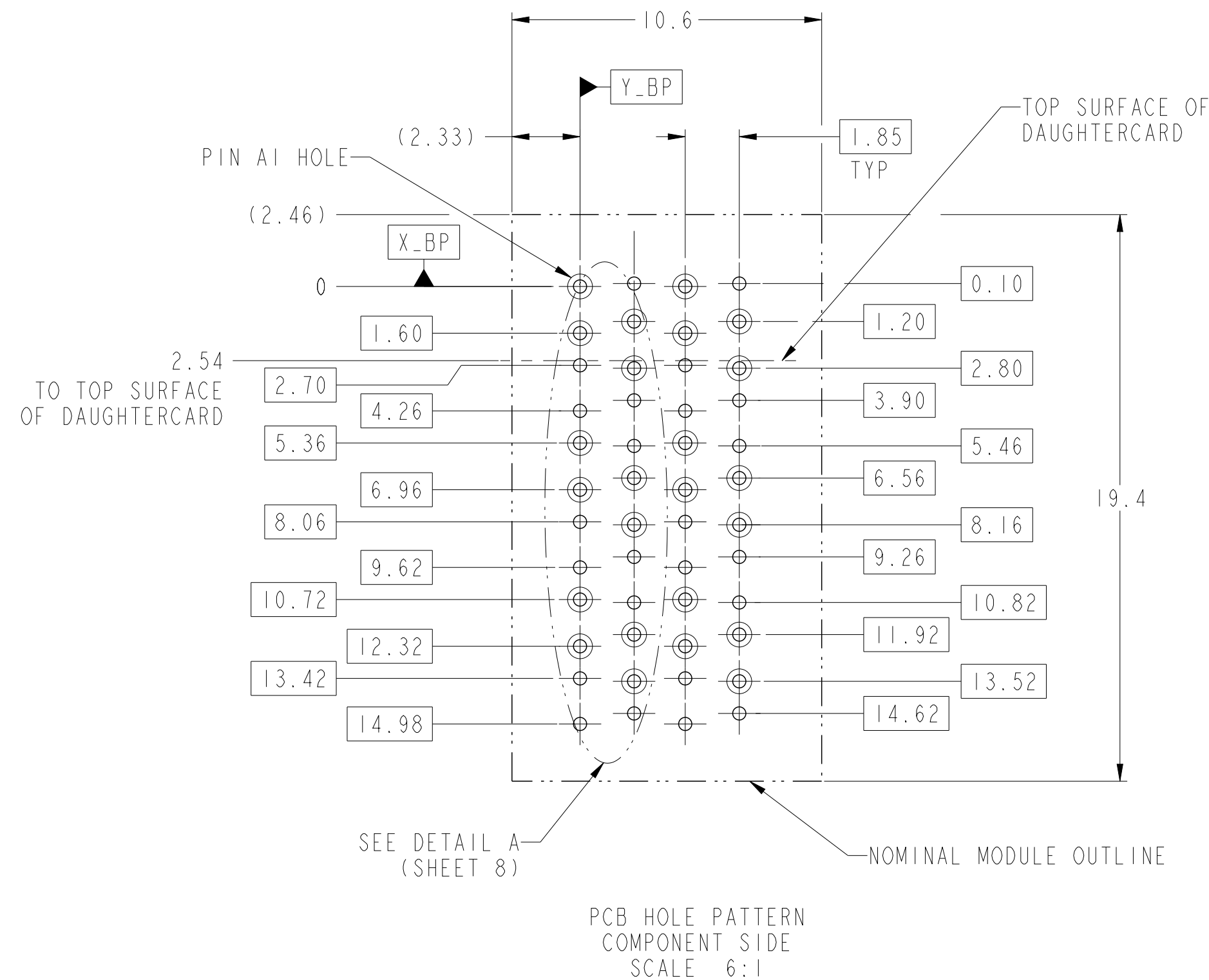
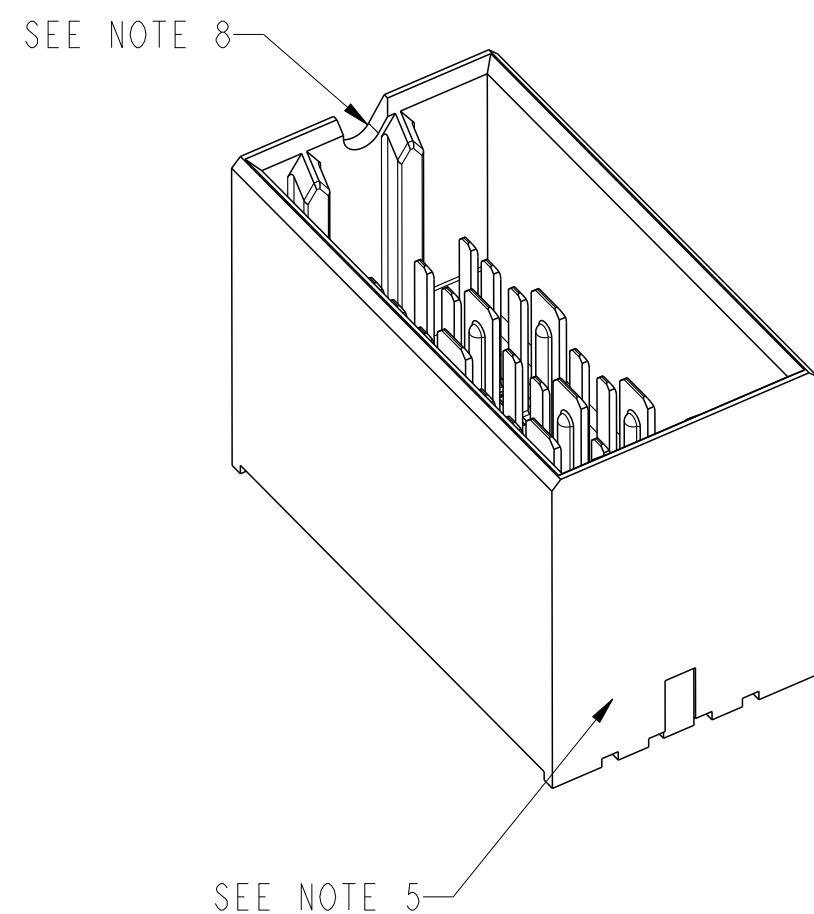
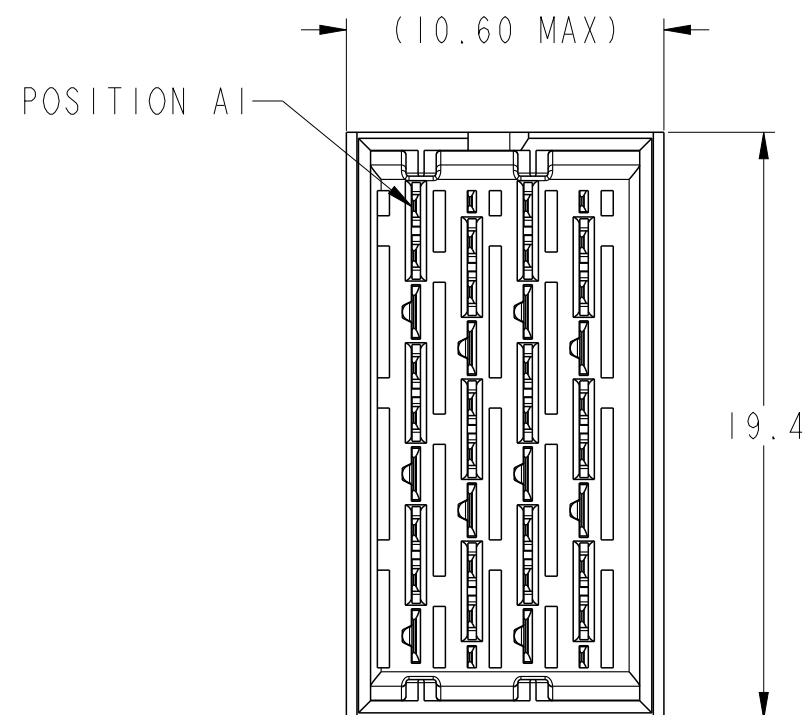
10119187
B

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FOUR WALL MODULE



spec ref		-		dr		Roger Ng		2011/11/22		projection				MM		size		A2		scale		4:1	
tolerance std		-		eng		Sandar Soe		2014/10/02						ecn no		ELX-S-18843-1							
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-								rel level		Released					
surface		✓		appr		Chen-Hong Tan		2014/12/10		product family		XCEDE		rel level		Released							
linear		0.X ±0.2				title		MODULE ASSEMBLY		dwg no		10119187		rev		B							
0.XX ±0.10																							
0.XXX ±0.050		www.fci.com		cat. no.		-		Product - Customer Drw		sheet 7 of 8													
angular												0° ±2°											
ASME Y14.5																							

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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
- APPLICATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSTAND 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.
- OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.
- B

12

 TAIL LENGTH=1.3mm FOR $\varnothing 0.55[0.0217"]$ COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR $\varnothing 0.45[0.0177"]$ COMPLIANT PIN DRILL
- A

B

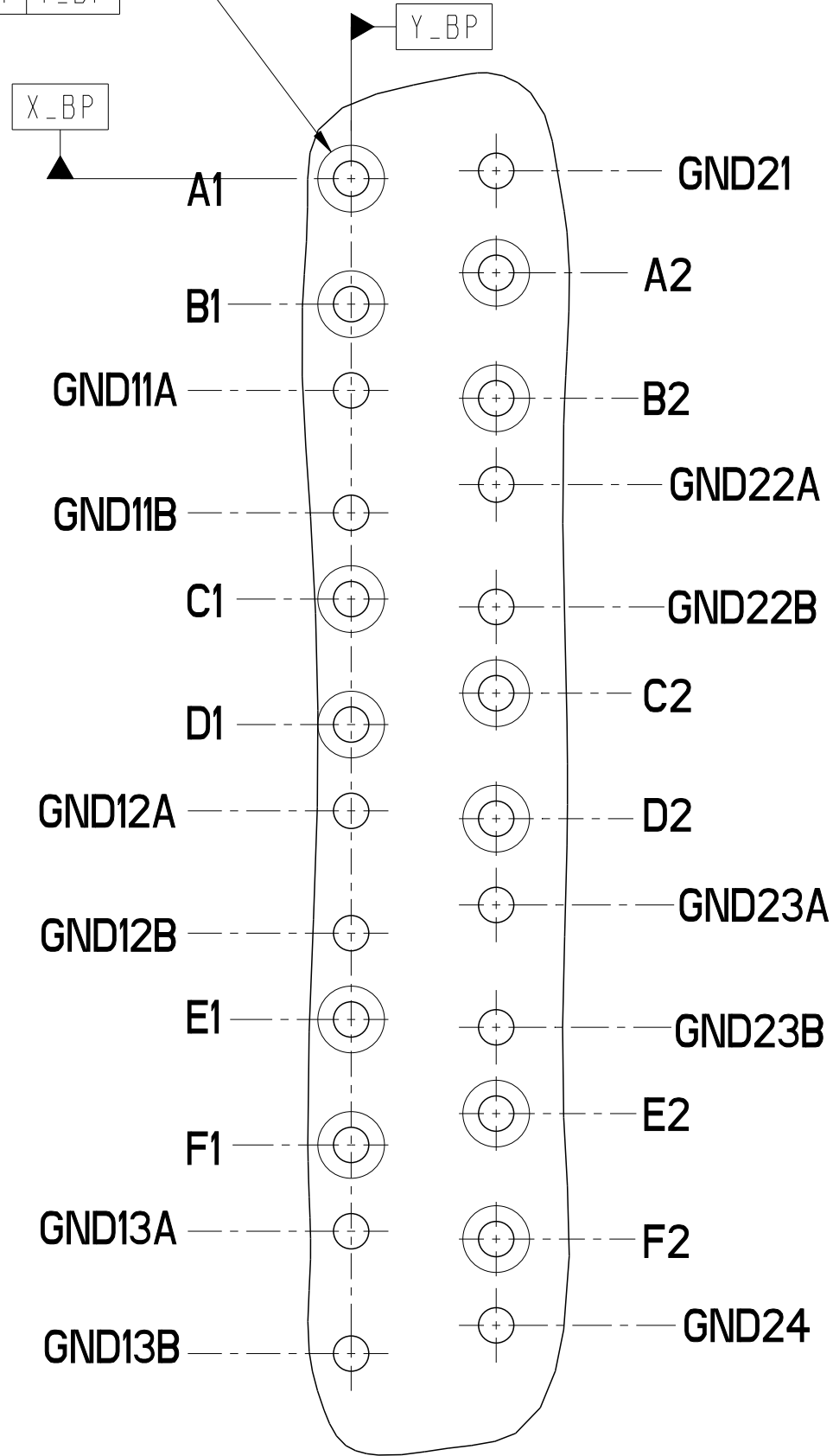
 SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

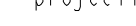
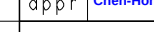
COMPLIANT PIN DRILL	PTH	PAD
$\varnothing 0.55 [0.0217"]$	$\varnothing 0.45\pm 0.05$	$\varnothing 0.85$
$\varnothing 0.45 [0.0177"]$	$\varnothing 0.36\pm 0.05$	$\varnothing 0.75$

REFER TO TABLE 3
FOR PTH, DRILL & PAD SIZES

$\varnothing$	$\varnothing 0.10$	X_BP	Y_BP
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DETAIL A
SCALE 12:1

spec ref		-		dr	Roger Ng	2011/11/22			size	A2	scale	4:1	
tolerance std		-		eng	Sandar Soe	2014/10/02			ecn no	ELX-S-18843-1			
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	-			Released				
				appr	Chen-Hong Tan	2014/12/10	product family		XCEDE		rel level		
surface 	linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR				dwg no	10119187		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		