

10119187 - X0J - XXXLF

4-COLUMN
DIFFERENTIAL
SIGNAL

LEAD-FREE DESIGNATION
ONLY WITH APPLICABLE
PLATING CODES

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"]

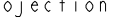
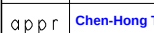
TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)

	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)										

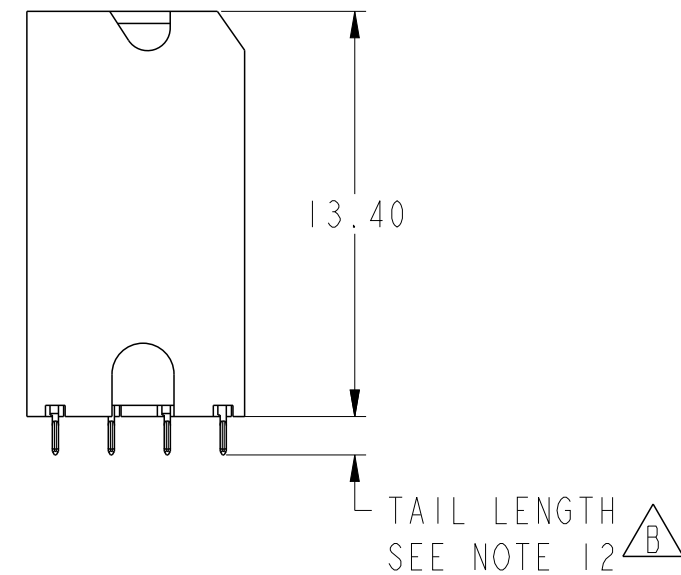
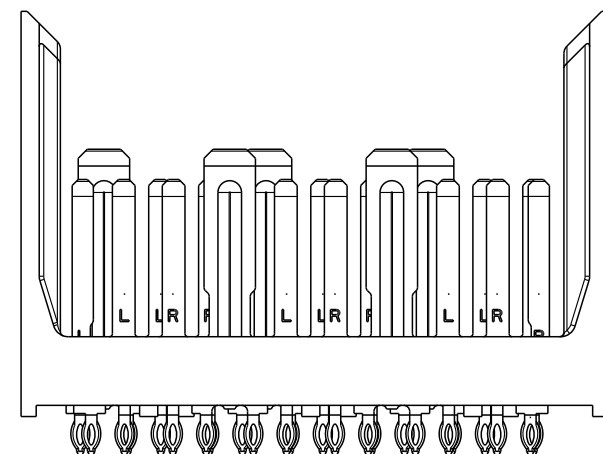
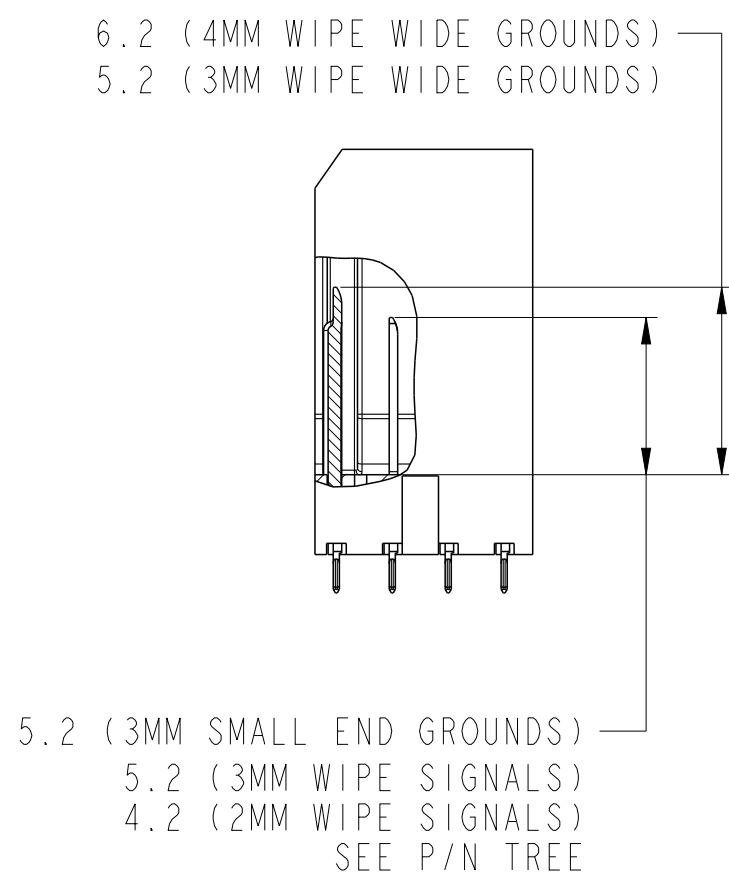
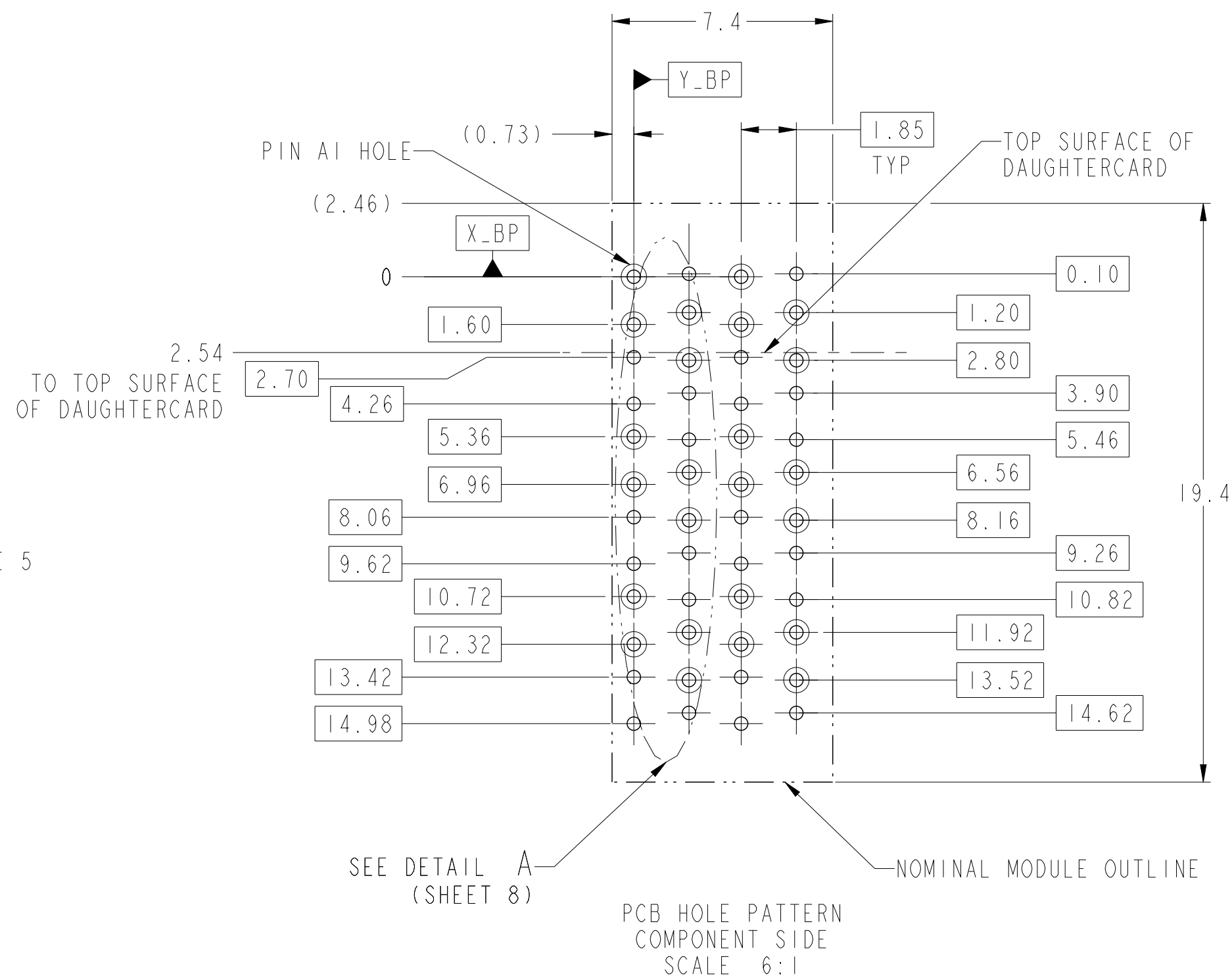
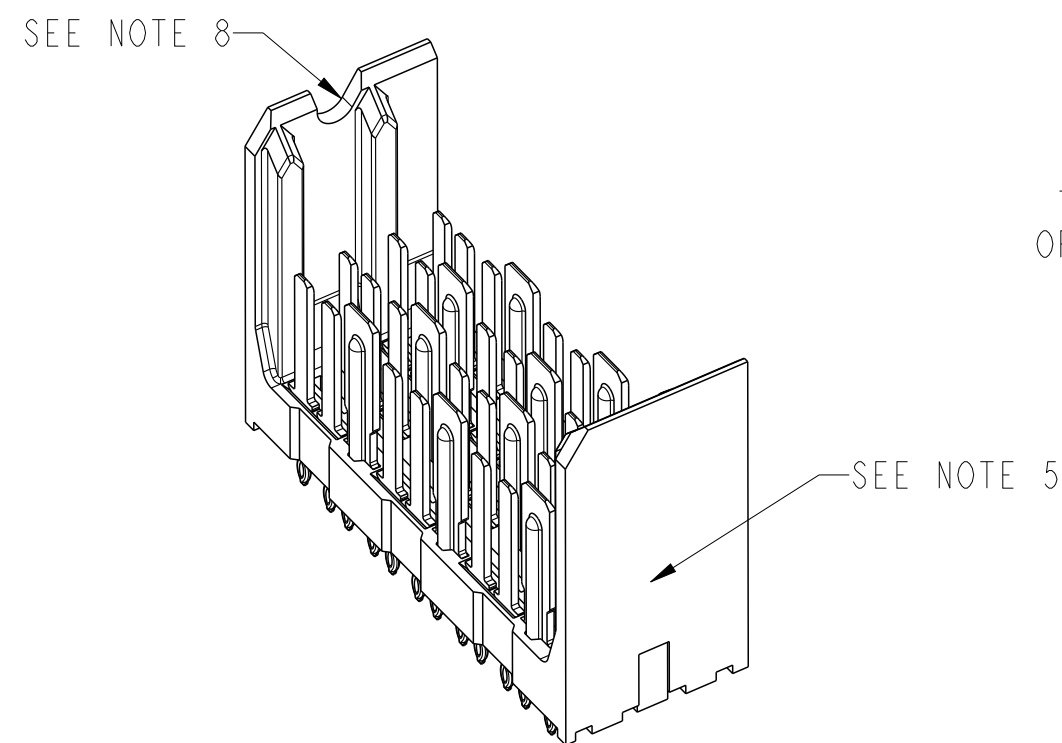
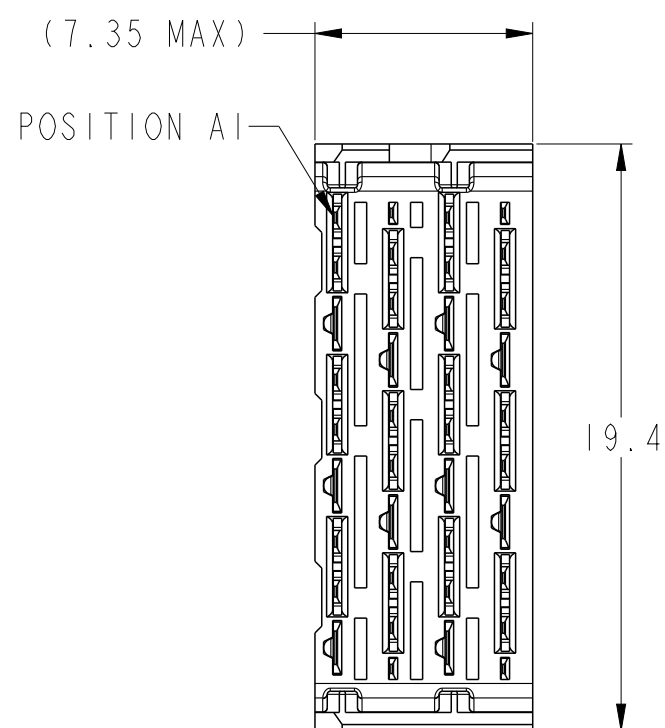
spec ref	-	dr	Roger Ng	2011/11/22			size	A2	scale	4:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Sandar Soe	2014/10/02			product family	XCEDE	ecn no	ELX-S-18843-1	rel level	Released
-		chr	-	-								
ASME Y14.5		appr	Chen-Hong Tan	2014/12/10								
surface		linear	0.X ±0.2 0.XX ±0.10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

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STATUS:Released

Printed: Dec 10, 2014

OPEN (2- WALL) MODULE



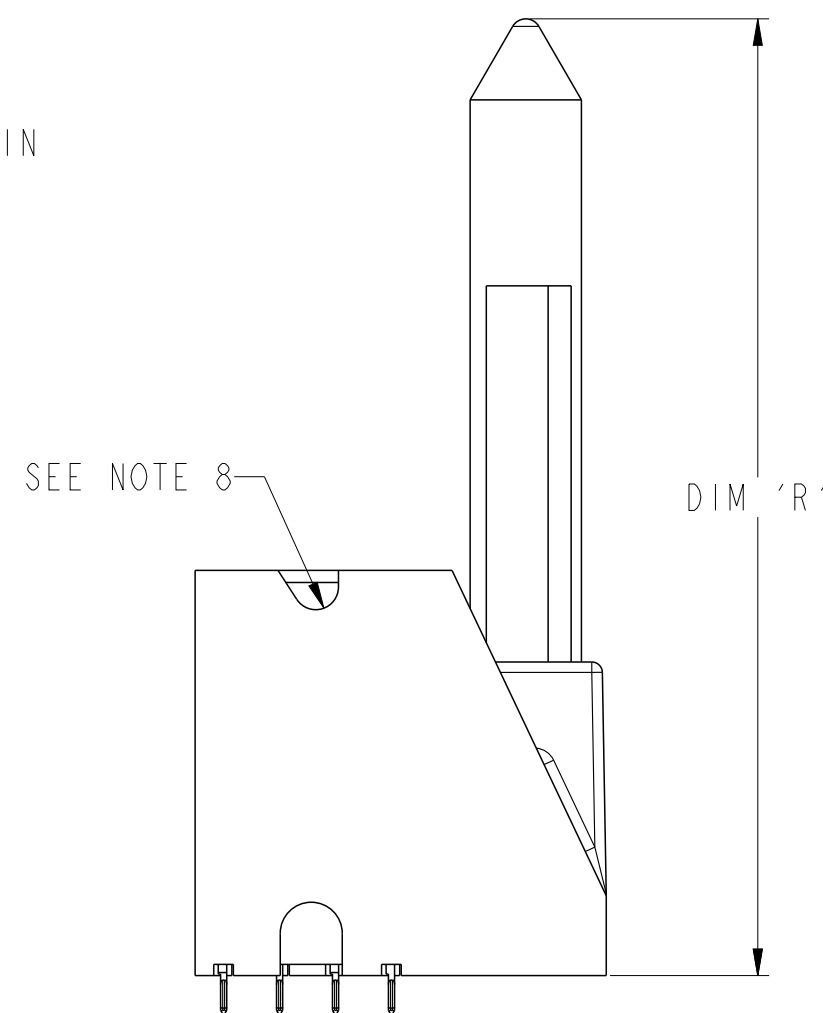
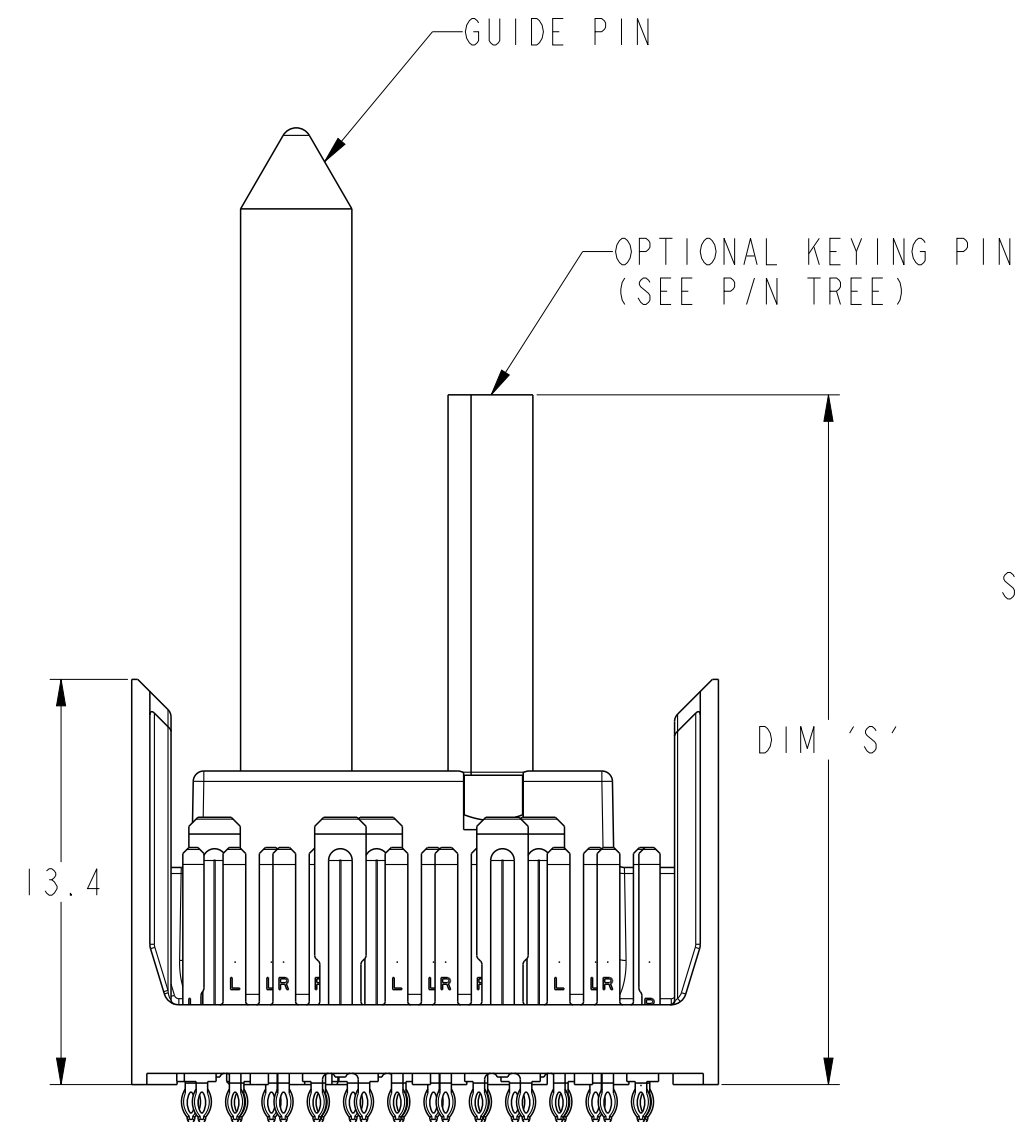
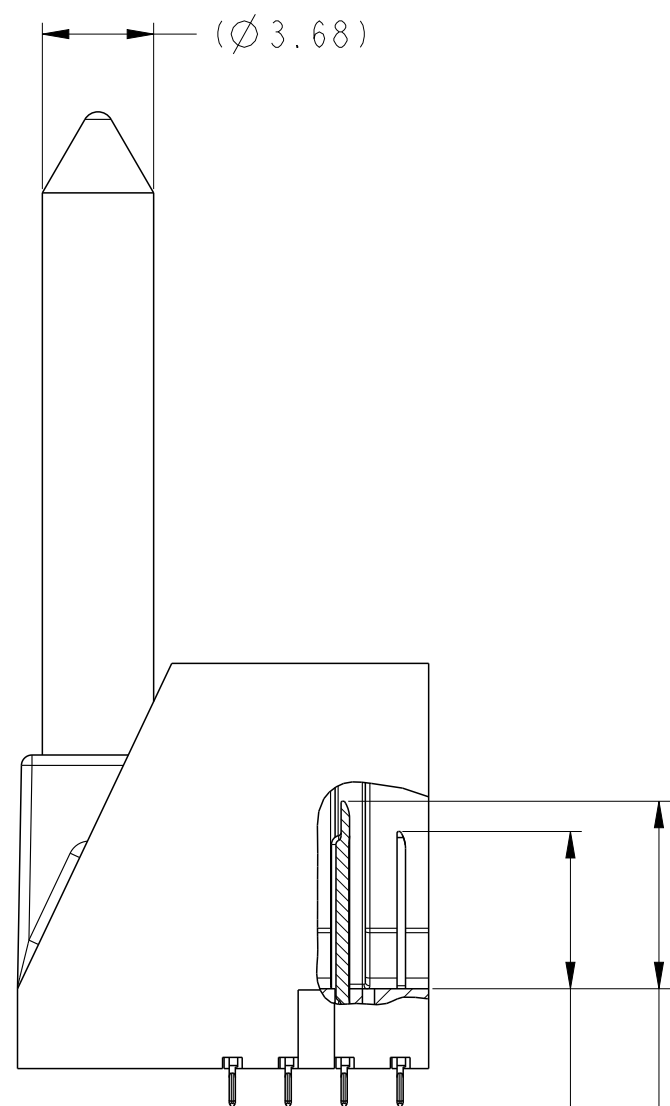
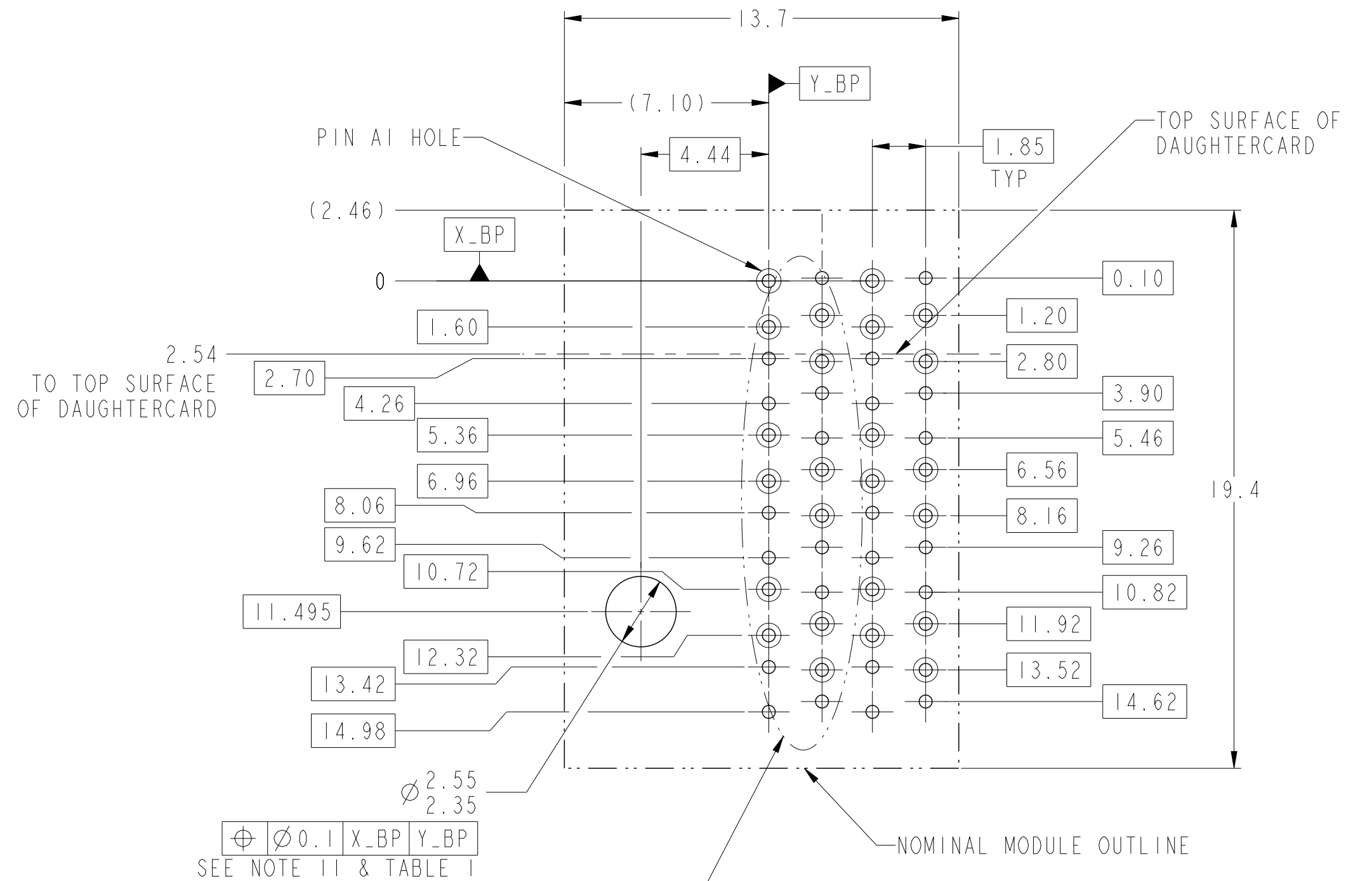
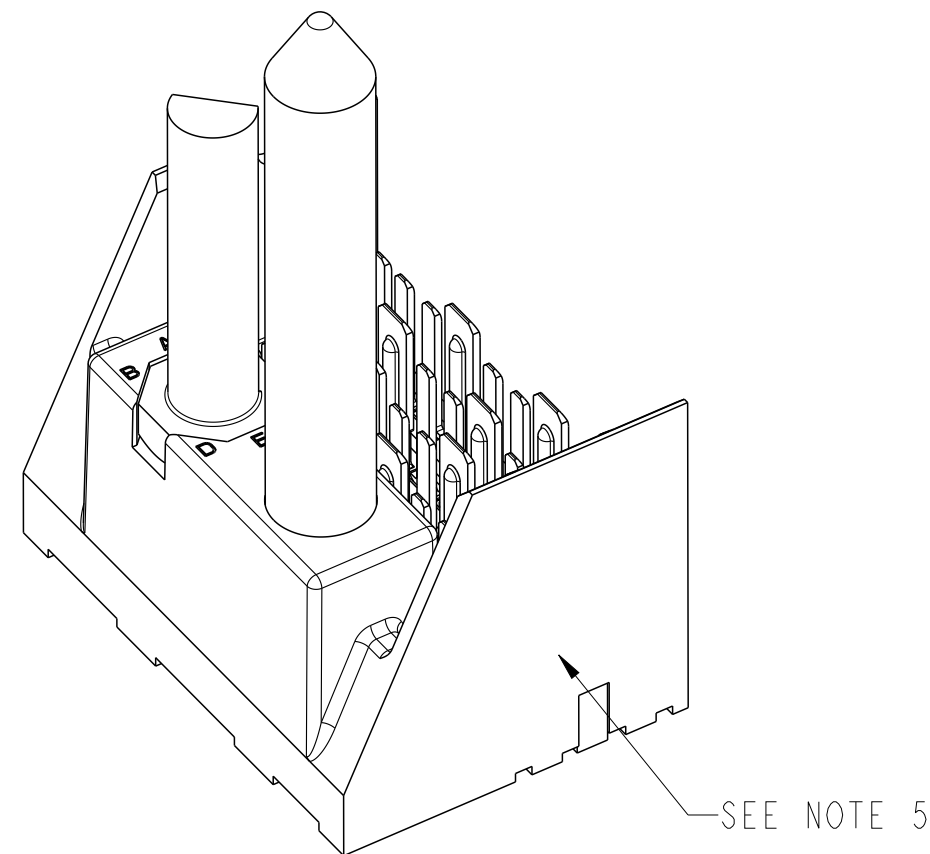
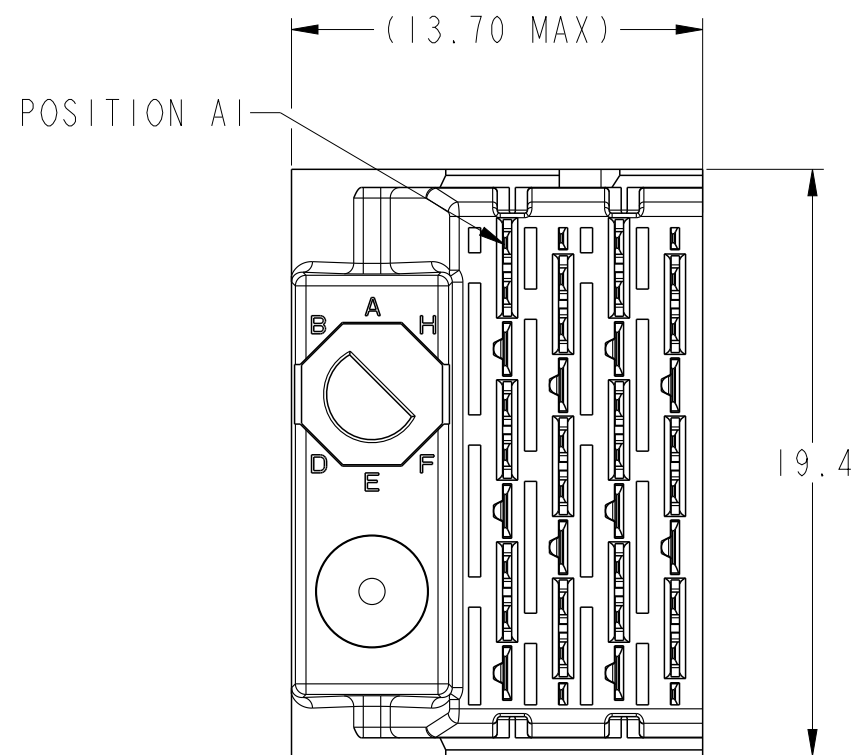
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tolerance std	-	eng	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2014/12/10	product family	XCEDE	rel level	Released	rev	B
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±2°
ASME Y14.5	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)

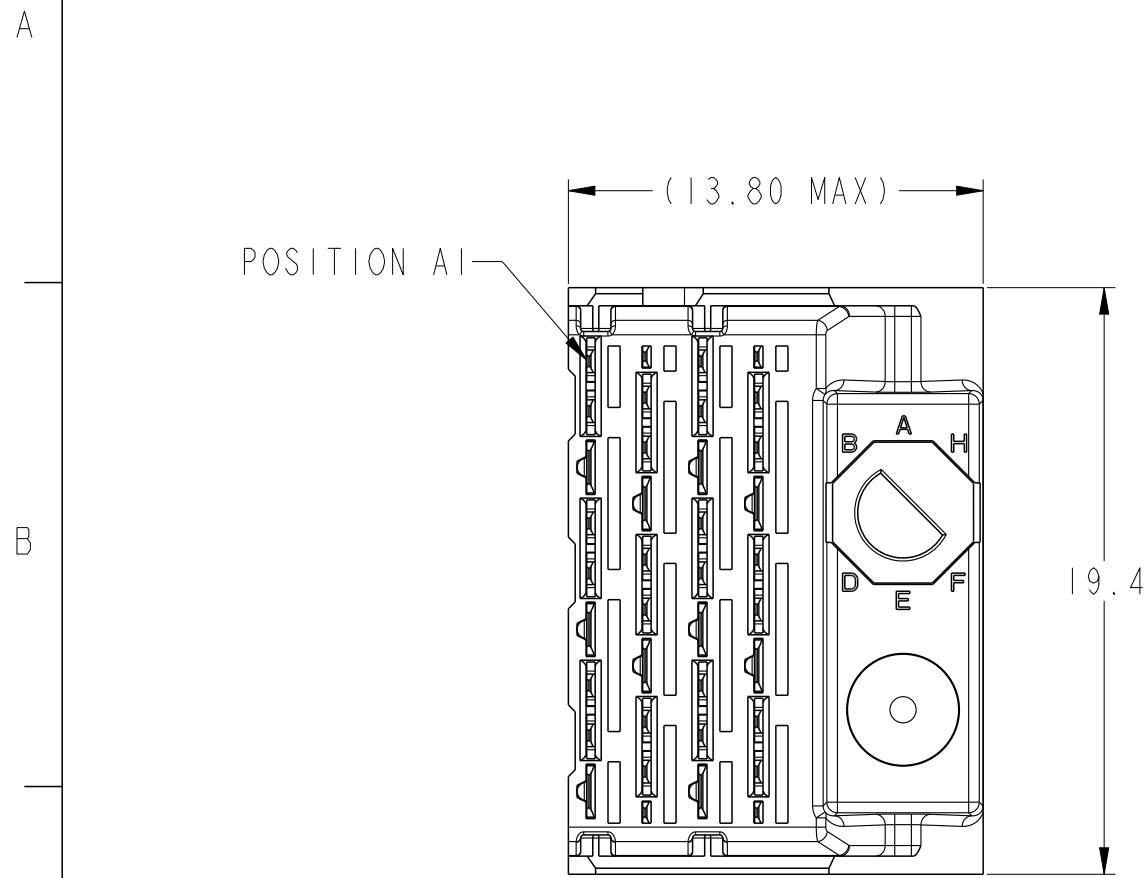
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tolerance std	-	eng	Sandar Soe	2014/10/02	chr	-	ecm no	ELX-S-18843-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2014/12/10	product family	XCEDE	rel level	Released	rev	B
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±2°
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 8		

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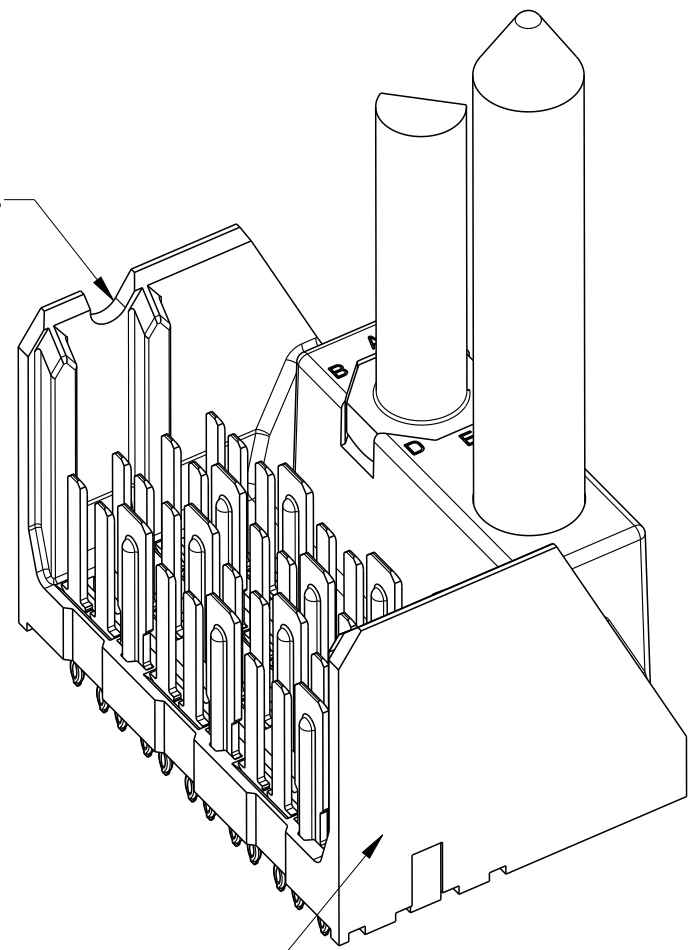
STATUS:Released

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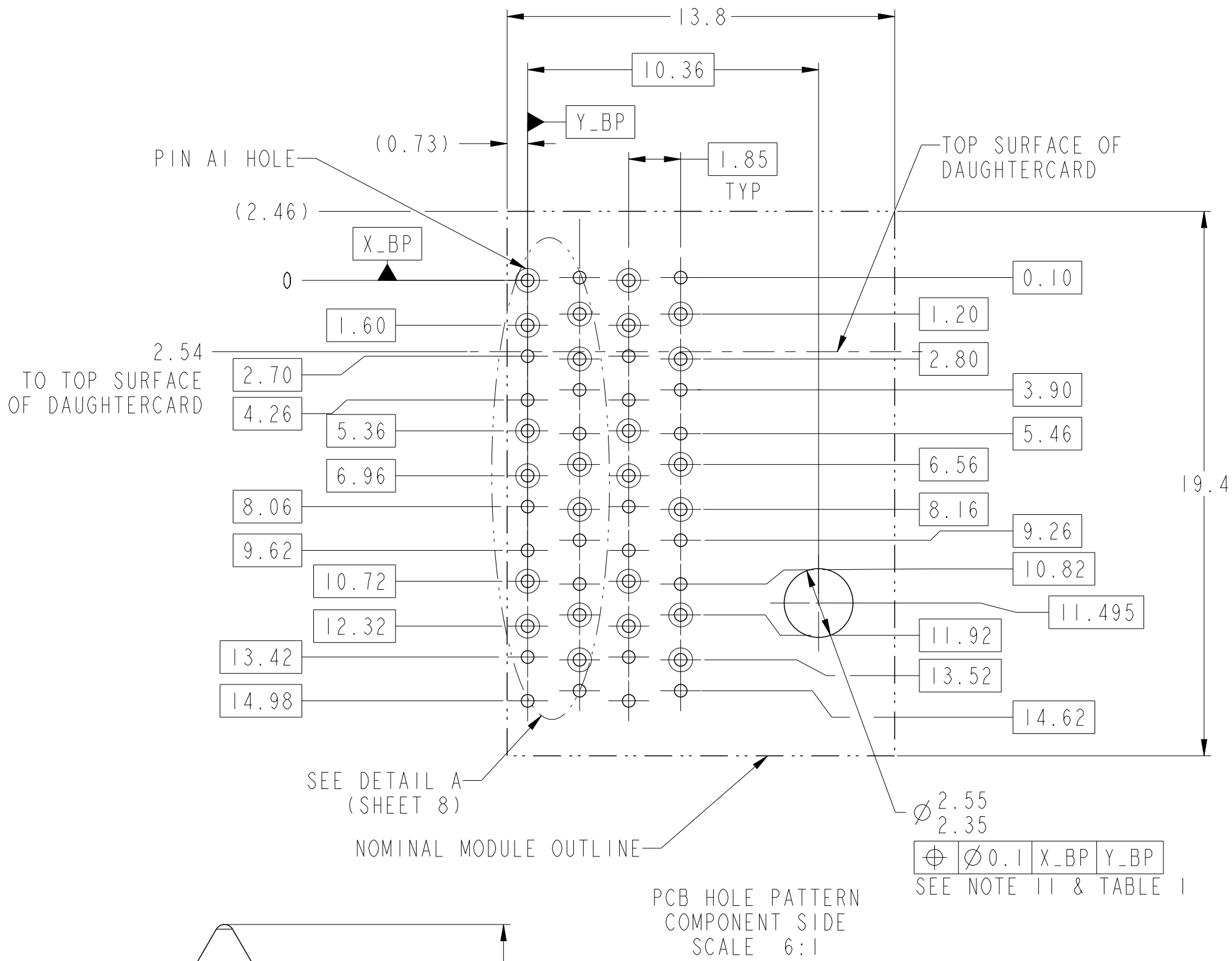
RIGHT POLARIZING/GUIDE MODULE



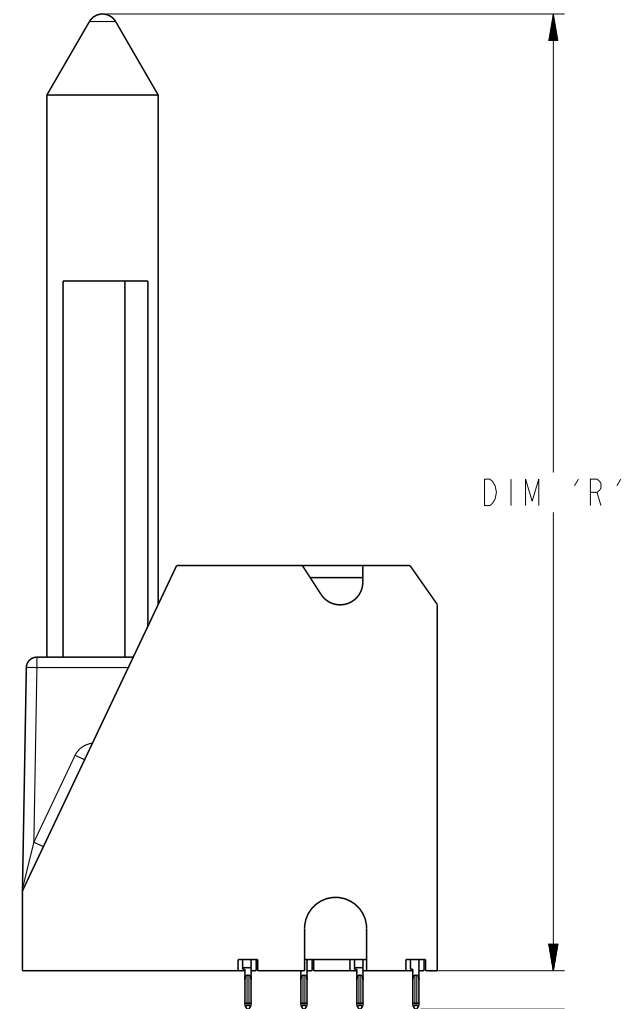
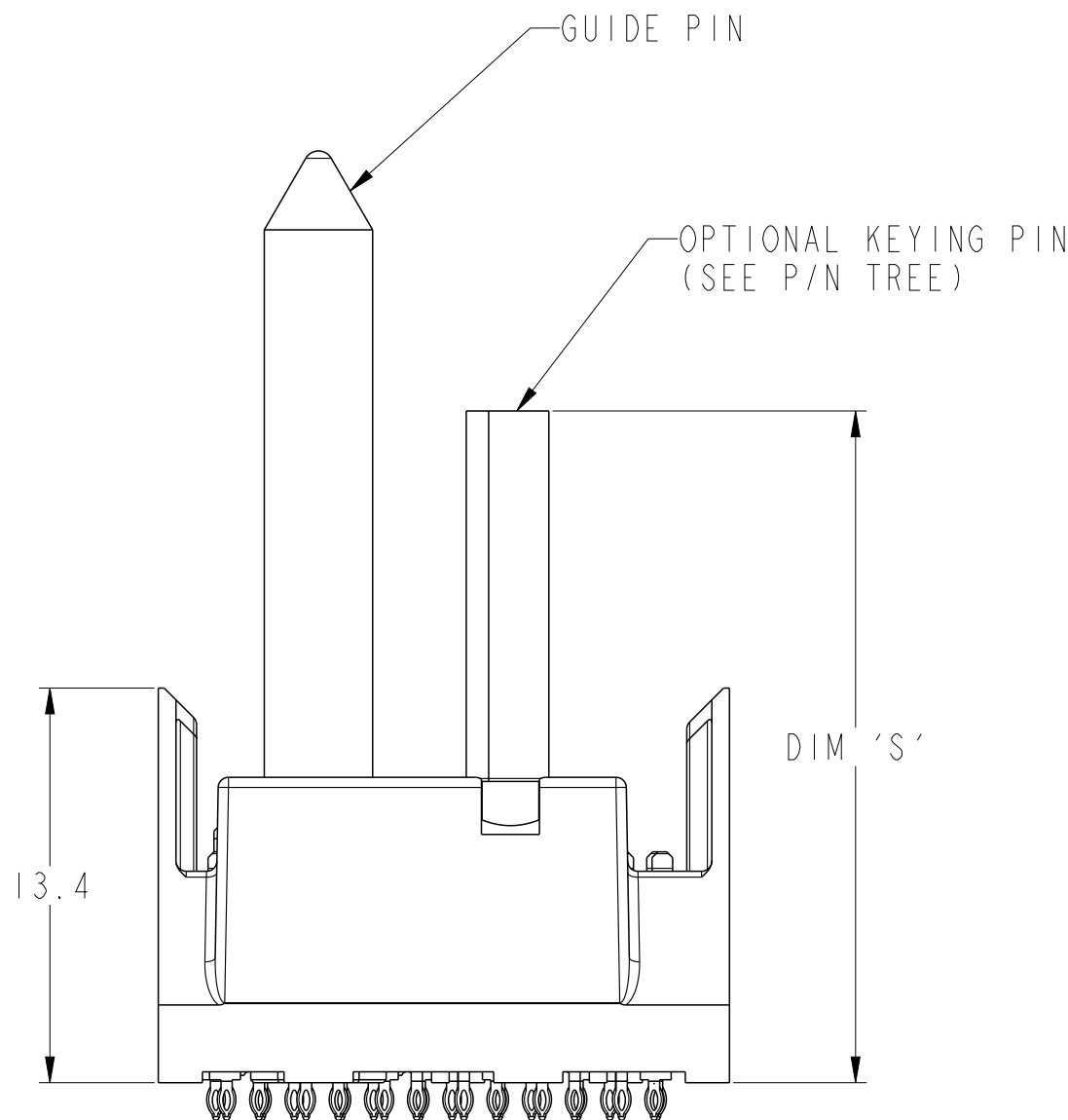
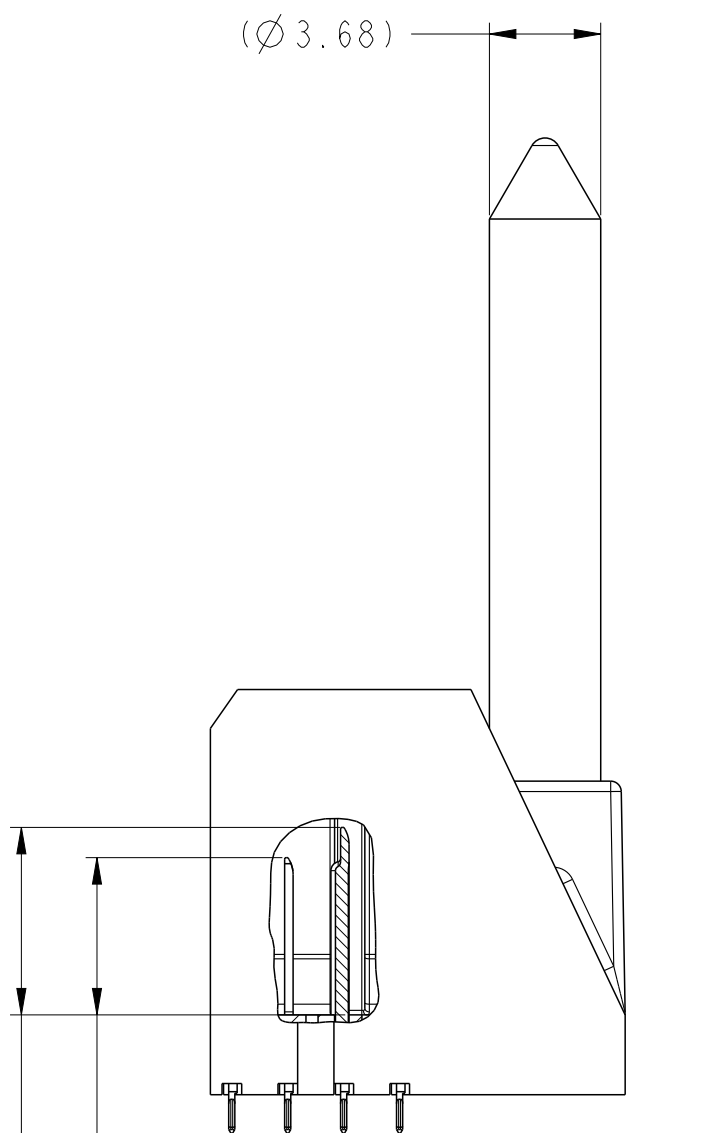
SEE NOTE 8



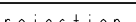
SEE NOTE 5



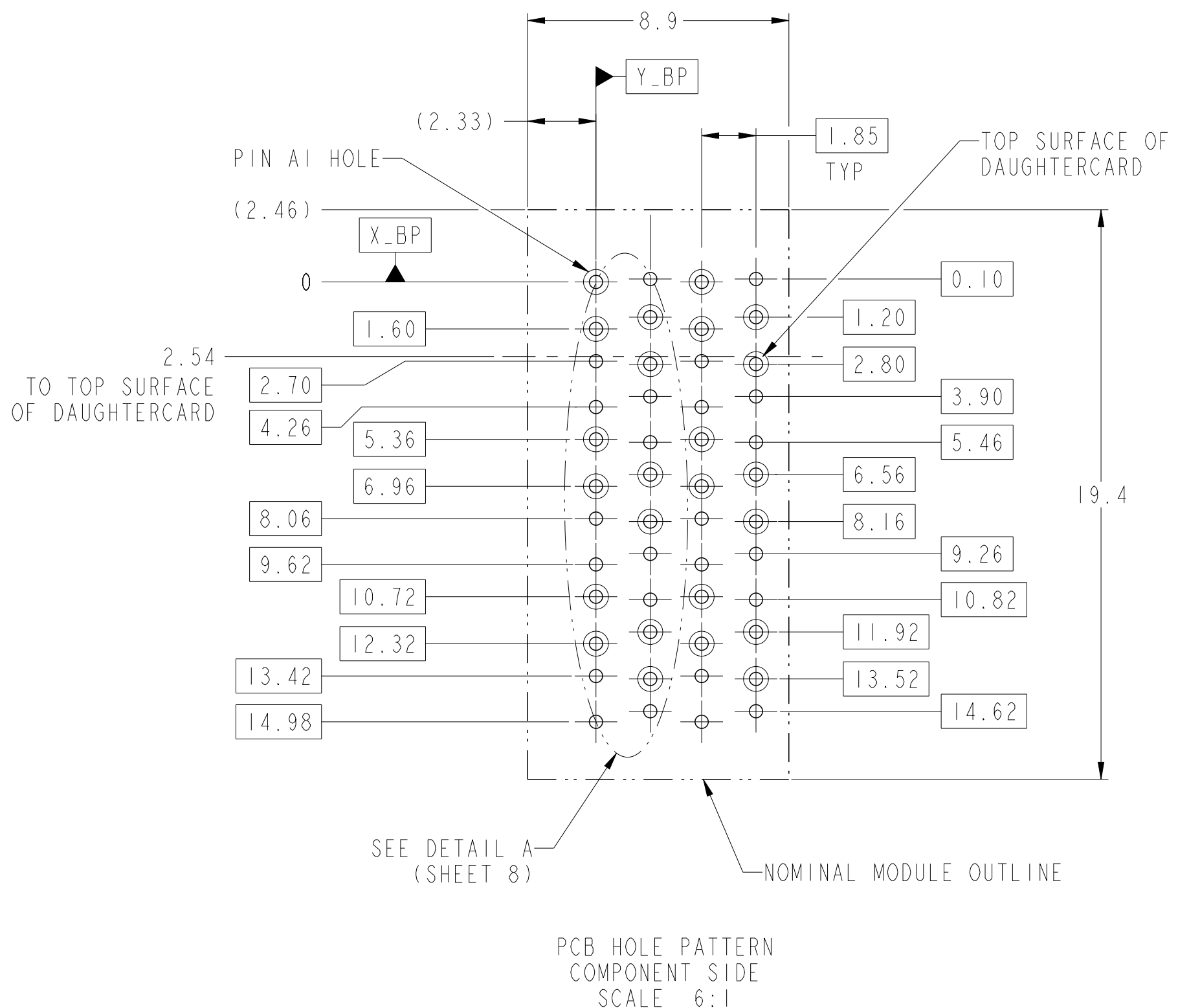
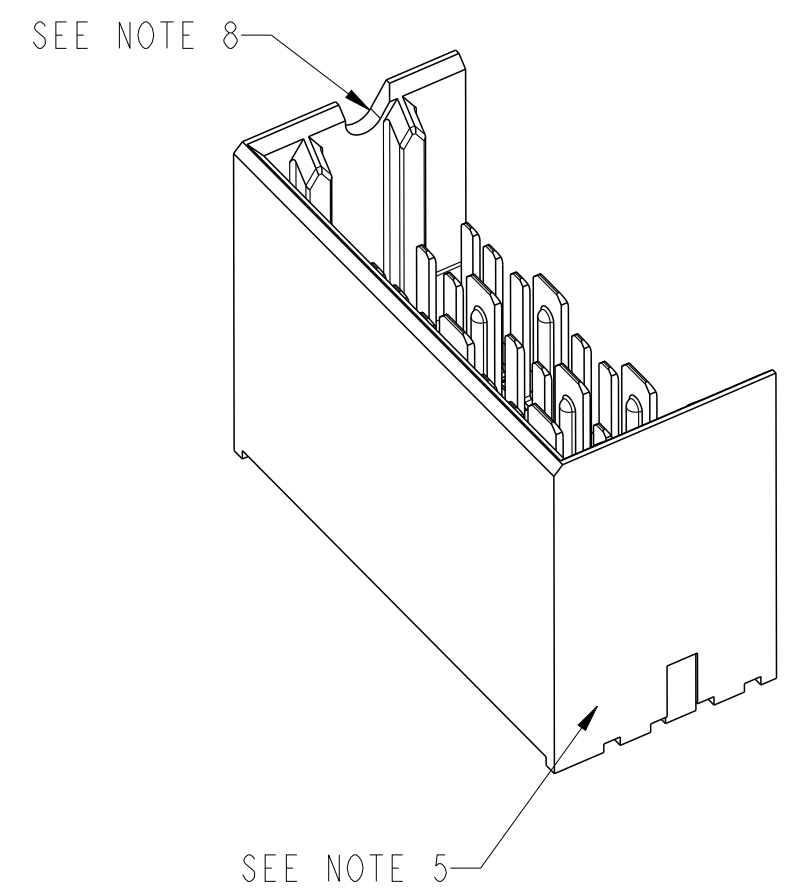
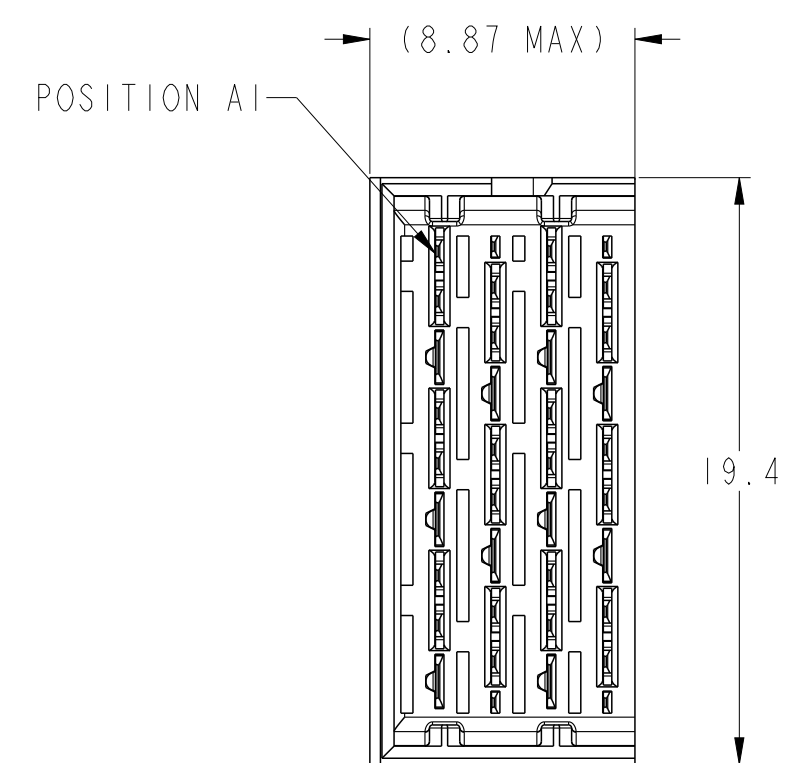
$\varnothing 2.55$	$\varnothing 2.35$	$\varnothing 0.1$	X_BP	Y_BP
SEE NOTE 11 & TABLE 1				



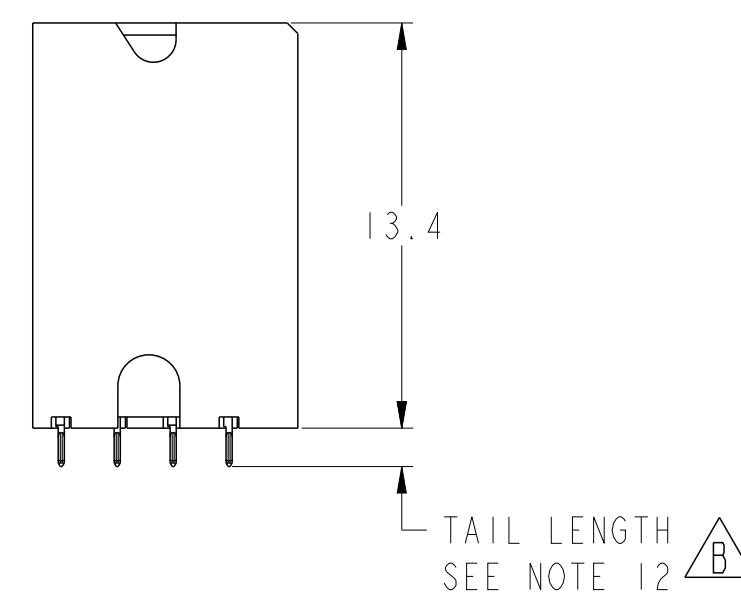
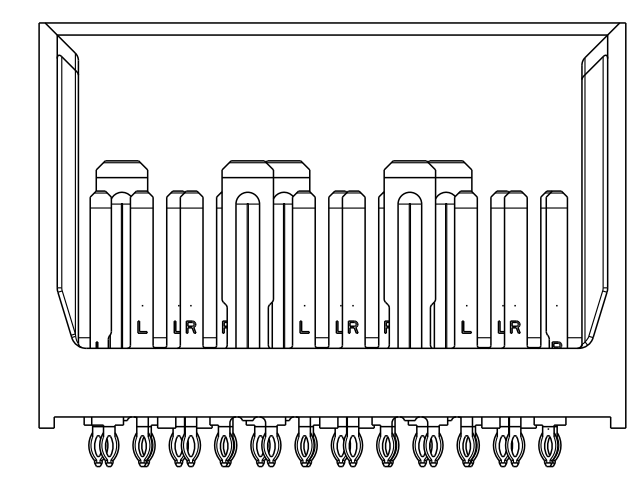
ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

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	-	-	product family	XCED	rel level			Released
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		appr	Chen-Hong Tan	2014/12/10						
surface 	linear	0.X	±0.2		title			MODULE ASSEMBLY	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 4 of 8	

LEFT WALL MODULE

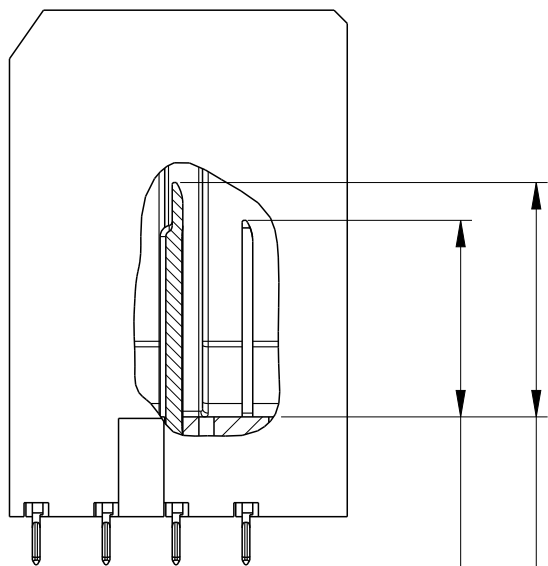
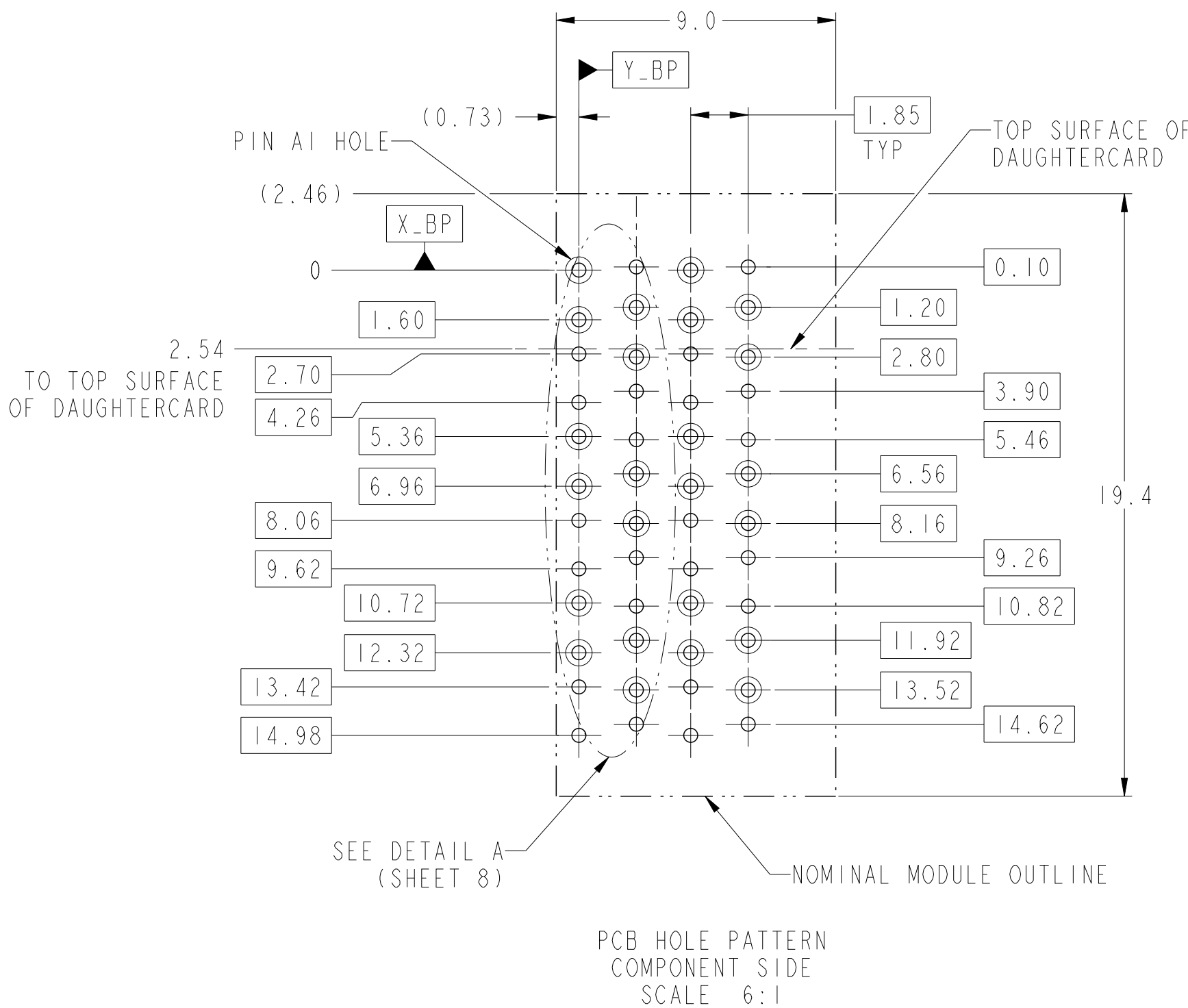
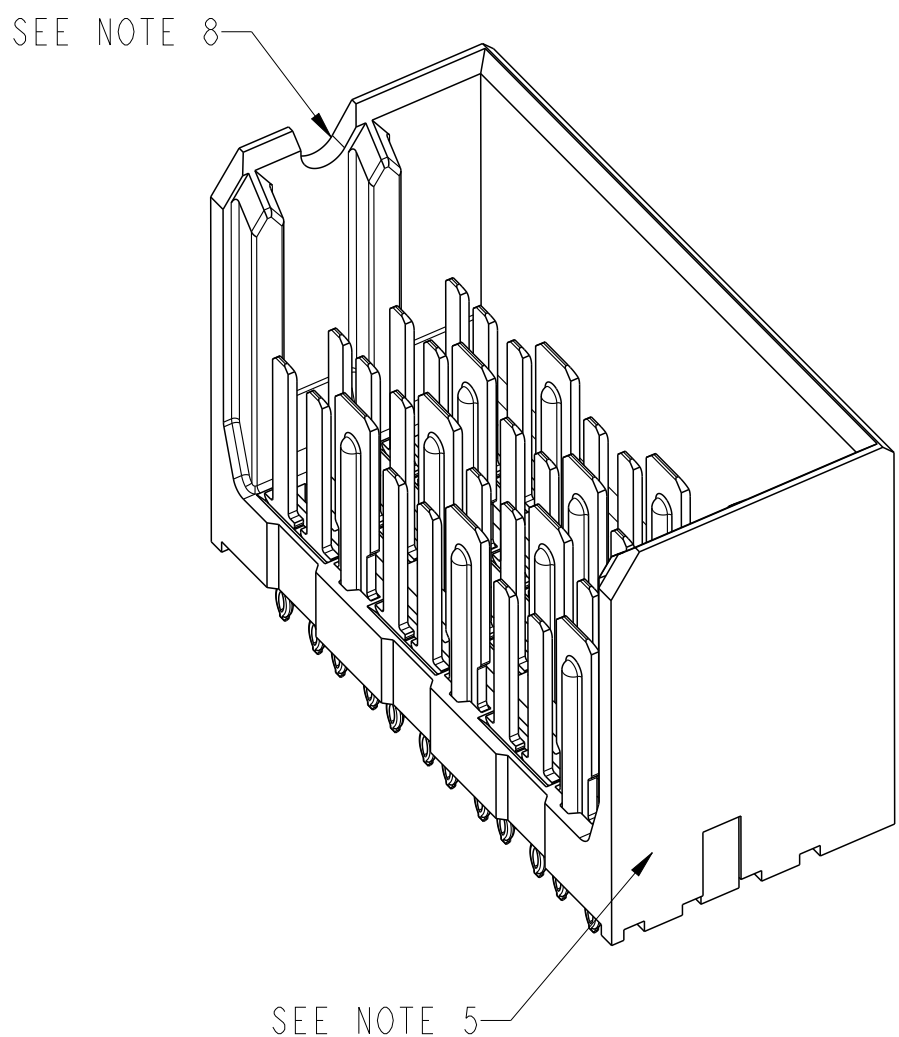
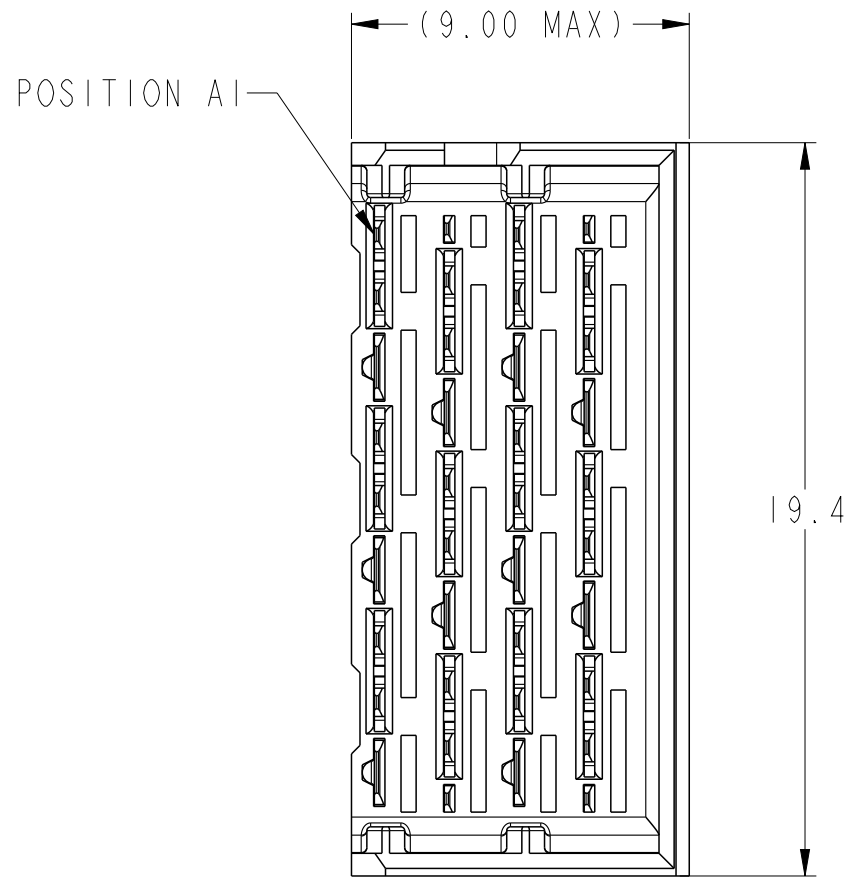


- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE
- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)



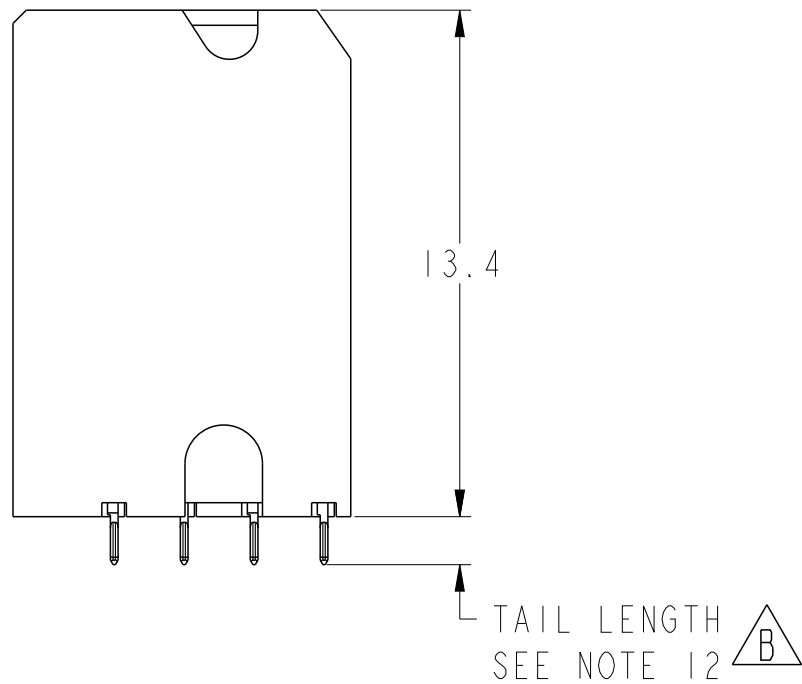
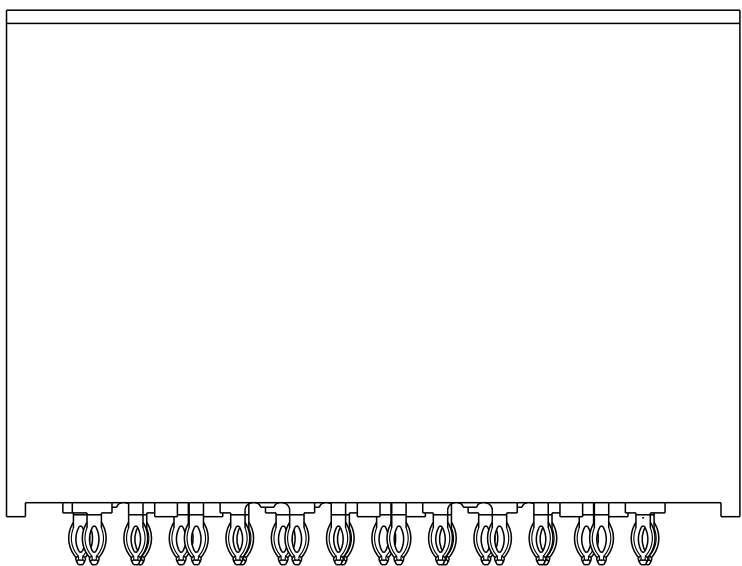
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tolerance std	-	eng	Sandar Soe	2014/10/02		←	ecn no	ELX-S-18843-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-						
		appr	Chen-Hong Tan	2014/12/10						
surface	✓	linear	0.X	±0.2		title	MODULE ASSEMBLY	dwg no	10119187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

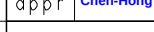
RIGHT WALL MODULE



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)



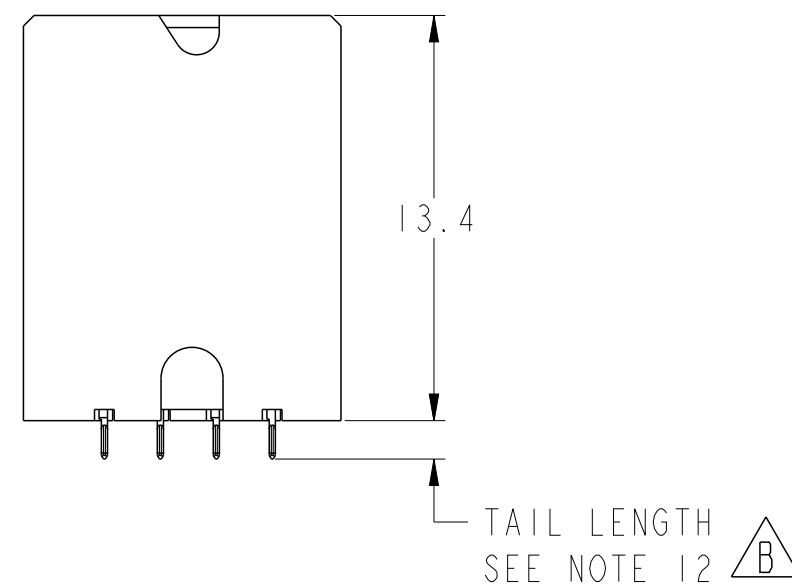
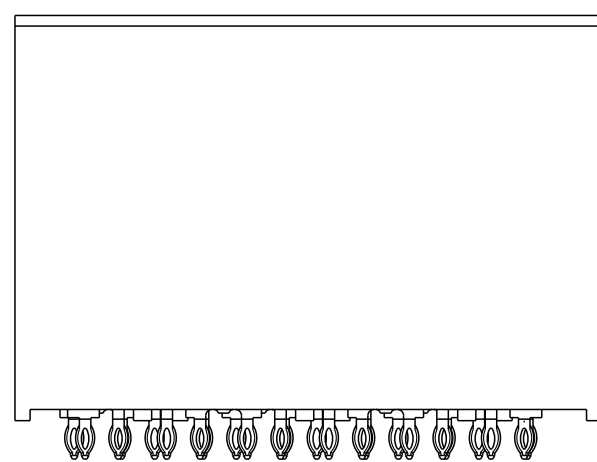
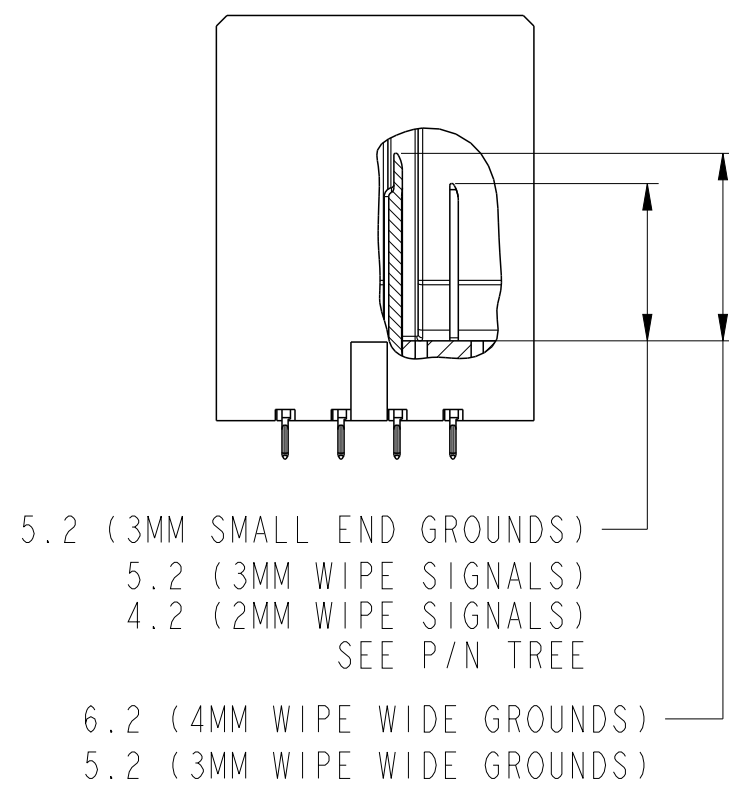
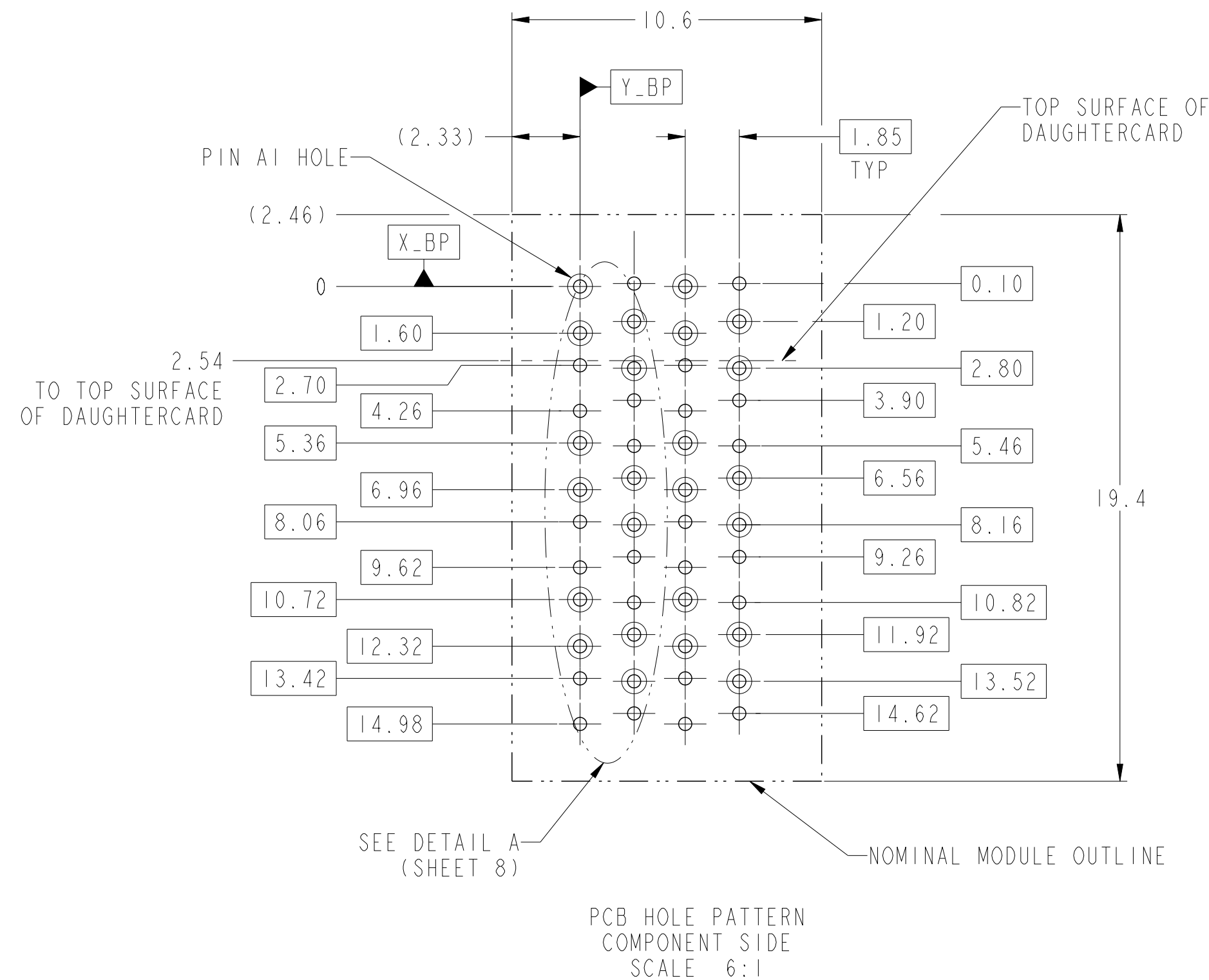
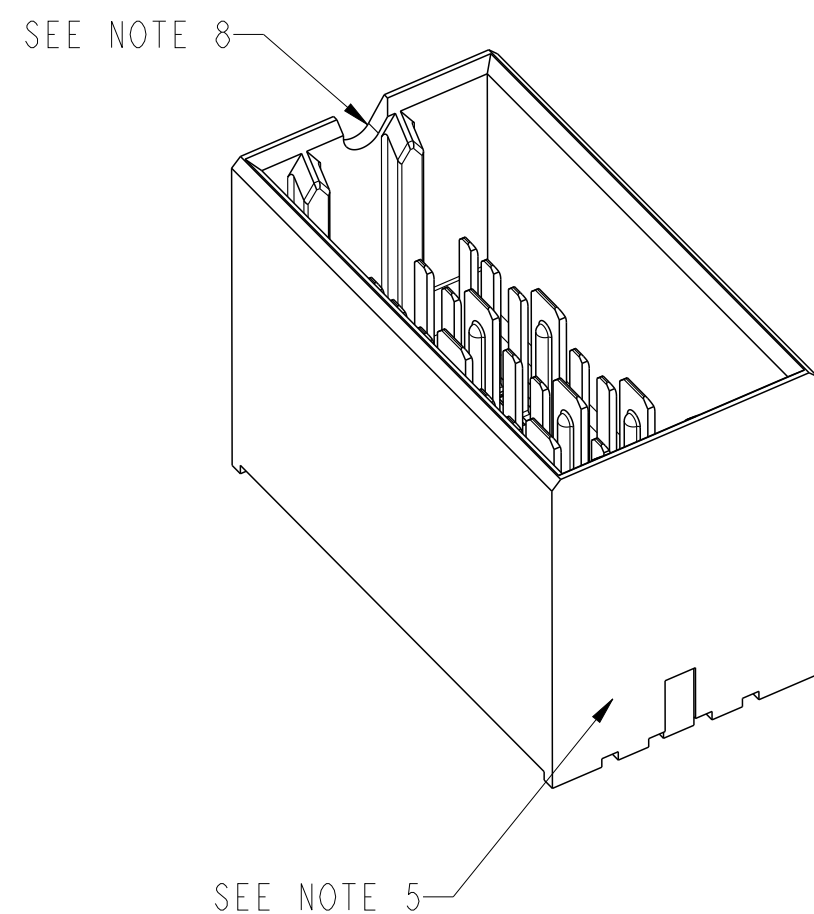
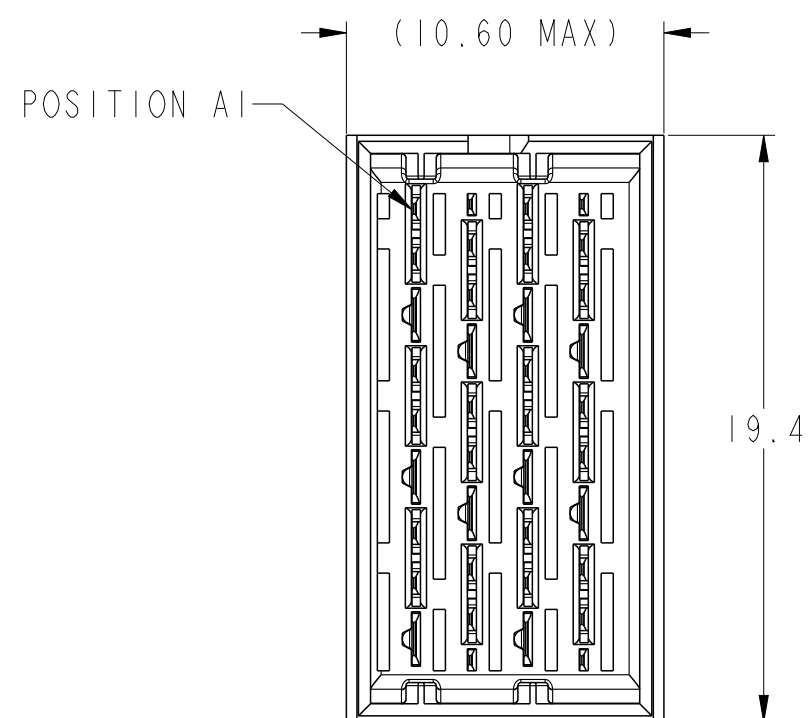
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tolerance std		-		eng	Sandar Soe	2014/10/02					ecn no	ELX-S-18843-1			
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	-	product family		XCEDE		rel level		Released		
appr		Chen-Hong Tan		2014/12/10											
surface		linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR				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 6 of 8			

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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		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									
surface		✓		linear		0.X		±0.2		0.XX		±0.10		0.XXX		±0.050		angular		0°		±2°	
ASME Y14.5				FCI		MODULE ASSEMBLY		VERTICAL HEADER 4 COLUMN, 3 PAIR		dwg no		10119187		rev		B							
				www.fci.com		cat. no.		-		Product - Customer Drw		sheet 7 of 8											

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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

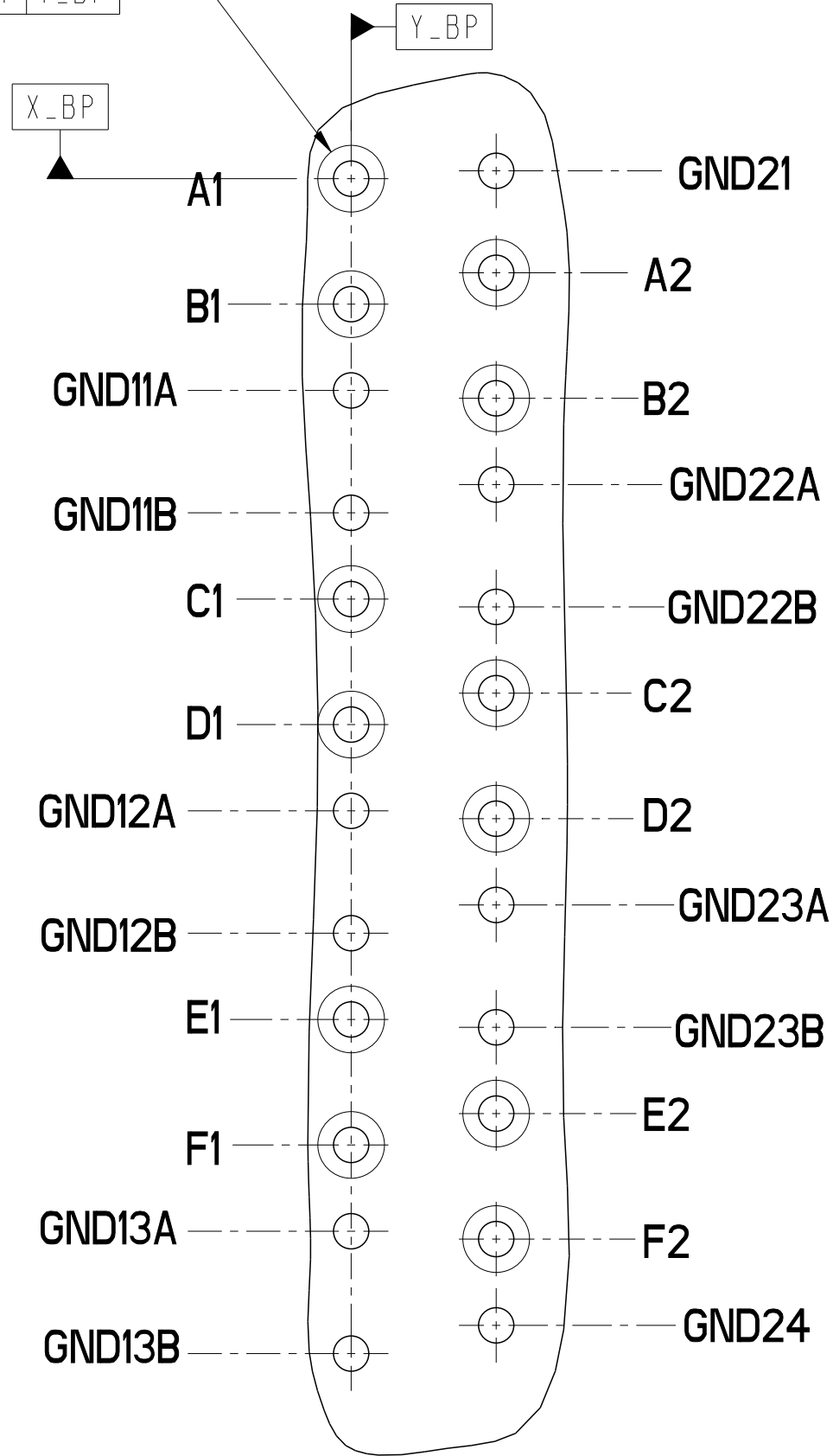
 SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

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			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	-	-				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		