

10119189 - X0C - XXXLF

6-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	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	-	-			Released						
				appr	Chen-Hong Tan	2014/12/10	product family		XCEDE						
surface			linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER, 6 COLUMN, 3 PAIR			dwg no	10119189		rev	B
			0.XX	±0.10											
ASME Y14.5			0.XXX	±0.050											
		angular	0°	±2°	www.fci.com	cat. no.	-	Product- Customer Drw			sheet 1 of 8				

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OPEN (2- WALL) MODULE

A

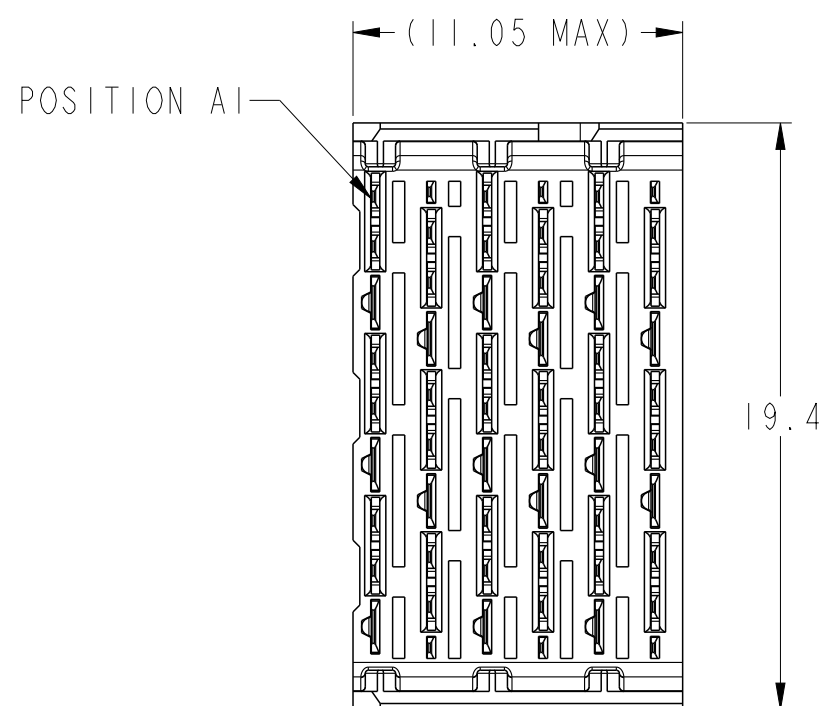
B

C

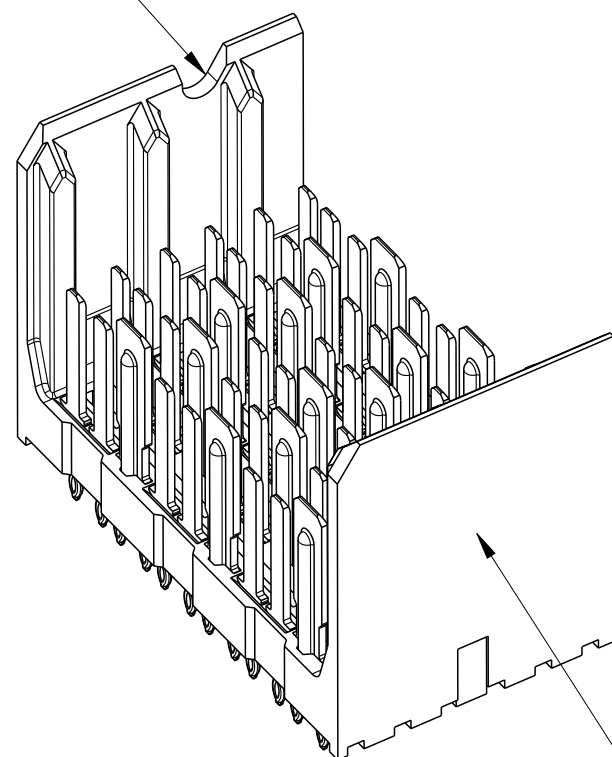
D

E

F

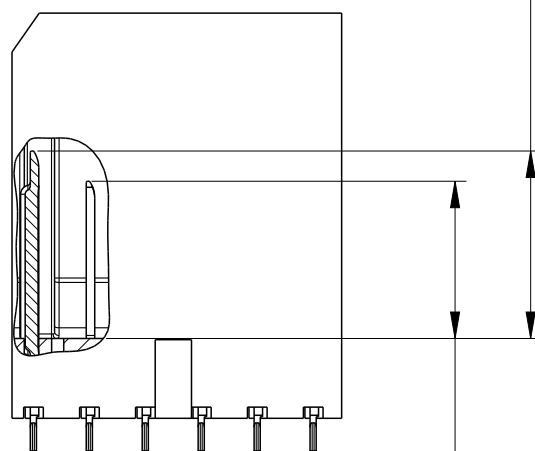


SEE NOTE 8

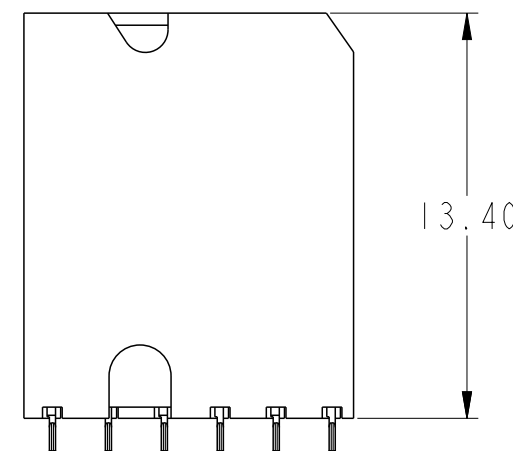
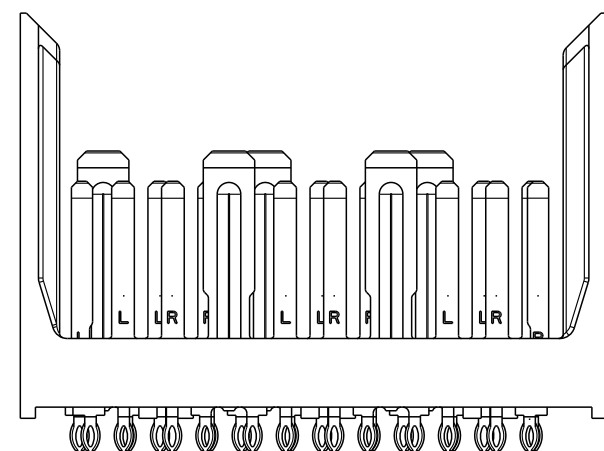


SEE NOTE 5

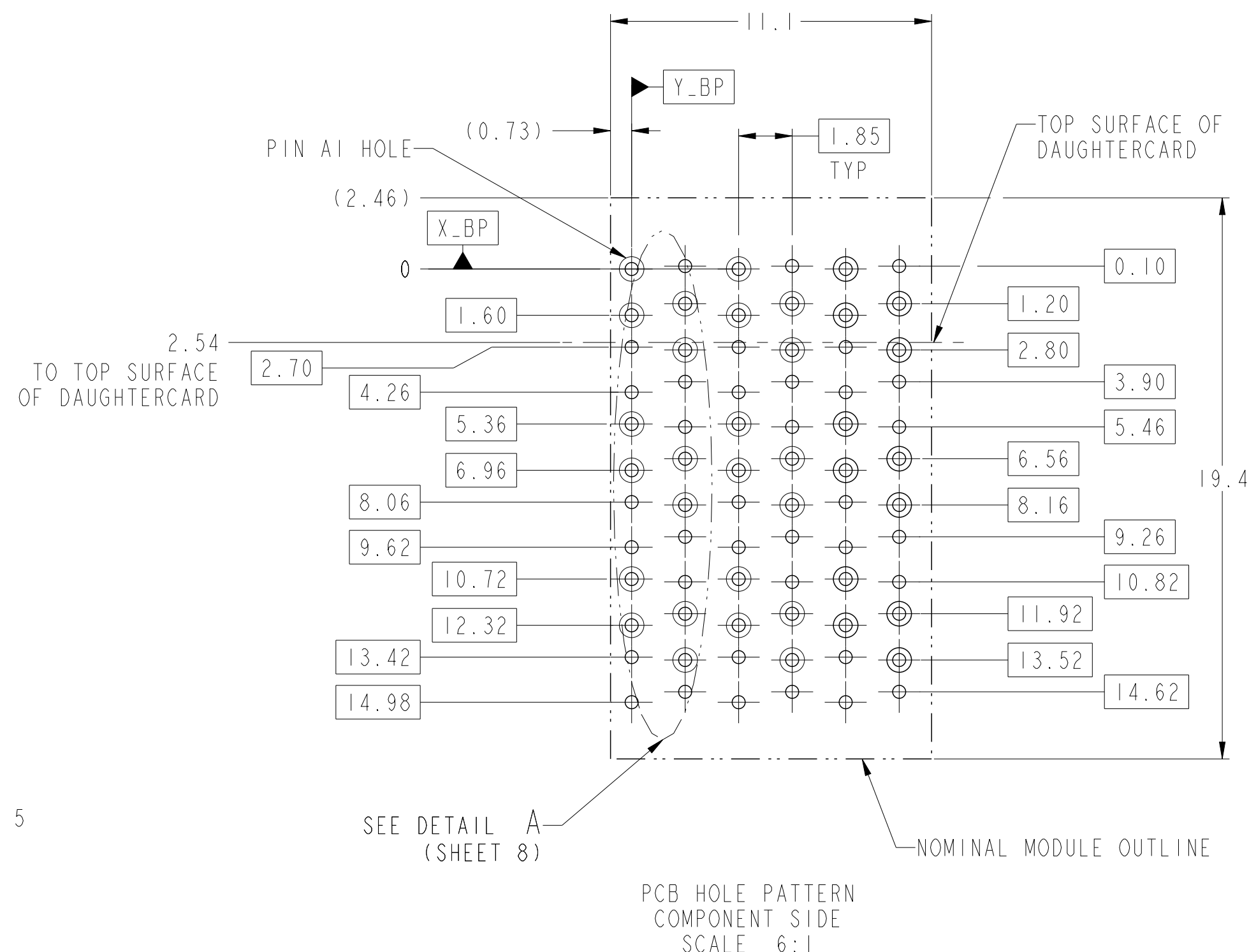
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)



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



TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

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°	±2°
ASME Y14.5	www.fci.com	cat. no.	-	Product	-	Customer Drw	sheet 2 of 8			

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A

B

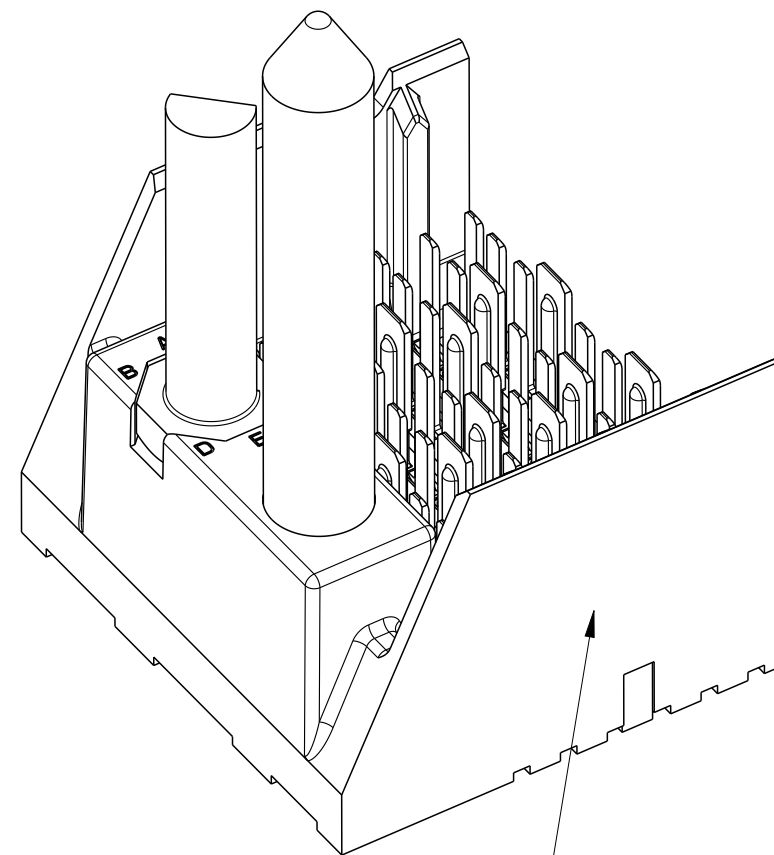
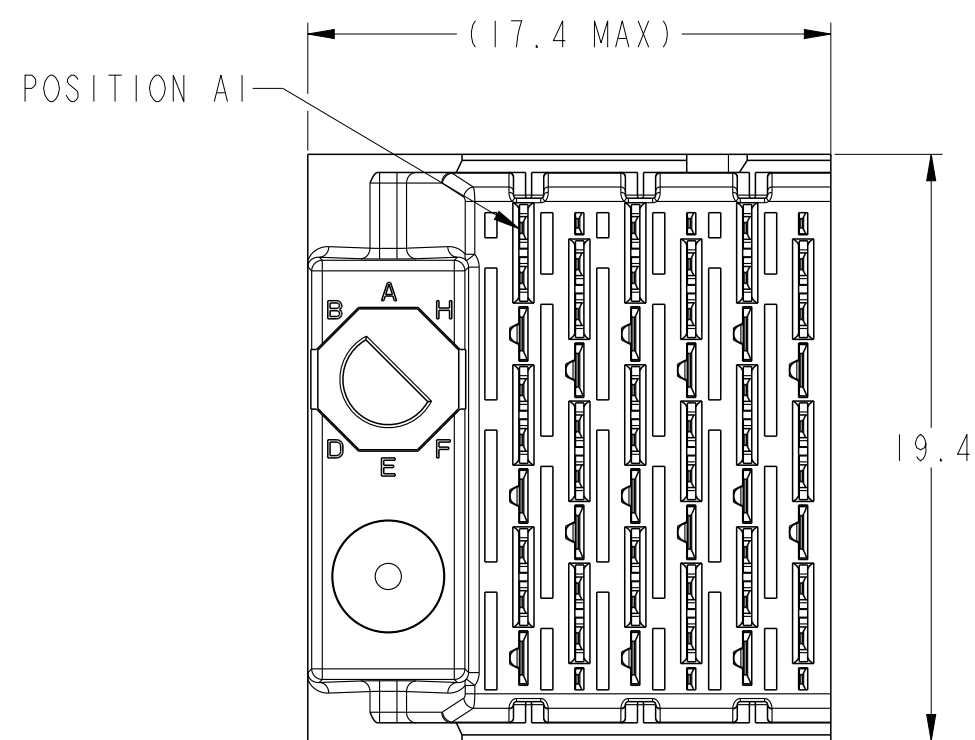
C

D

E

F

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

9.62

10.72

11.495

12.32

13.42

14.98

Ø 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

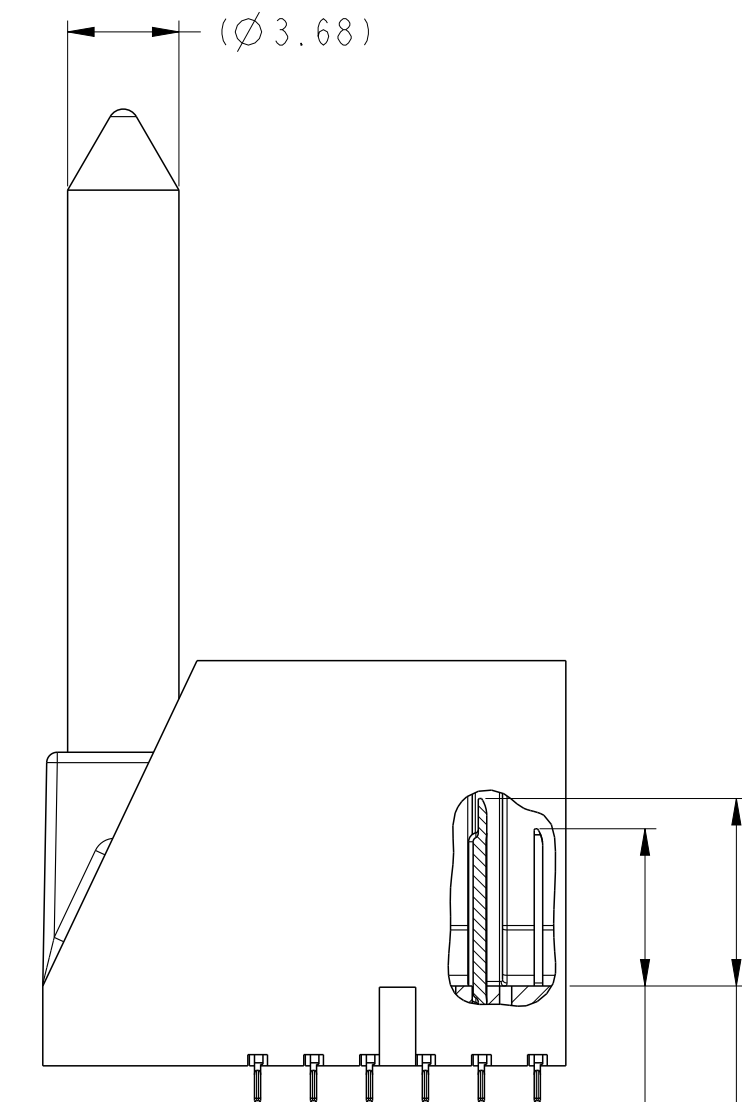
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11.92

13.52

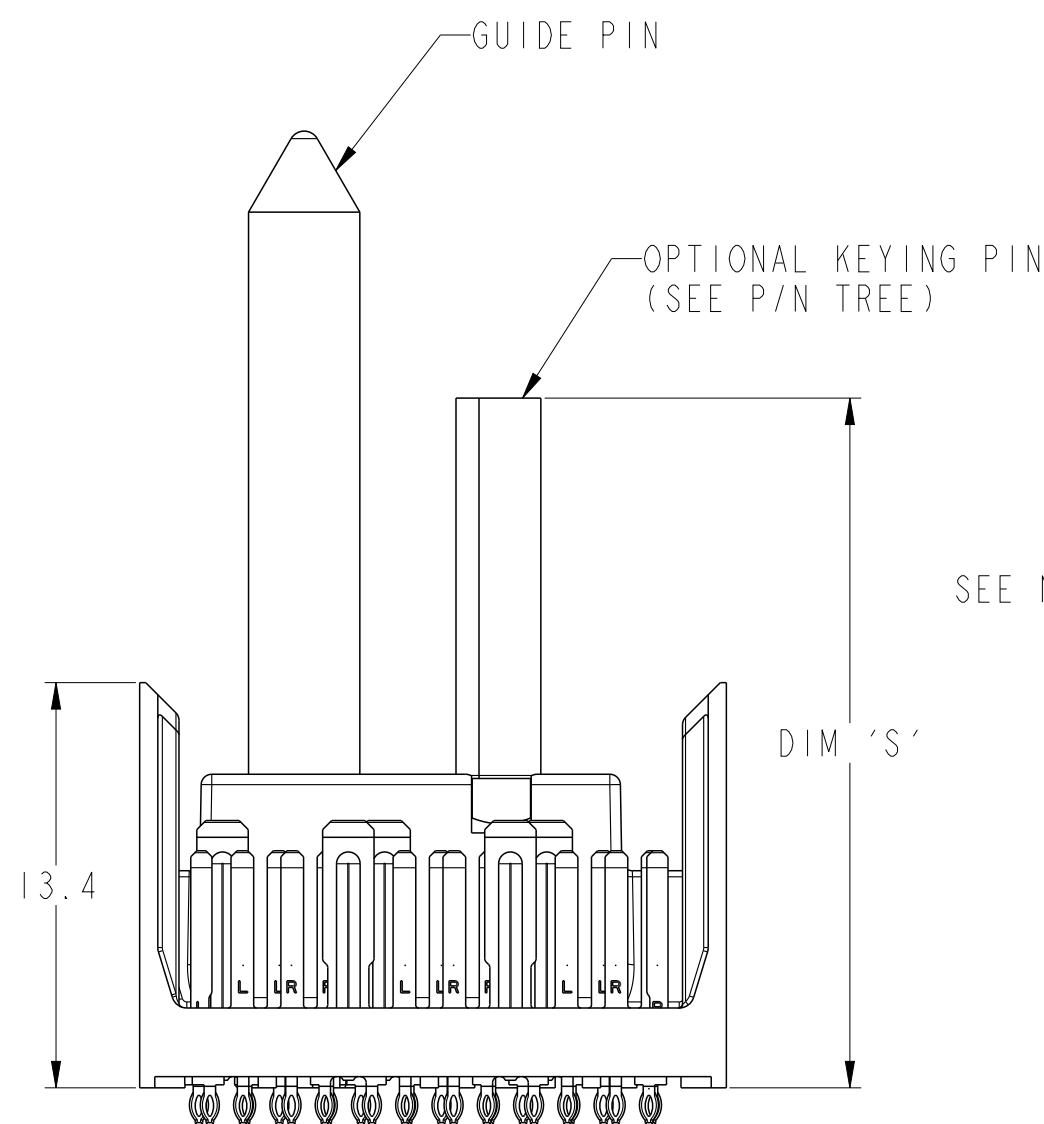
14.62

19.4



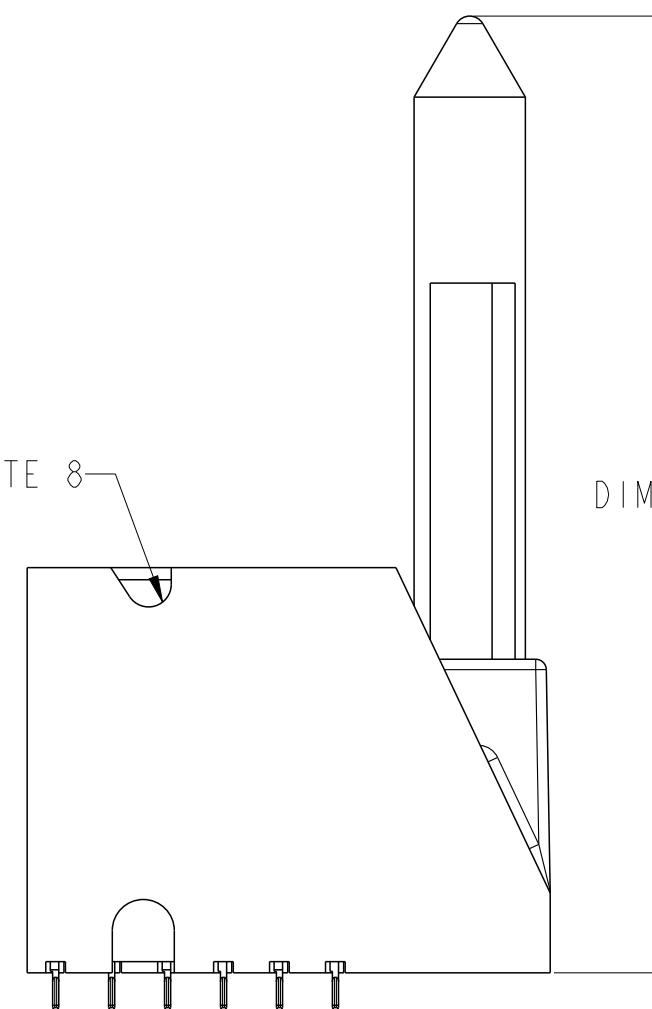
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

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



SEE NOTE 8

DIM 'R'



TAIL LENGTH
SEE NOTE 12

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

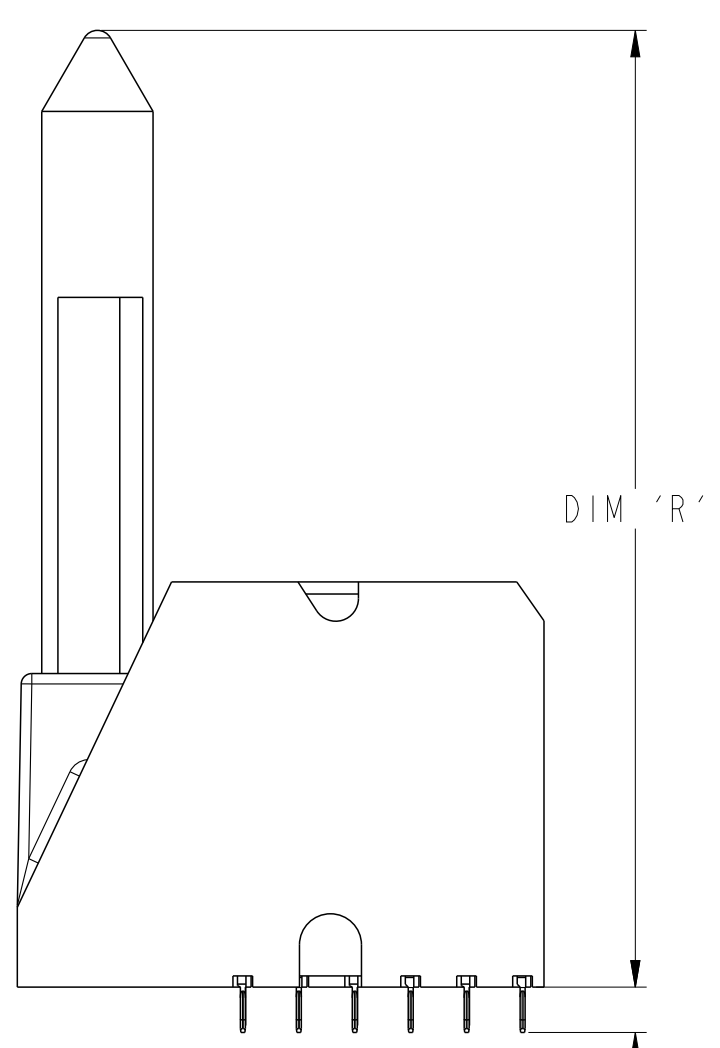
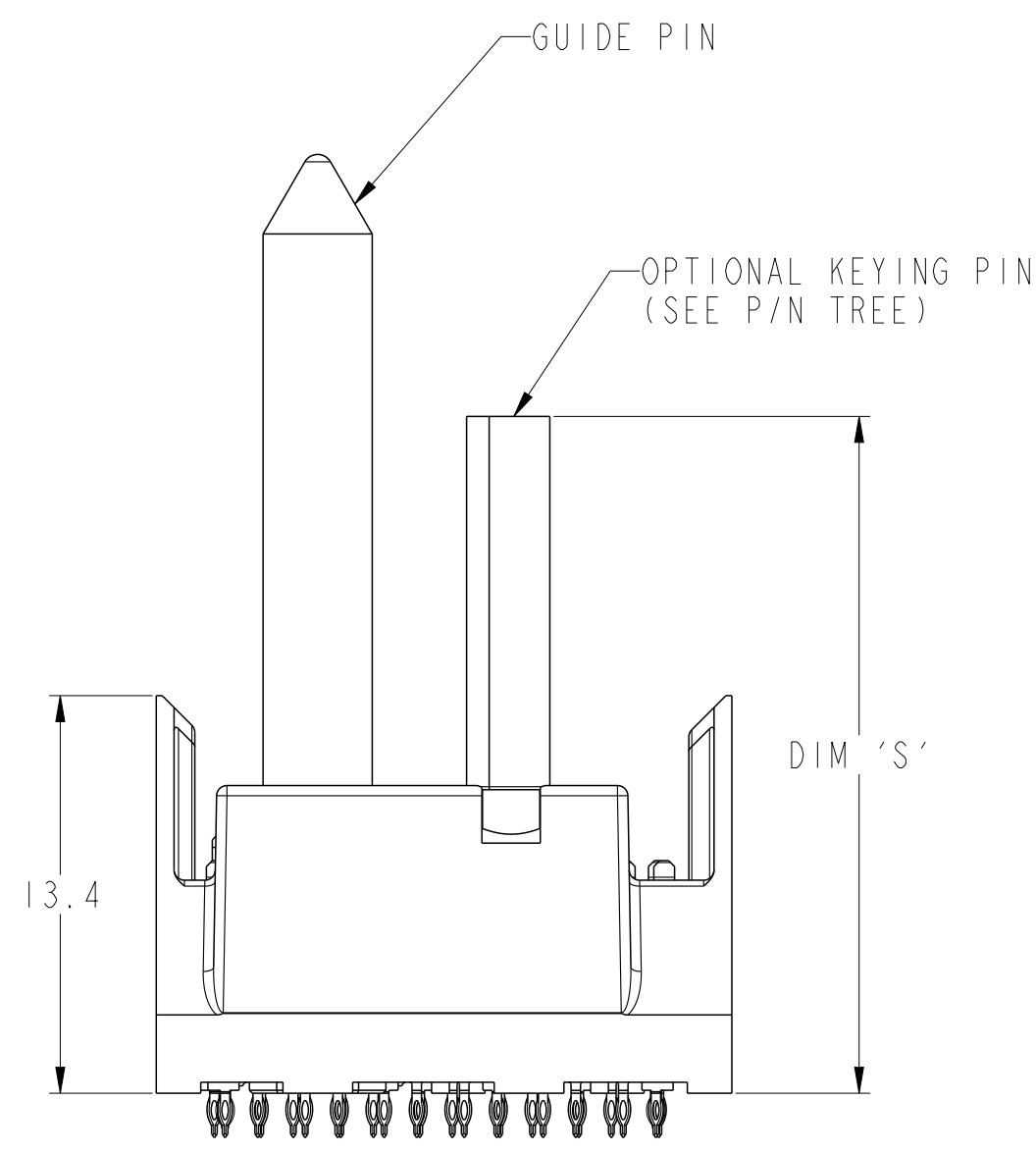
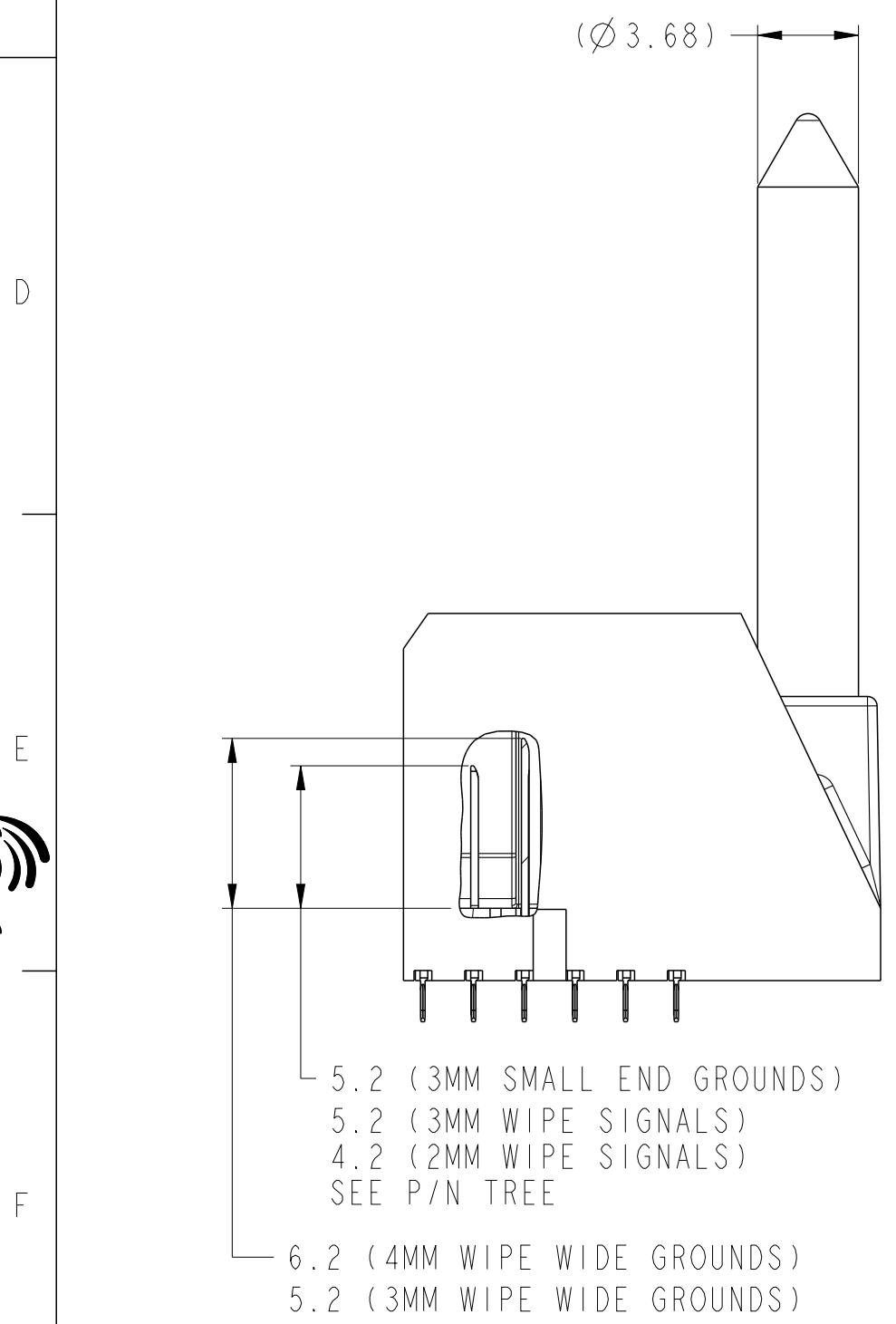
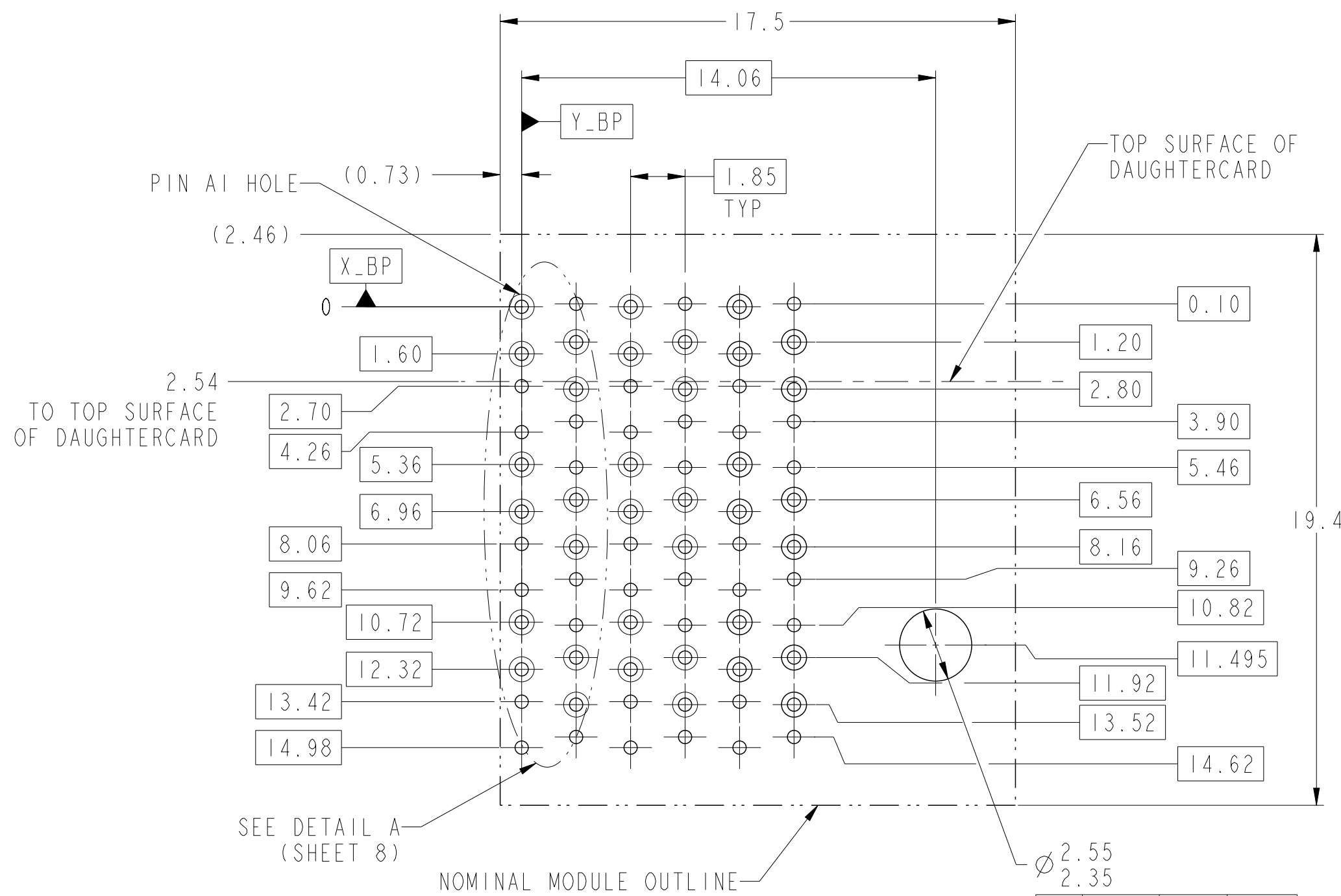
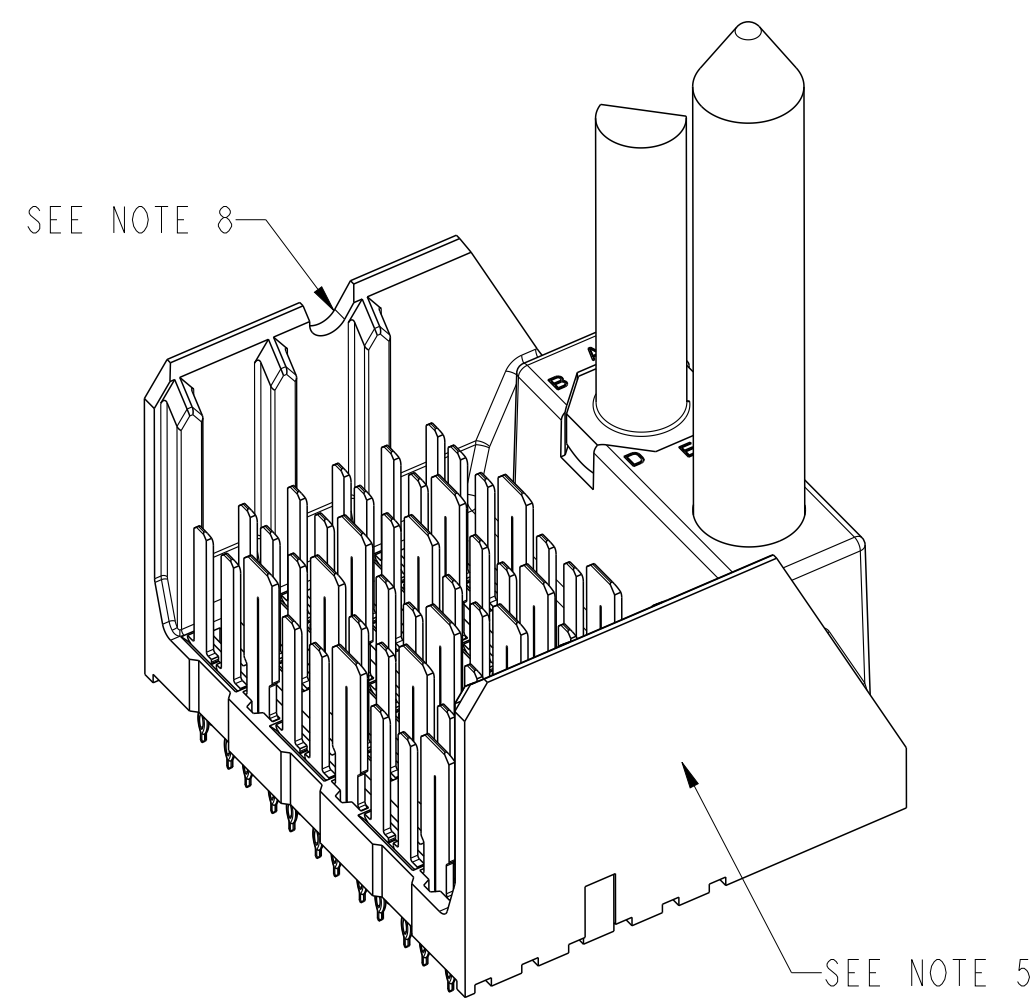
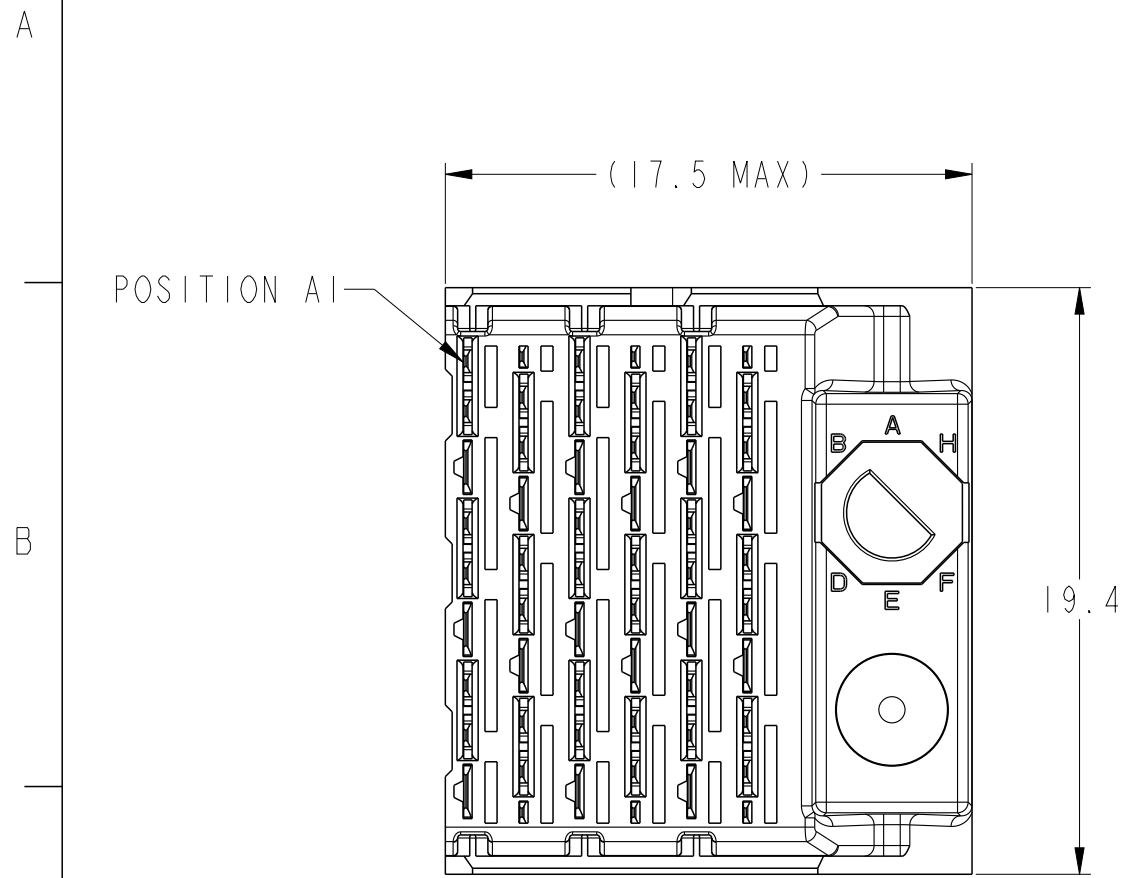
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tolerance std	-	eng	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2014/12/10	product family	XCEDE	rel level	Released	rev	B
surface	linear	0.X	±0.2	0.XX	±0.10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

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RIGHT POLARIZING/GUIDE MODULE

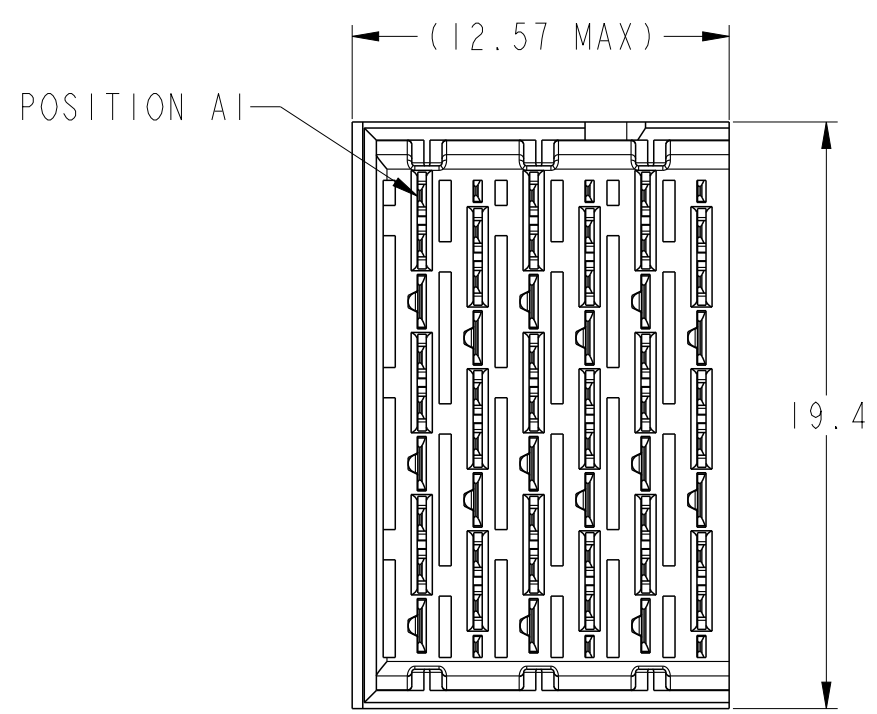


ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

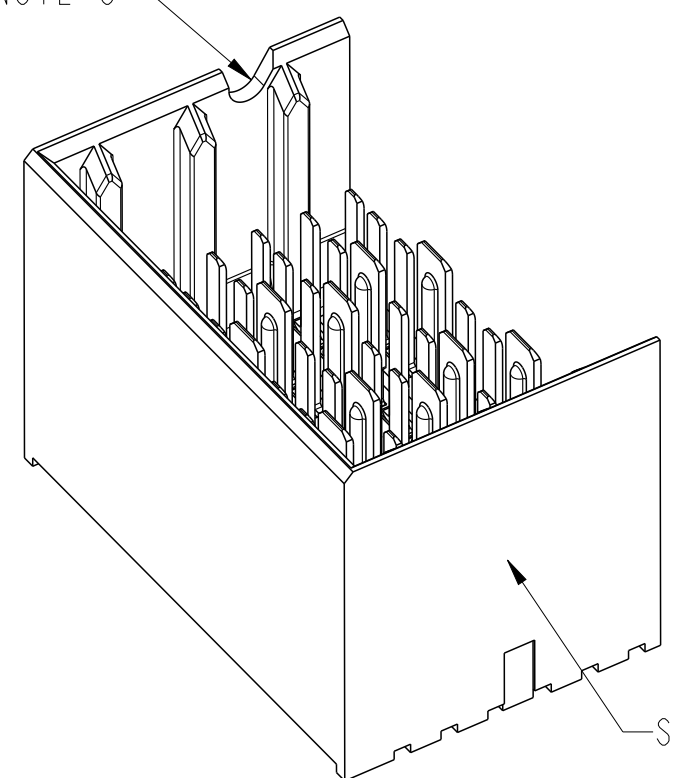
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tolerance std	-	eng	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	appr	Chen-Hong Tan	2014/12/10	product family	XCED	rel level	Released	rev	B
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX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

LEFT WALL MODULE

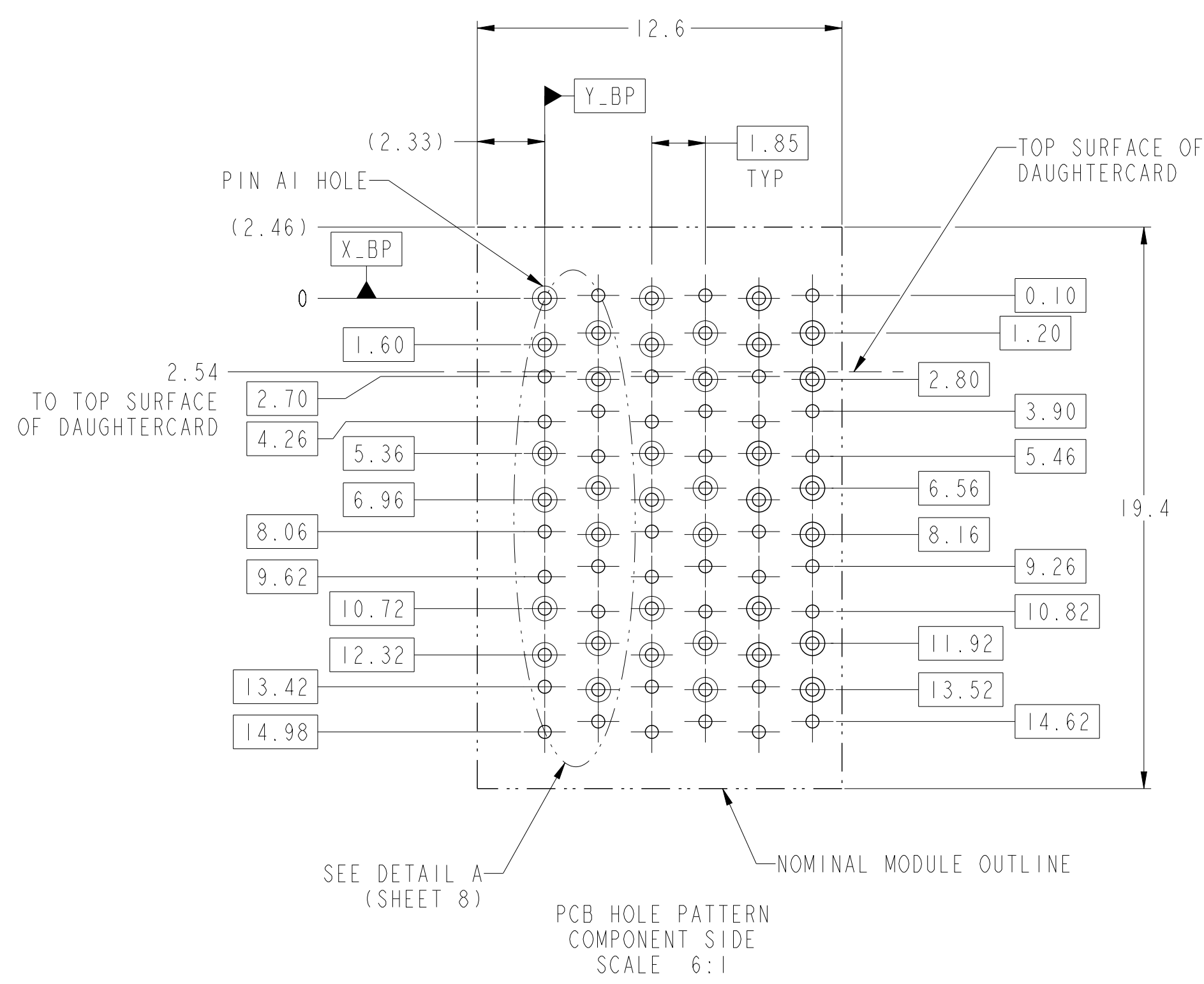
A
B
C
D
E
F



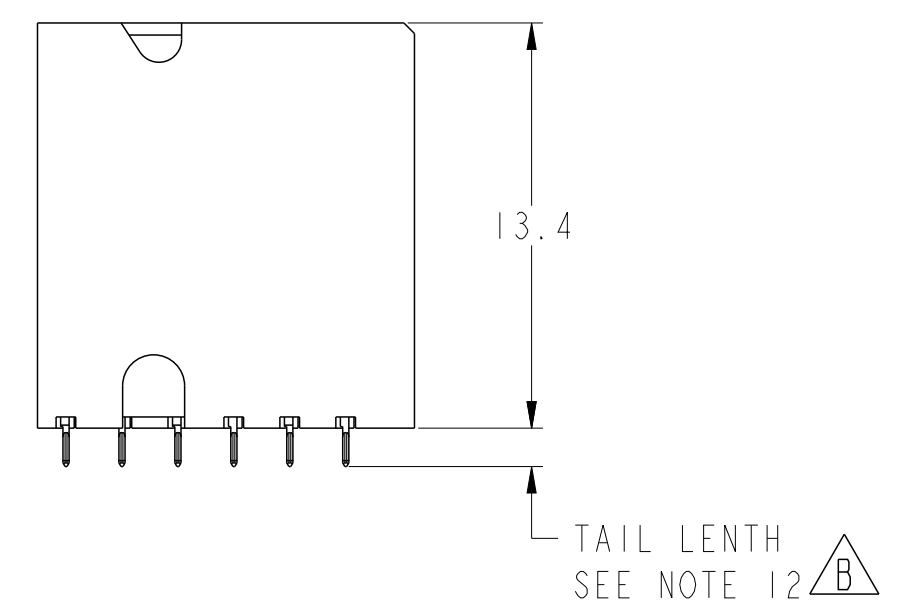
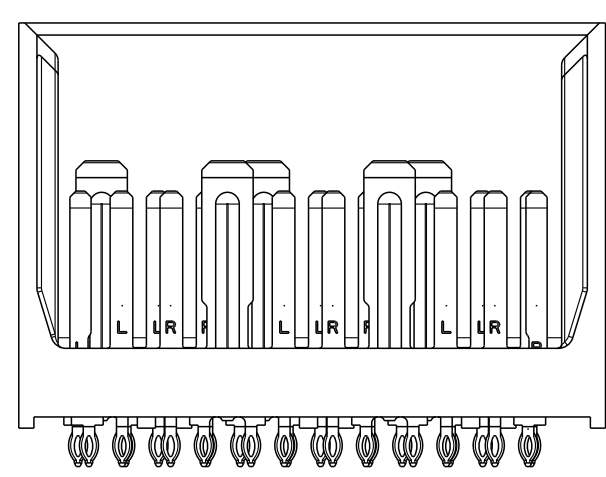
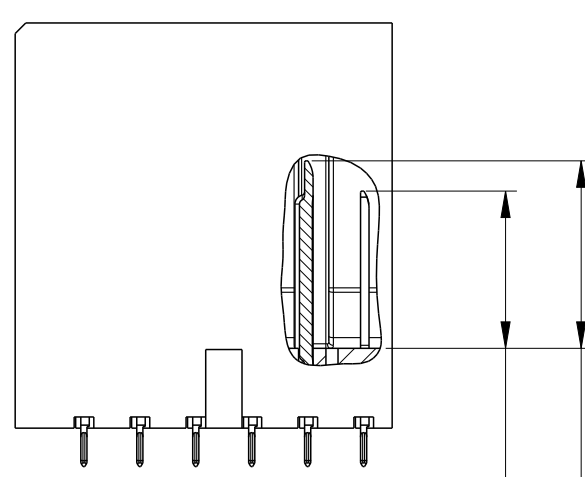
SEE NOTE 8



SEE NOTE 5



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)



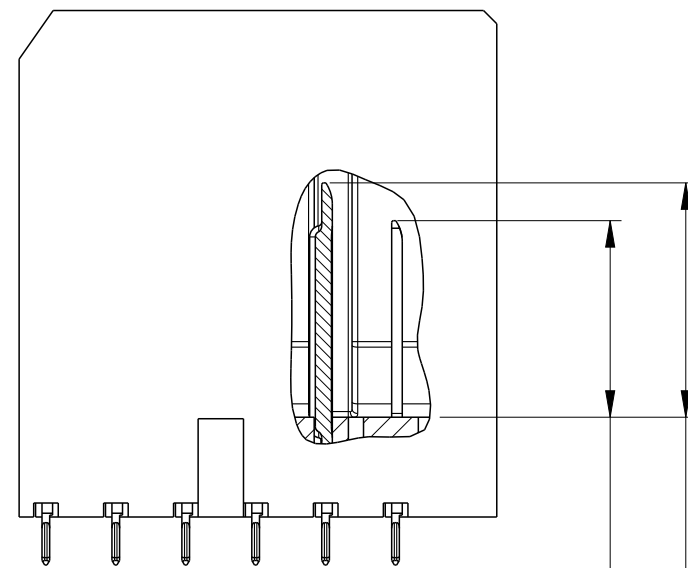
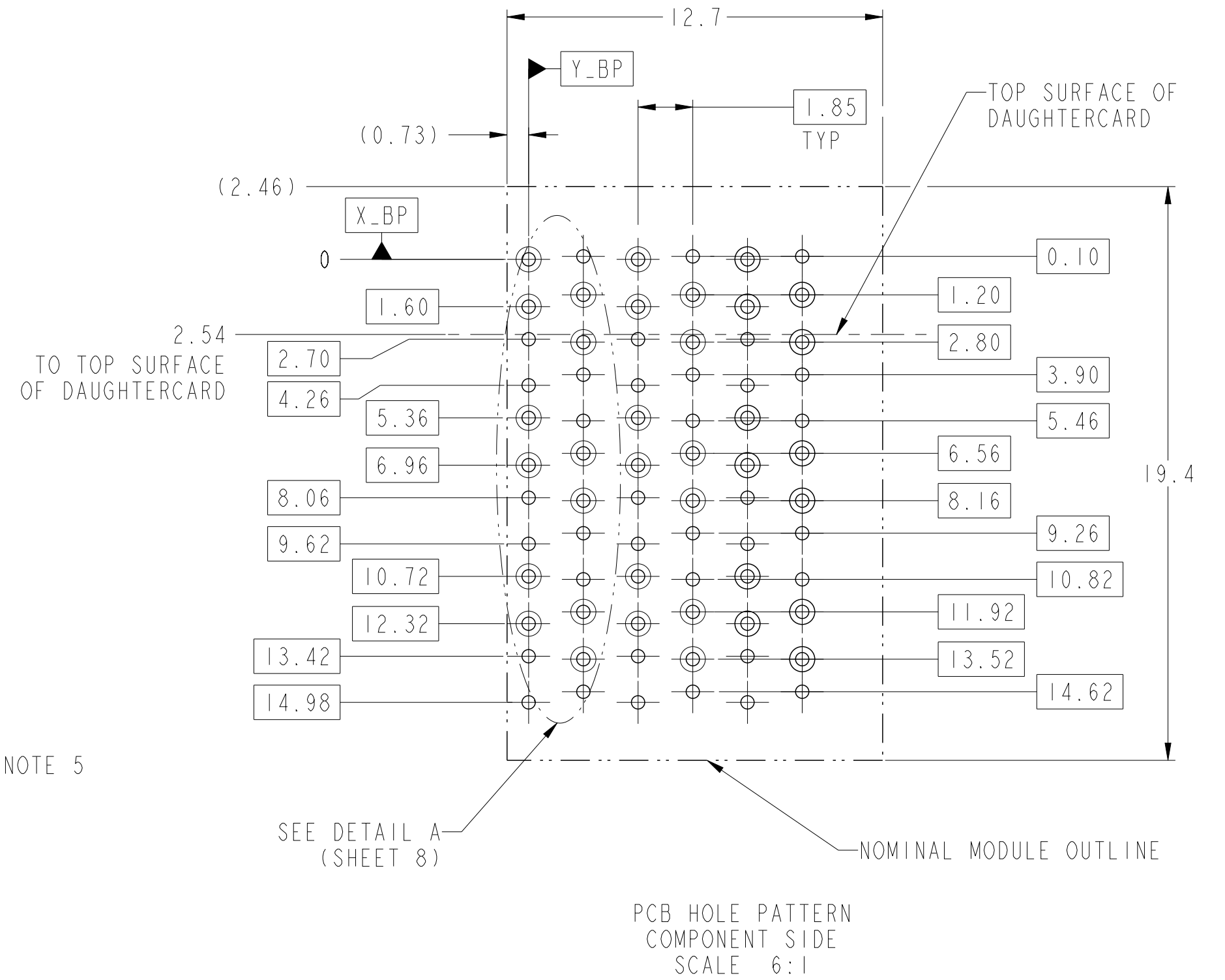
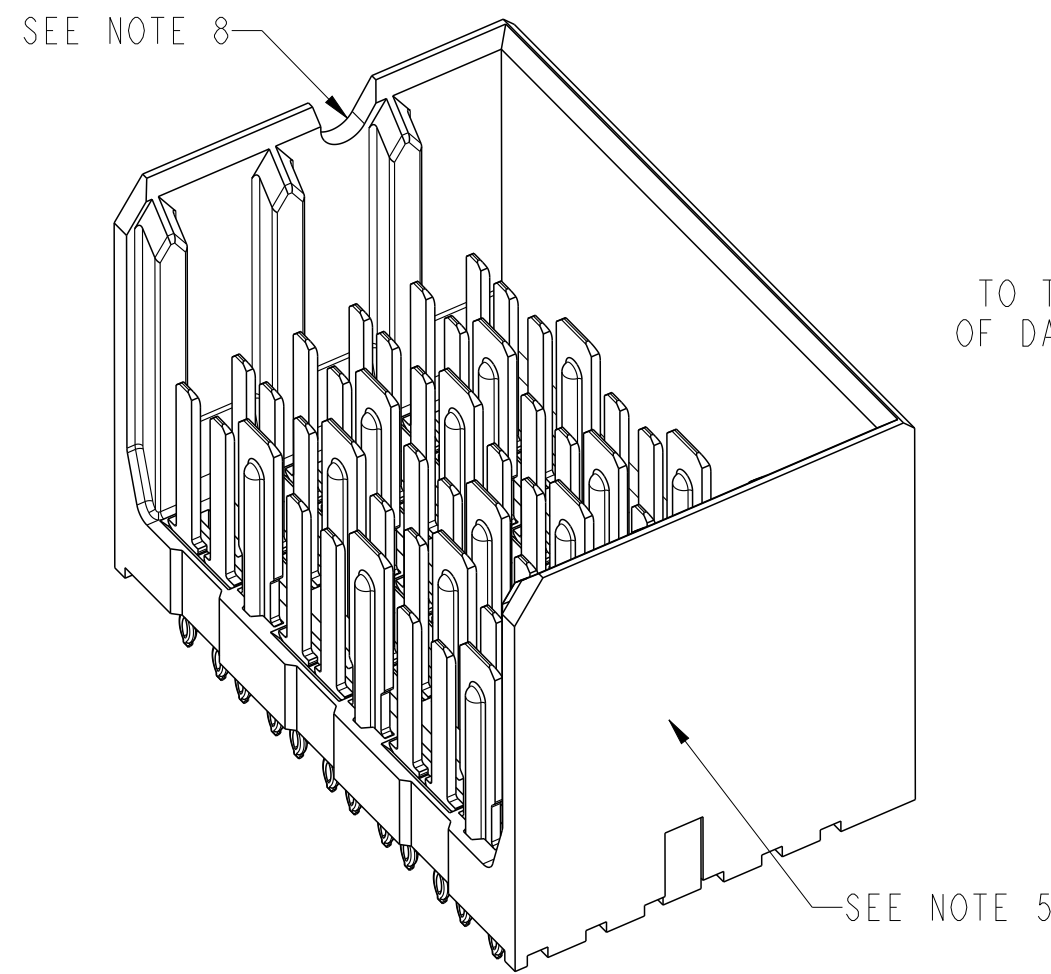
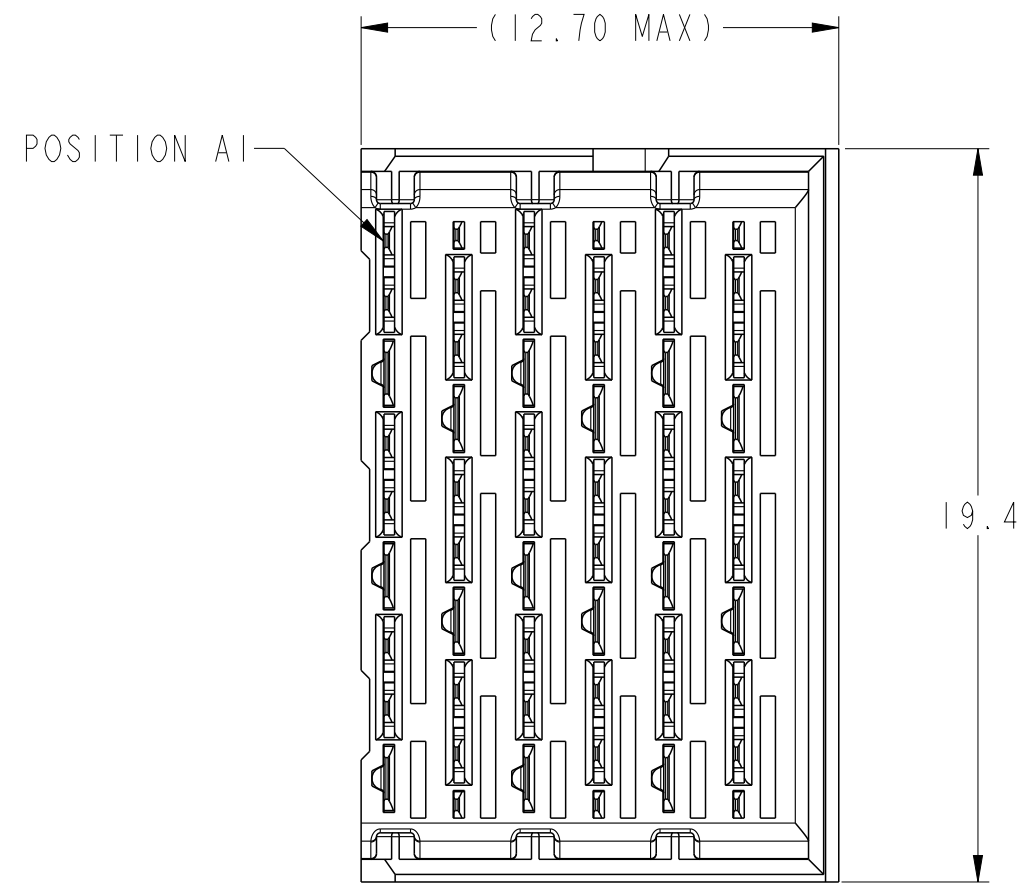
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tolerance std		-		eng		Sandar Soe		2014/10/02						ecn no		ELX-S-18843-1		rel level		Released					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-								ELX-S-18843-1									
				appr		Chen-Hong Tan		2014/12/10								product family				XCEDE					
surface		✓		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10119189		rev		B			
				0.XX		±0.10		0.XXX																±0.050	
ASME Y14.5		angular		0°		±2°		www.fci.com																cat. no.	

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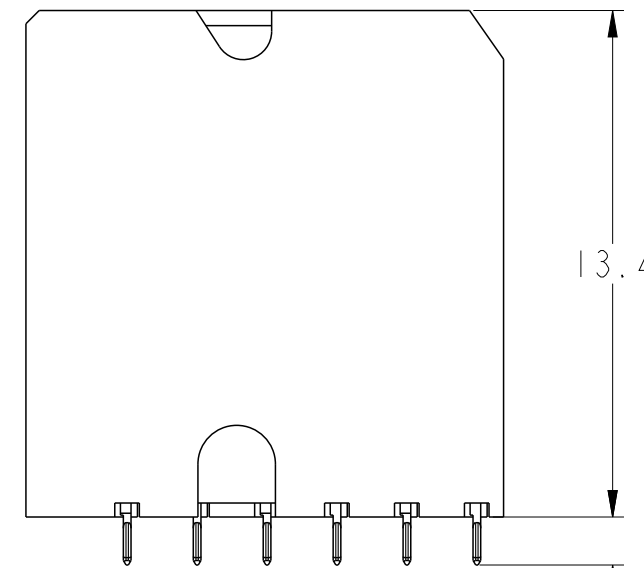
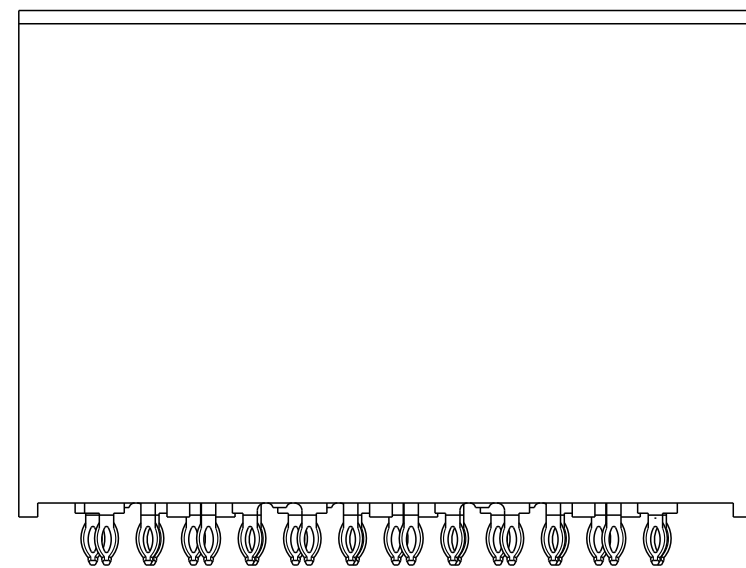
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RIGHT WALL MODULE



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

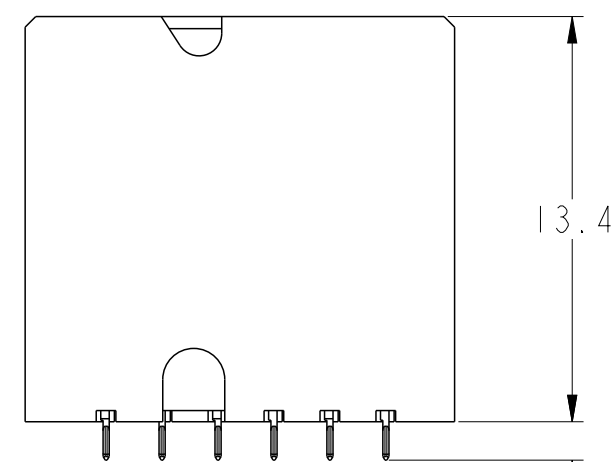
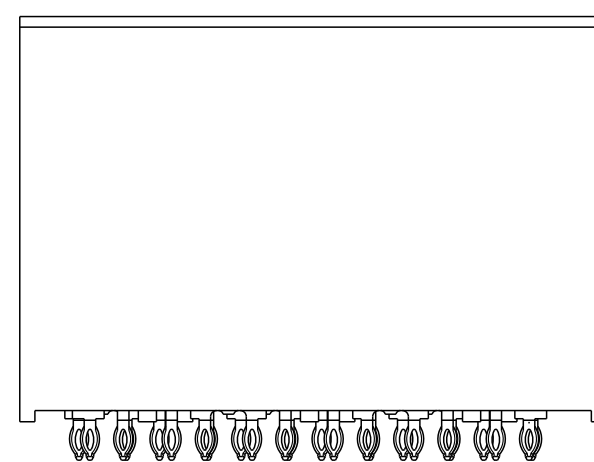
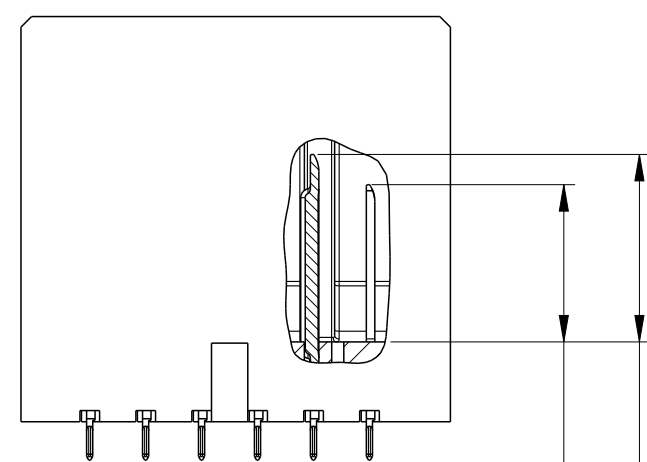
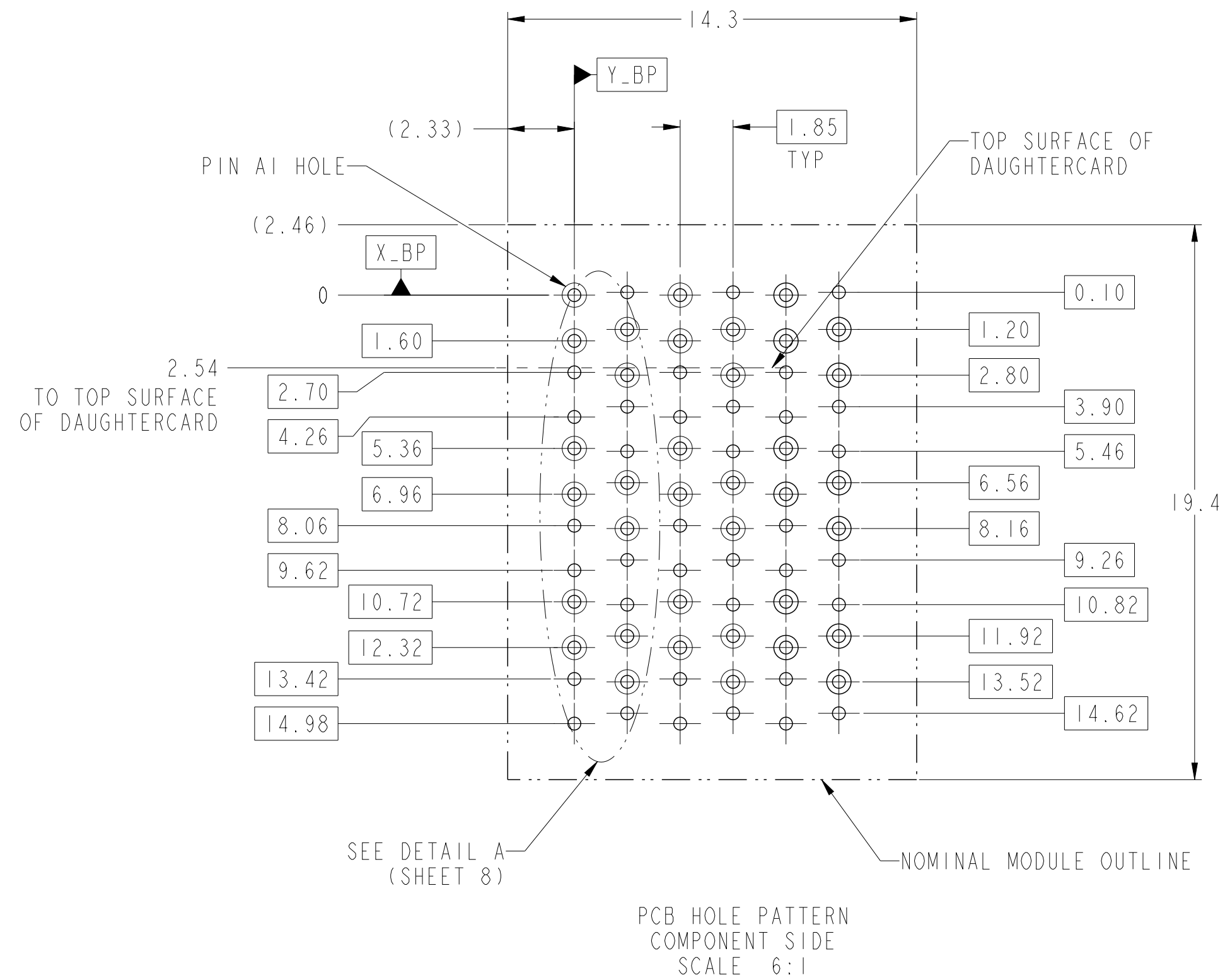
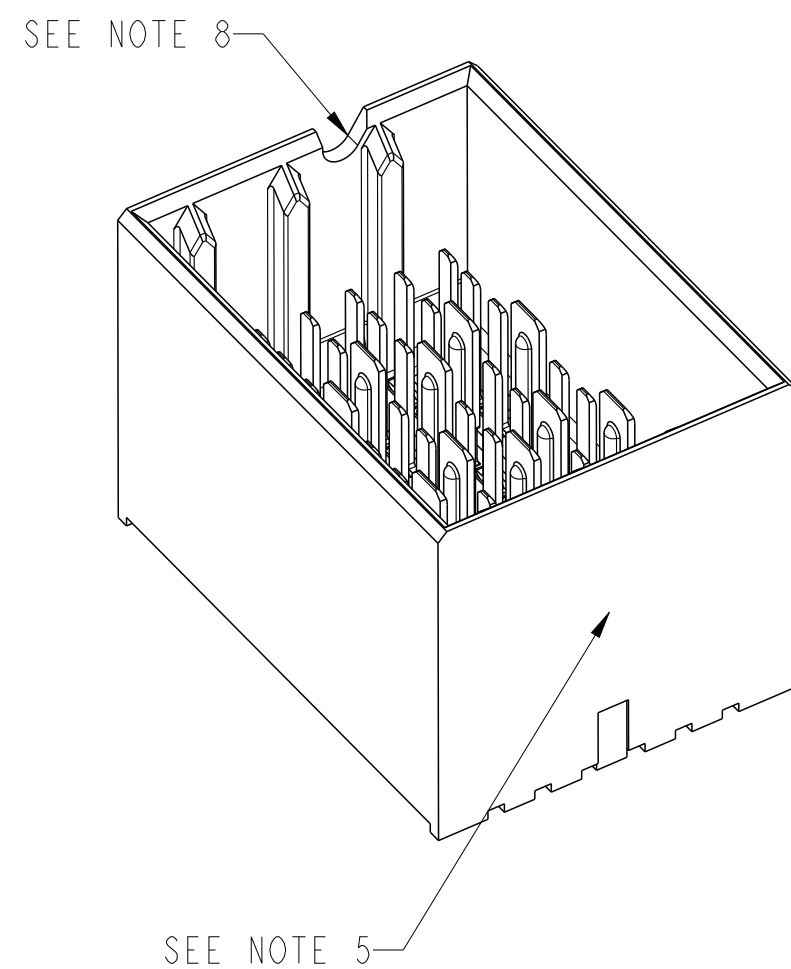
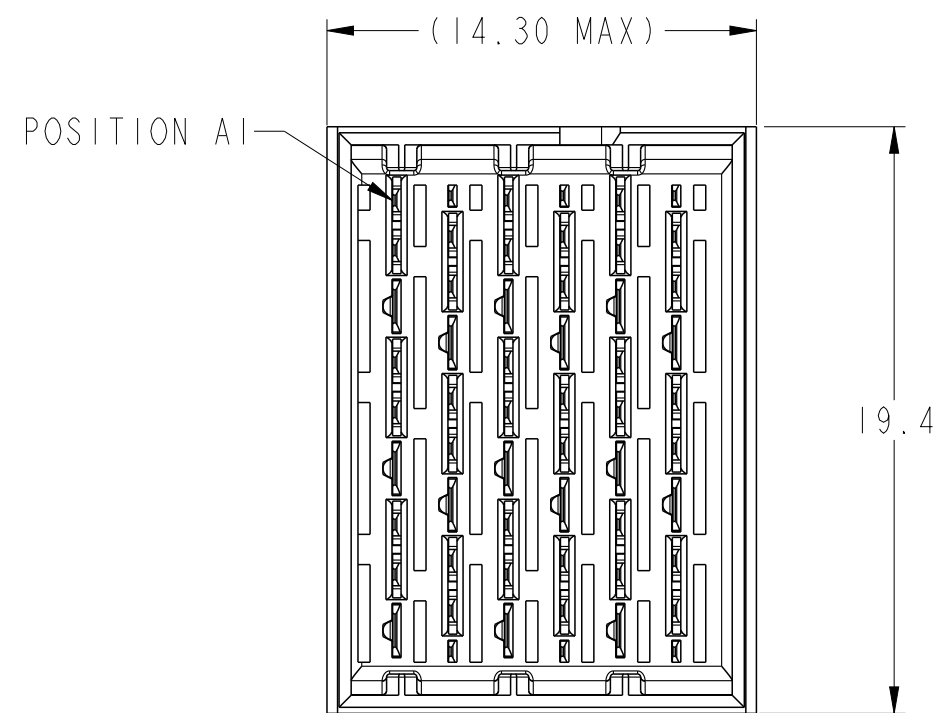
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tolerance std		-		eng		Sandar Soe		2014/10/02				A2		4:1					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-				ecn no		ELX-S-18843-1					
				appr		Chen-Hong Tan		2014/12/10		product family		XCEDE		rel level					
														Released					
surface		✓		linear				title		MODULE ASSEMBLY		dwg no		10119189		rev			
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



TAIL LENGTH
SEE NOTE 12

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°	±2°
ASME Y14.5	www.fci.com	cat. no.	-	Product	- Customer Drw	sheet 7 of 8	rev	B	10119189	10119189

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NOTES:

1. CONNECTOR MATERIALS
SHROUD: HIGH-TEMP THERMOPLASTIC, GRAY, UL94V-0
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
2. 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.
3. PRODUCT SPECIFICATION: GS-12-588
4. APPLCATION SPECIFICATION: GS-20-121
5. PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
6. HOUSING MUST WITHSAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR-PHASE REFLOW OVEN.
7. PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.
8. NOTCH INDICATES "ROW A" SIDE OF CONNECTOR.
9. SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PN SELECTION, ETC.
10. SCREW IS OPTIONAL AND ENGAGES WITH BOTTOM OF GUIDE-PIN FROM BENEATH THE PCB FOR ADDITIONAL GUIDE-PIN SUPPORT.
11. OPTINAL 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 Ø0.55[0.0217"]COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR Ø0.45[0.0177"]COMPLIANT PIN DRILL
13. A

B

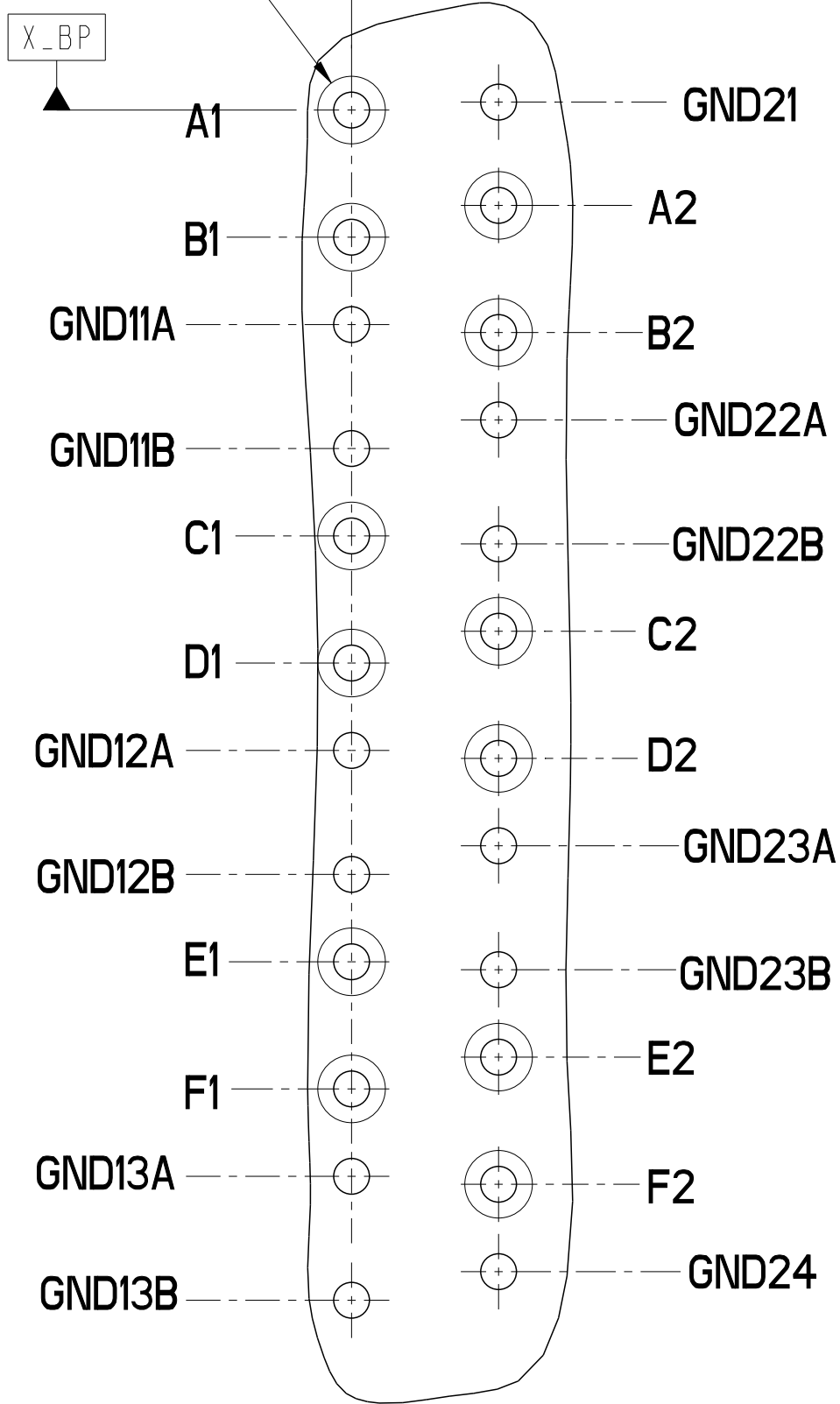
 SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

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

COMPLIANT PIN DRILL	PTH	PAD
Ø0.55 [0.0217"]	Ø0.45±0.05	Ø0.85
Ø0.45 [0.0177"]	Ø0.36±0.05	Ø0.75

REFER TO TABLE 3 FOR PTH, DRILL & PAD SIZES

⌀	Ø0.10	X_BP	Y_BP
---	-------	------	------



DETAIL A
SCALE 12:1

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 -						rel level Released						
				appr Chen-Hong Tan 2014/12/10						product family XCEDE						
surface		linear		0.X ±0.2			MODULE ASSEMBLY VERTICAL HEADER, 6 COLUMN, 3 PAIR						dwg no 10119189		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 8 of 8		

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[10119189-B0C-30DLF](#) [10119189-E0C-30DLF](#) [10119189-H0C-30DLF](#) [10119189-A0C-30DLF](#) [10119189-D0C-30DLF](#)
[10119189-G0C-30DLF](#)