

10119191 - X0E - XXXLF

LEAD-FREE DESIGNATION
ONLY WITH APPLICABLE
PLATING CODES

8-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)	1 (ONE)										

spec ref	-	dr	K Ayyappanaj	2011/11/02			size	A2	scale	4:1		
tolerance std	-	eng	Sandar Soe	2012/08/15			ecn no	-				
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-								
		appr	Chen-Hong Tan	2012/08/31	product family	XCEDE		rel level	Released			
surface	✓	linear		title	MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 3-PAIR	dwg no	10119191			rev	A	
ASME Y14.5	angular	0° ±2°										www.fci.com

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OPEN (2- WALL) MODULE

A

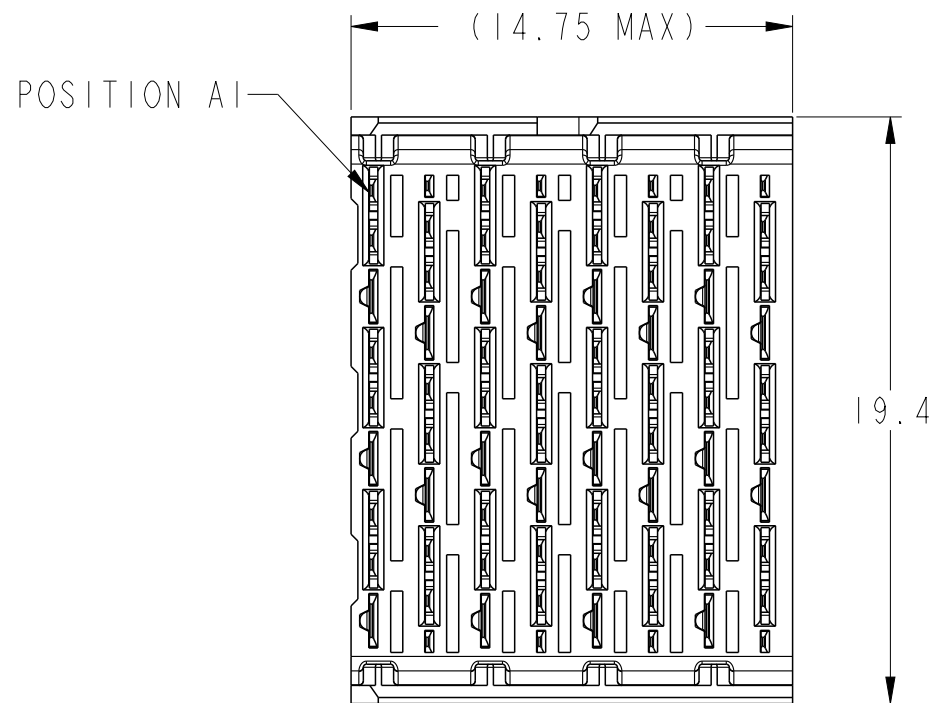
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C

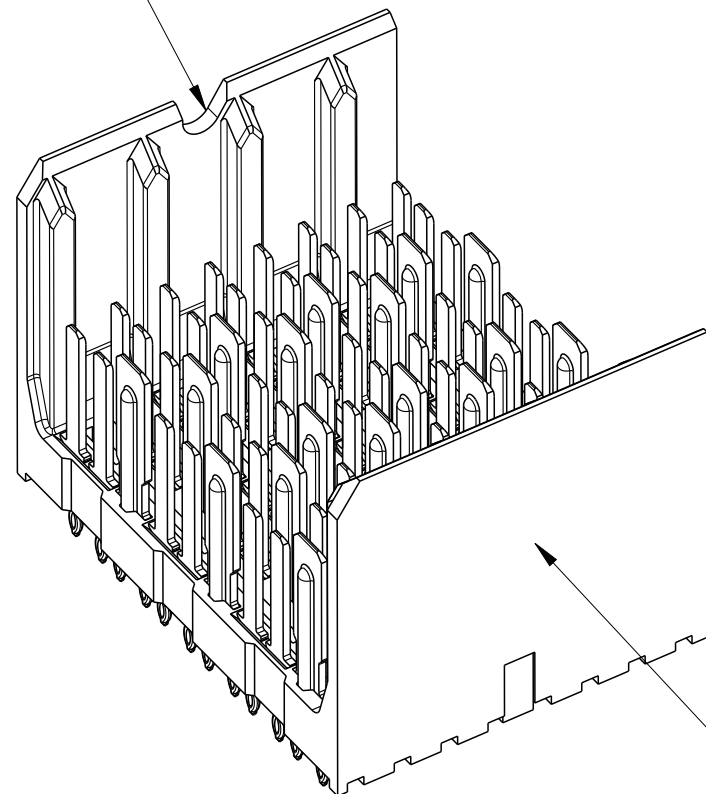
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E

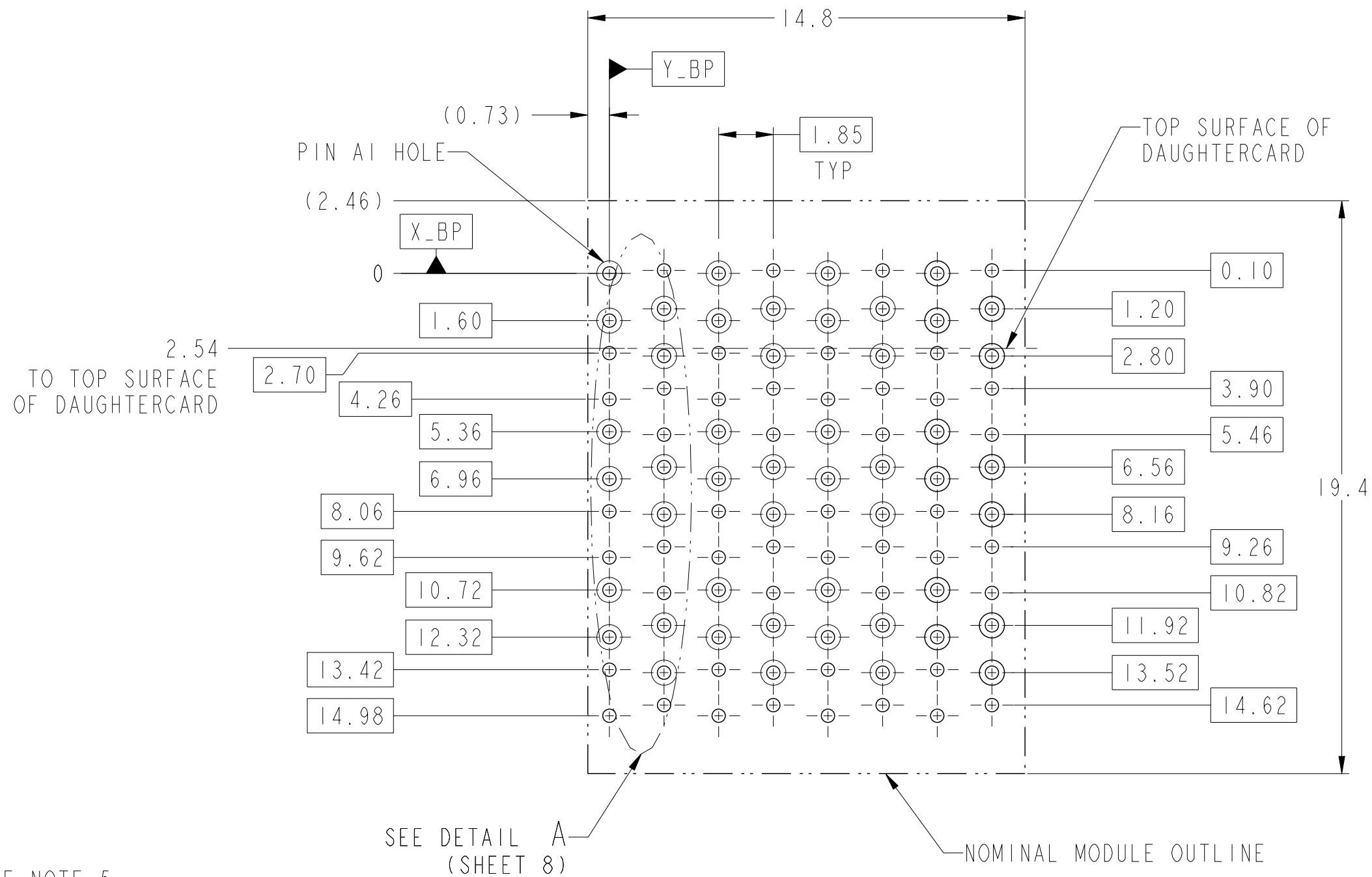
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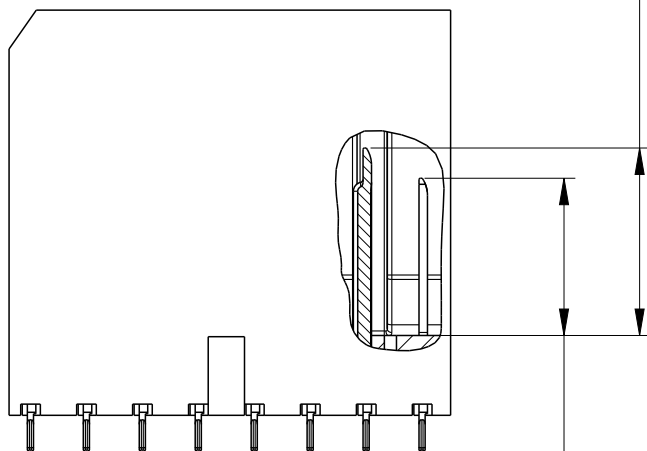
SEE NOTE 8



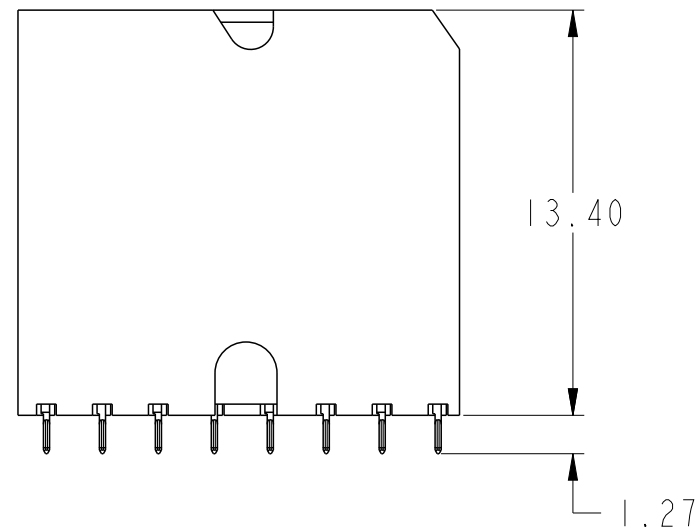
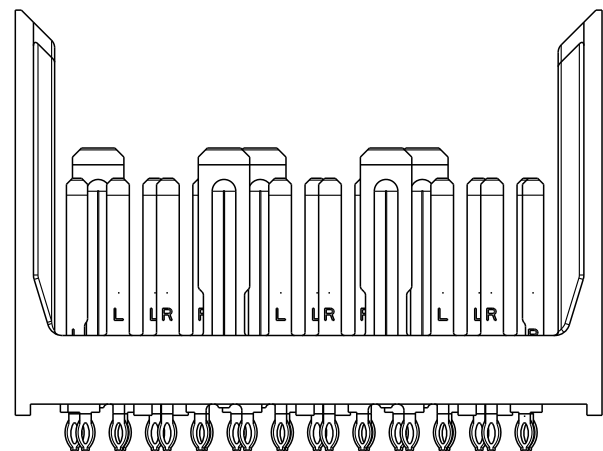
SEE NOTE 5



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



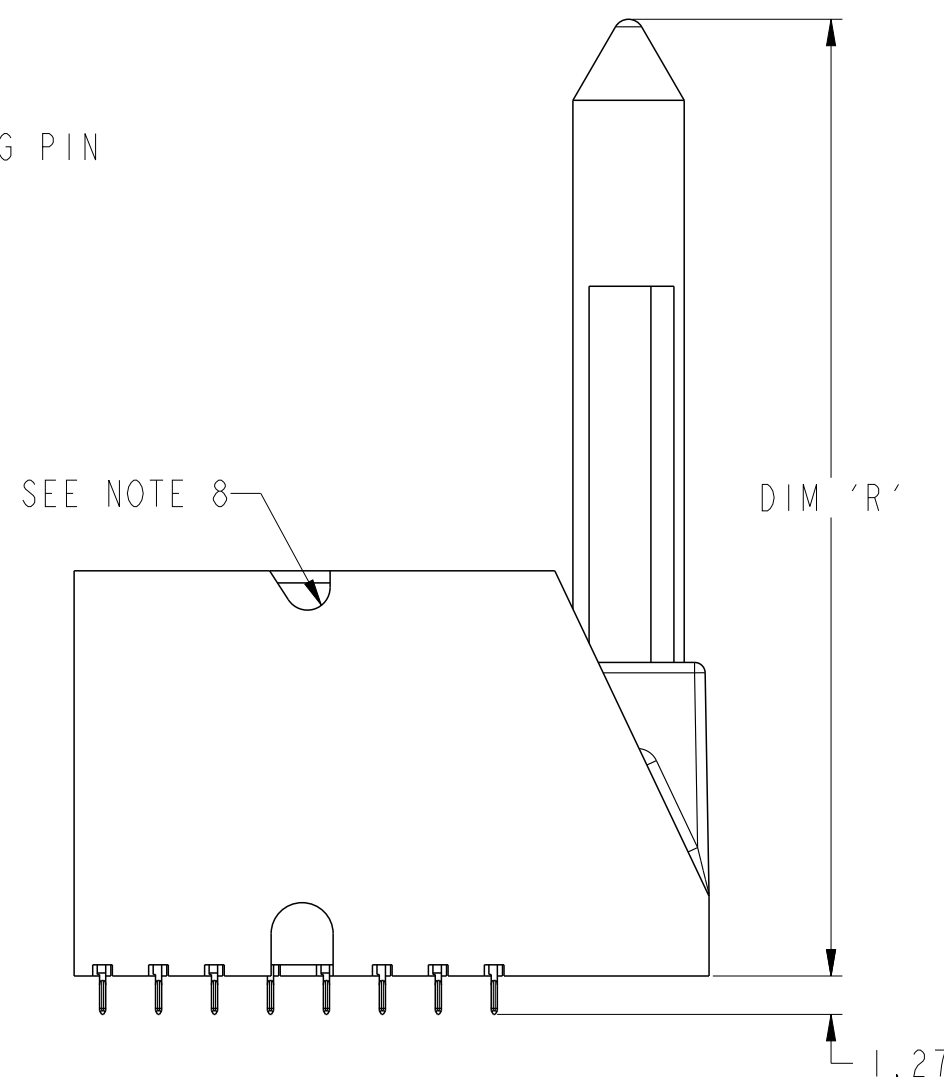
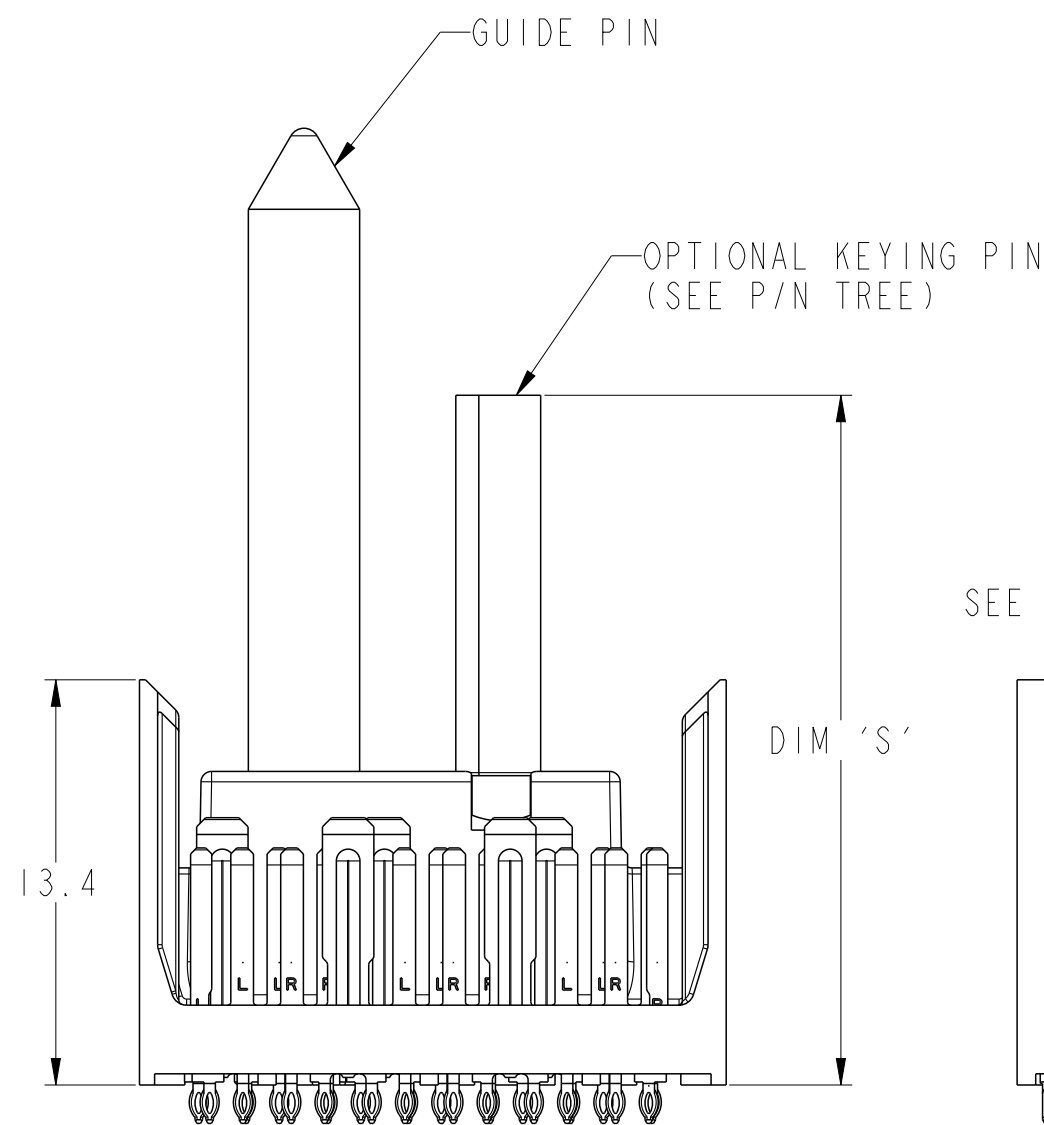
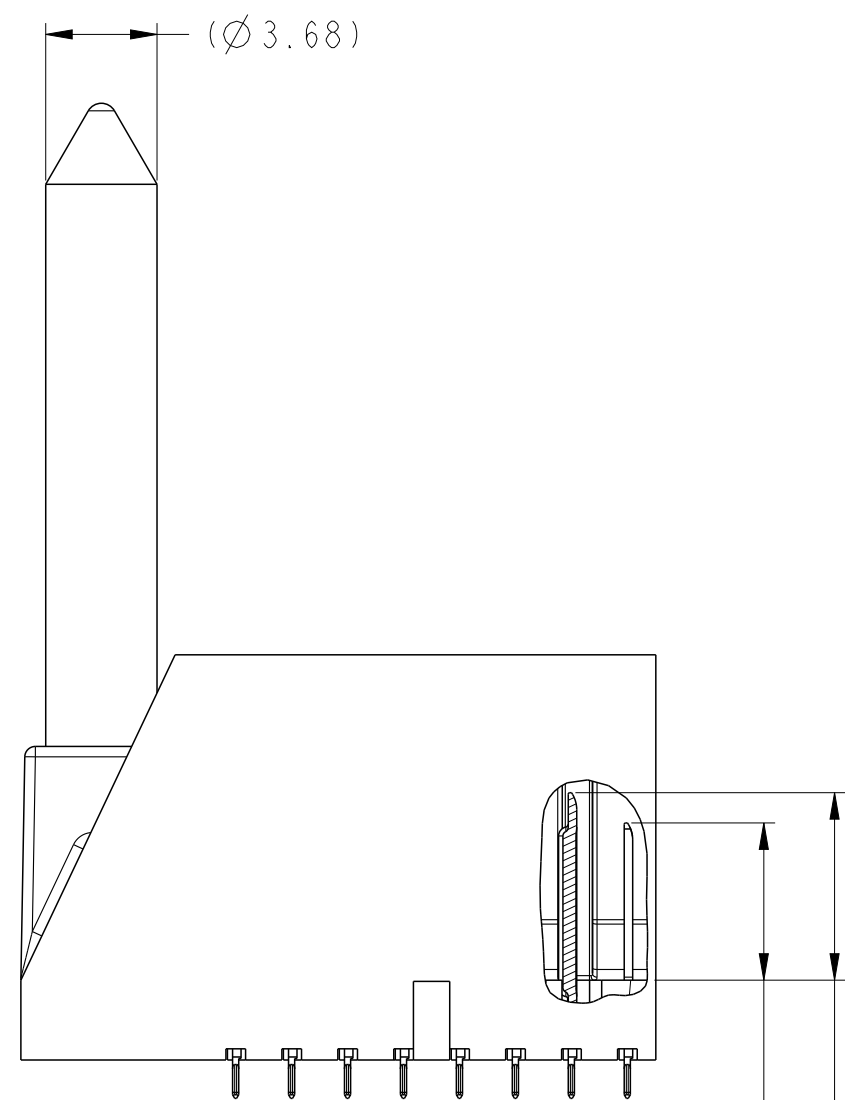
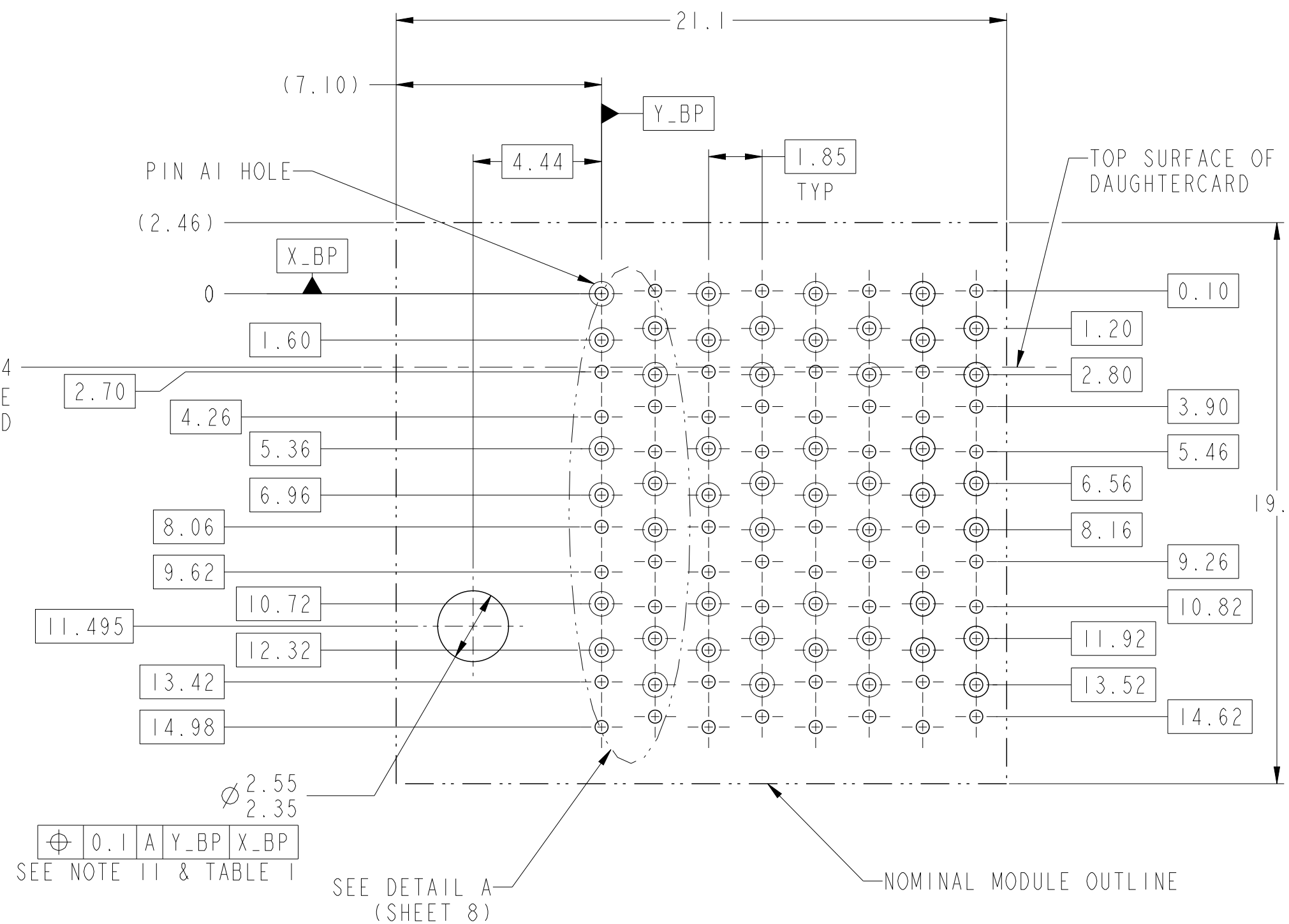
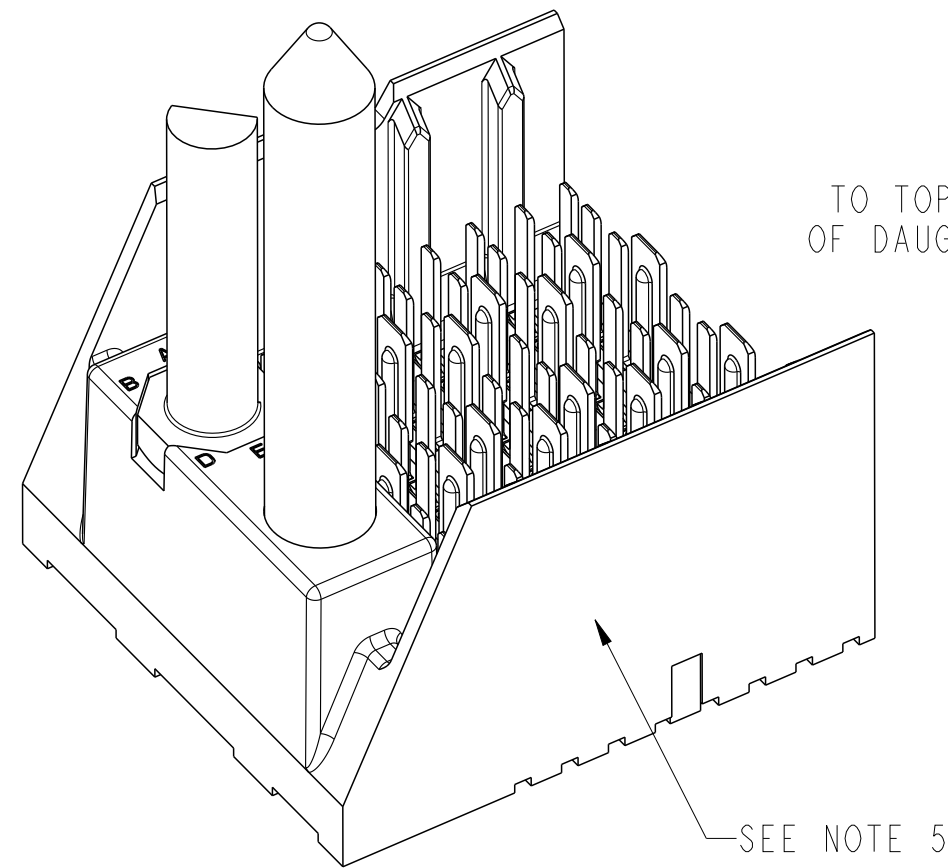
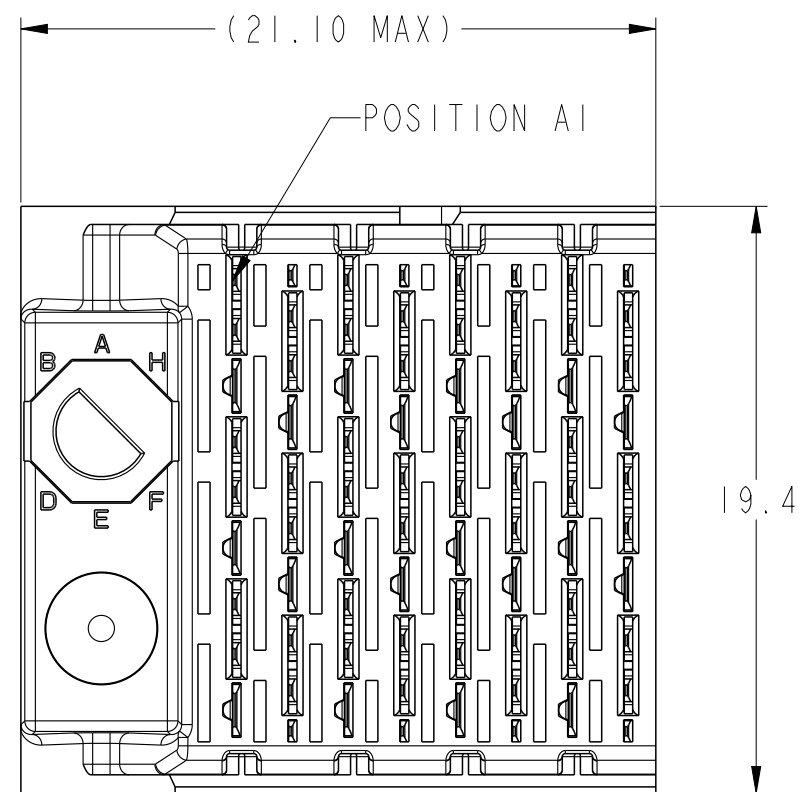
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tolerance std		-		eng	Sandar Soe	2012/08/15			ecn no	-				
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	-			-					
				appr	Chen-Hong Tan	2012/08/31	product family		XCEDE		rel level		Released	
surface	linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 3-PAIR				dwg no	10119191		rev	A
		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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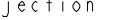
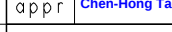
STATUS:Released

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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

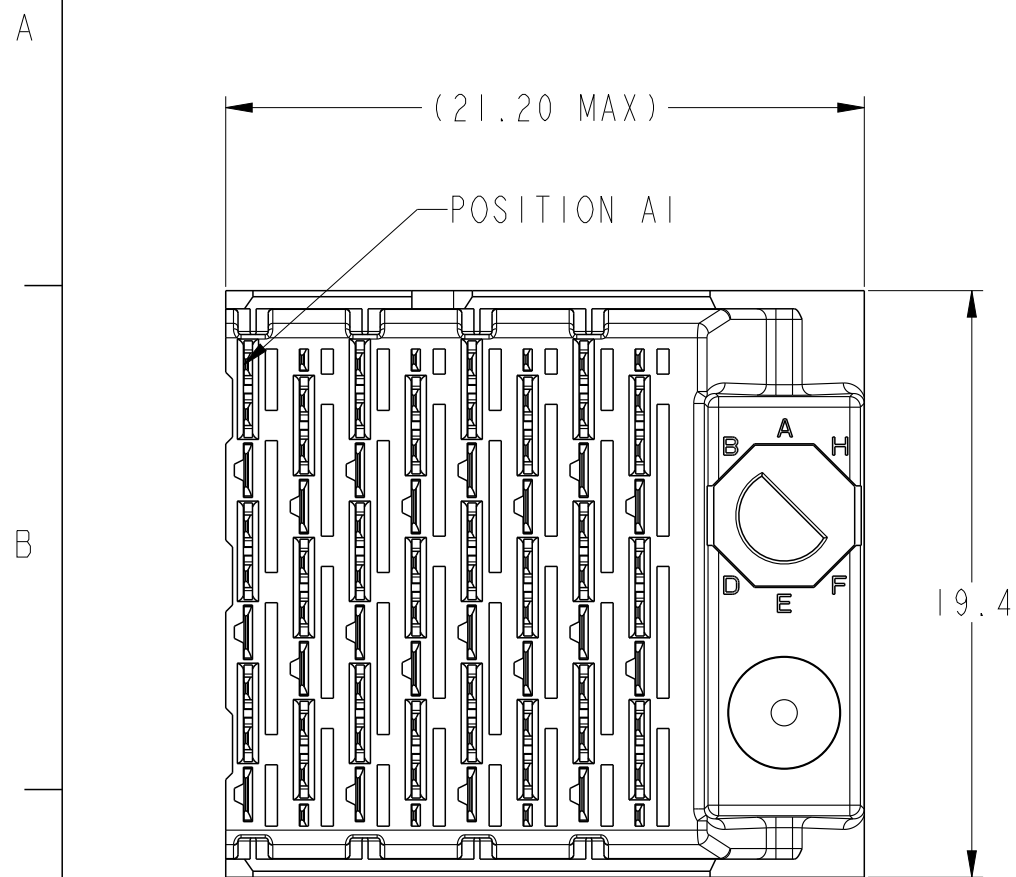
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ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-									
		appr	Chen-Hong Tan	2012/08/31									
surface		linear		title	MODULE ASSEMBLY			dwg no	10119191			rev	A
					VERTICAL HEADER, 8-COLUMN, 3-PAIR								
ASME Y14.5		angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw			sheet 3 of 8		

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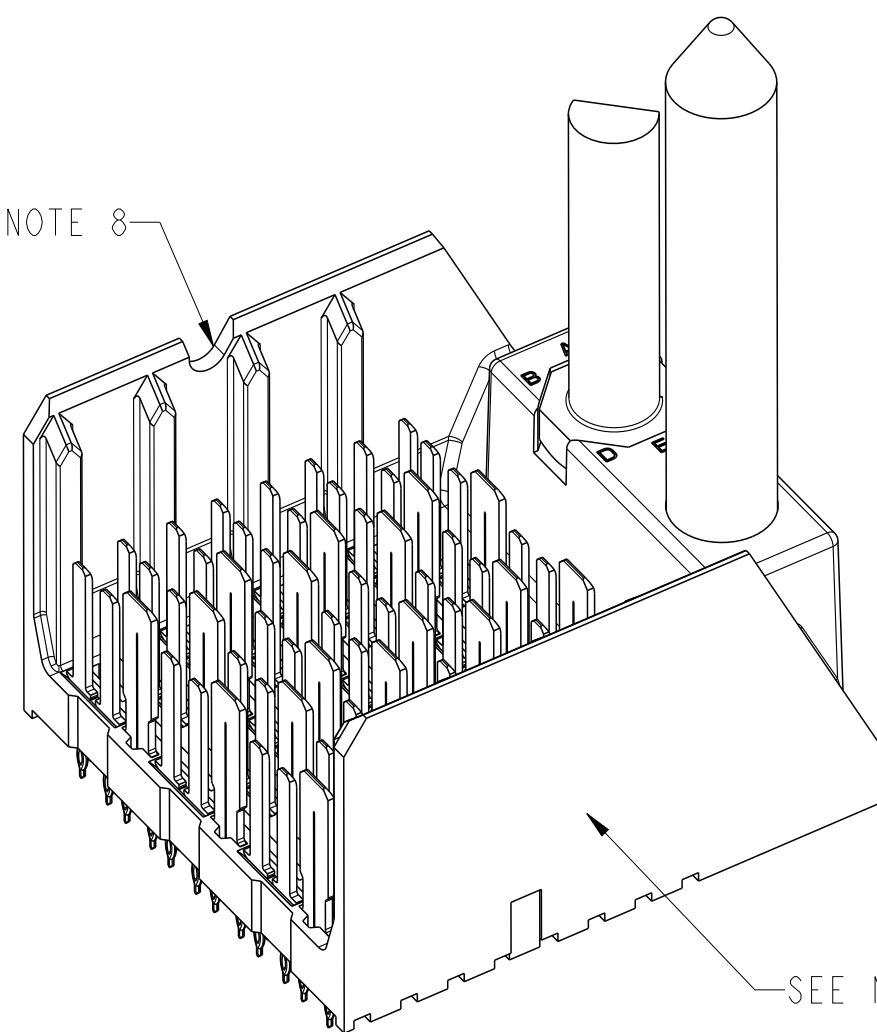
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RIGHT POLARIZING/GUIDE MODULE



SEE NOTE 8



2.54
TO TOP SURFACE
OF DAUGHTERCARD

SEE NOTE 5

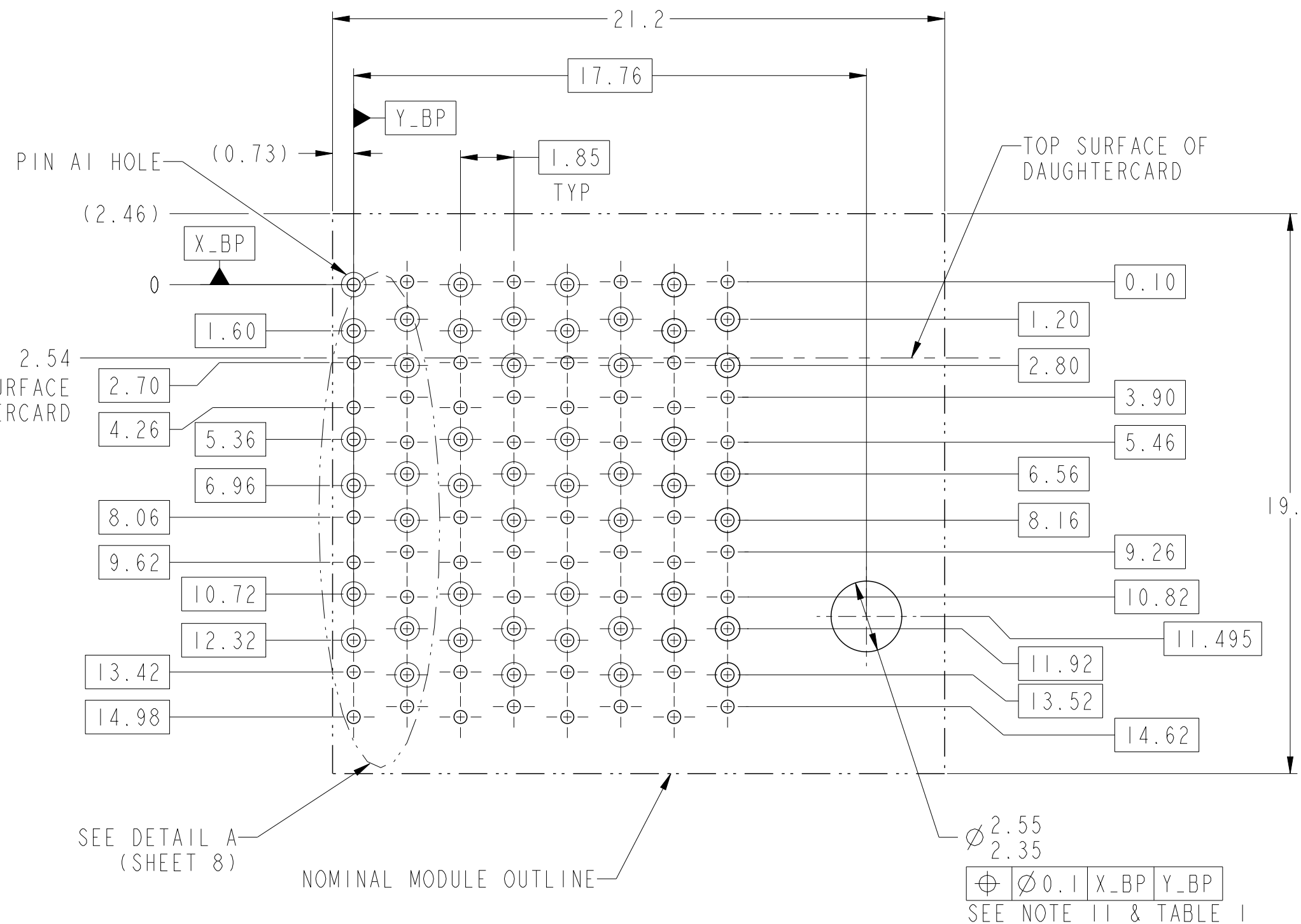
GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)

DIM 'S'

DIM 'R'

1.50



Ø 2.55
2.35
Ø 0.1 X_BP Y_BP
SEE NOTE 11 & TABLE 1

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

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

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)

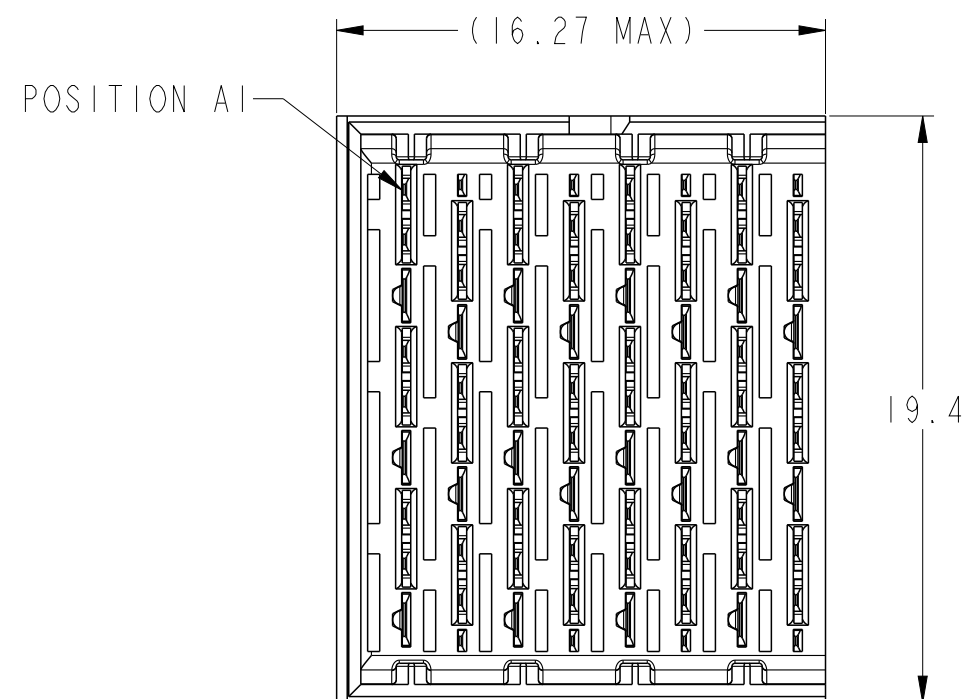
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tolerance std		-		eng		Sandar Soe		2012/08/15						ecn no		-		Released					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-						rel level									
				appr		Chen-Hong Tan		2012/08/31		product family		XCEDE											
surface		✓		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10119191		rev		A	
				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							

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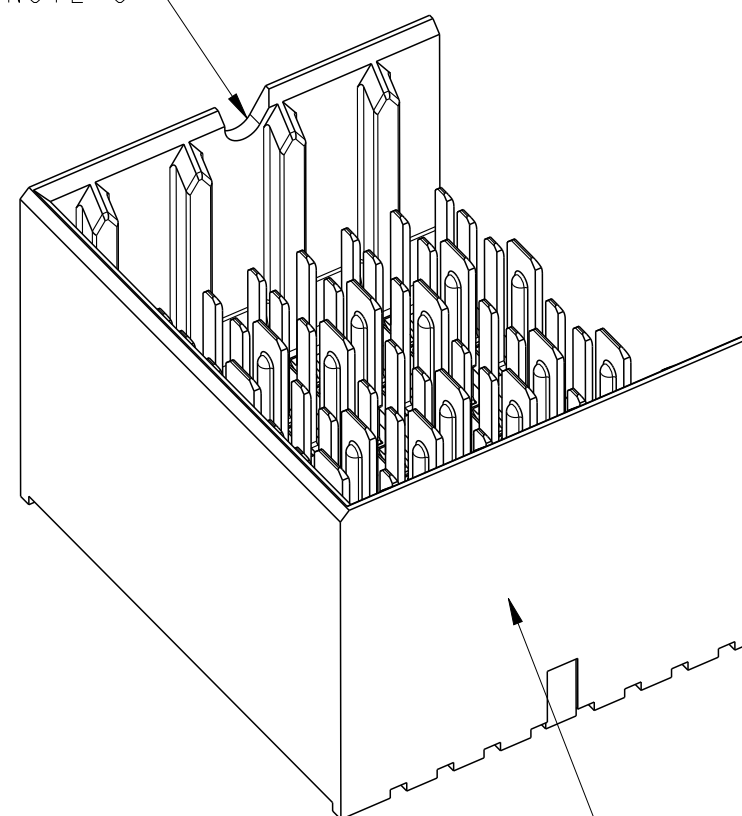
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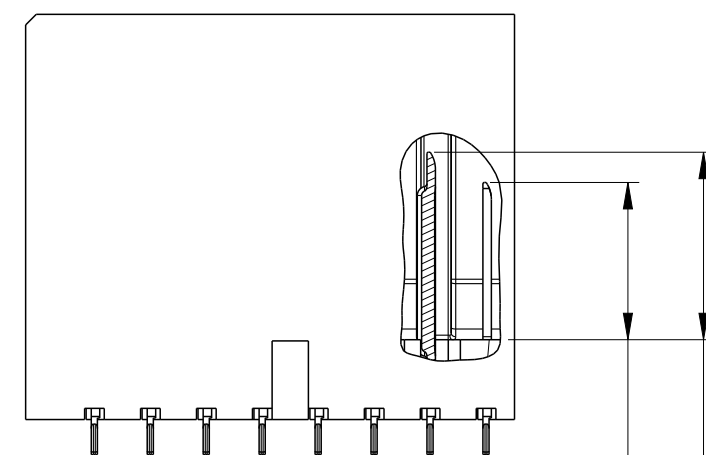
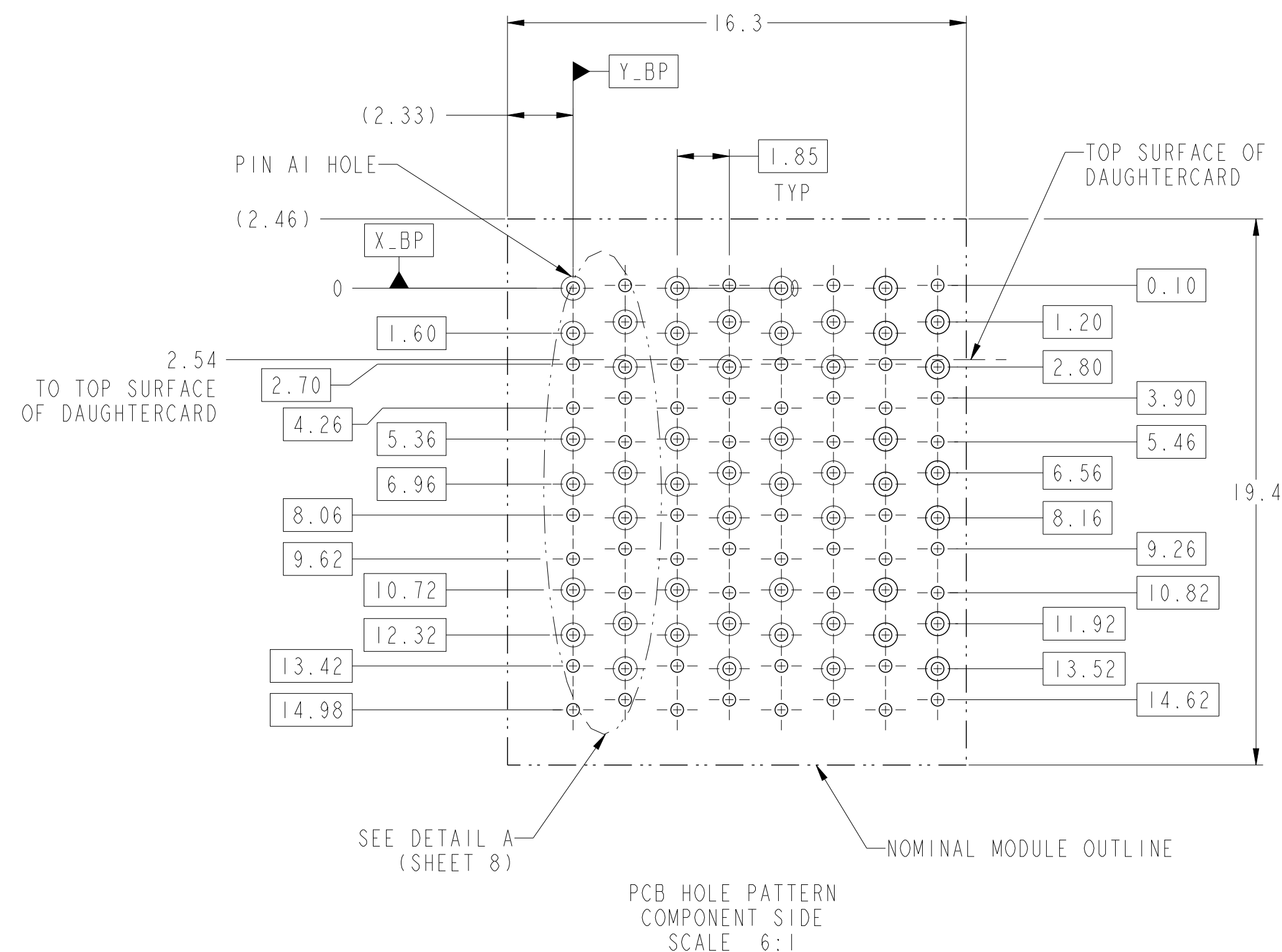
LEFT WALL MODULE



SEE NOTE 8

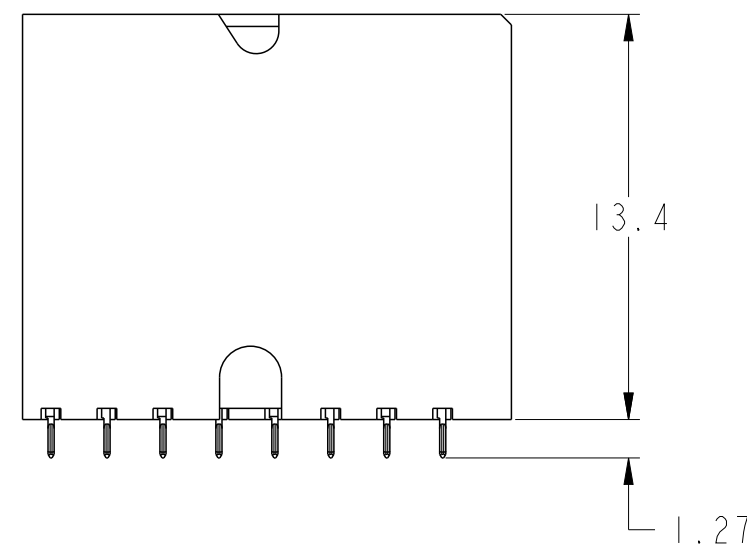
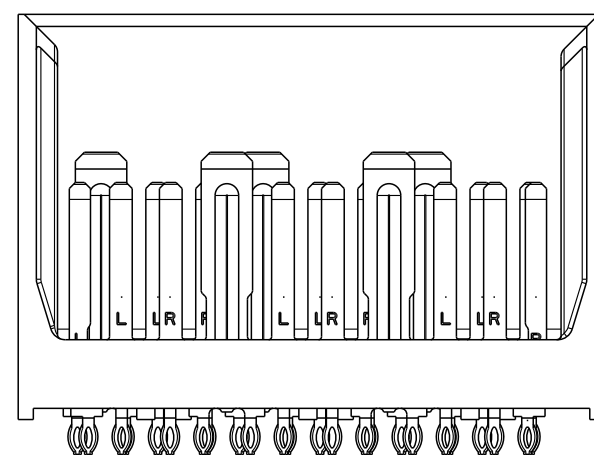


SEE NOTE 5



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)



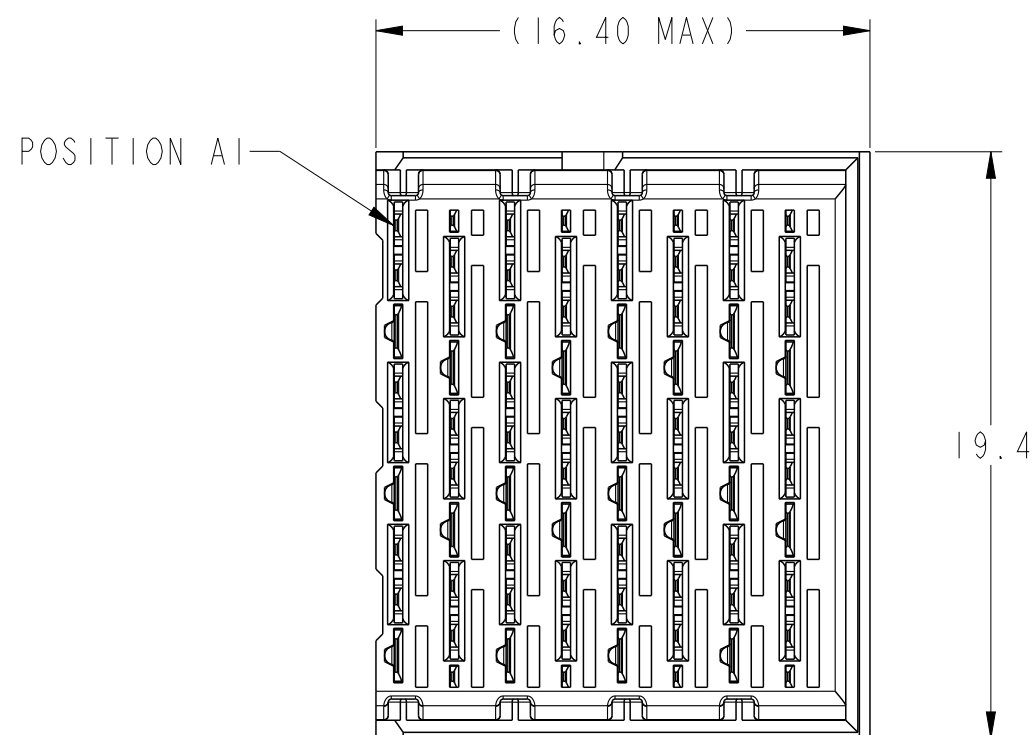
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tolerance std	ASME Y14.5	eng	Sandar Soe	2012/08/15	chr	-	ecn no	-	rel level	Released
surface	✓	appr	Chen-Hong Tan	2012/08/31	product family	XCEDE	rel level	Released	rev	A
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	title	MODULE ASSEMBLY VERTICAL HEADER,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

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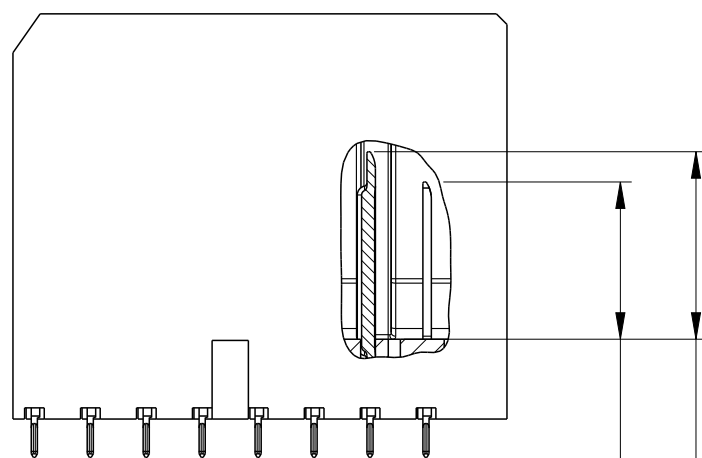
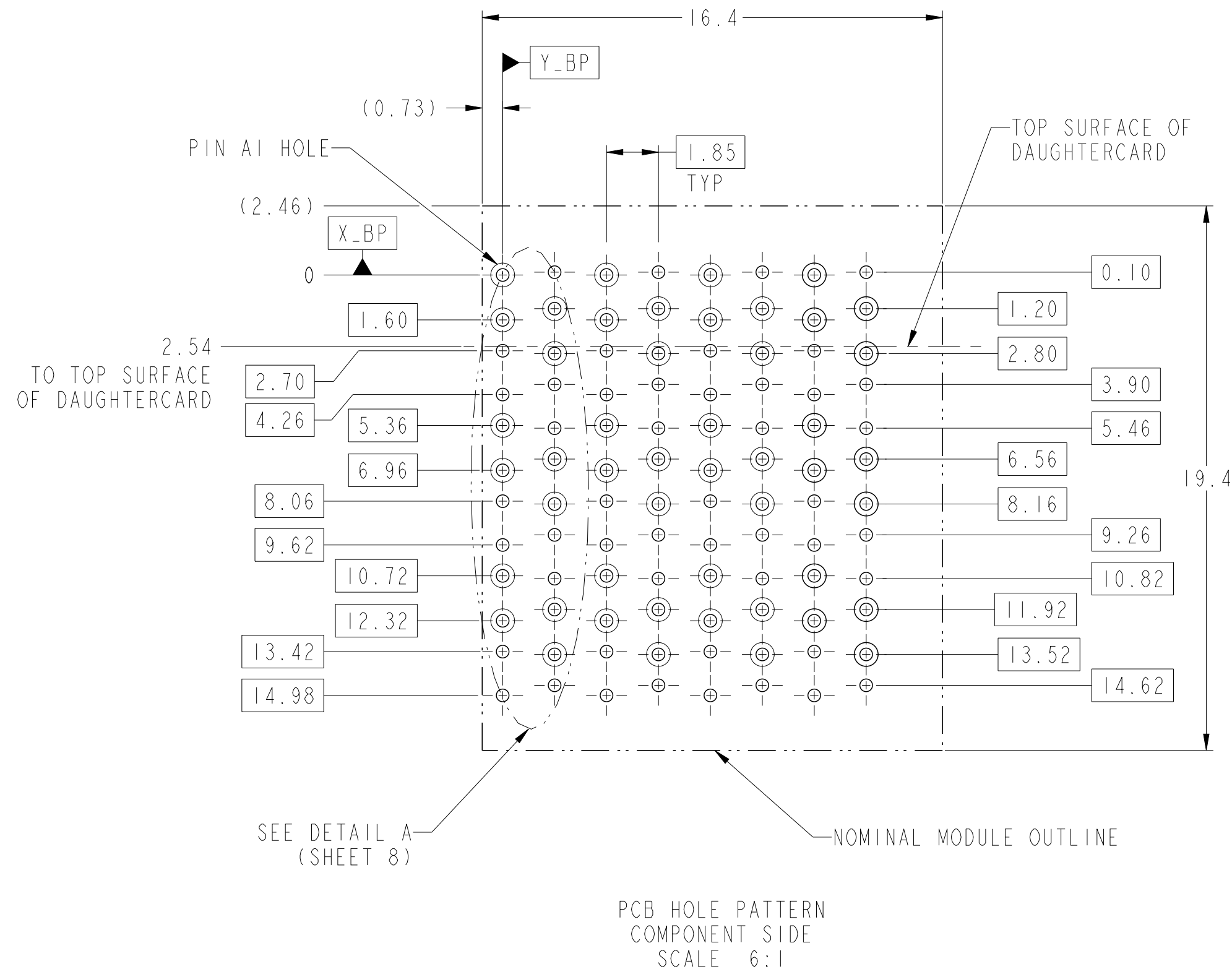
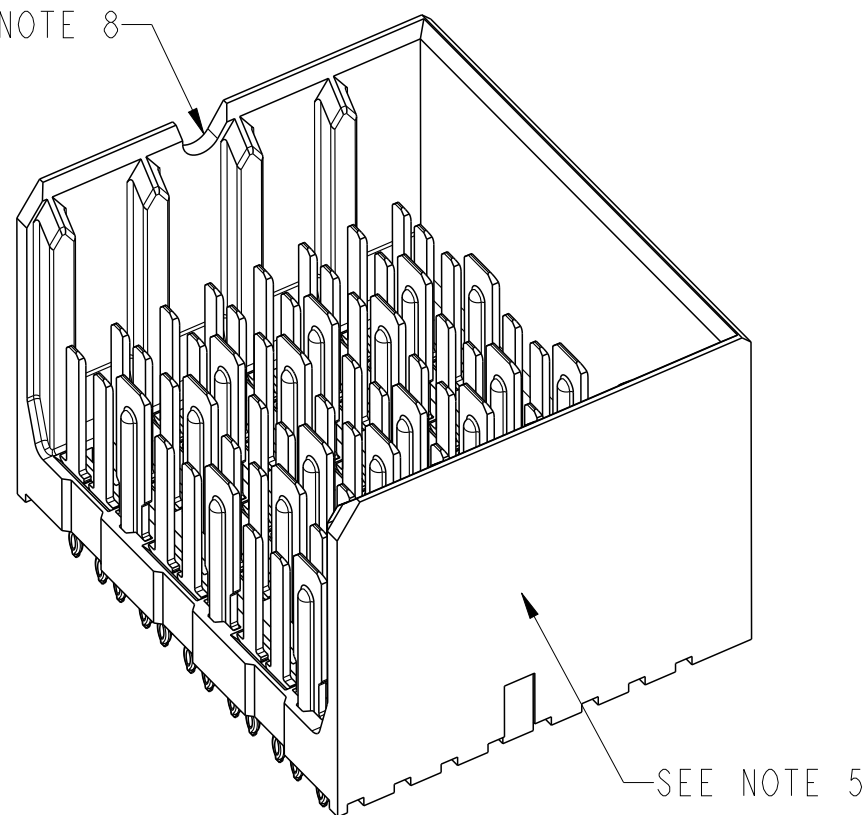
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RIGHT WALL MODULE



SEE NOTE 8



5.2 (3MM SMALL END GROUNDS)

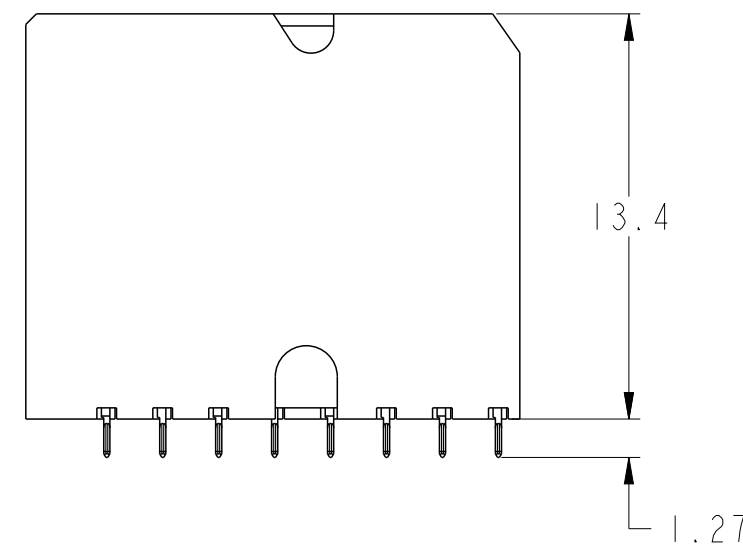
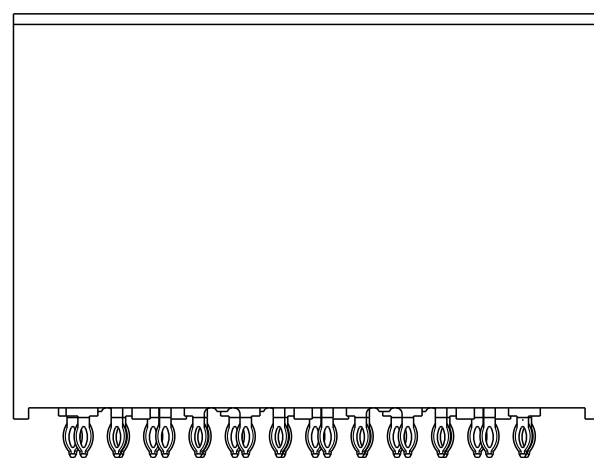
5.2 (3MM WIPE SIGNALS)

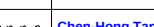
4.2 (2MM WIPE SIGNALS)

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						ecn no		-		Released			
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-						rel level							
				appr		Chen-Hong Tan		2012/08/31		product family		XCEDE									
surface		✓		linear				title		MODULE ASSEMBLY		dwg no		10119191		rev		A			
				0.X																±0.2	
				0.XX																±0.10	
ASME Y14.5				0.XXX		±0.050				VERTICAL HEADER, 8-COLUMN, 3-PAIR											
		angular		0°		±2°		www.fci.com		cat. no.		-		Product - Customer Drw				sheet 6 of 8			

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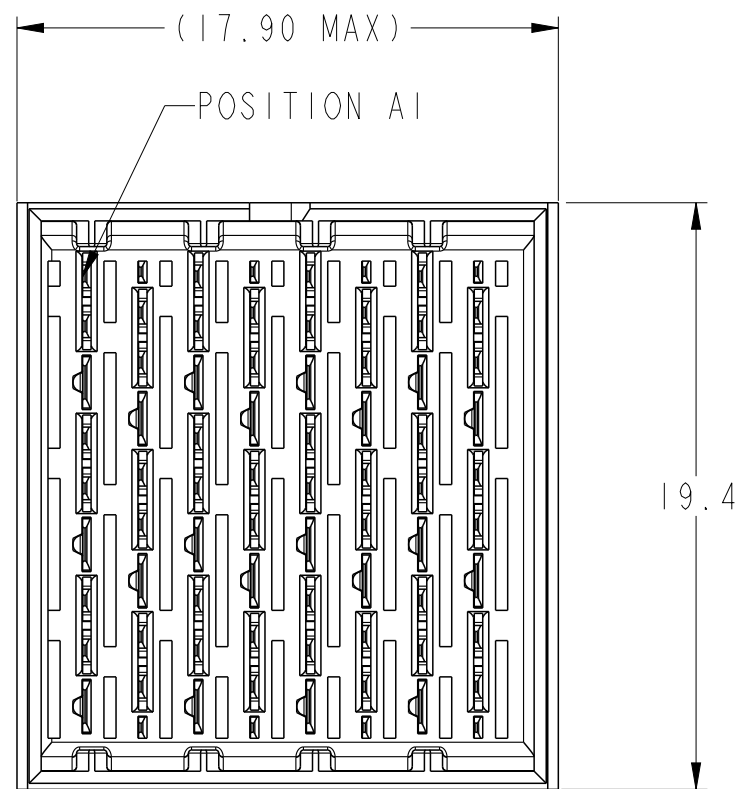
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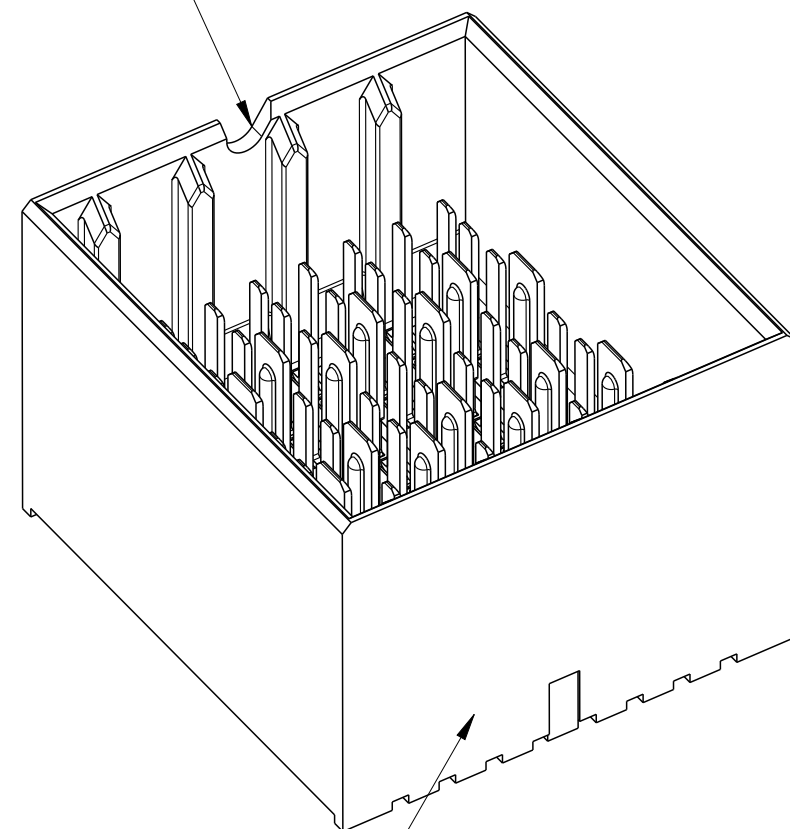


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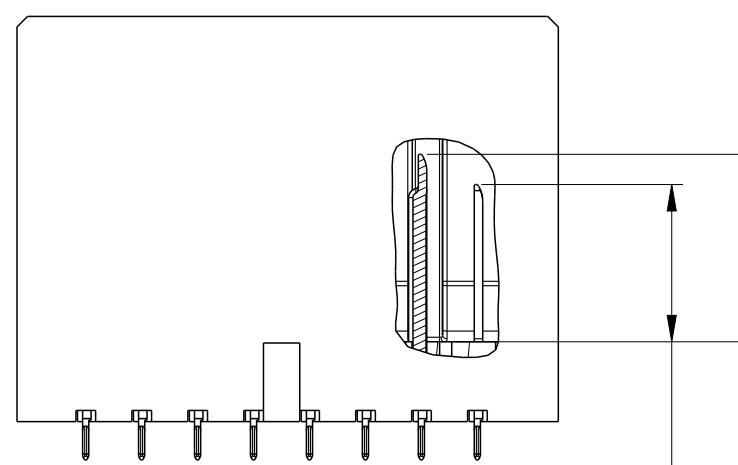
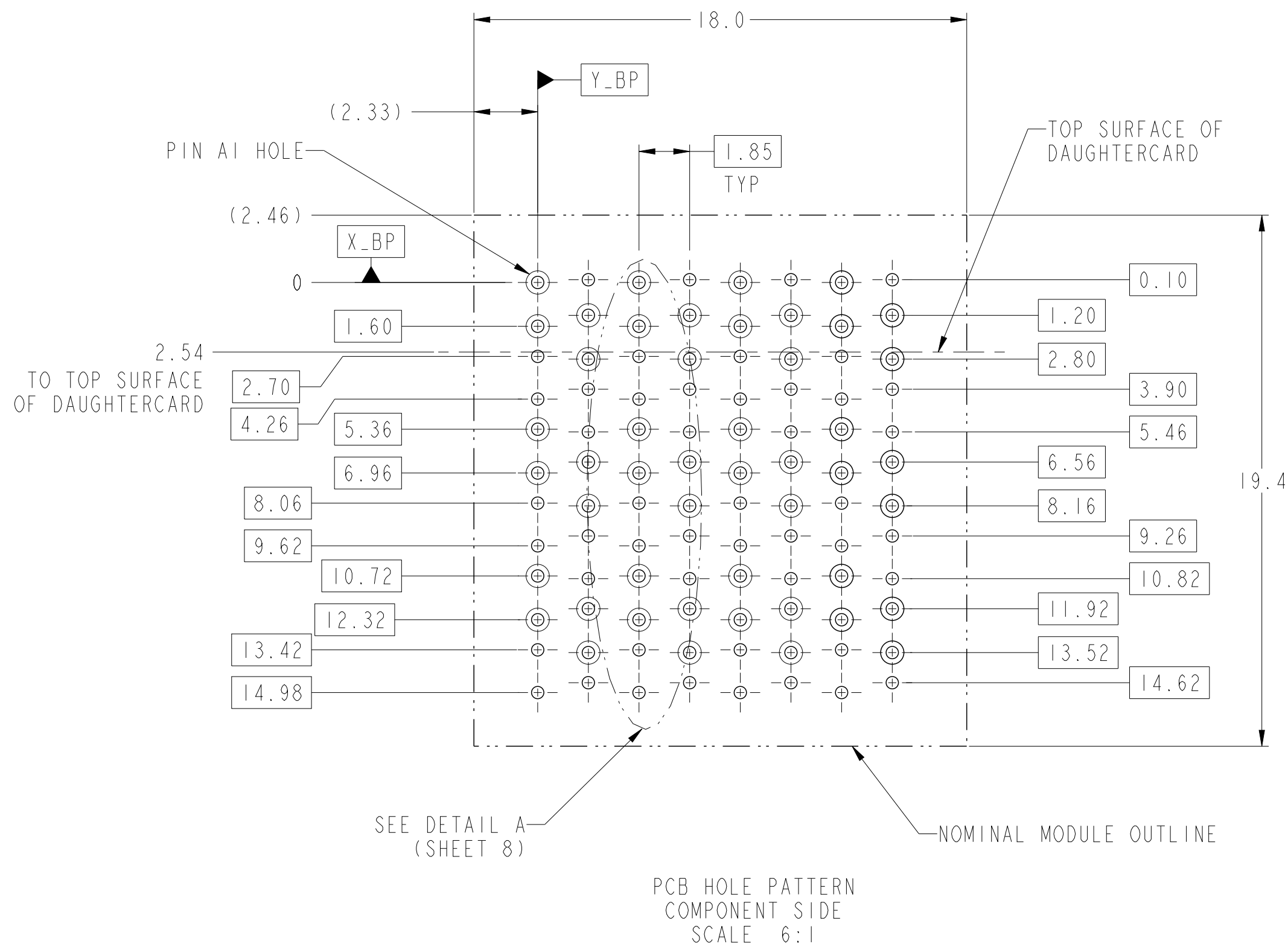
FOUR WALL MODULE



SEE NOTE 8



SEE NOTE 5



5.2 (3MM SMALL END GROUNDS)

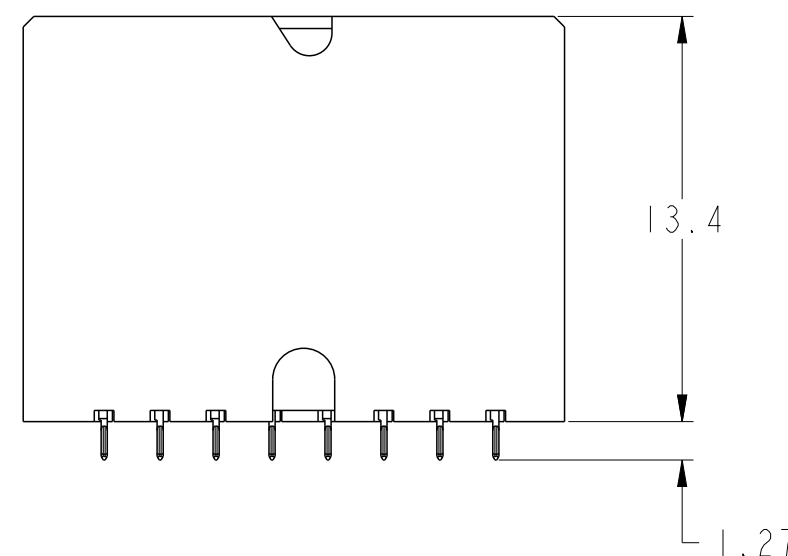
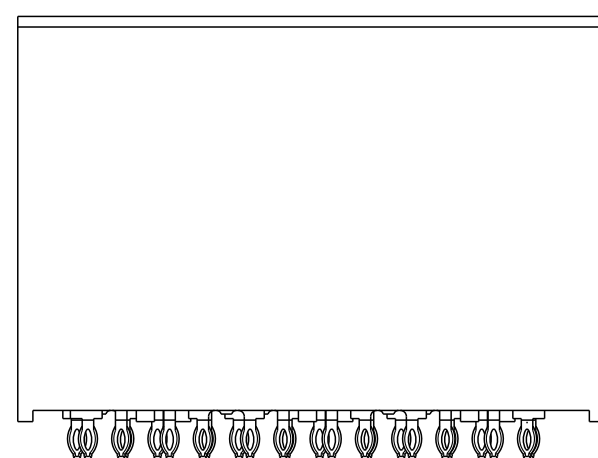
5.2 (3MM WIPE SIGNALS)

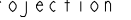
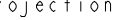
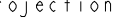
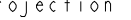
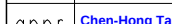
4.2 (2MM WIPE SIGNALS)

SEE P/N TREE

6.2 (4MM WIPE WIDE GROUNDS)

5.2 (3MM WIPE WIDE GROUNDS)



spec ref	-	dr	K Ayyappanaraj	2011/11/02	projection		MM	size	A2	scale	4:1							
tolerance std	-	eng	Sandar Soe	2012/08/15				ecn no	-	rel level	Released							
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	-														
surface	✓	appr	Chen-Hong Tan	2012/08/31														
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050			MODULE ASSEMBLY								dwg no		10119191		rev	A	
ASME Y14.5	angular 0° ±2°	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:

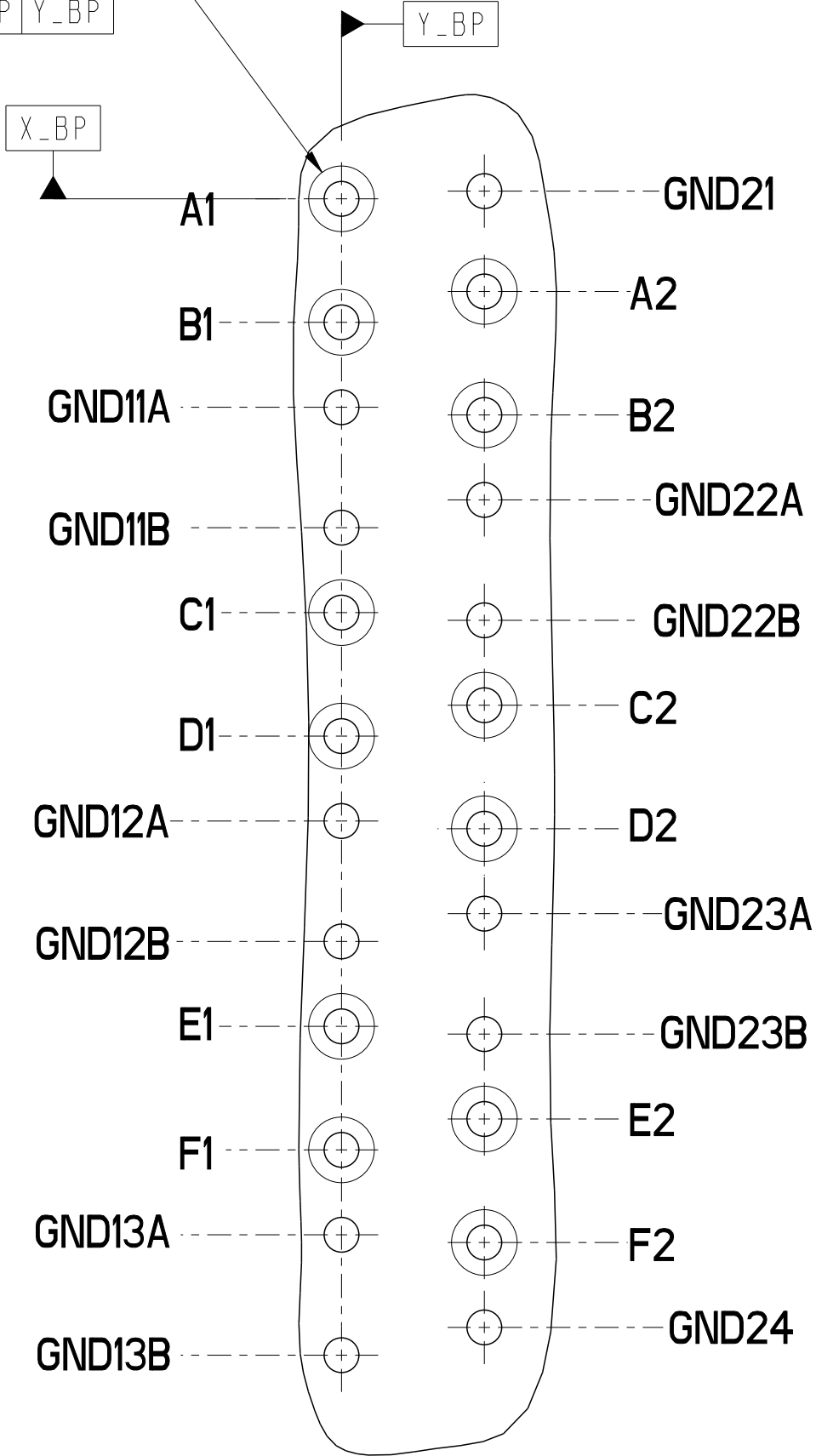
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12 588, INCLUDING THE TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE (CO) OR UNCONTROLLED ENVIRONMENT (UE) TEST SEQUENCE AS NOTED IN P/N TREE.

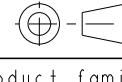
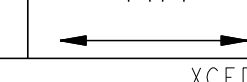
PRESS-FIT TAILS: TIN OVER NICKEL (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLCATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS 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
---	--------	------	------



spec ref -				dr K Ayyappa Raj 2011/11/02		projection		MM		size A2		scale 4:1			
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	
surface 		linear		0.X ±0.2				MODULE ASSEMBLY		dwg no 10119191		rev A			
		0.XX ±0.10													
ASME Y14.5		0.XXX ±0.050													
angular 0°		±2°		www.fci.com		cat. no. -		Product - Customer Drw				sheet 8 of 8			

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