

Amphenol
FCi

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10119191 - X0E - XXXLF

8-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	

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		Michael Song		2016/06/01						ecn no		ELX-DG-24191-1					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen		2016/06/08						rel level		Released					
				appr		Pei-Ming Zheng		2016/06/15						product family		XCEDE					
surface		linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10119191		rev		C	
		0.XX		±0.10																	
		0.XXX		±0.050																	
ASME Y14.5		angular		0°		±2°				cat. no.		-		Product - Customer Drw		sheet 1 of 8					

OPEN (2- WALL) MODULE

A

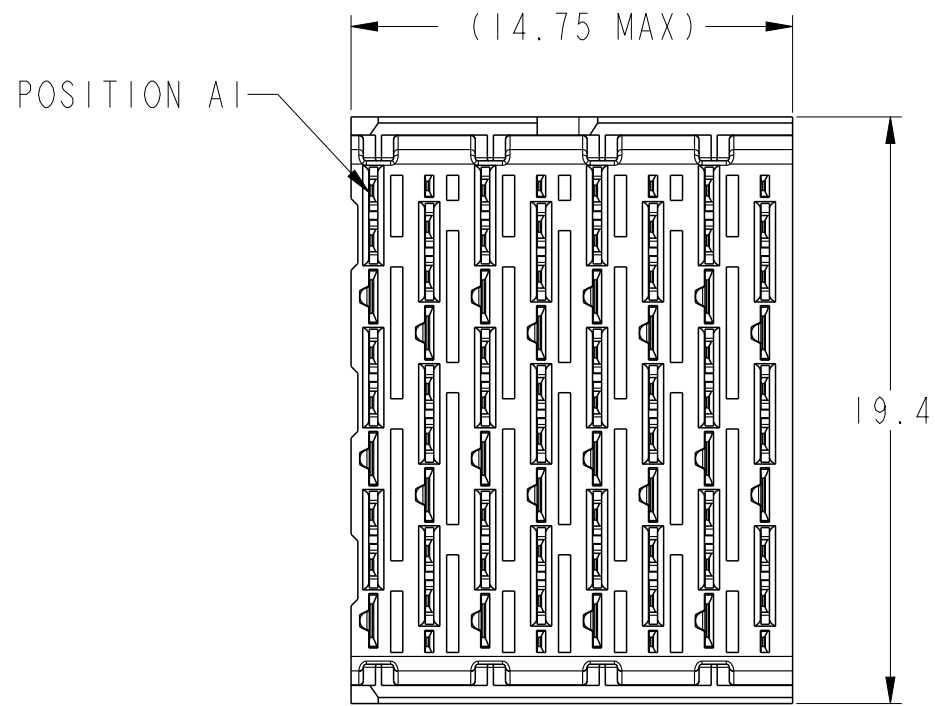
B

C

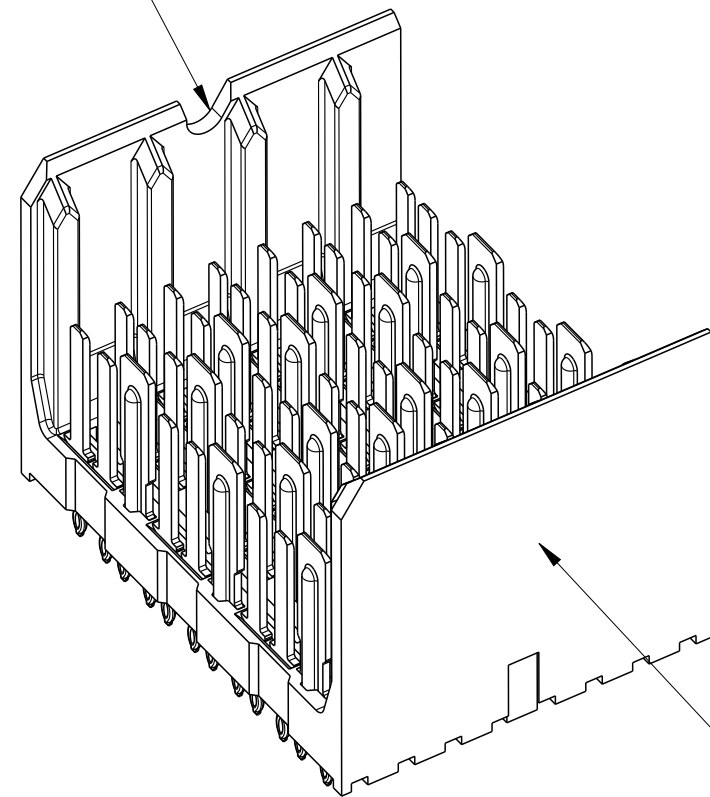
D

E

F

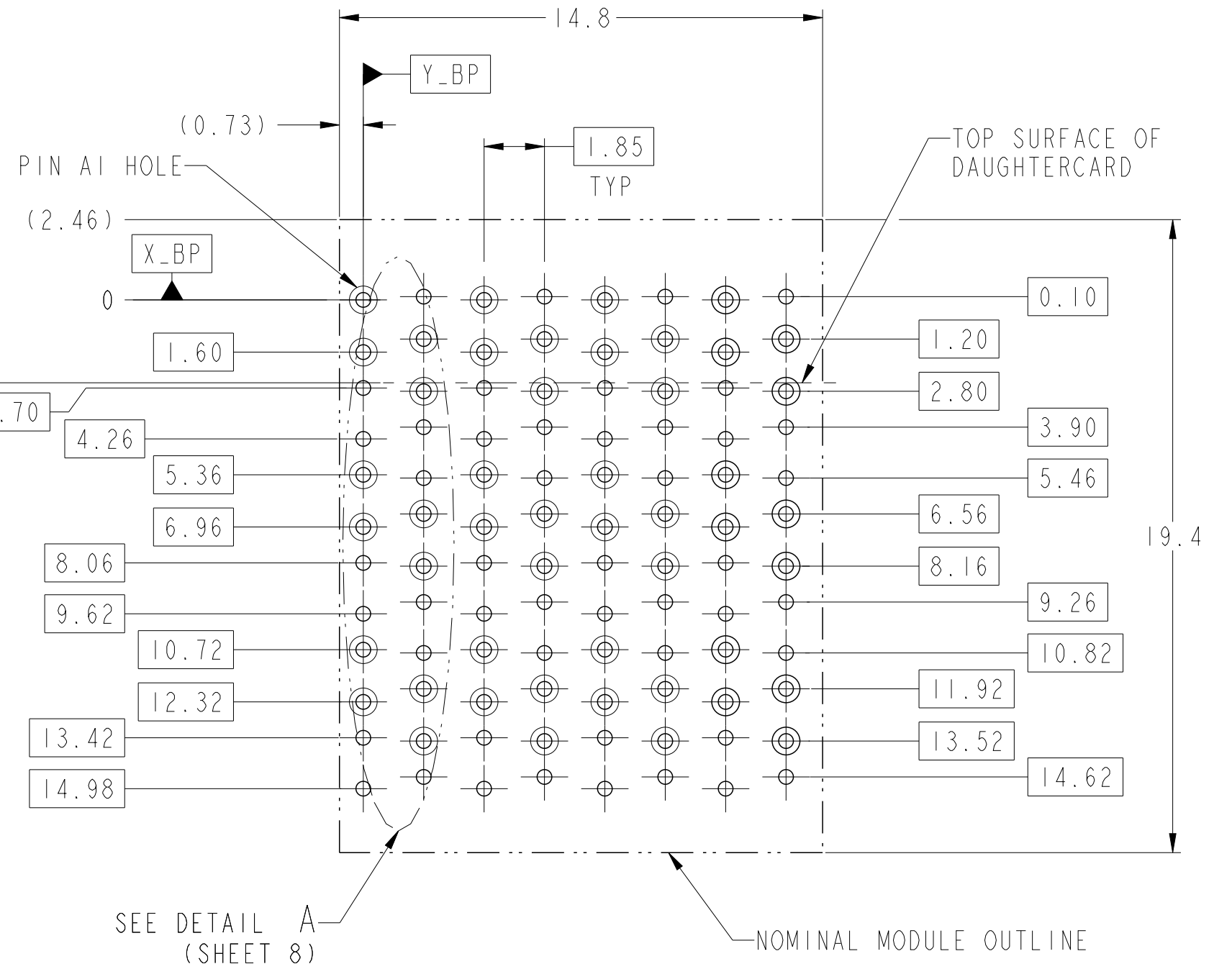


SEE NOTE 8



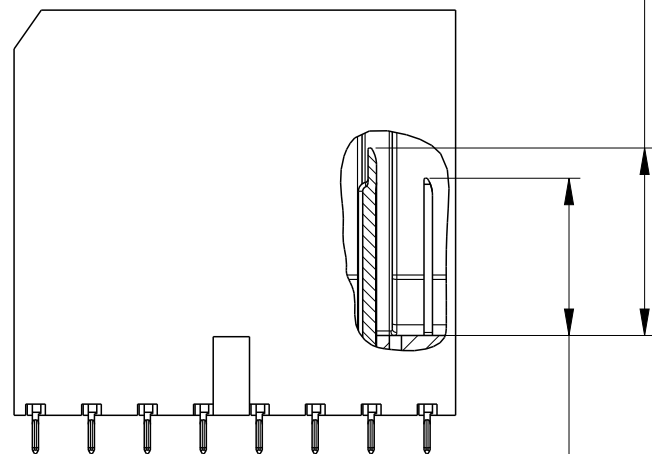
SEE NOTE 5

2.54
TO TOP SURFACE
OF DAUGHTERCARD



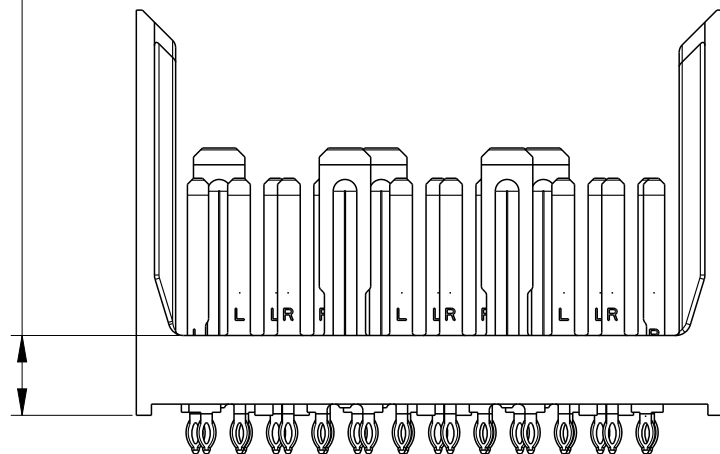
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

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



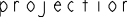
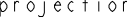
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



13.40

TAIL LENGTH
SEE NOTE 12

spec ref		-		dr		Roger Ng		2011/11/22		projection						MM		size		A2		scale		4:1			
tolerance std		-		eng		Michael Song		2016/06/01						MM		ecn no		ELX-DG-24191-1		rel level		Released					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen		2016/06/08								appr		Pei-Ming Zheng				2016/06/15		product family		XCEDE	
surface		linear		0.X		±0.2		0.XX								±0.10		0.XXX				±0.050		MODULE ASSEMBLY		VERTICAL HEADER, 8-COLUMN, 3-PAIR	
ASME Y14.5		angular		0°		±2°		Amphenol FCI		cat. no.		-		Product		Customer Drw		sheet 2 of 8									

PDS: Rev :C

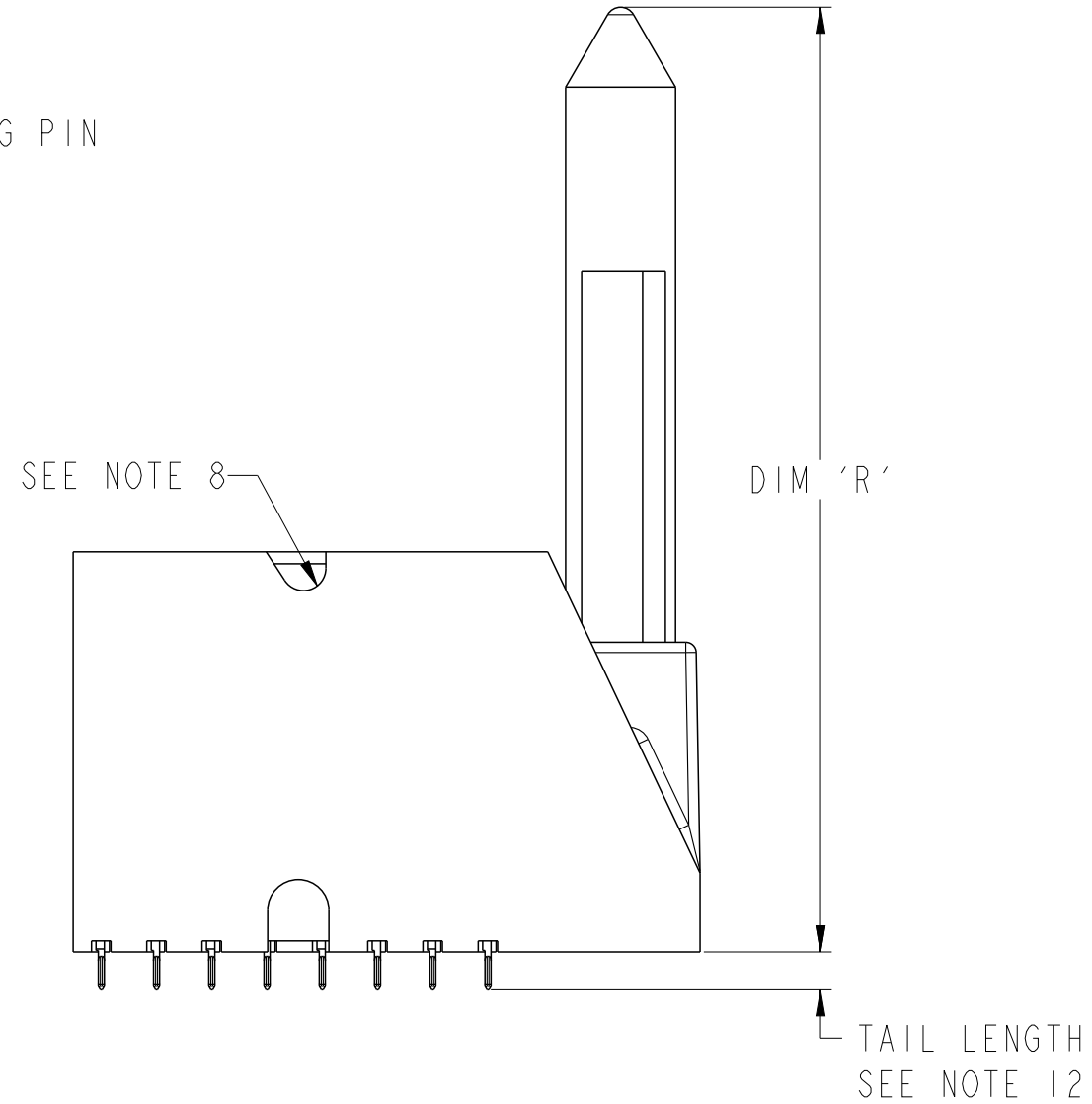
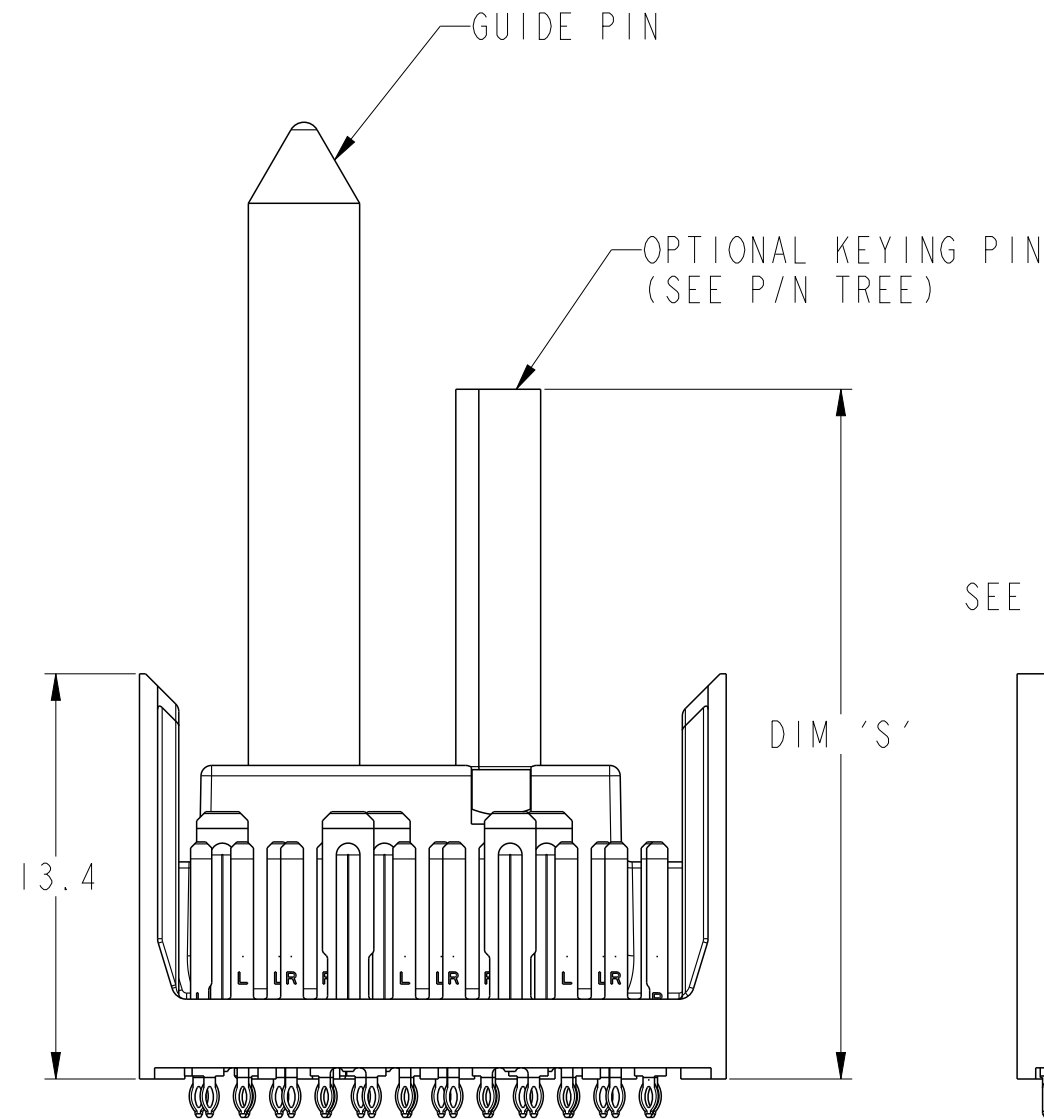
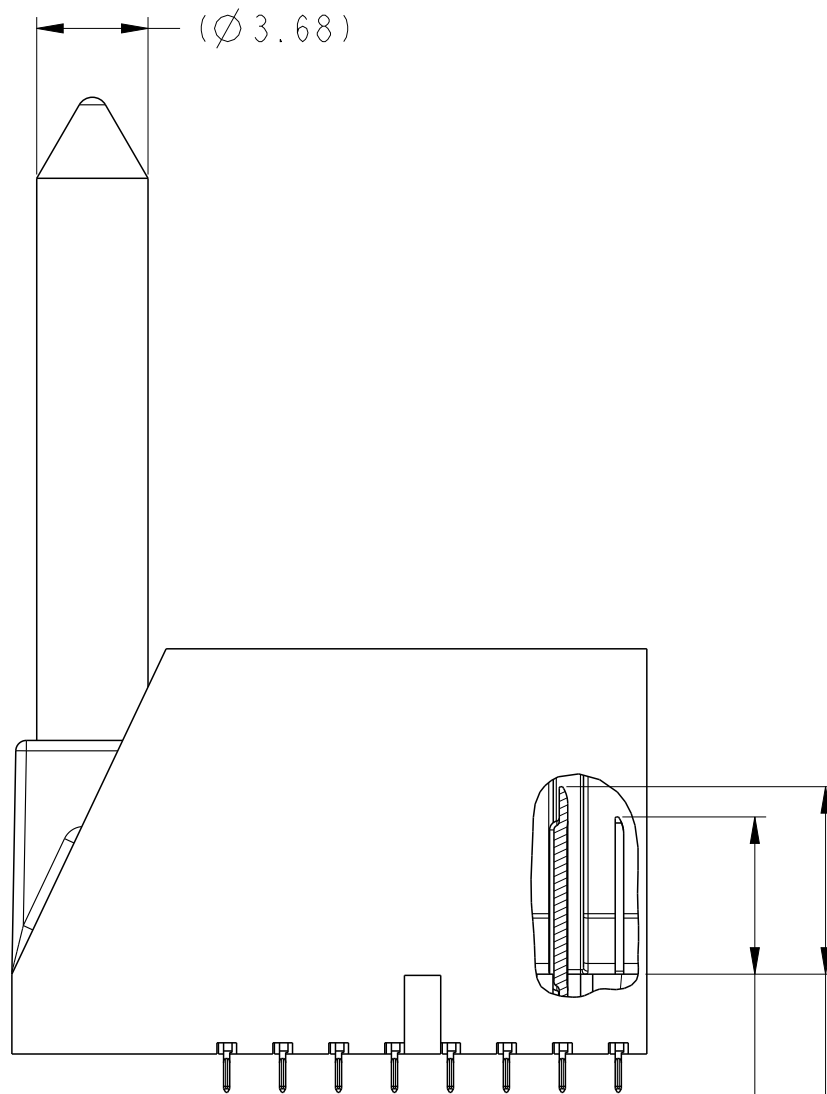
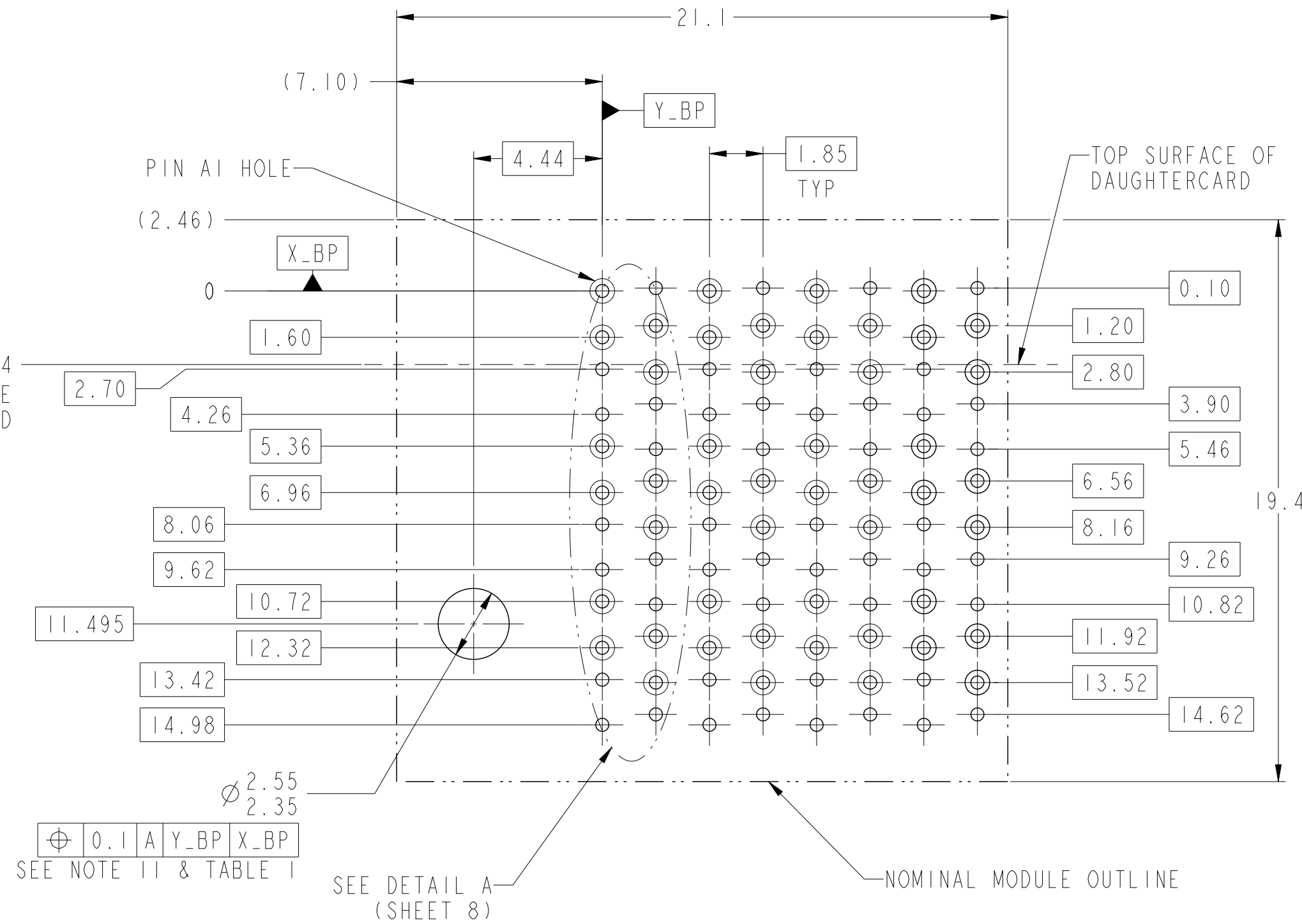
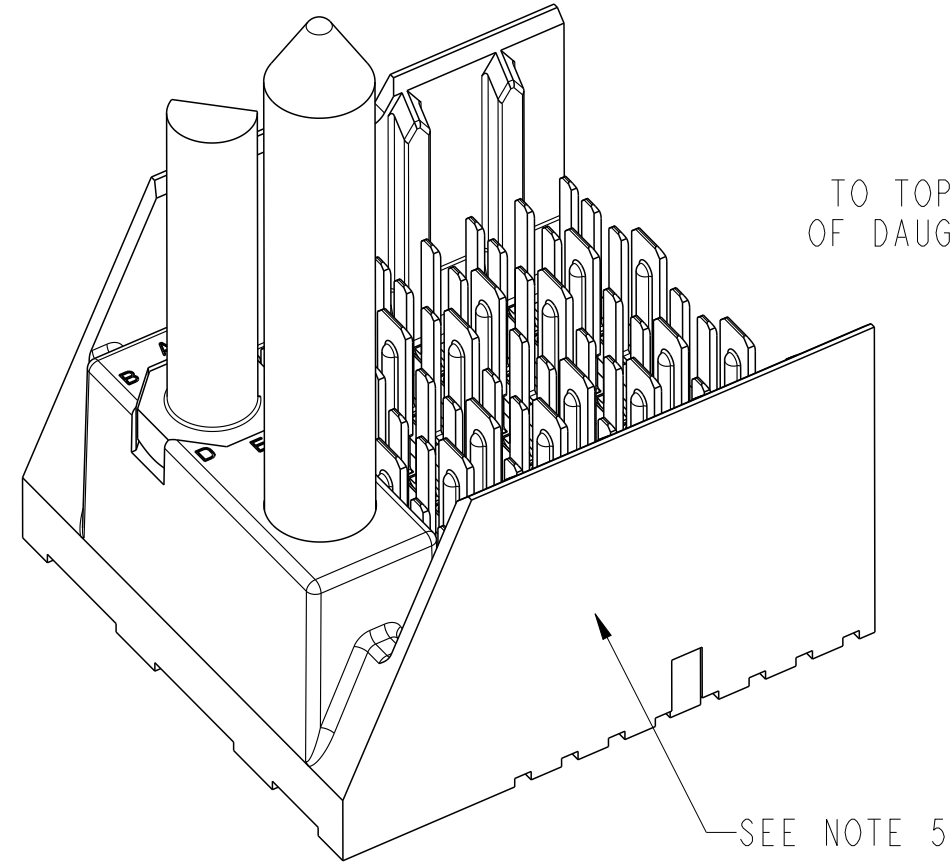
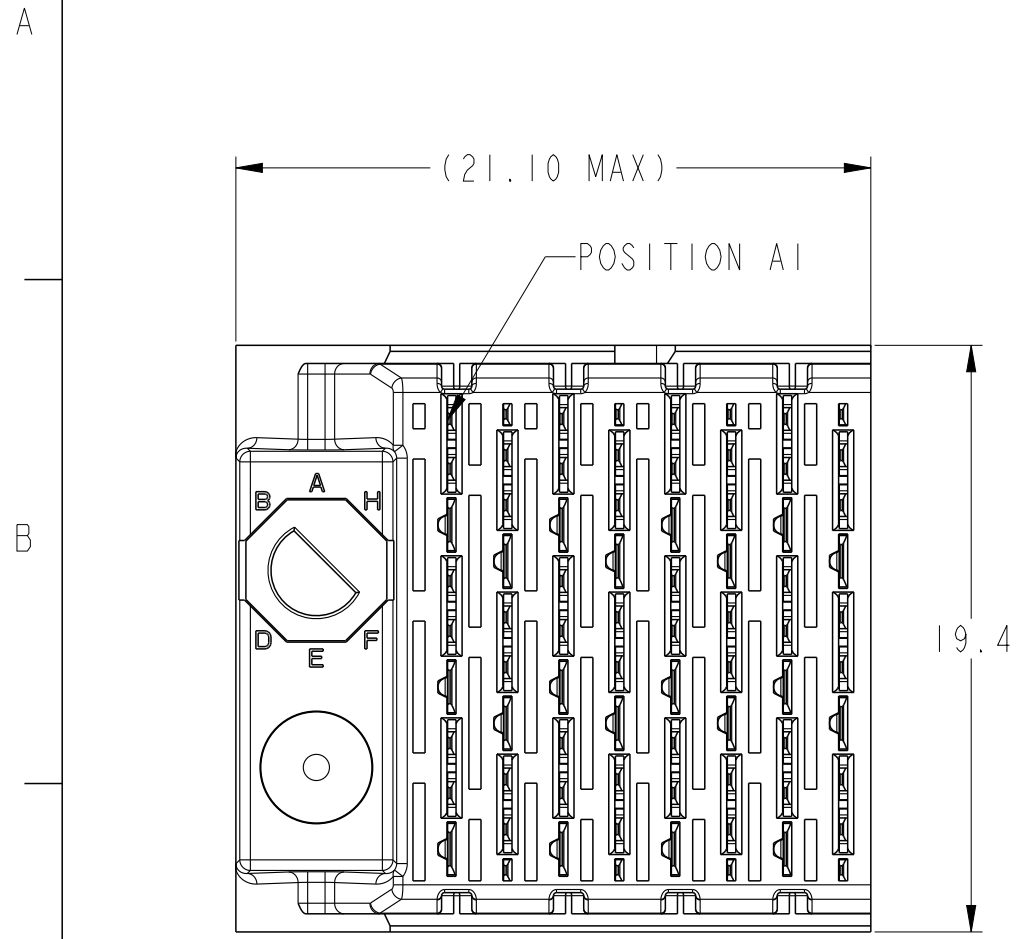
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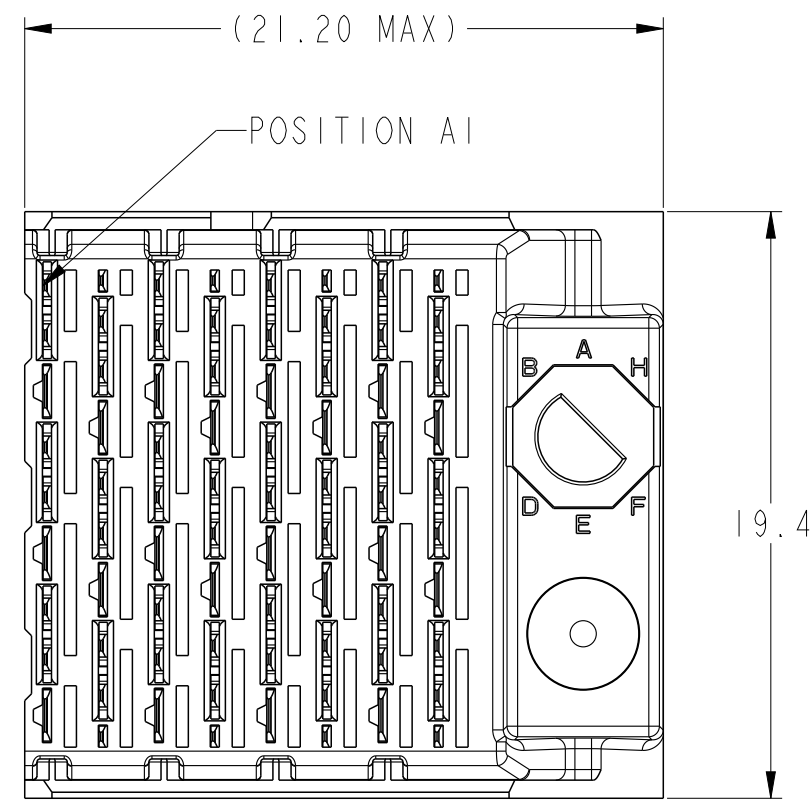
LEFT POLARIZING/GUIDE MODULE



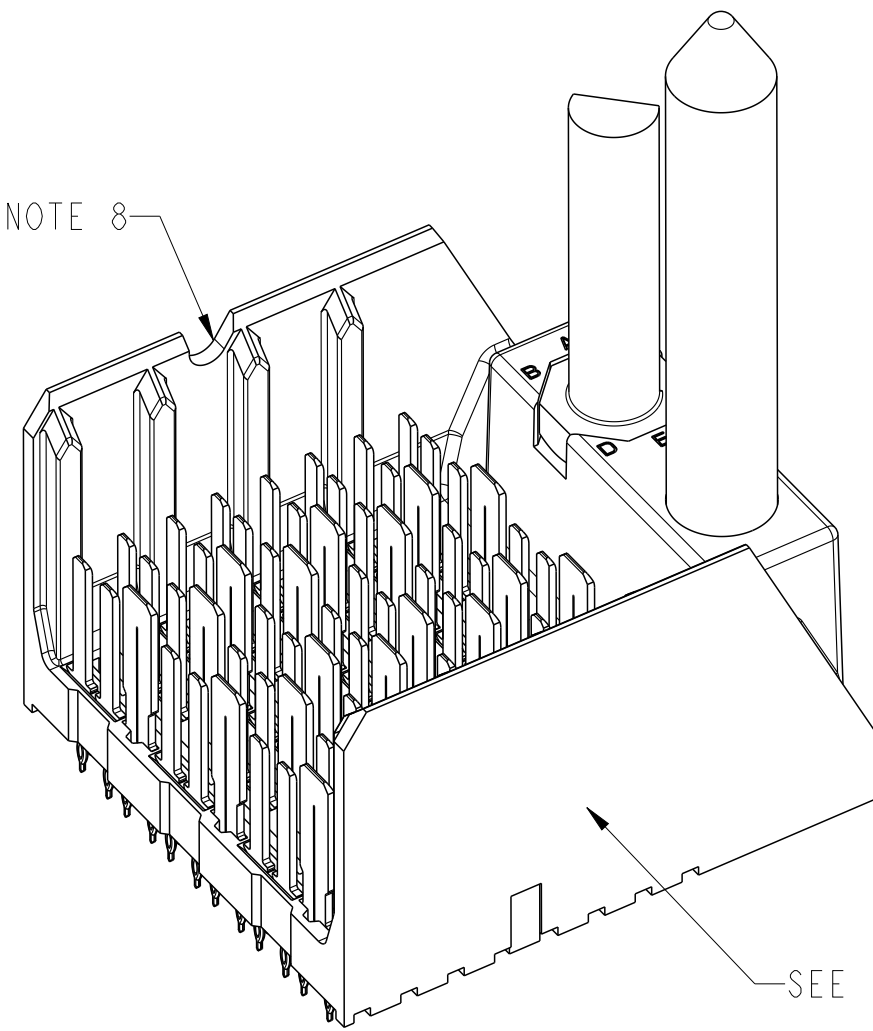
ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

spec ref			-		dr		Roger Ng		2011/11/22		projection		MM		size		A2		scale		5:1	
tolerance std			-		eng		Michael Song		2016/06/01						ecn no		ELX-DG-24191-1					
ASME Y14.5			TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen		2016/06/08													
					appr		Pei-Ming Zheng		2016/06/15													
											product family		XCDE		rel level		Released					
surface			linear		0.X		±0.2		Amphenol FCi		title		MODULE ASSEMBLY		dwg no		10119191		rev			
					0.XX		±0.10															
ASME Y14.5			angular		0°		±2°															
											cat. no.		-		Product - Customer Drw		sheet 3 of 8					

RIGHT POLARIZING/GUIDE MODULE



SEE NOTE 8



2.54
TO TOP SURFACE
OF DAUGHTERCARD

PIN A1 HOLE

(2.46)

(0.73)

X_BP

Y_BP

1.85
TYP

TOP SURFACE OF
DAUGHTERCARD

2.70

4.26

8.06

9.62

13.42

14.98

1.60

5.36

6.96

10.72

12.32

11.92

13.52

14.62

17.76

0.10

1.20

2.80

3.90

5.46

6.56

8.16

9.26

10.82

11.495

Ø 2.55

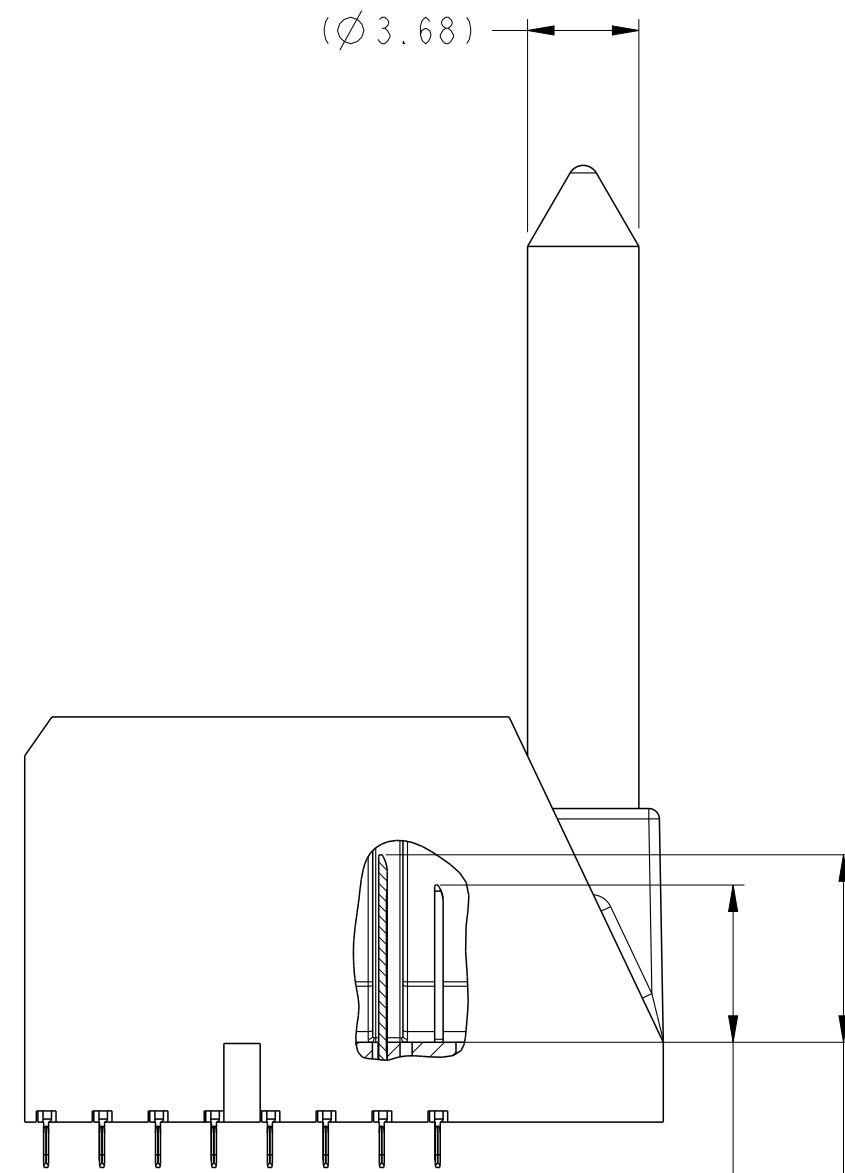
2.35

Ø 0.1 X_BP Y_BP

SEE NOTE 11 & TABLE 1

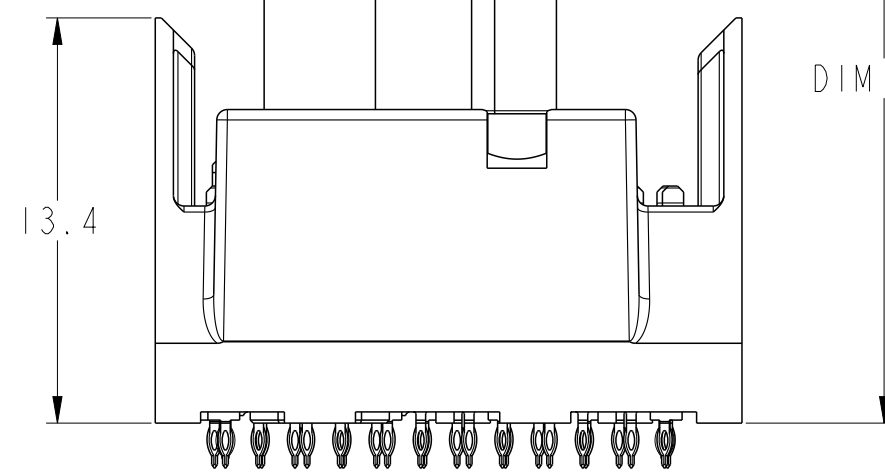
NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

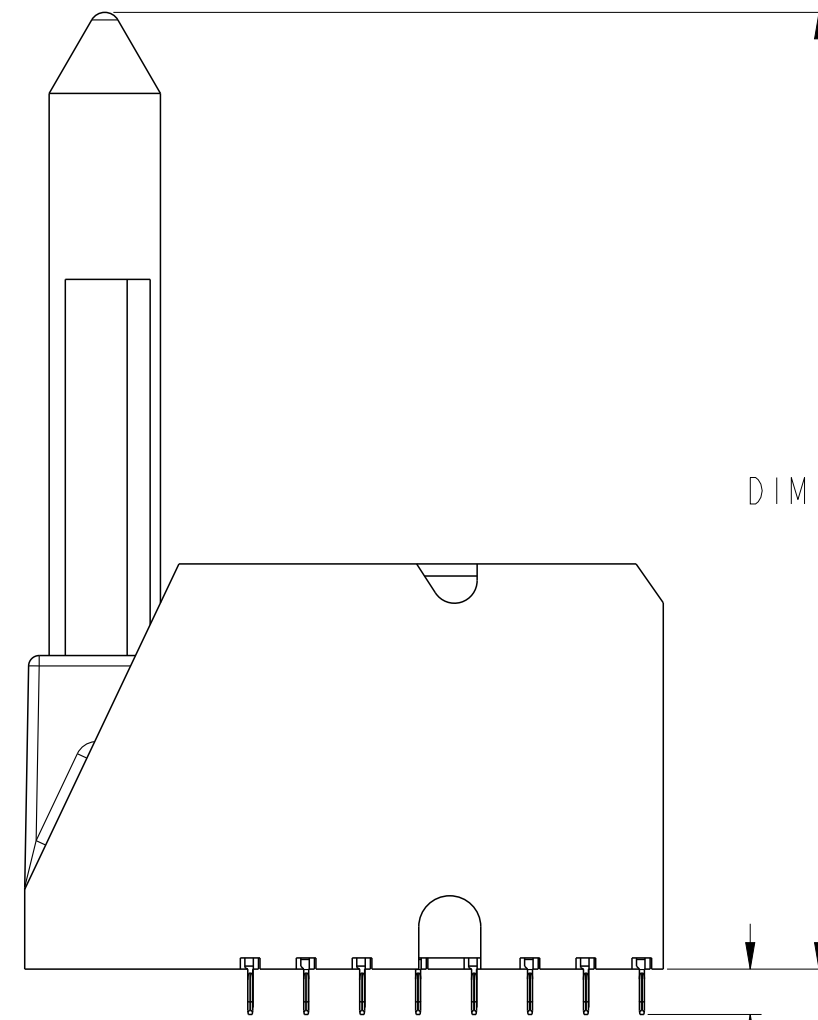


GUIDE PIN

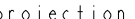
OPTIONAL KEYING PIN
(SEE P/N TREE)



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

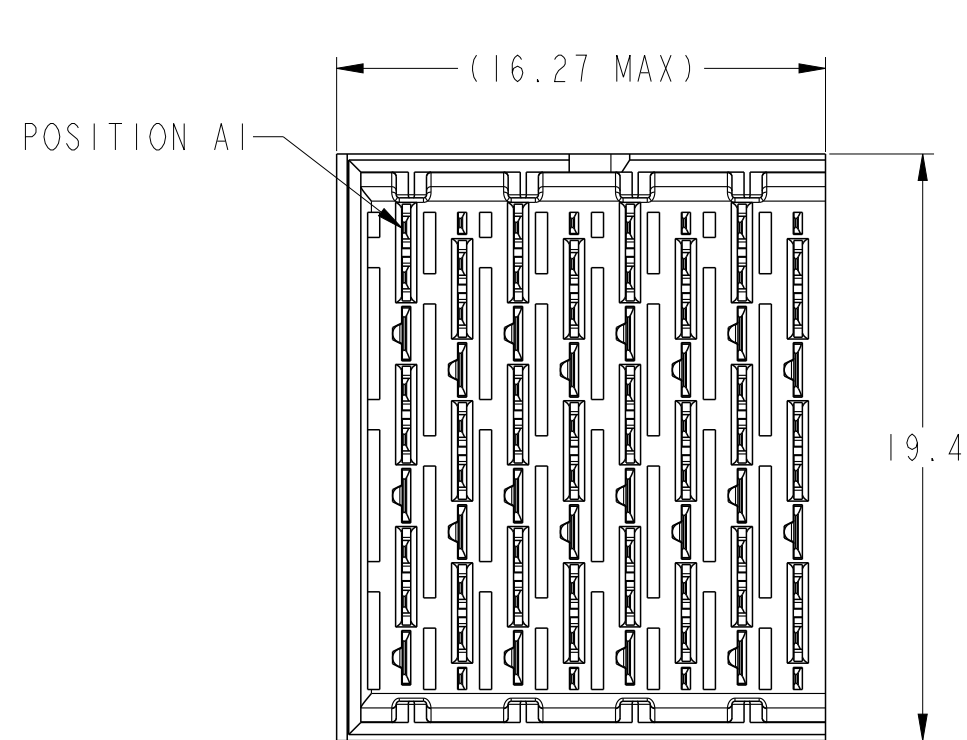
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tolerance std		-		eng		Michael Song		2016/06/01				XCDE		ecn no		ELX-DG-24191-1		Released					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen		2016/06/08						rel level									
				appr		Pei-Ming Zheng		2016/06/15															
surface		linear		0.X		±0.2		Amphenol FCi		title		MODULE ASSEMBLY		dwg no		10119191		rev		C			
		0.XX		±0.10		VERTICAL HEADER, 8-COLUMN, 3-PAIR																	
		0.XXX		±0.050																			
ASME Y14.5		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 4 of 8									

PDS: Rev :C

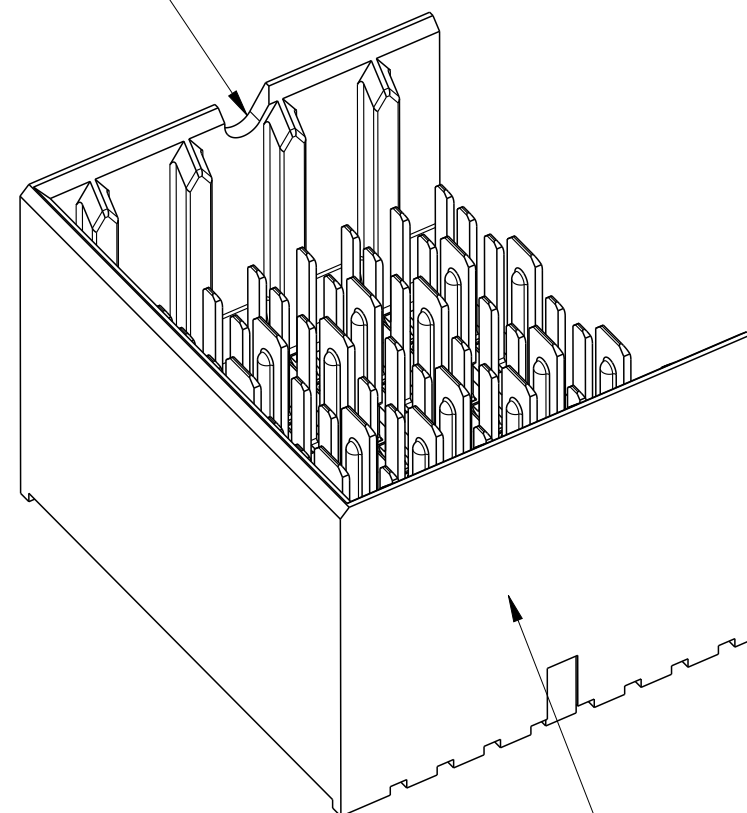
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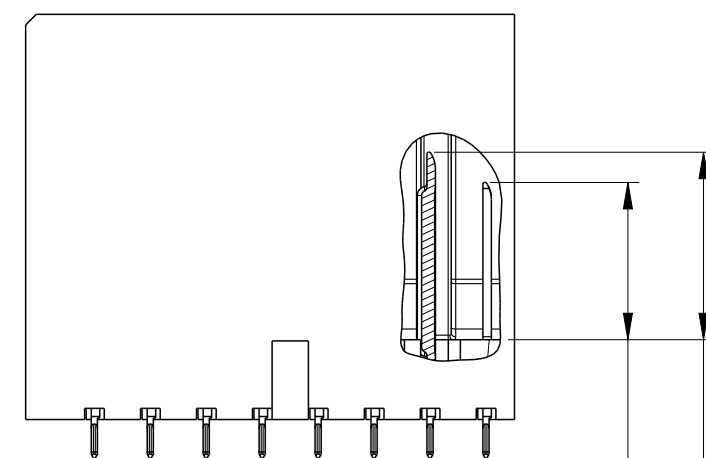
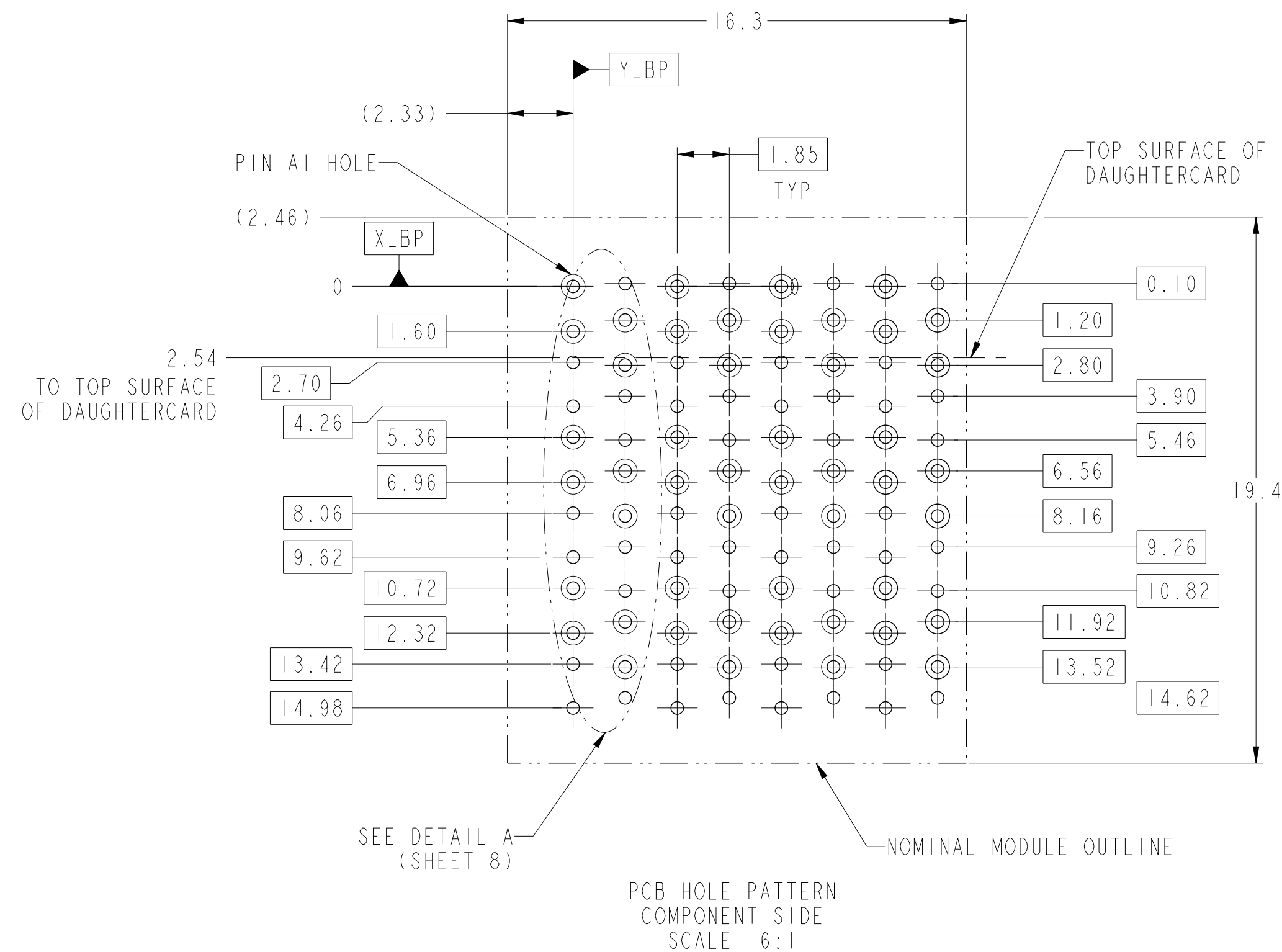
LEFT WALL MODULE



SEE NOTE 8

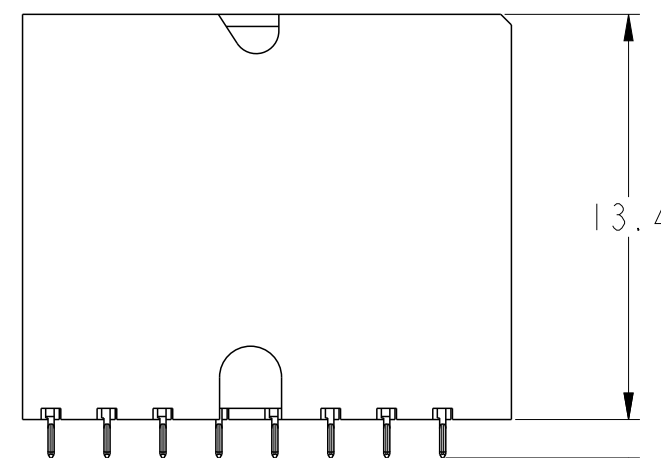
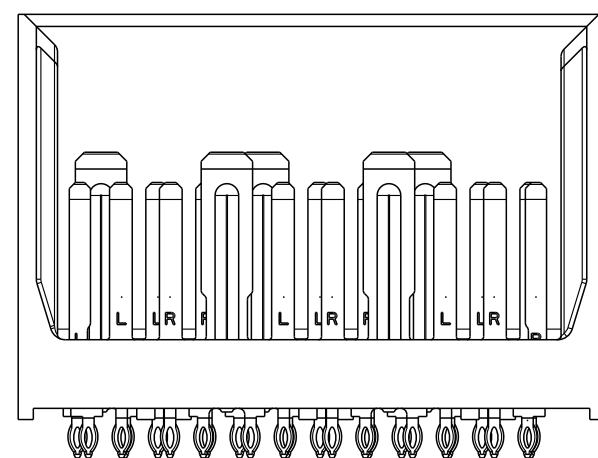


SEE NOTE 5

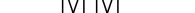


5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

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



TAIL LENGTH
SEE NOTE 12

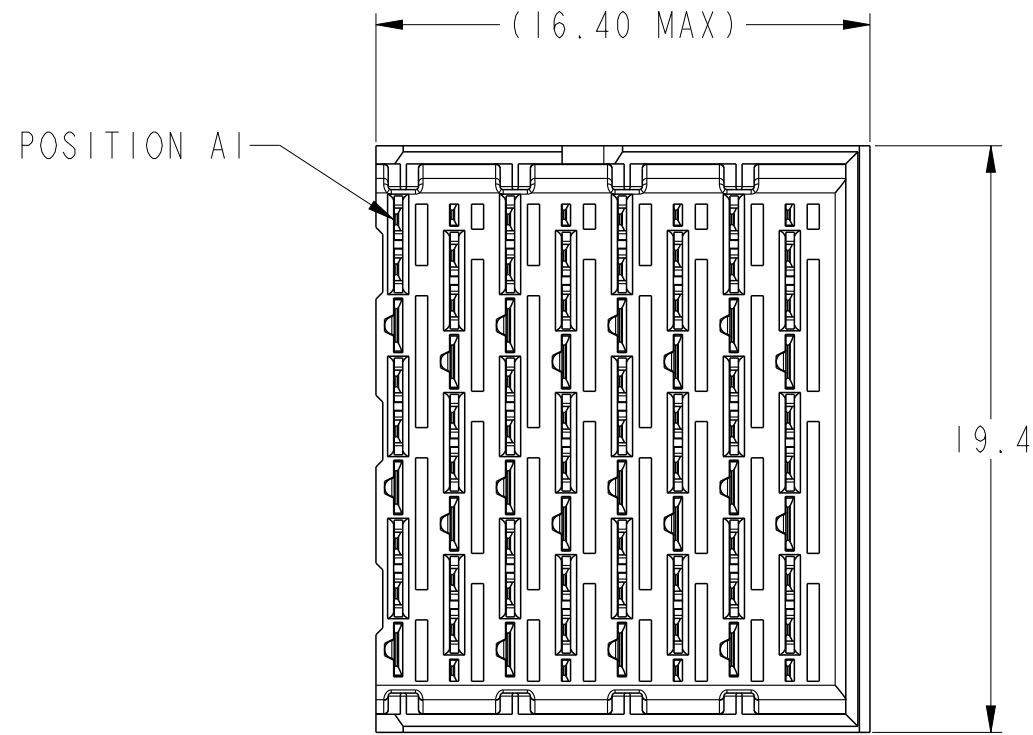
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/01						A2		4:1	
chr				Heaven Cen		2016/06/08		ecn no						ELX-DG-24191-1			
ASME Y14.5				appr		Pei-Ming Zheng		2016/06/15						product family		XCEDE	
surface		linear		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10119191		rev			
		0.X														±0.2	
		0.XX														±0.10	
ASME Y14.5		angular						cat. no.		-		Product - Customer Drw		sheet 5 of 8			
								VERTICAL HEADER, 8-COLUMN, 3-PAIR								C	

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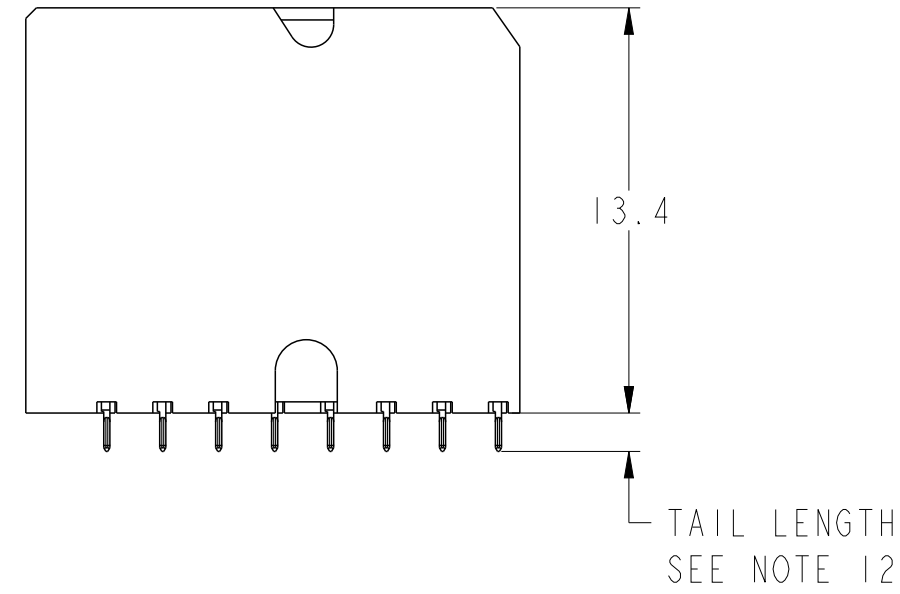
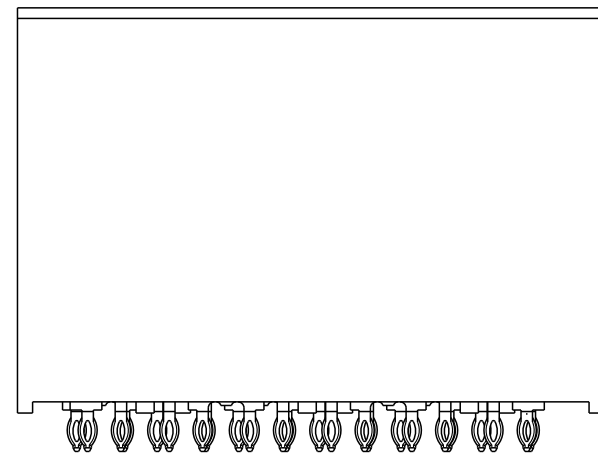
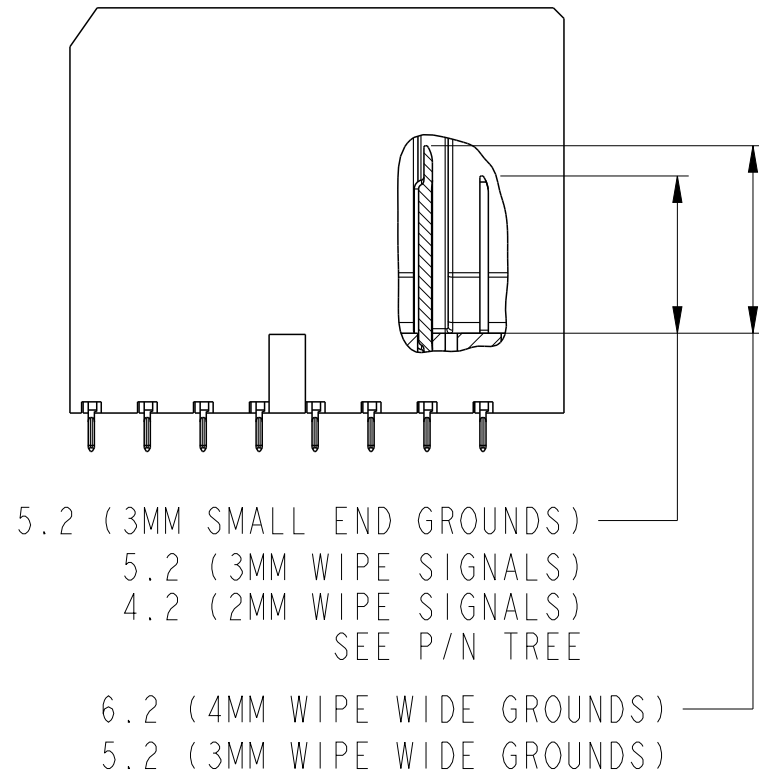
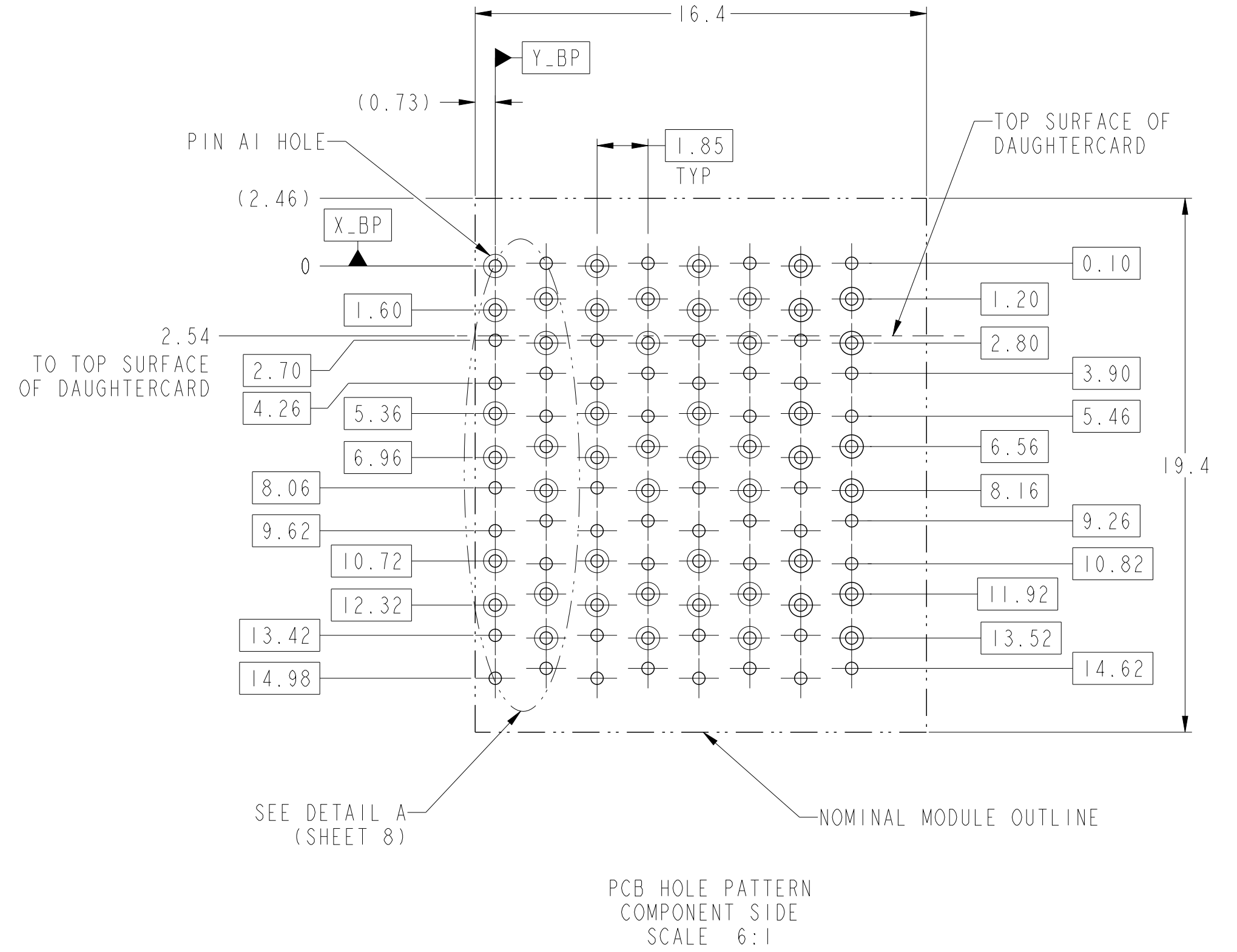
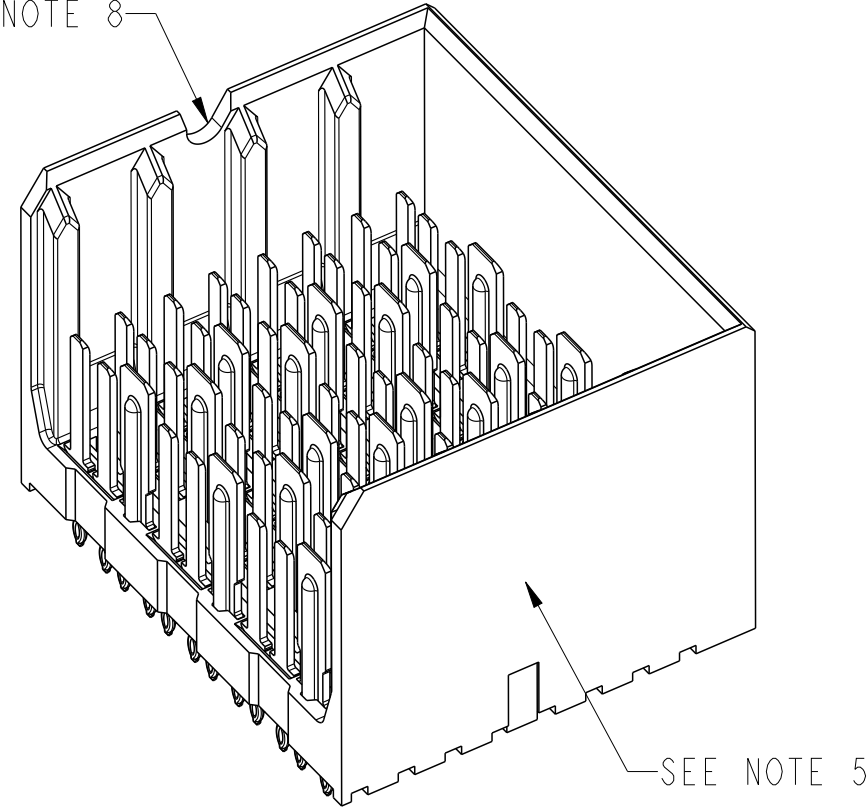
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RIGHT WALL MODULE



SEE NOTE 8



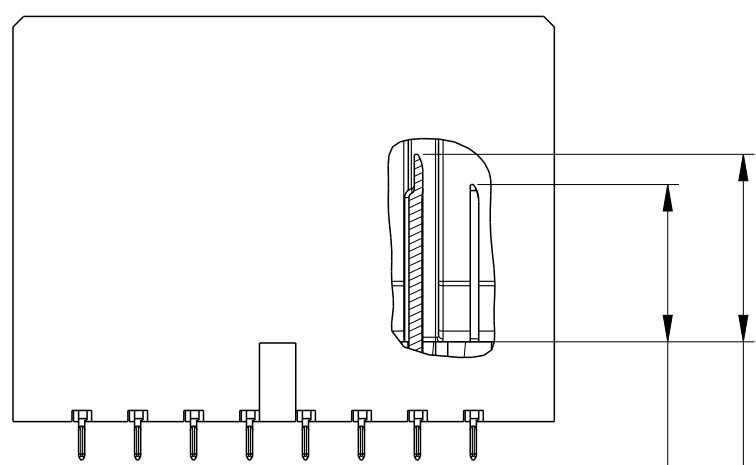
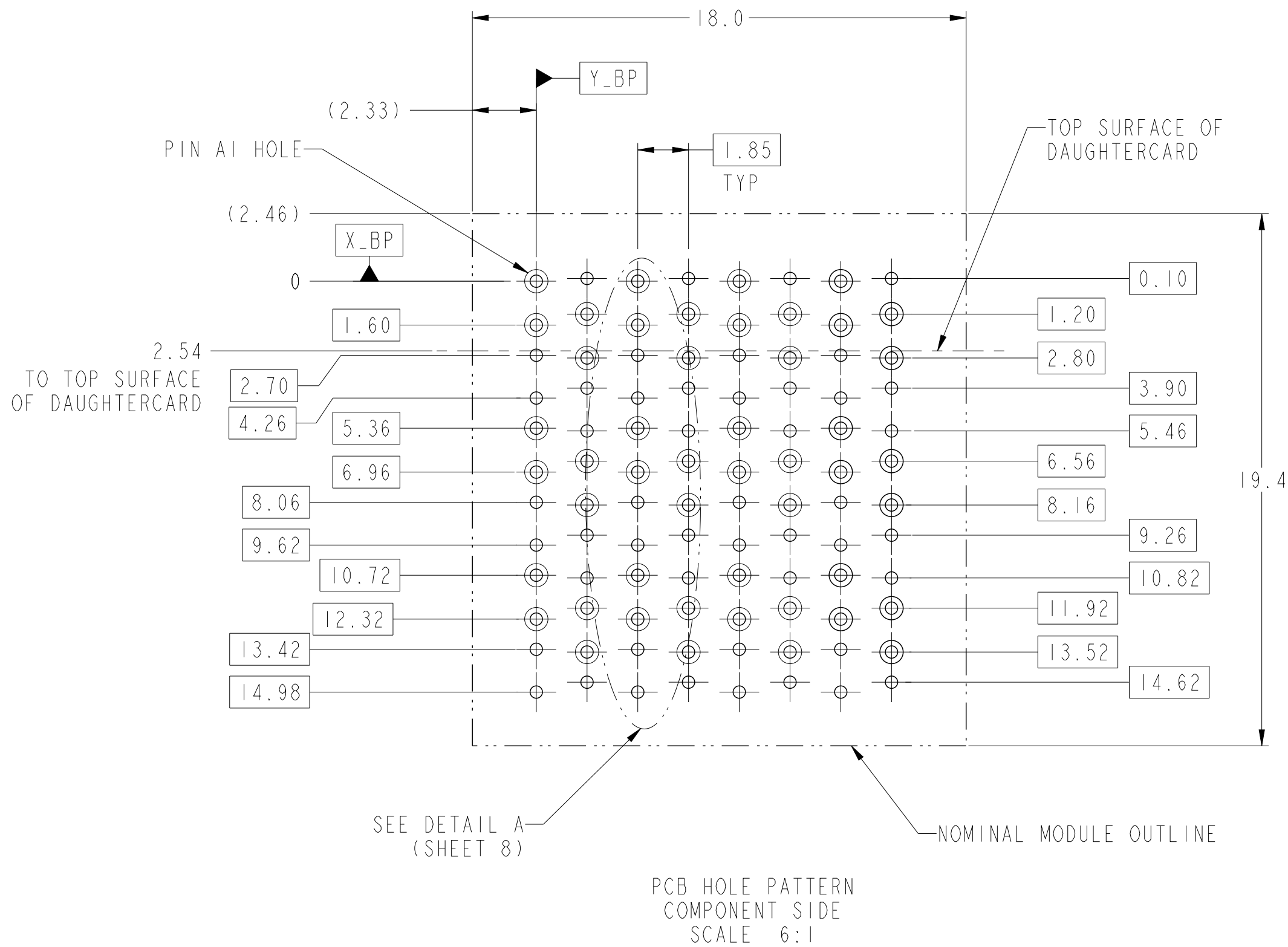
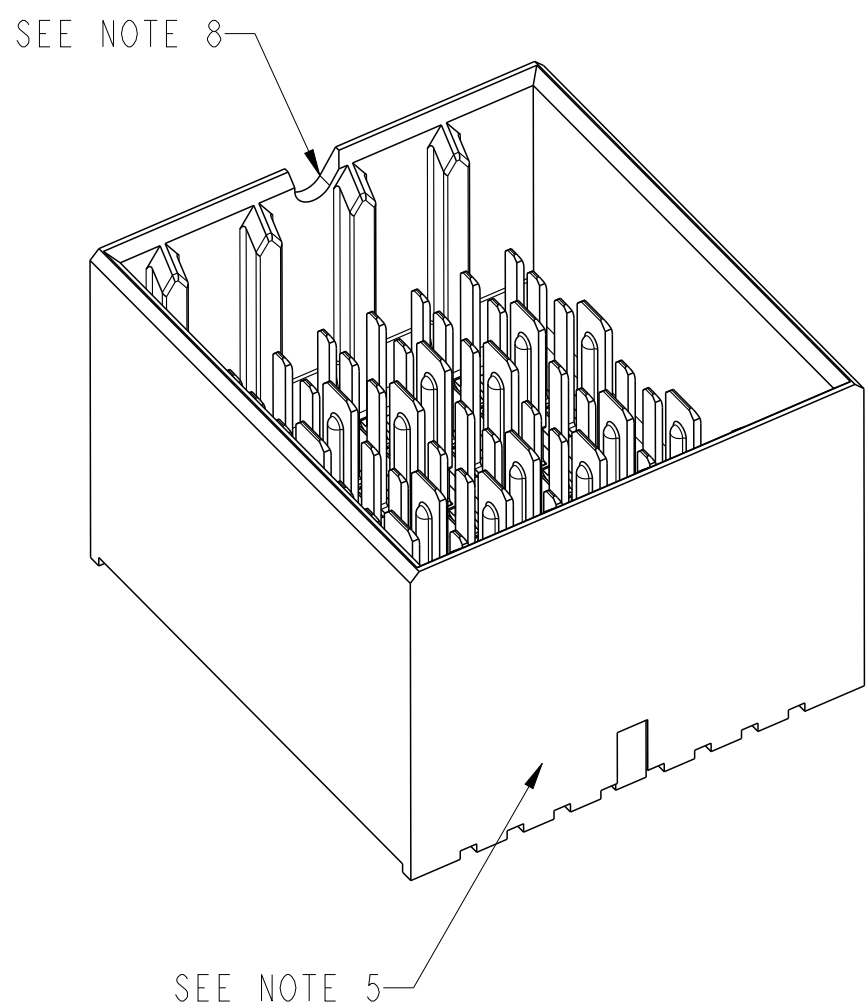
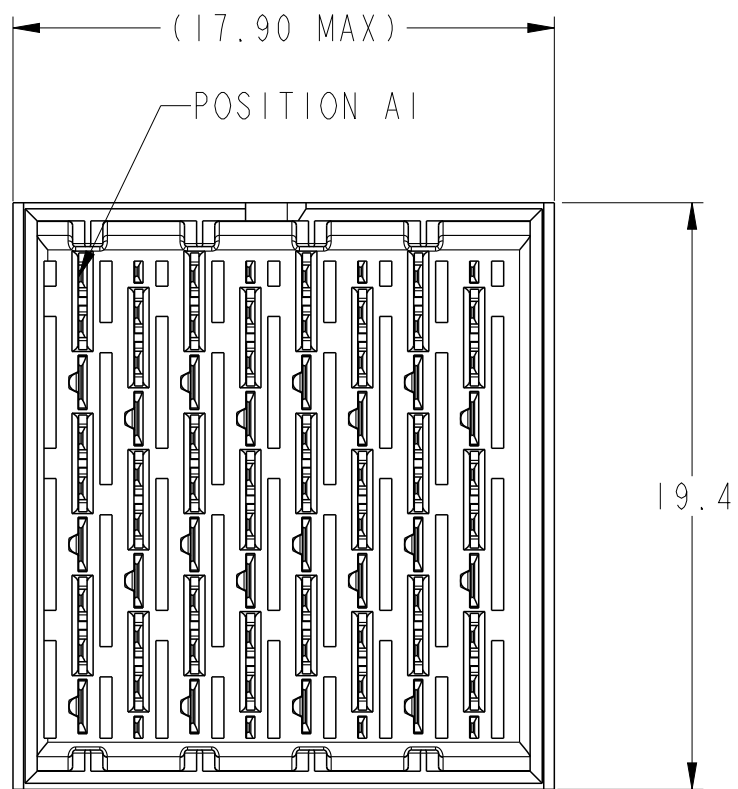
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tolerance std		-	eng		Michael Song	2016/06/01							ecn no		ELX-DG-24191-1				
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen							2016/06/08	rel level		Released			
				appr		Pei-Ming Zheng							2016/06/15	product family		XCEDE			
surface		linear	0.X	±0.2	Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10119191		rev		C		
			0.XX	±0.10															
			0.XXX	±0.050															
ASME Y14.5		angular	0°	±2°			cat. no.		-	Product - Customer Drw		sheet 6 of 8							

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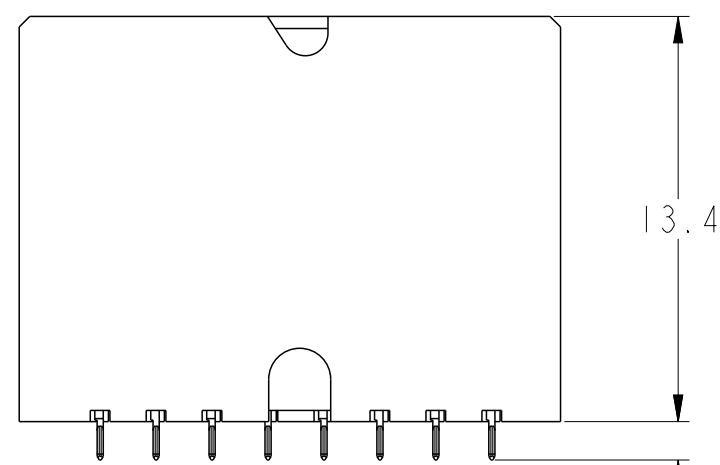
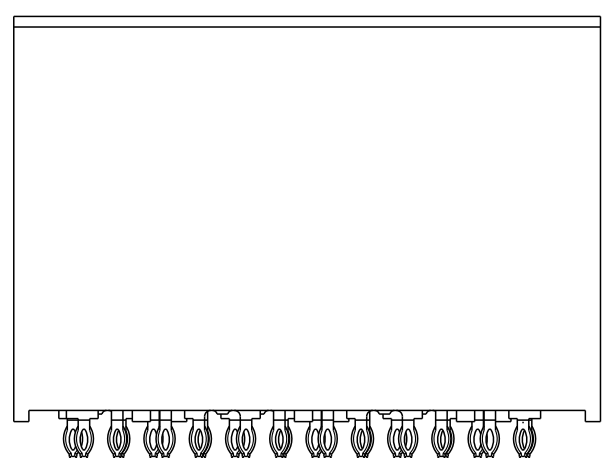
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FOUR WALL MODULE



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		-		eng	Michael Song	2016/06/01				ecn no	ELX-DG-24191-1			
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2016/06/08					rel level	Released		
				appr	Pei-Ming Zheng	2016/06/15	product family		XCEDE					
surface		linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY			dwg no	10119191		rev	C
			0.XX	±0.10										
			0.XXX	±0.050										
ASME Y14.5		angular	0°	±2°	cat. no.		-	Product - Customer Drw			sheet 7 of 8			

PDS: Rev :C

STATUS:Released

Printed: Jun 15, 2016

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.

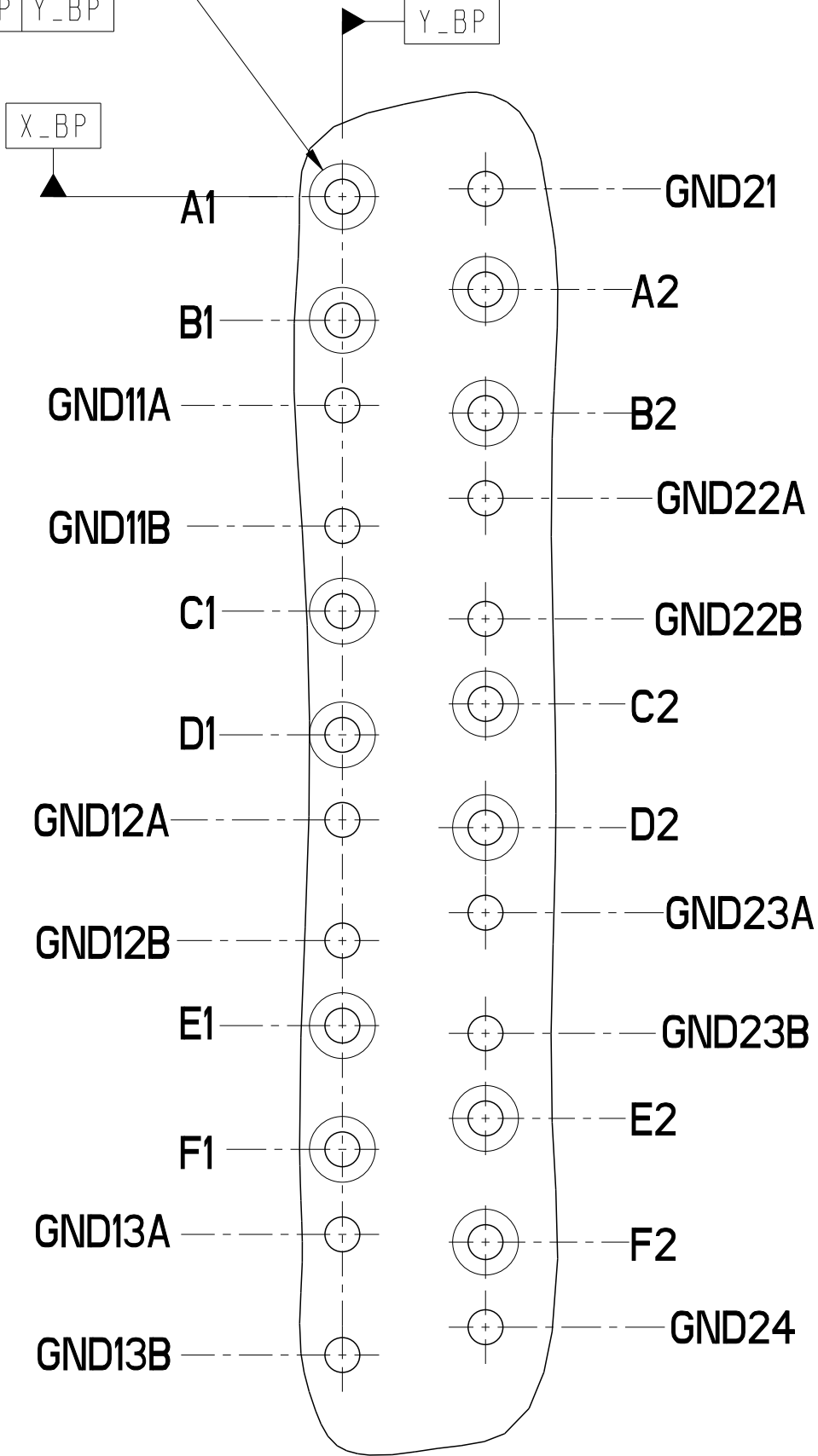
PRESS-FIT TAILS: TIN OVER NICKEL (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). SEE P/N TREE.
3. PRODUCT SPECIFICATION: GS-12-588
4. APPLCATION SPECIFICATION: GS-20-121
5. PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
6. HOUSING MUST WITHSAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS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

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	3:1
tolerance std	-	eng	Michael Song	2016/06/01			ecn no	ELX-DG-24191-1	rel level	Released
ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Heaven Cen	2016/06/08						
		appr	Pei-Ming Zheng	2016/06/15						
surface	linear	0.X	±0.2	Amphenol FCi	title	MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 3-PAIR	cat. no.	Product - Customer Drw	sheet 8 of 8	rev
ASME Y14.5	angular	0.XX	±0.10							
		0.XXX	±0.050							
		0°	±2°							C

Mouser Electronics

Authorized Distributor

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[FCI / Amphenol:](#)

[10119191-L0E-20DLF](#) [10119191-M0E-20DLF](#) [10119191-00E-20DLF](#) [10119191-J0E-20DLF](#) [10119191-L0E-40DLF](#)
[10119191-L0E-10DLF](#) [10119191-M0E-10DLF](#) [10119191-Y0E-30DLF](#)