

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		VERTICAL HEADER, 8-COLUMN, 3-PAIR															
		0.XXX		±0.050																	
ASME Y14.5		angular		0°		±2°				cat. no.		-		Product - Customer Drw		sheet 1 of 8					

OPEN (2- WALL) MODULE

A

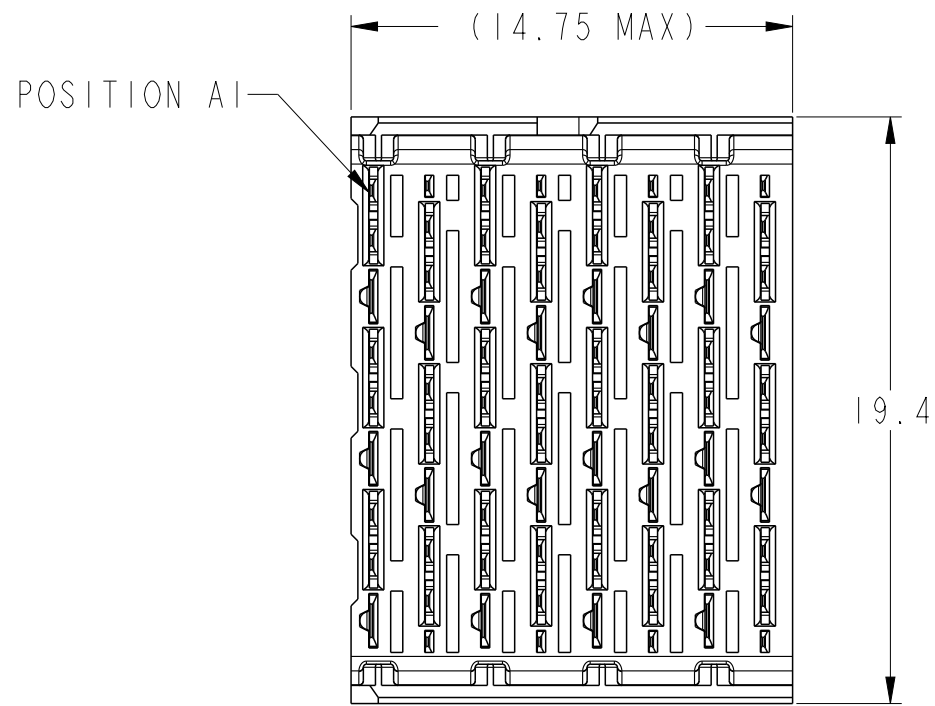
B

C

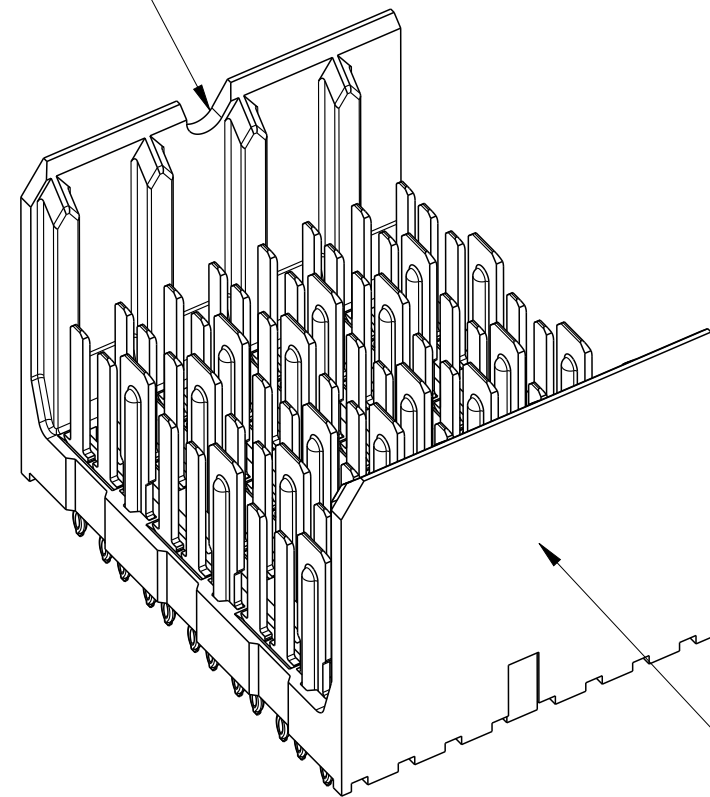
D

E

F

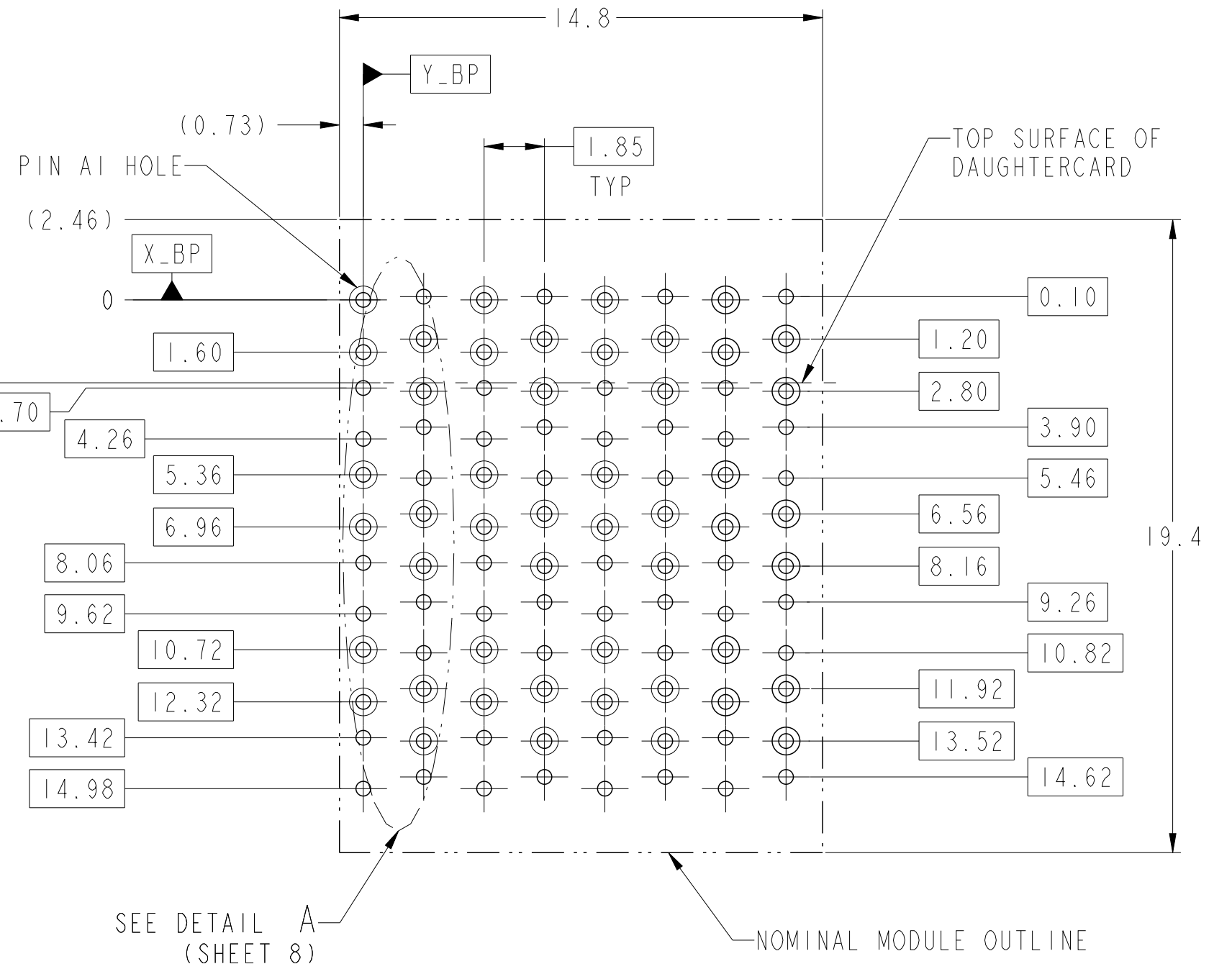


SEE NOTE 8



SEE NOTE 5

2.54
TO TOP SURFACE
OF DAUGHTERCARD

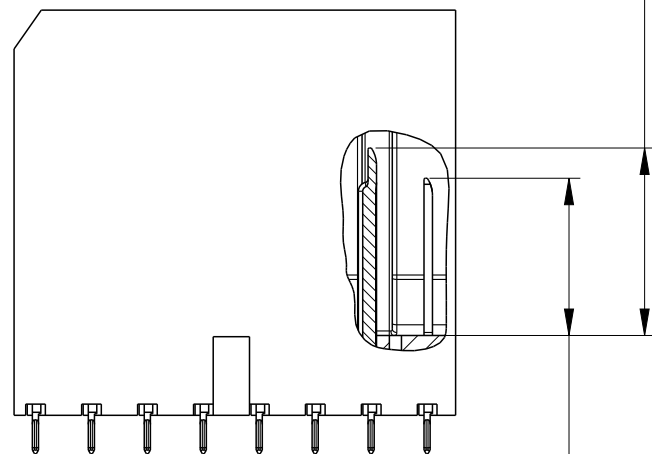


SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

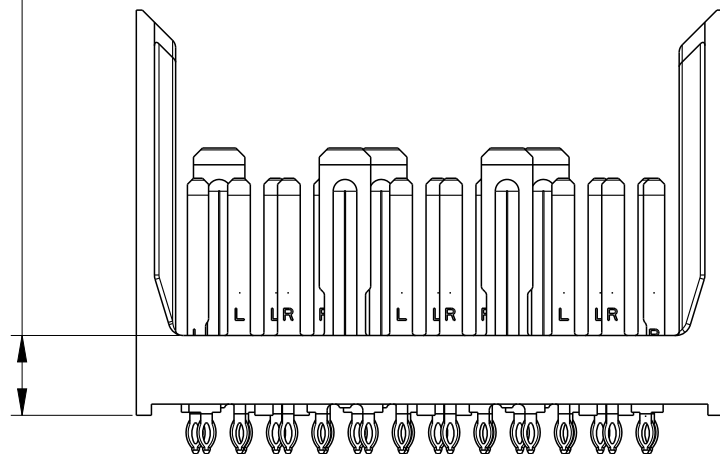
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

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



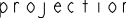
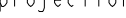
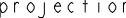

5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



13.40

TAIL LENGTH
SEE NOTE 12

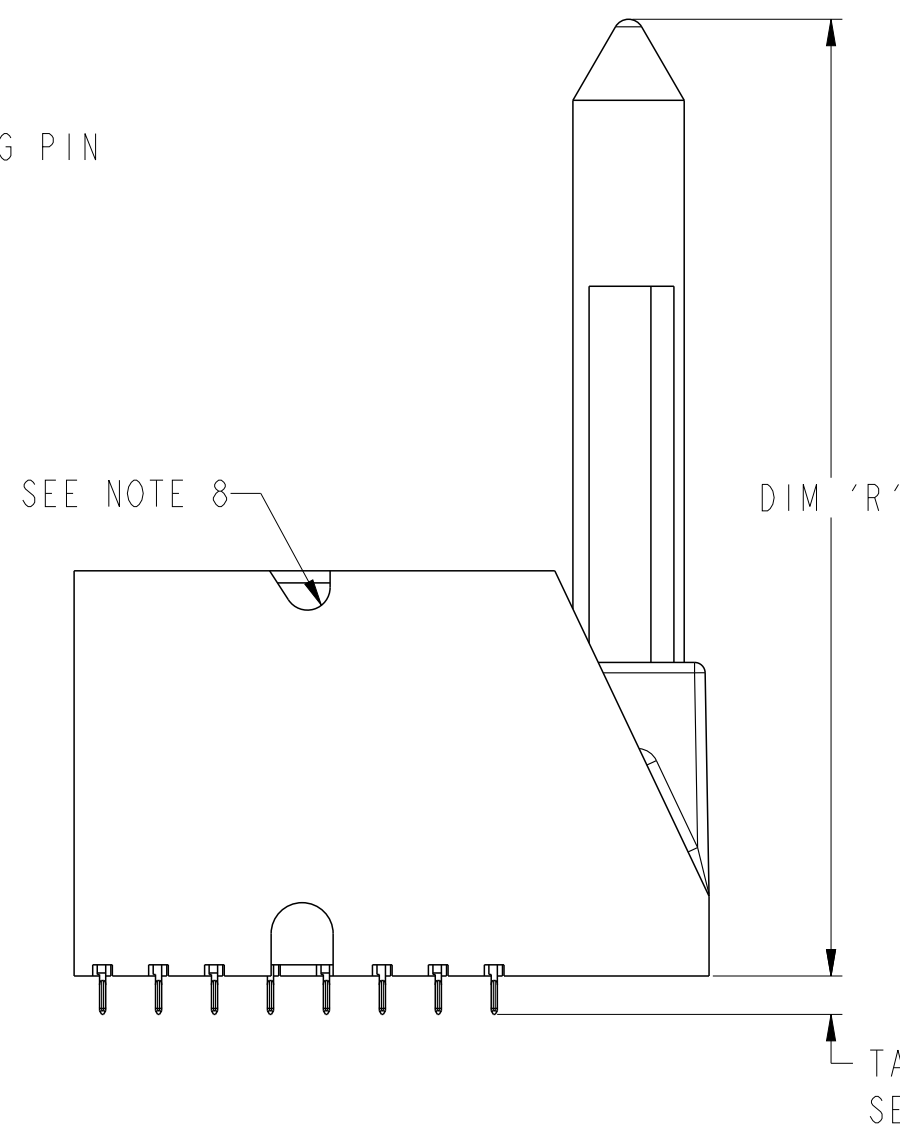
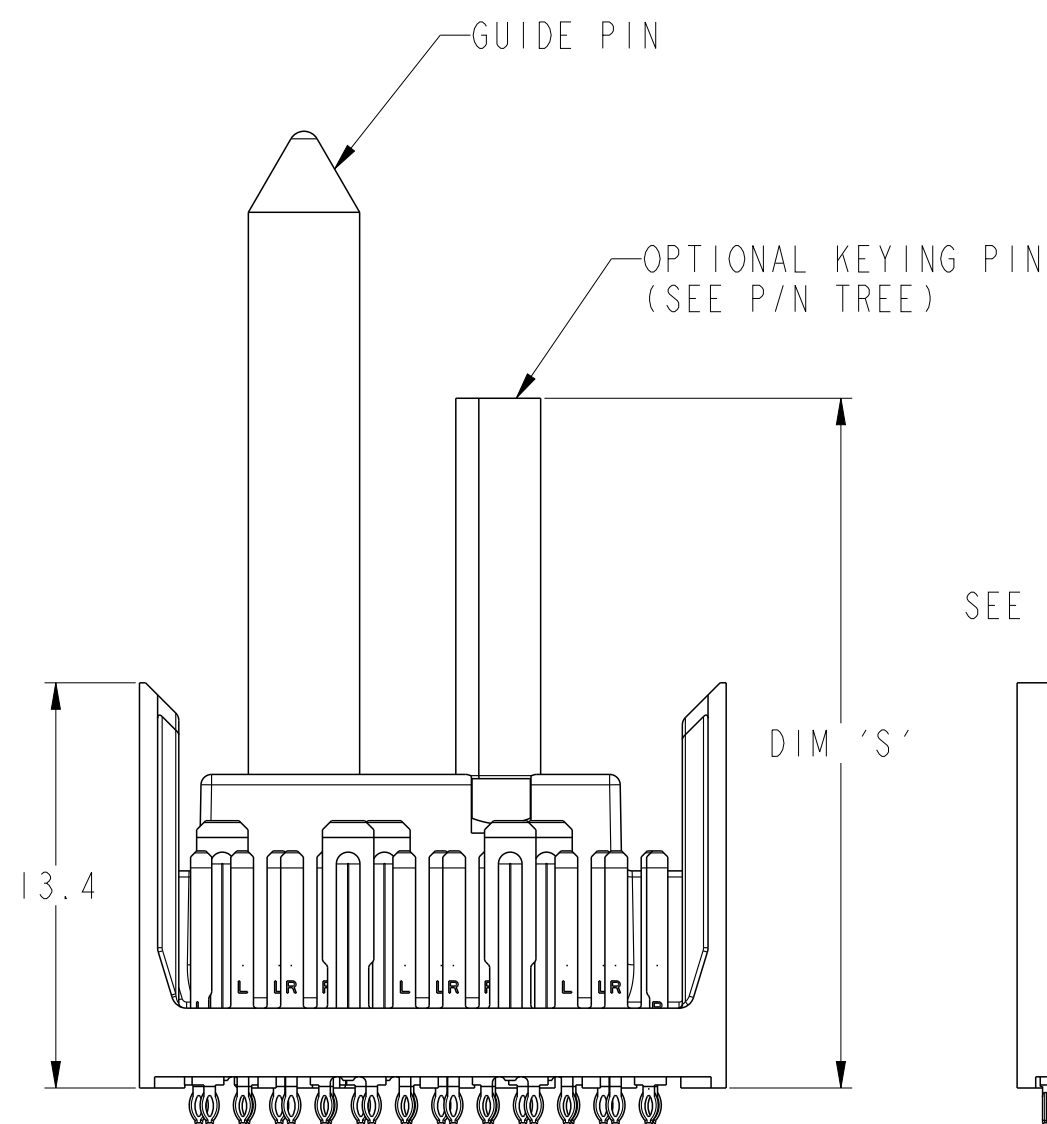
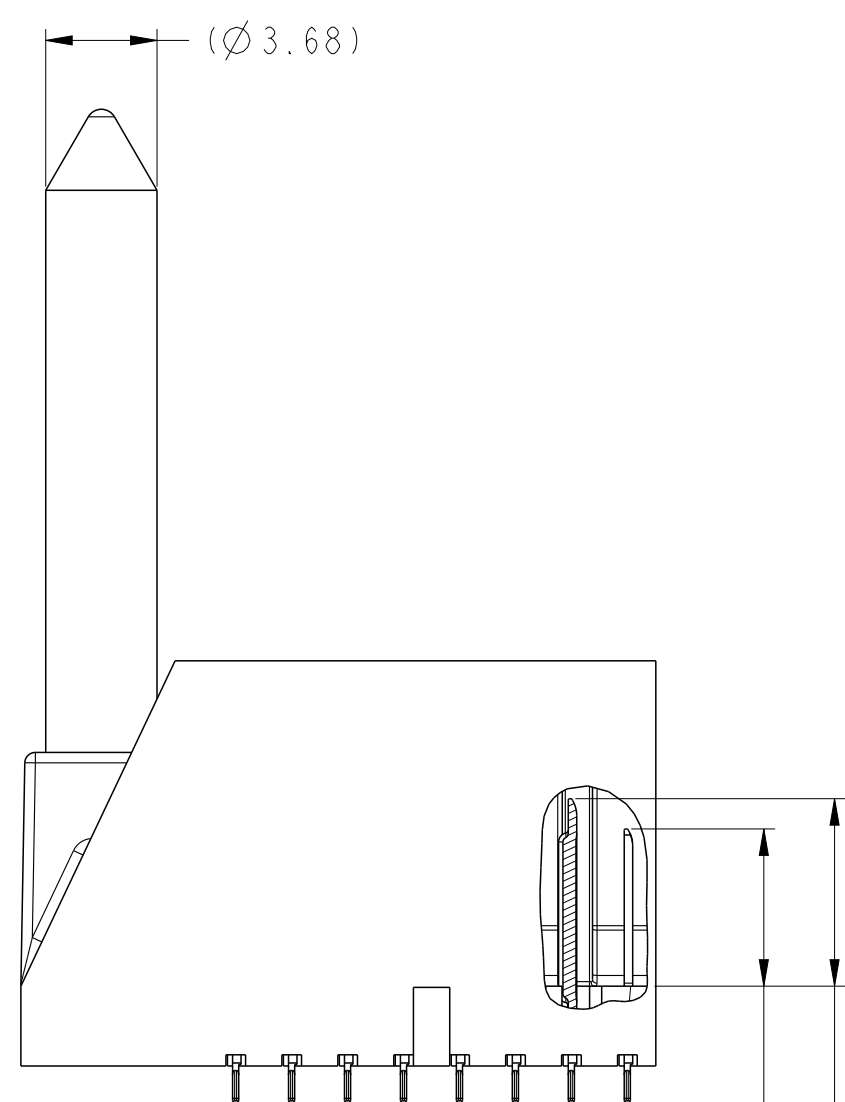
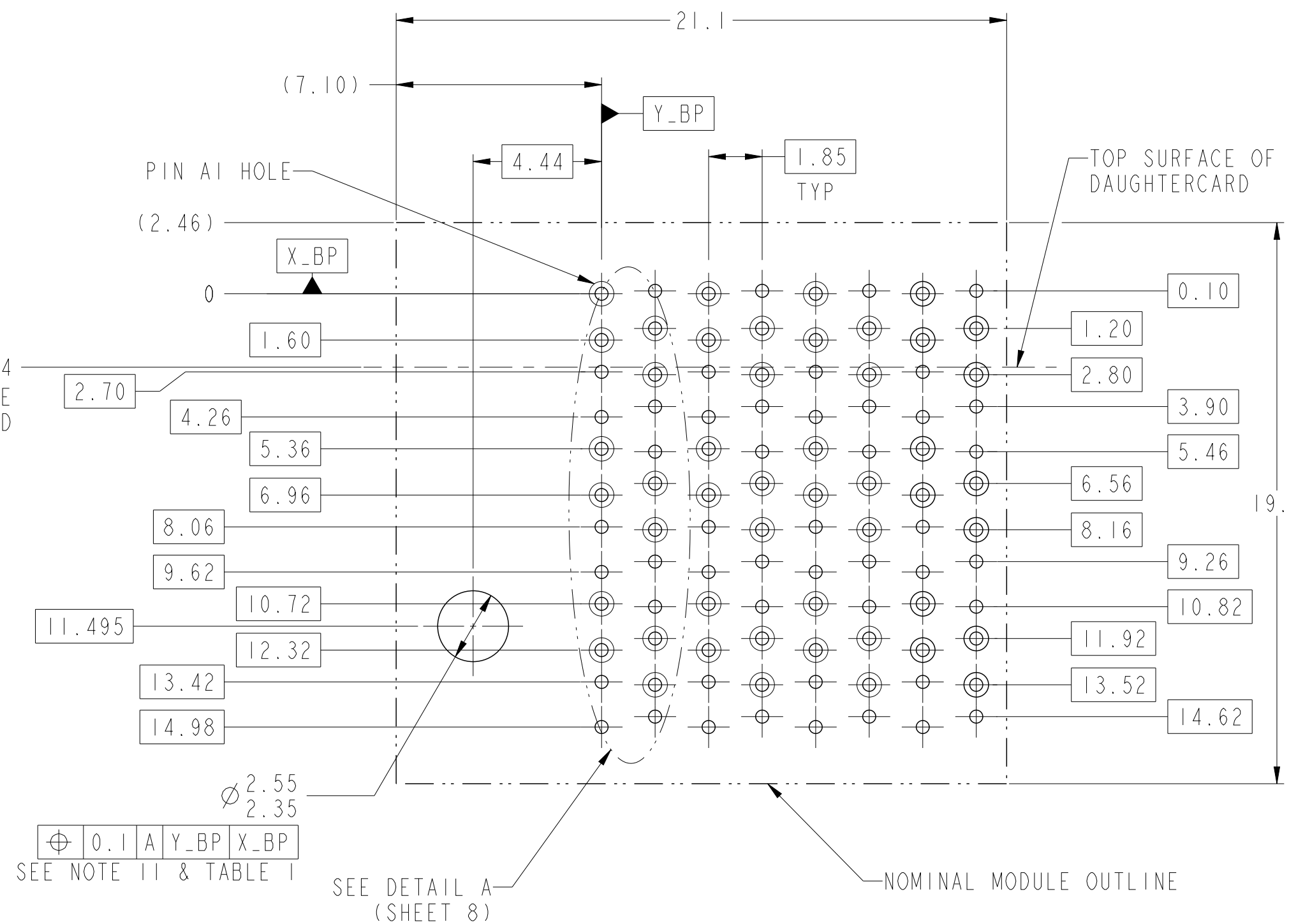
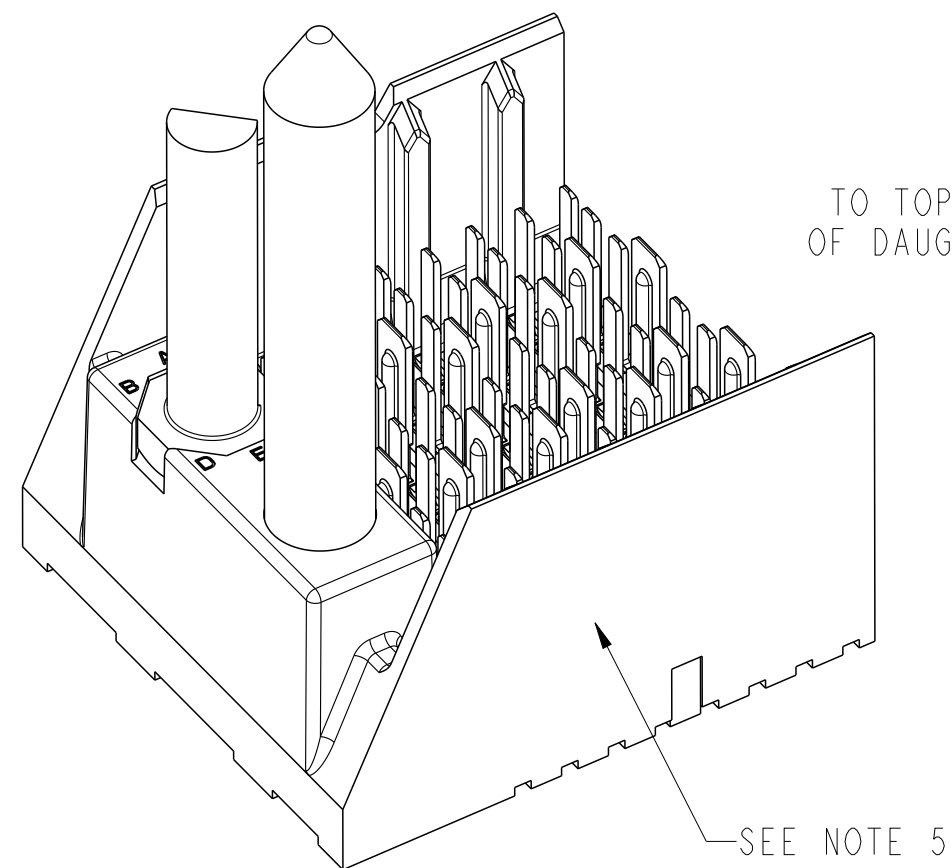
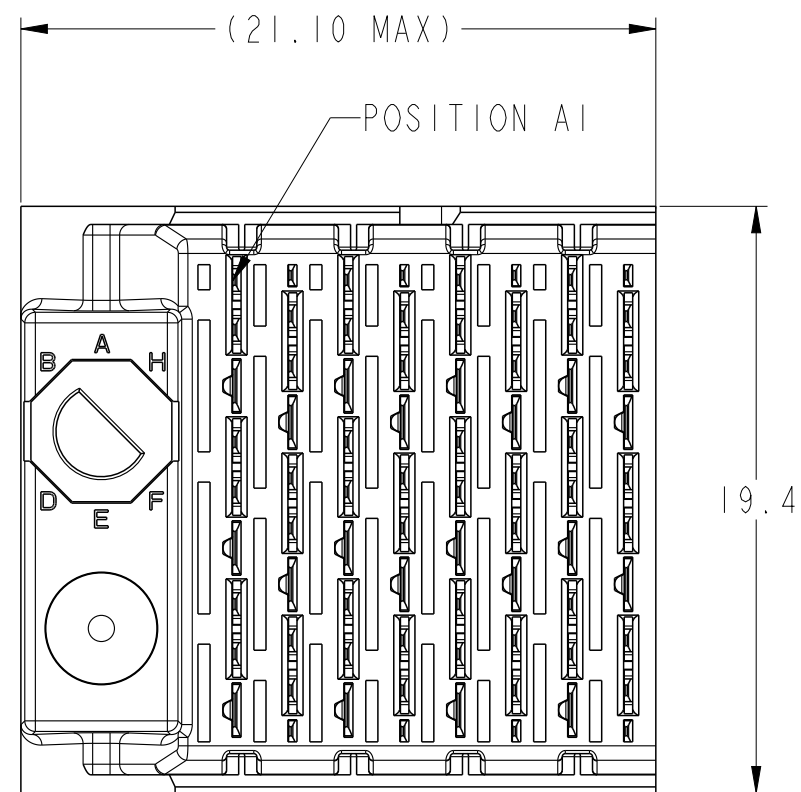
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tolerance std		-		eng		Michael Song		2016/06/01						MM		ecn no		ELX-DG-24191-1		rel level		Released			
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen		2016/06/08								XCODE									
				appr		Pei-Ming Zheng		2016/06/15						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

PDS: Rev :C

STATUS:Released



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LEFT POLARIZING/GUIDE MODULE

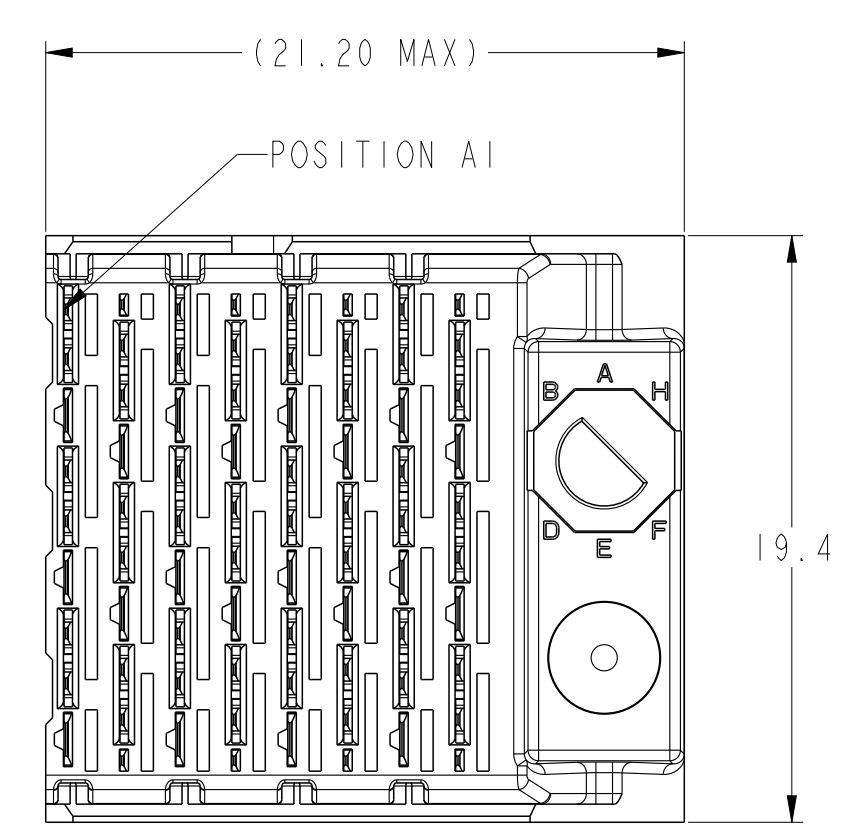


ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

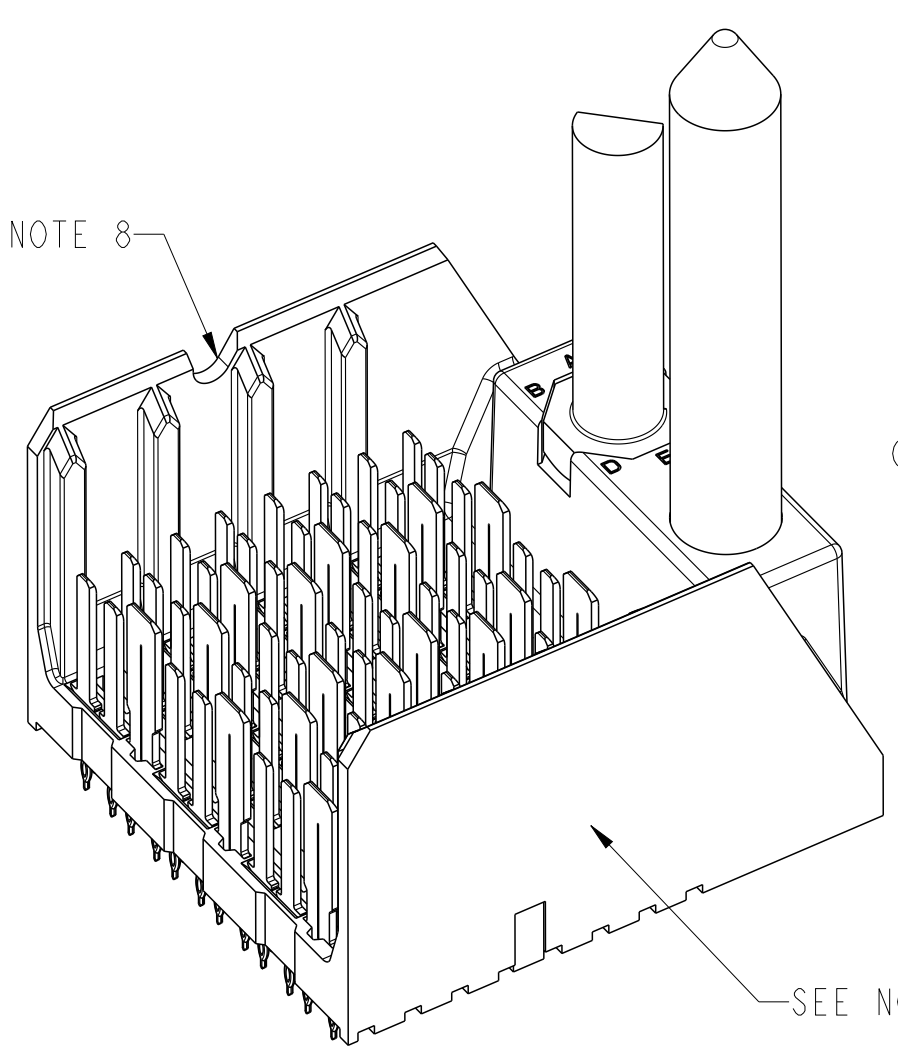
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

spec ref		-		dr		Roger Ng		2011/11/22		projection		MM		size		scale	
tolerance std		-		eng		Michael Song		2016/06/01						A2		5:1	
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen		2016/06/08						ecn no		ELX-DG-24191-1	
				appr		Pei-Ming Zheng		2016/06/15						product family		XCED	
surface		linear		0.X		±0.2		Amphenol FCI		MODULE ASSEMBLY		dwg no		10119191		rev	
		0.XX		±0.10		VERTICAL HEADER, 8-COLUMN, 3-PAIR											
ASME Y14.5		0.XXX		±0.050													
		angular		0°		±2°		cat. no.		-		Product - Customer Drw		sheet 3 of 8		C	

RIGHT POLARIZING/GUIDE MODULE



SEE NOTE 8



2.54
TO TOP SURFACE
OF DAUGHTERCARD

SEE NOTE 5

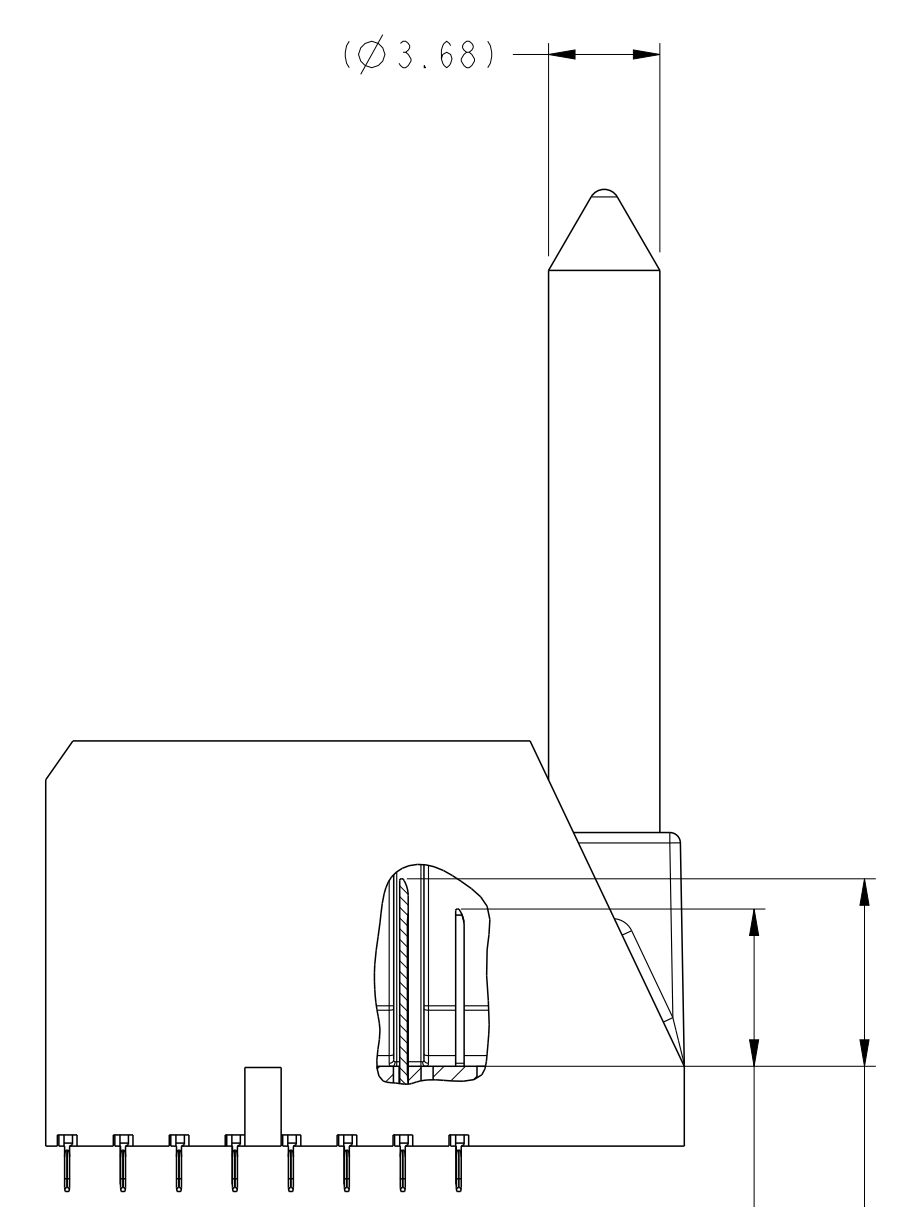
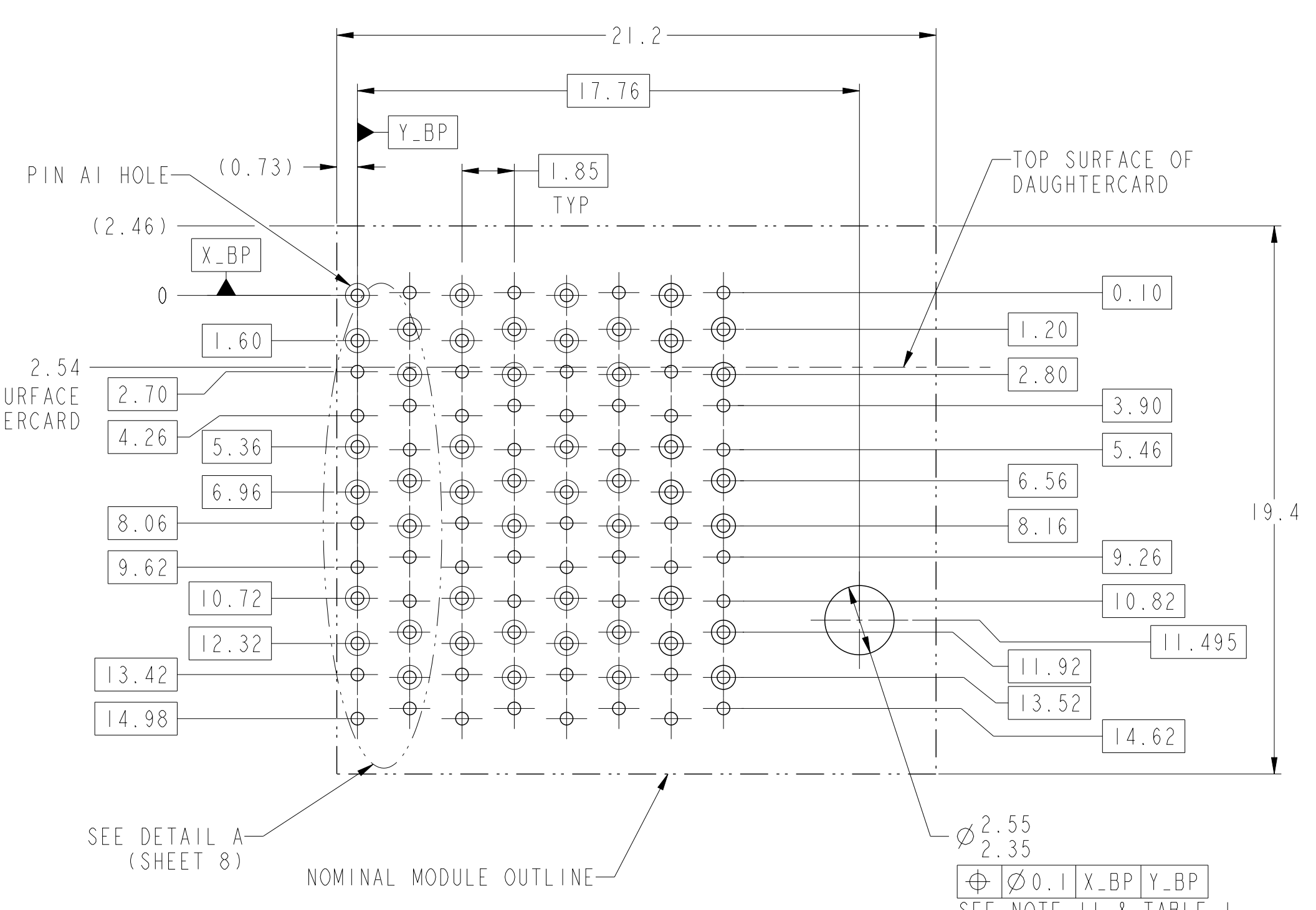
GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)

DIM 'S'

DIM 'R'

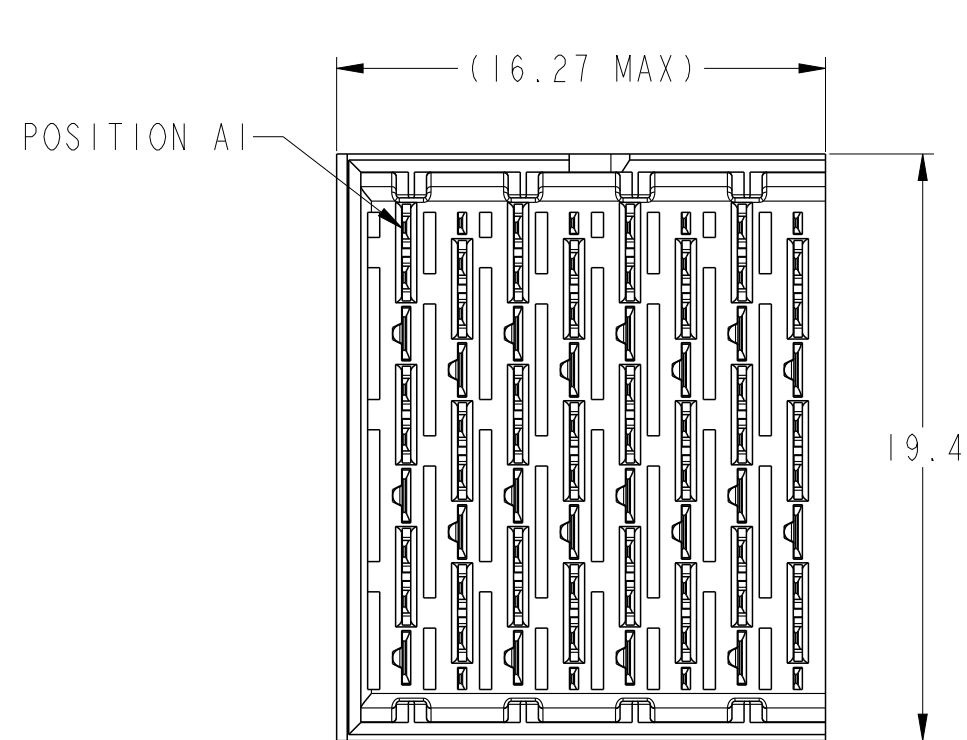
TAIL LENGTH
SEE NOTE 12



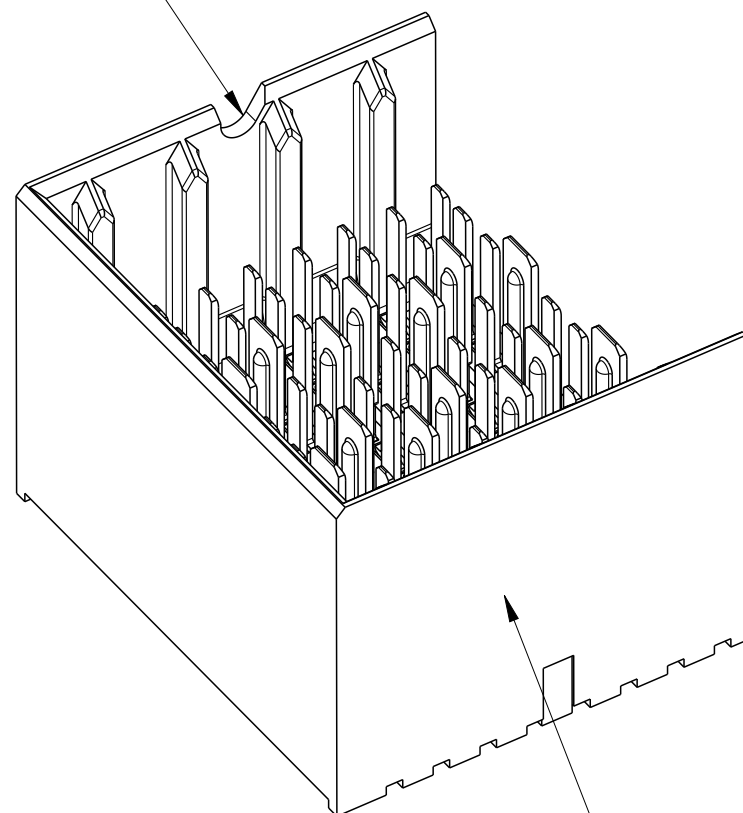
ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

spec ref -				dr Roger Ng2011/11/22		projection		MM		size A2		scale 4:1	
tolerance std -		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Michael Song2016/06/01						ecn no ELX-DG-24191-1		rel level Released	
ASME Y14.5				chr Heaven Cen2016/06/08									
				appr Pei-Ming Zheng2016/06/15		product family		XCEDE					
surface		linear		0.X ±0.2		Amphenol FCI		title MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 3-PAIR		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 4 of 8			

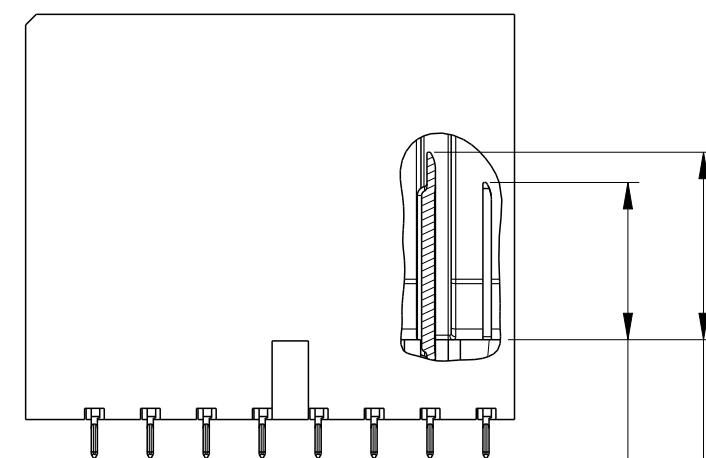
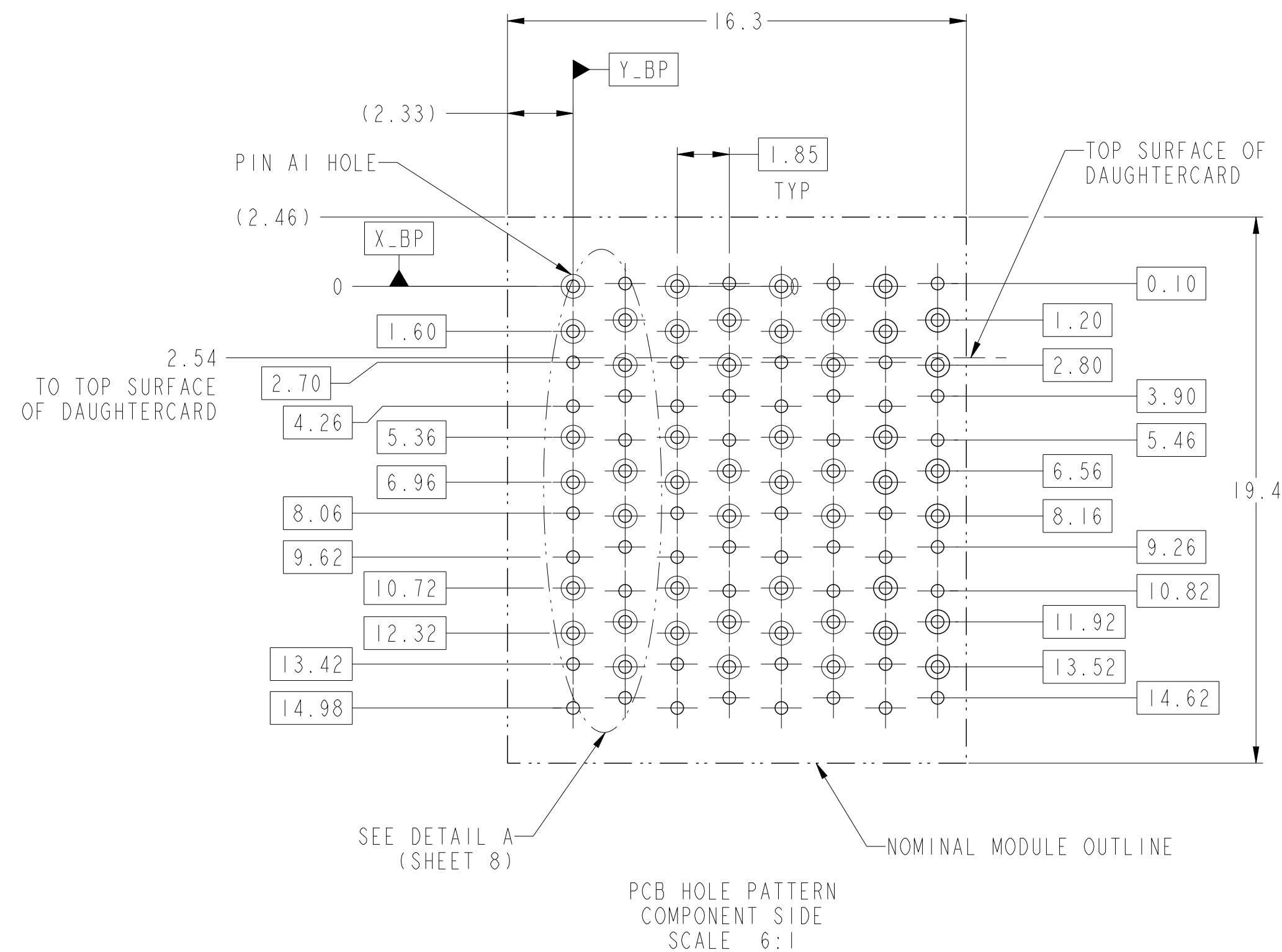
LEFT WALL MODULE



SEE NOTE 8

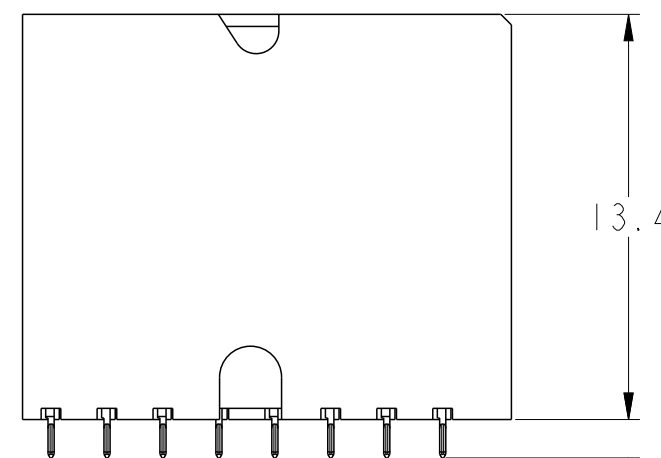
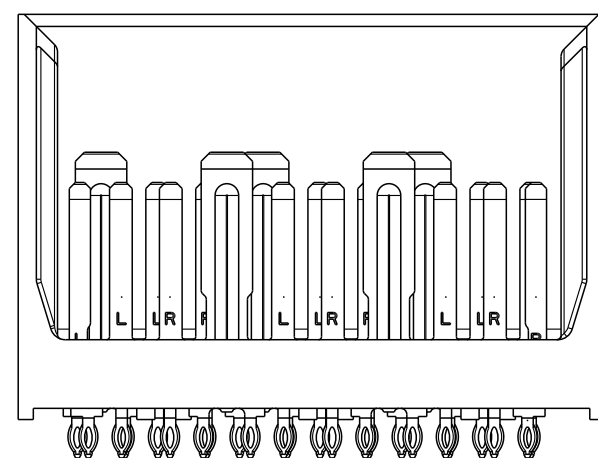


SEE NOTE 5





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

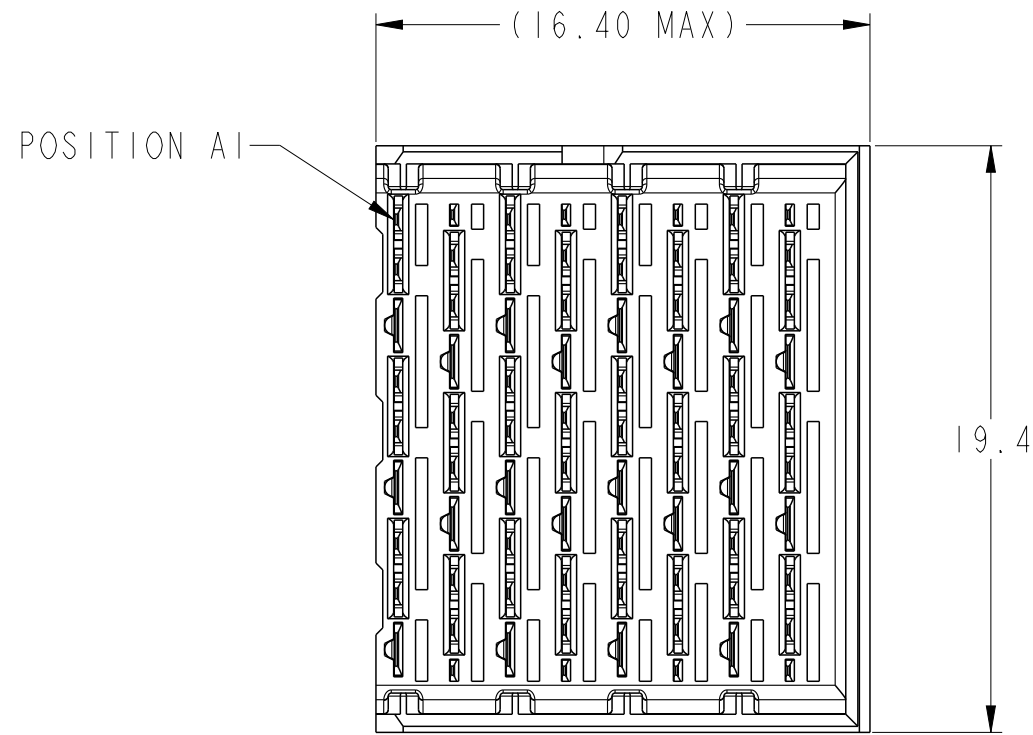
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/01						A2		4:1			
ASME Y14.5				chr		Heaven Cen		2016/06/08						ecn no		ELX-DG-24191-1			
				appr		Pei-Ming Zheng		2016/06/15		product family		XCEDE		rel level		Released			
surface		linear		Amphenol FCI		title		MODULE ASSEMBLY		VERTICAL HEADER, 8-COLUMN, 3-PAIR		dwg no		10119191		rev			
		0.X																±0.2	
		0.XX																±0.10	
ASME Y14.5		angular		0°		±2°													
								cat. no.		-		Product - Customer Drw				sheet 5 of 8			

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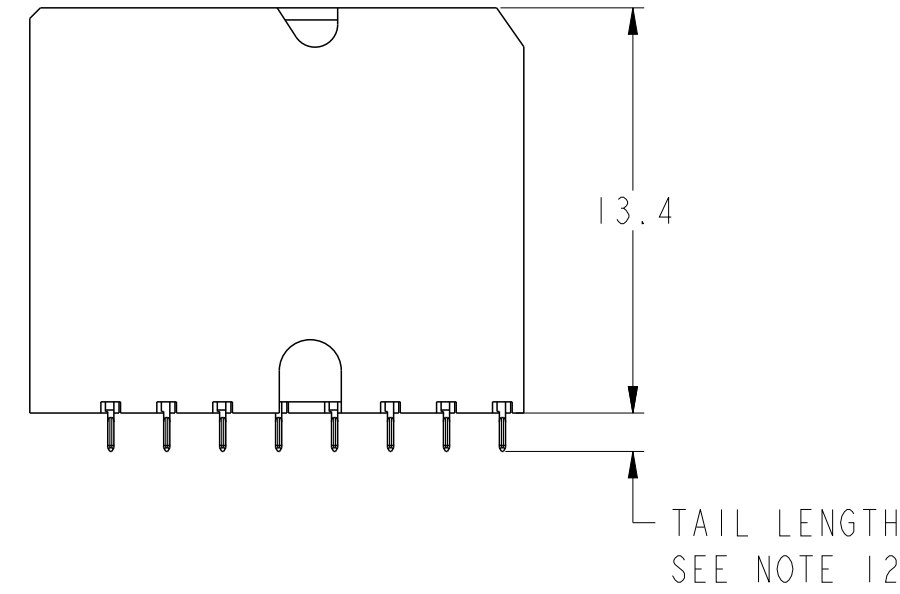
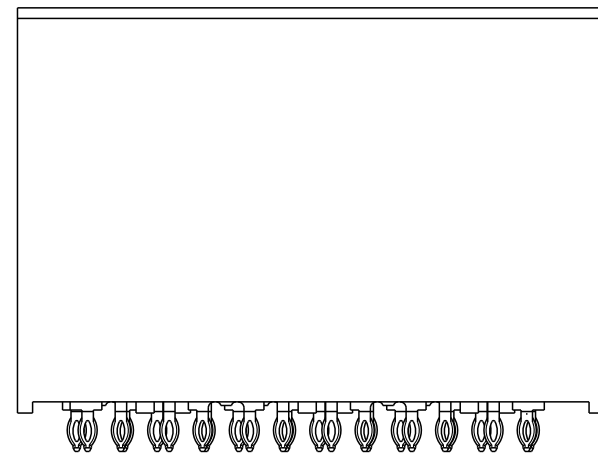
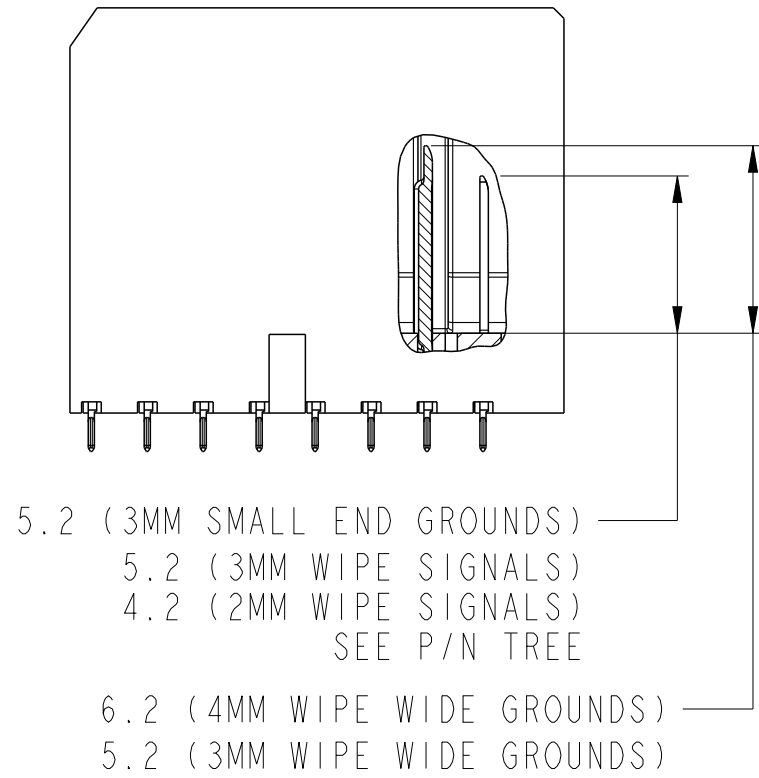
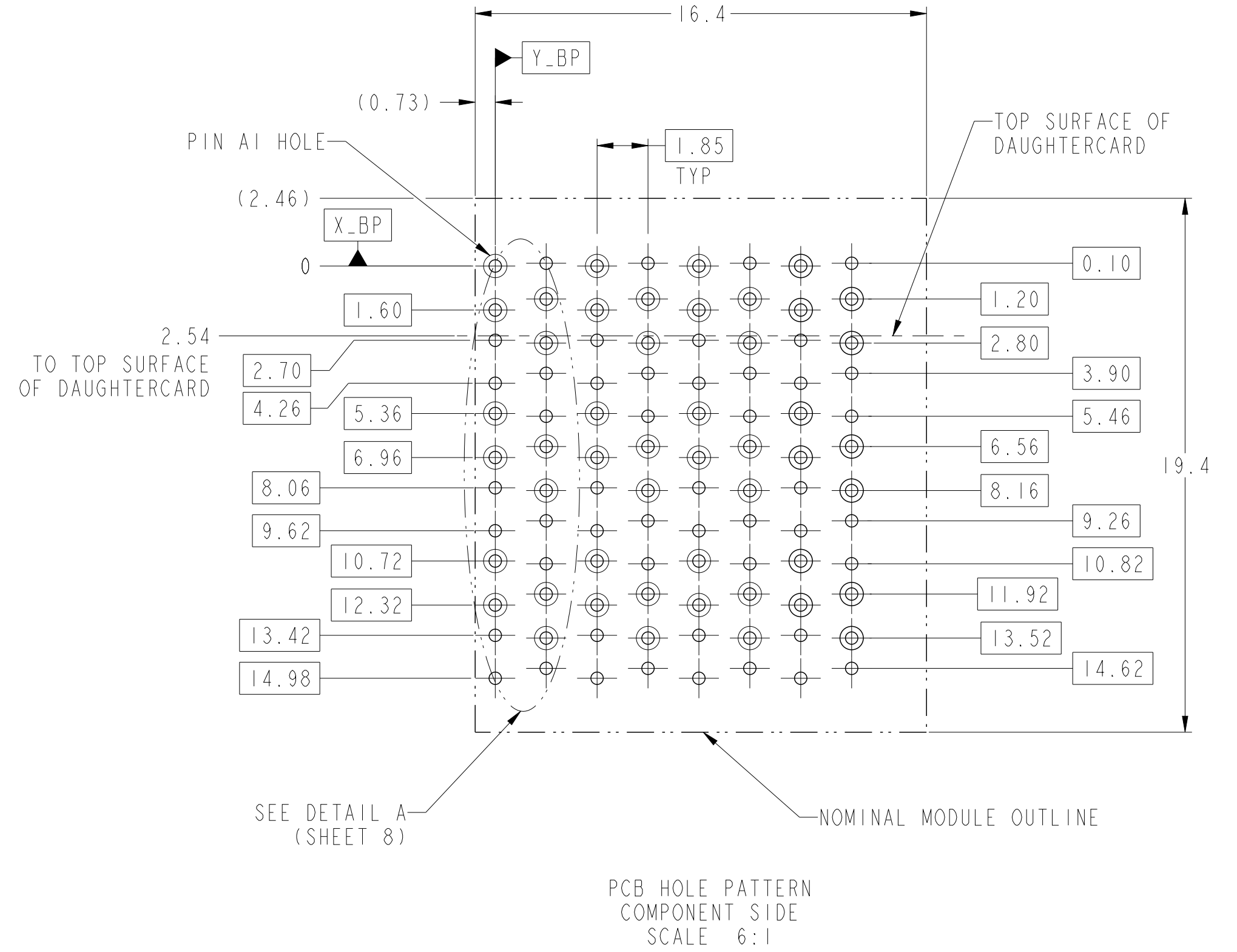
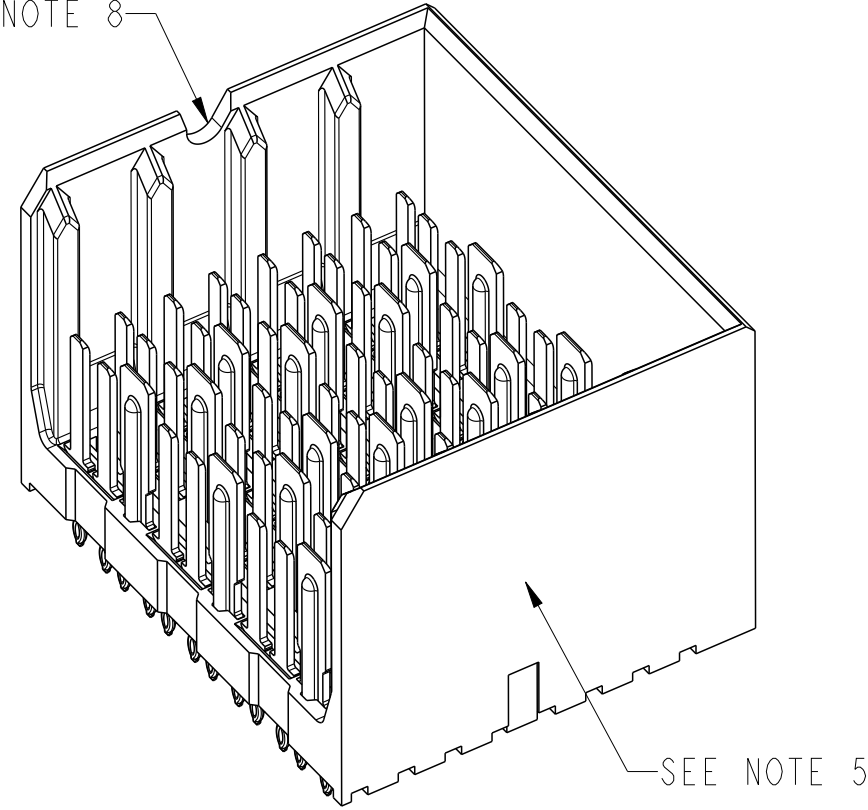
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RIGHT WALL MODULE



SEE NOTE 8



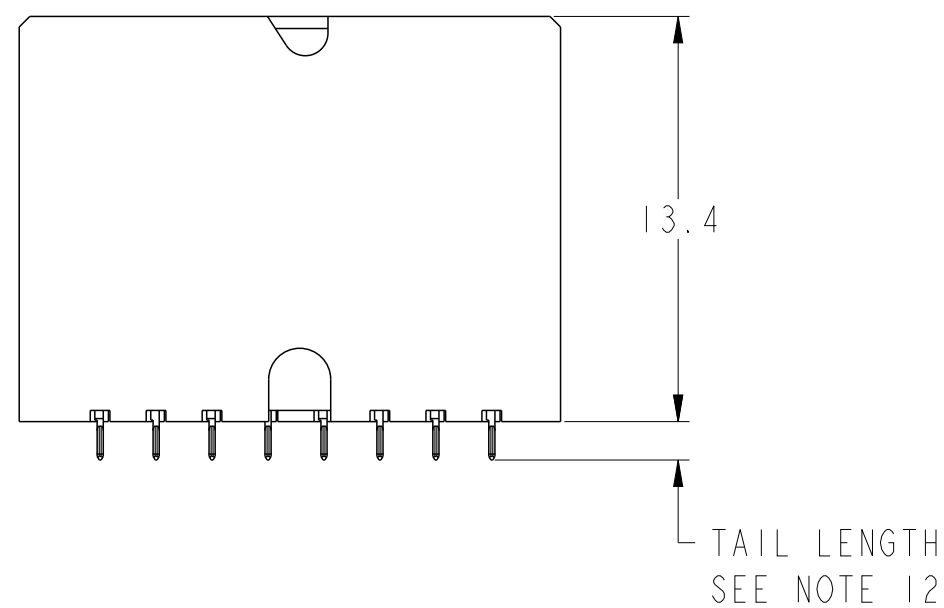
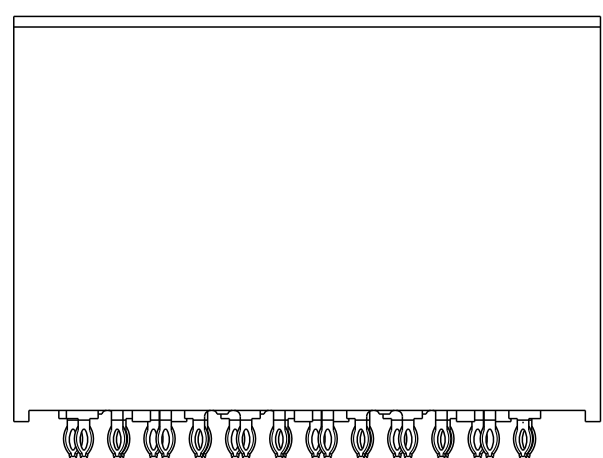
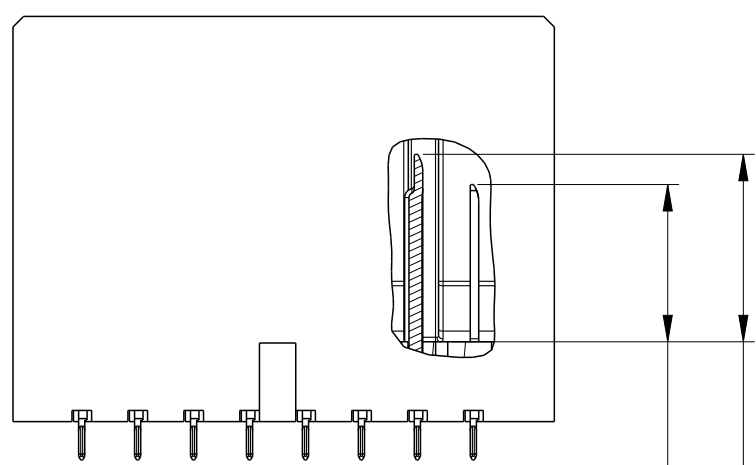
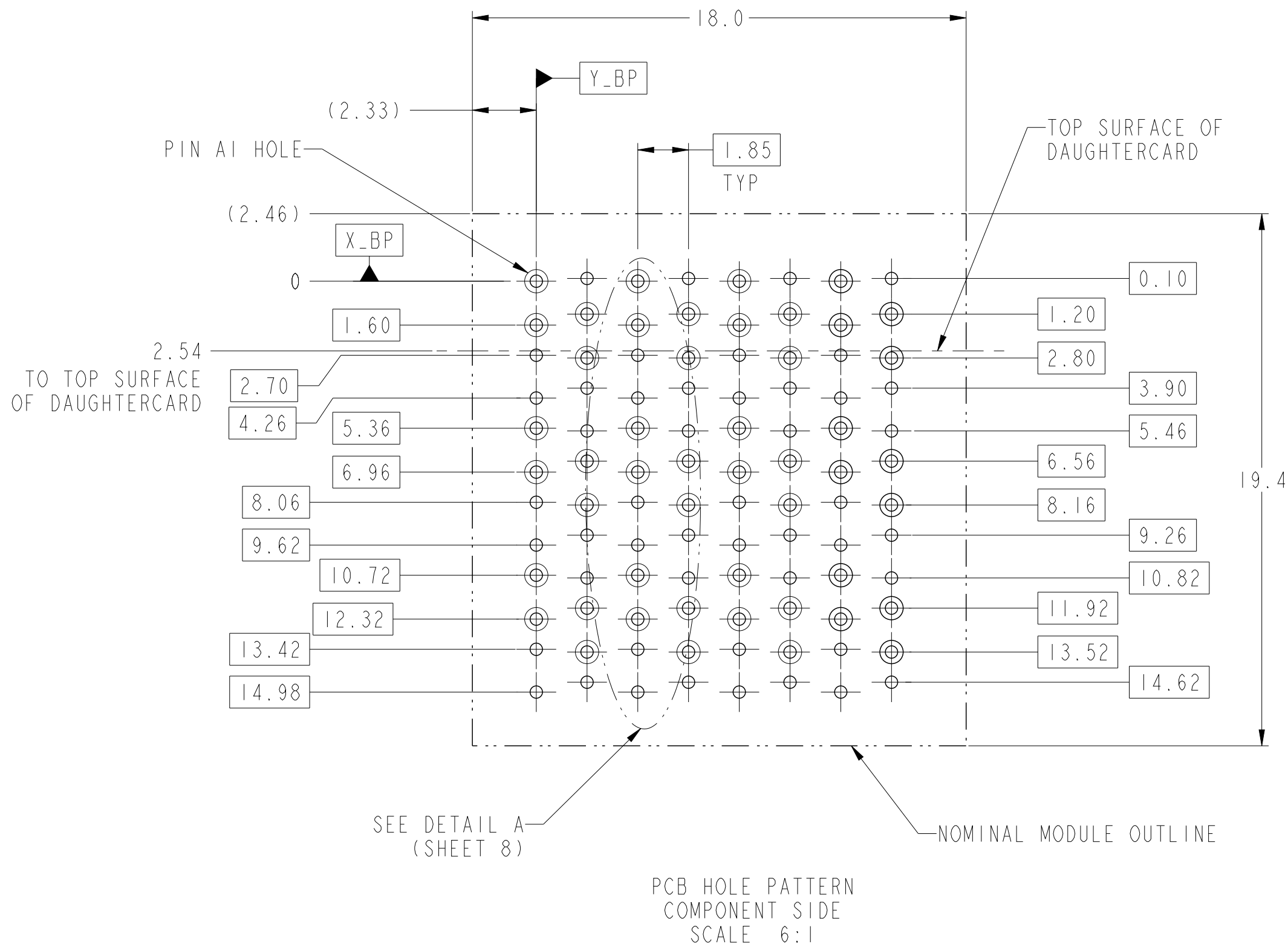
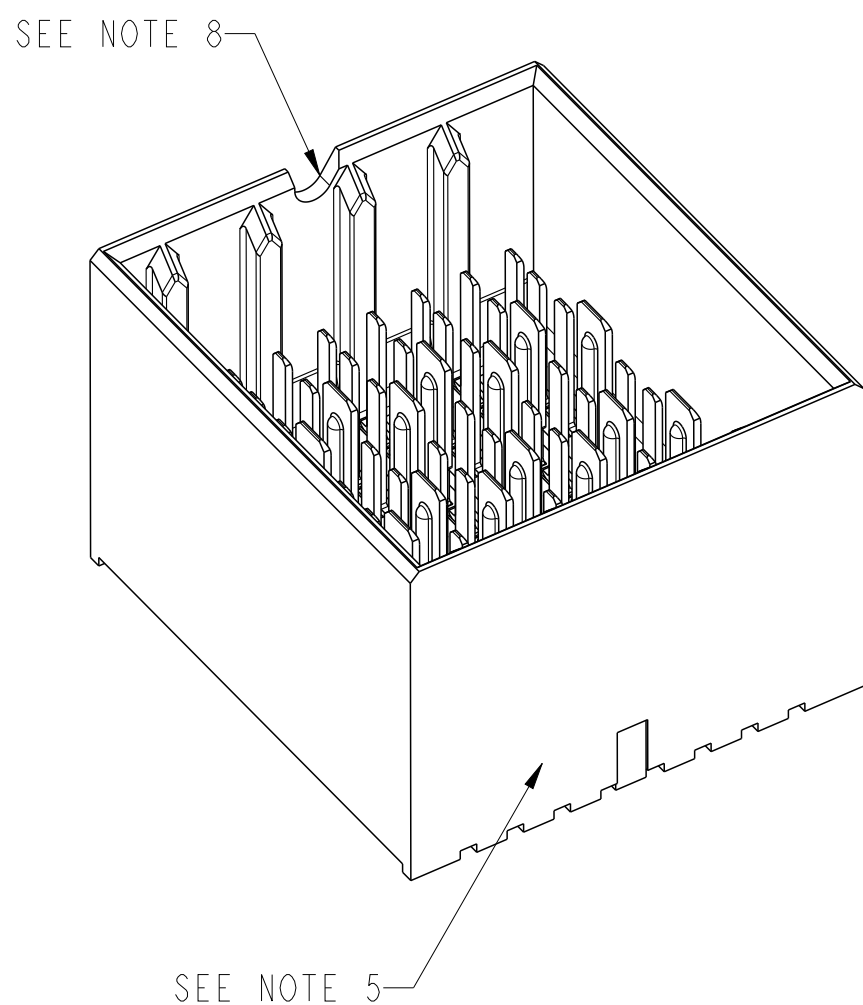
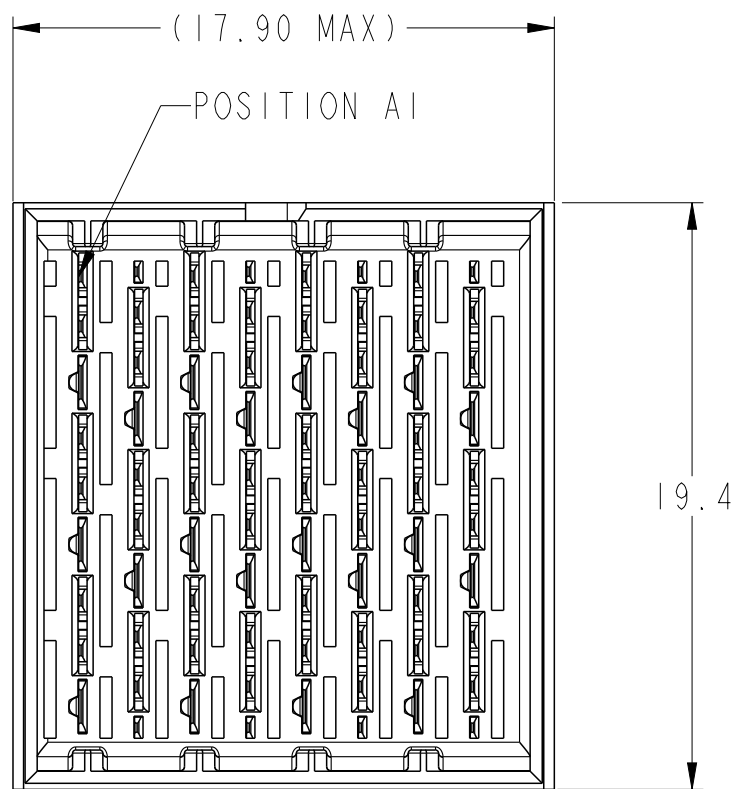
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tolerance std		-		eng		Michael Song		2016/06/01						XCEDE		ecn no		ELX-DG-24191-1		Released					
ASME Y14.5		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		Heaven Cen		2016/06/08								product family									
				appr		Pei-Ming Zheng		2016/06/15			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

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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)

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									

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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.

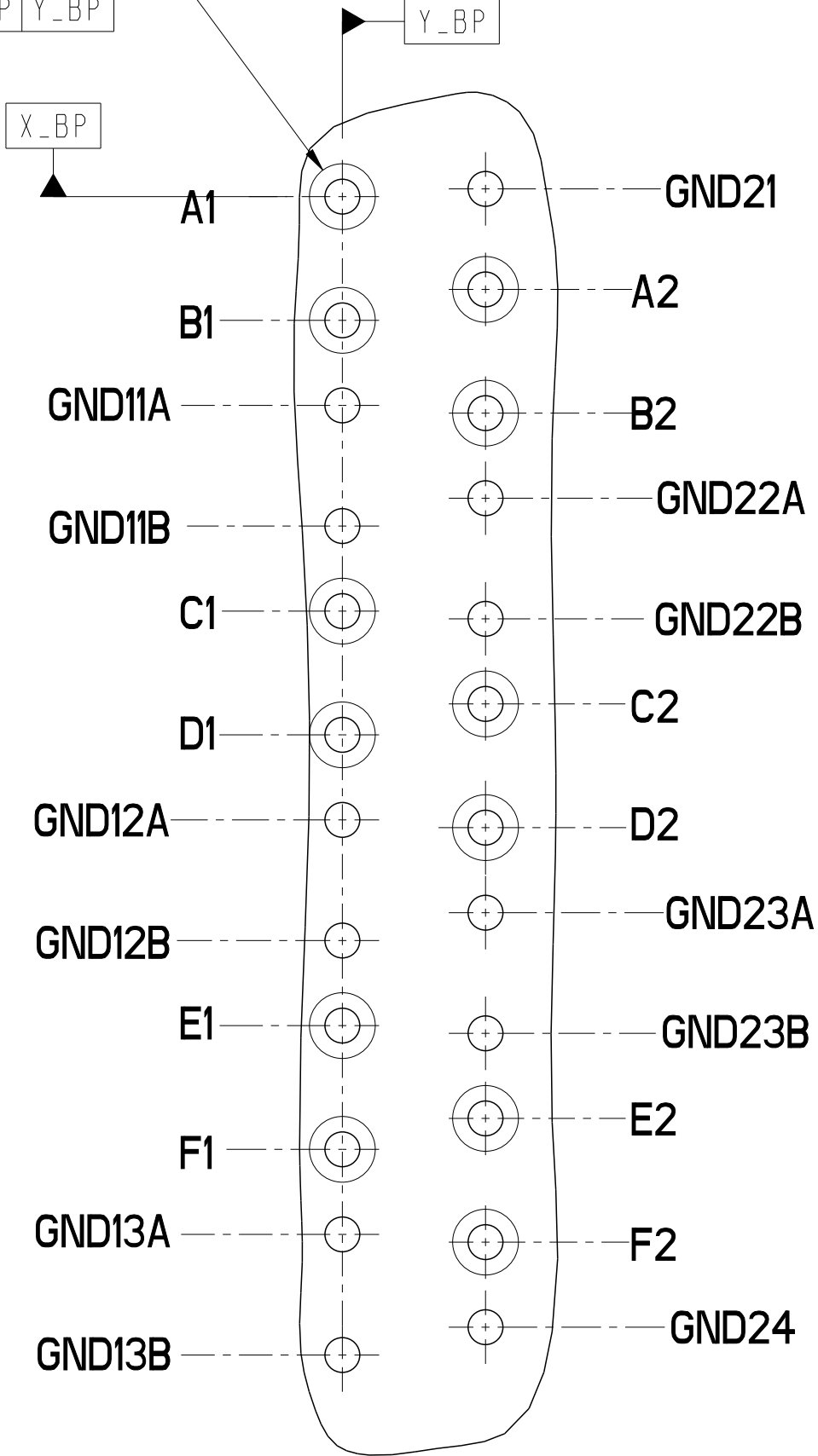
PRESS-FIT TAILS: TIN OVER NICKEL (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLCATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS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

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	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