

10114868 - X0J - X0XL F

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	PIN STYLE, HEIGHT
0	STANDARD GUIDE PIN MACHINED, 25.7mm

MODULE DESCRIPTION	LETTER DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
	J	A	B	C	D	E	F	G	H		
LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 3)											
RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 4)											
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										

NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	WIDE 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" PHILLIPS PANHEAD W/SQ CONICAL WASHER	1.60 - 5.00
10091790-003LF	#2-56 X .500" PHILLIPS PANHEAD W/SQ CONICAL WASHER	5.00 - 10.00

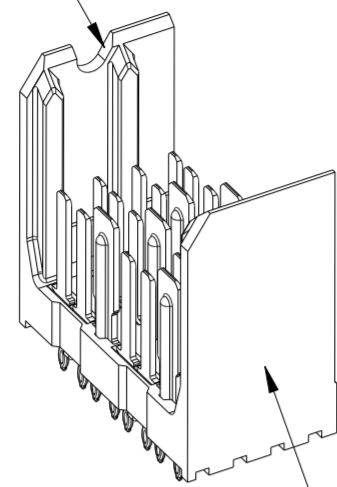
spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/03		←→	ecn no	ELX-DG-24191-1	rel level	Released	
ASME Y14.5		chr	Heaven Cen	2016/06/08							product family
surface	linear	0.X	±0.2		MODULE ASSEMBLY		cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 1 of 8	
		0.XX	±0.10		VERTICAL HEADER, 4-COLUMN, 2-PAIR						10114868
		0.XXX	±0.050								
ASME Y14.5	angular	0°	±°								

Amphenol FCI

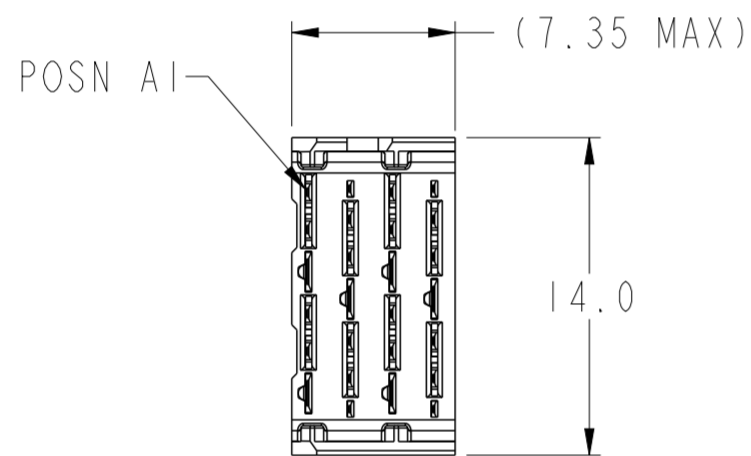
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OPEN (2-WALL) MODULE

SEE NOTE 8



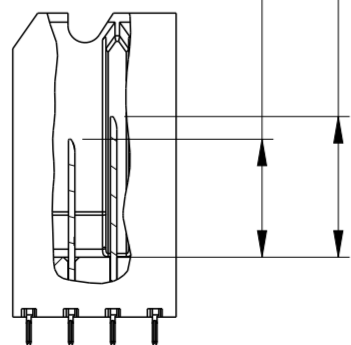
SEE NOTE 5



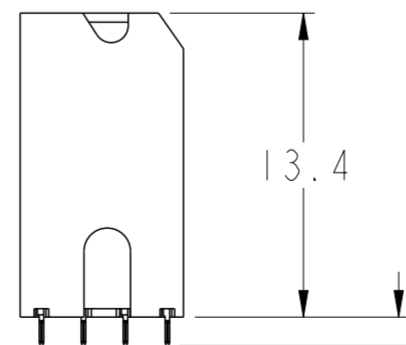
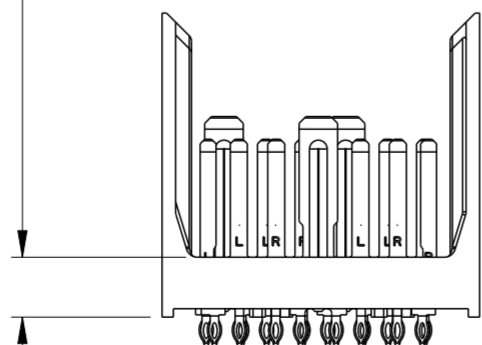
SCALE 3:1

- 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)

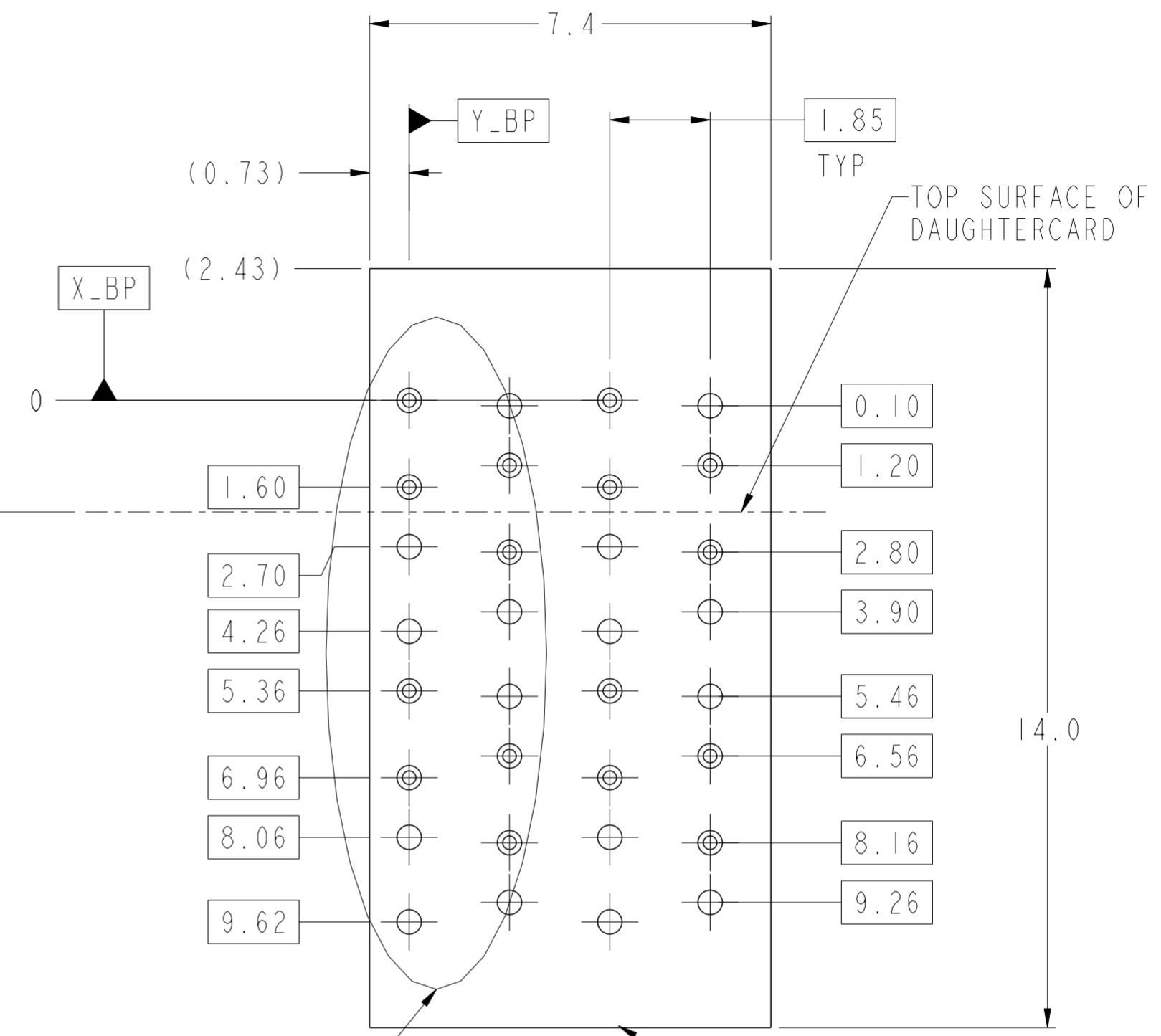
(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



2.64±0.10 FROM STANDOFF SURFACE TO MATING SURFACE



TAIL LENGTH SEE NOTE 12



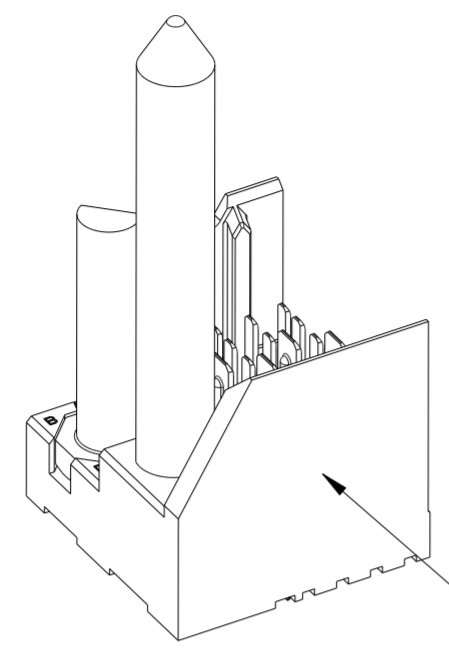
SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN COMPONENT SIDE SCALE 10:1

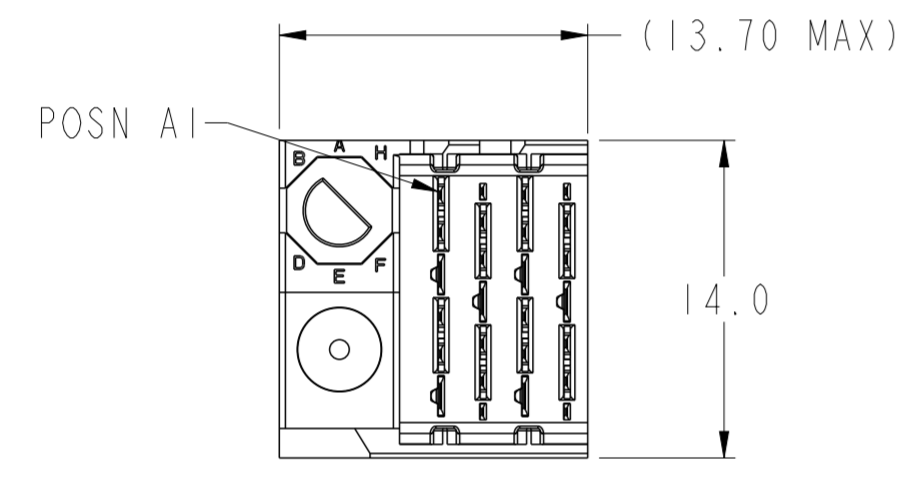
NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1	rel level	Released
ASME Y14.5		chr	Heaven Cen	2016/06/08						
		appr	Pai-Ming Zheng	2016/06/15						
surface	linear	0.X	±0.2		MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 2-PAIR	cat. no. SEE P/N TREE	Product - Customer Drw	sheet 2 of 8	rev F	
		0.XX	±0.10							
		0.XXX	±0.050							
ASME Y14.5	angular	0°	±°							

LEFT POLARIZING/GUIDE MODULE

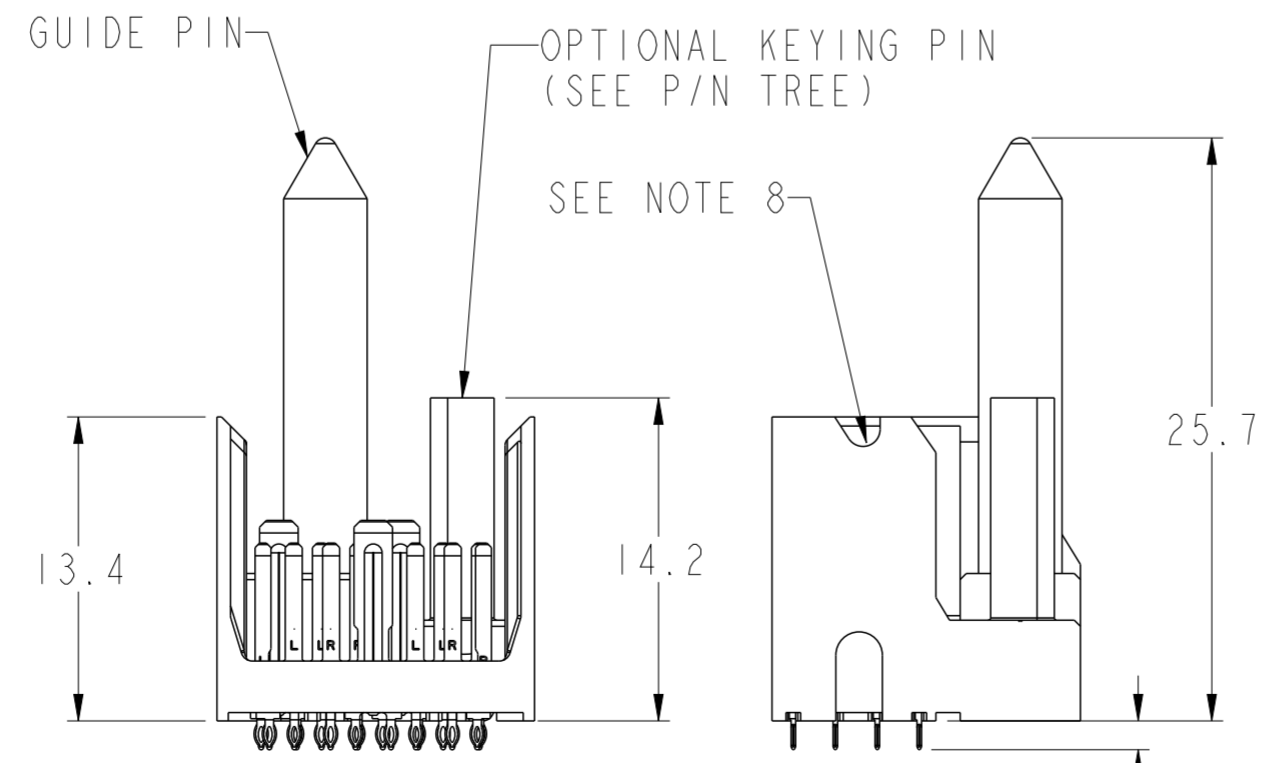
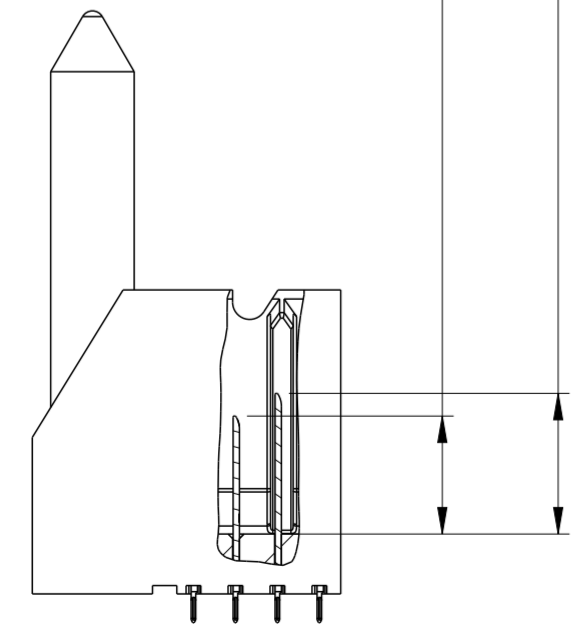


SEE NOTE 5

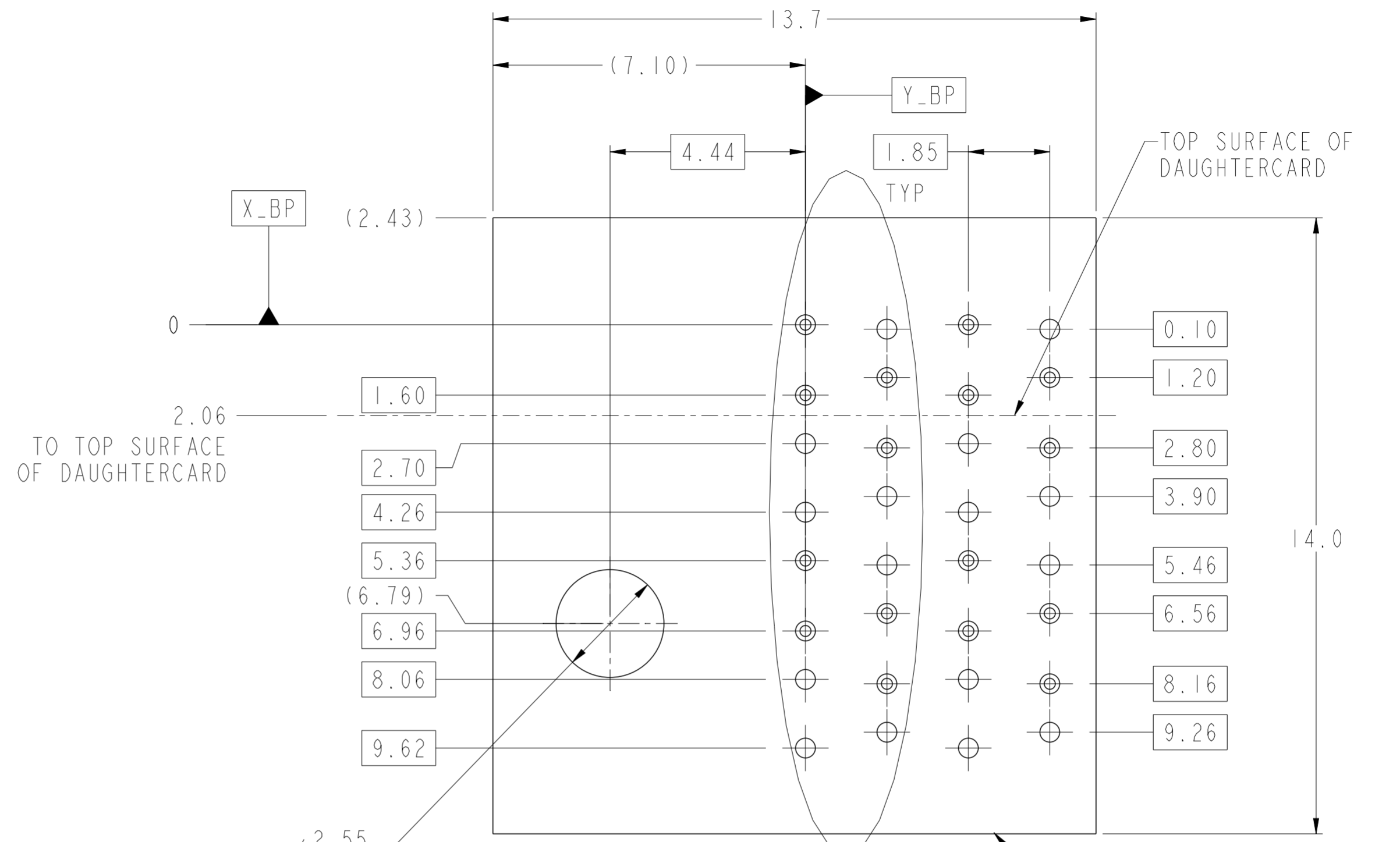


SCALE 3:1

- 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 FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12



\varnothing	$\varnothing 0.10$	X_BP	Y_BP
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SEE NOTE 11 & TABLE 1

SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2016/06/08						
surface	linear	0.X	±0.2		MODULE ASSEMBLY		dwg no 10114868	rev F		
		0.XX	±0.10		VERTICAL HEADER, 4-COLUMN, 2-PAIR					
		0.XXX	±0.050		cat. no. SEE P/N TREE					
ASME Y14.5	angular	0°	±°	Product - Customer Drw		sheet 3 of 8				

PDS: Rev :F

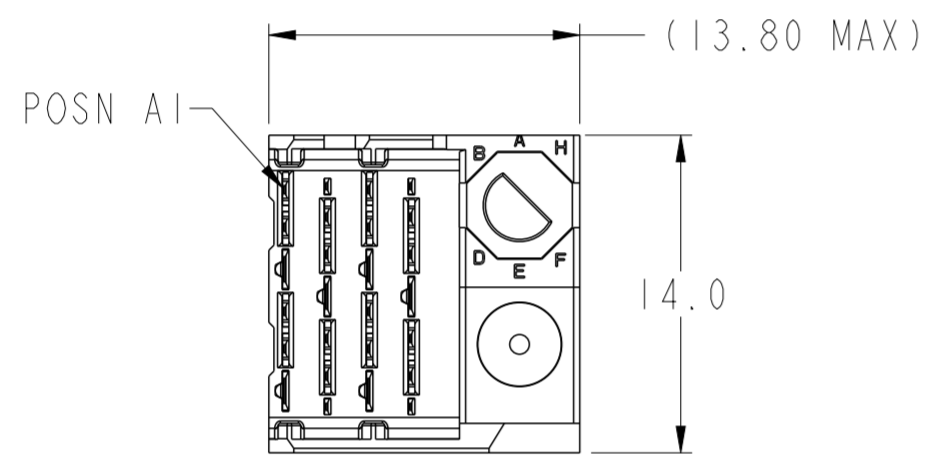
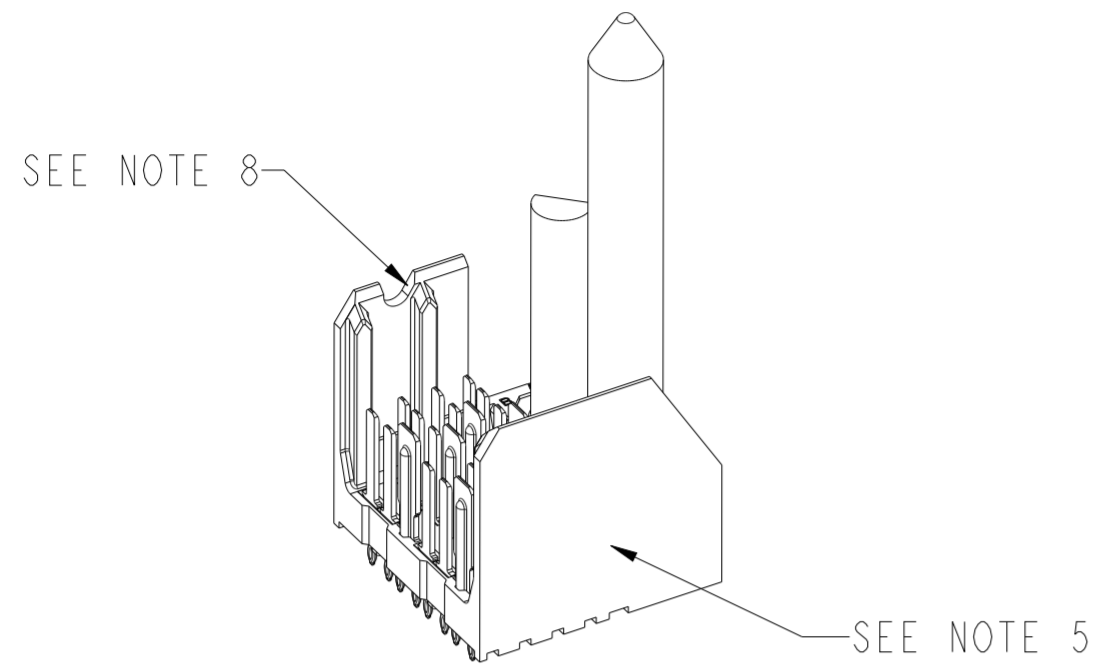
STATUS:Released

Printed: Jun 15, 2016

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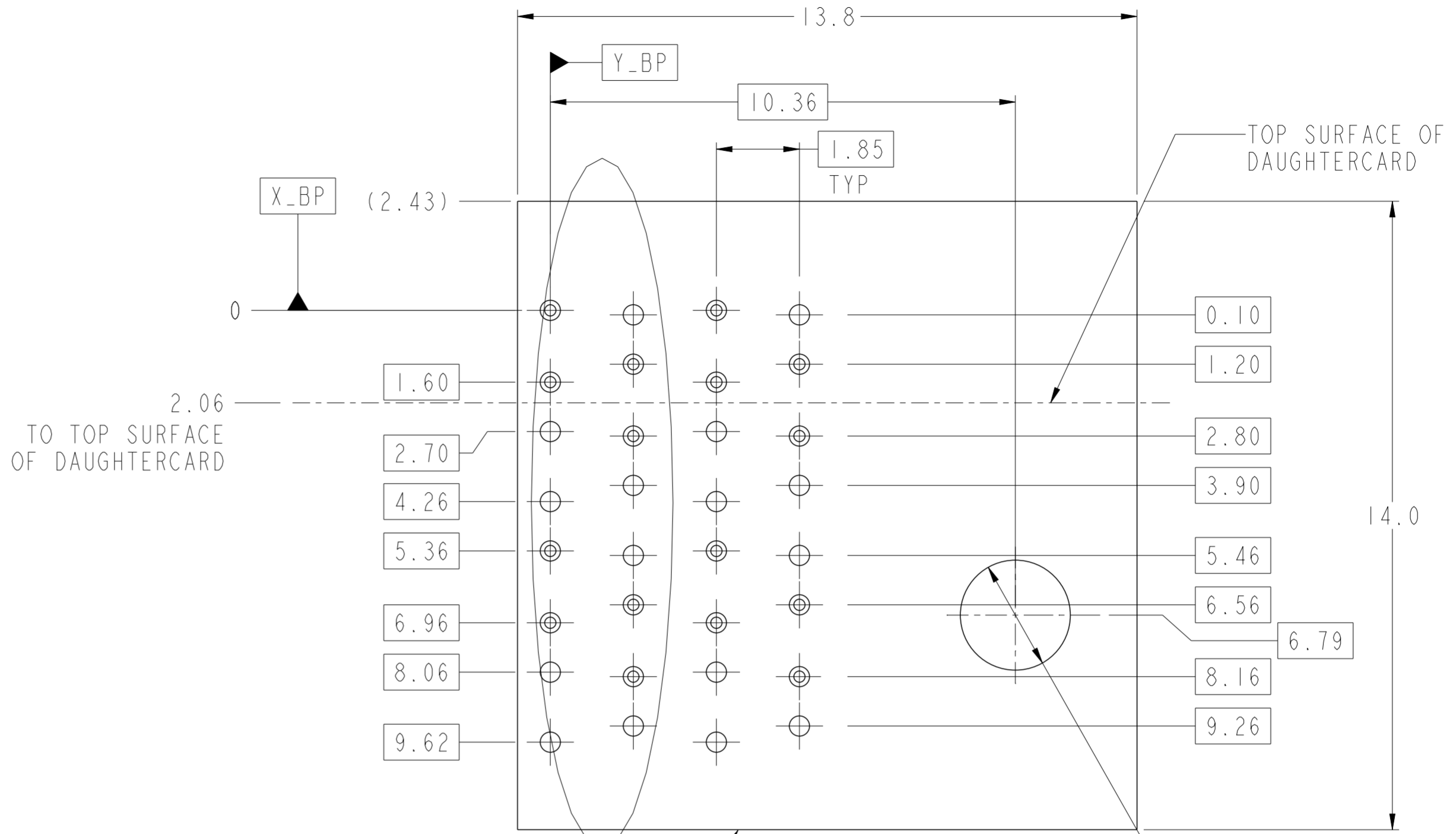
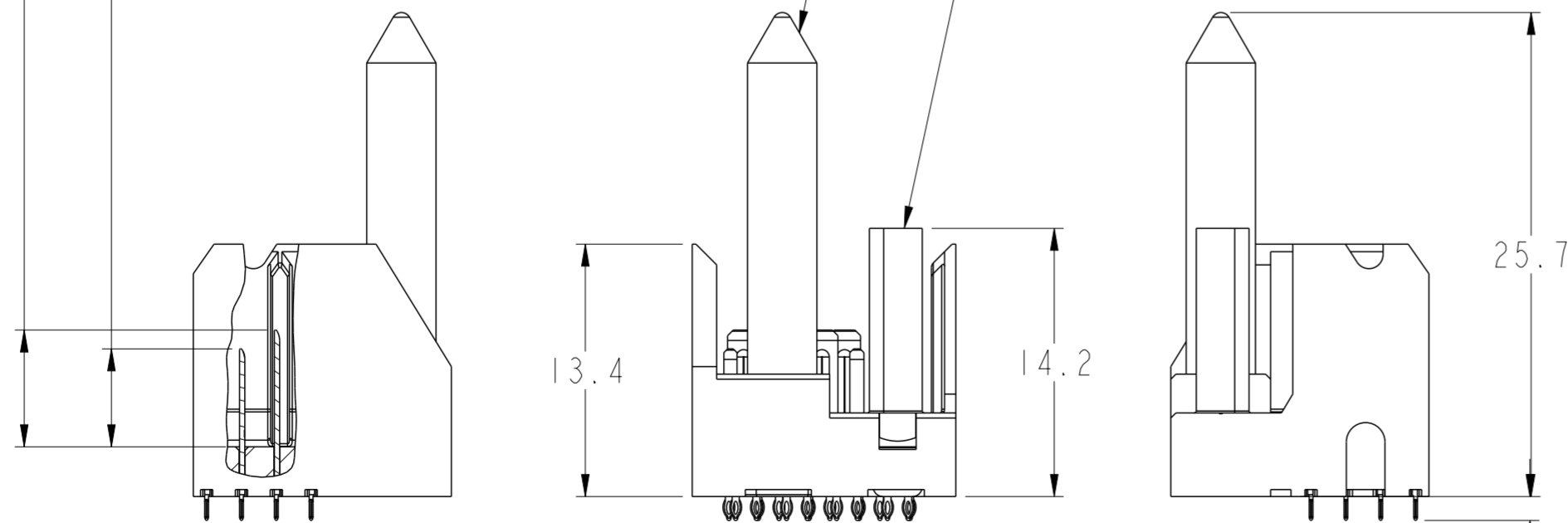
RIGHT POLARIZING/GUIDE MODULE



SCALE 3:1

- 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 FOR ALL COMBINATIONS AVAILABLE)



SEE DETAIL A (SHEET 8)

NOMINAL MODULE OUTLINE

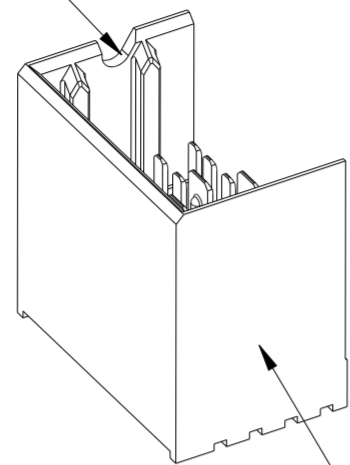
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1



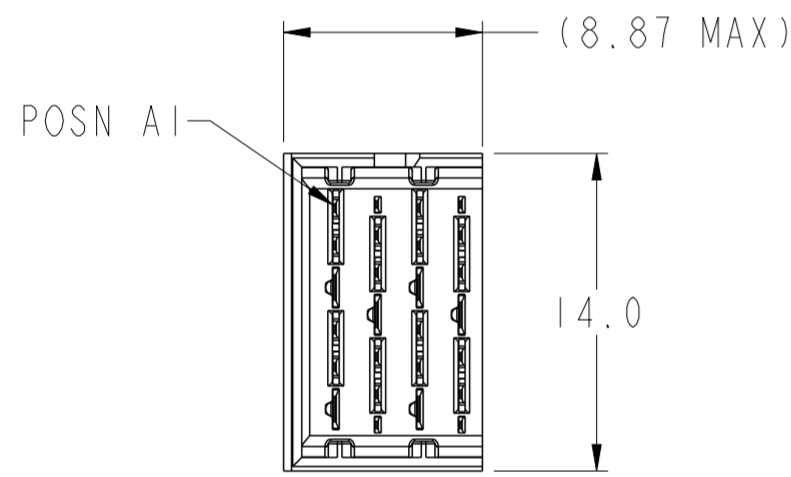
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tolerance std	ASME Y14.5	eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2016/06/08				rel level	Released	
surface	linear	0.X	±0.2		product family	-		dwg no 10114868	rev F	
		0.XX	±0.10		MODULE ASSEMBLY		-			
		0.XXX	±0.050		VERTICAL HEADER, 4-COLUMN, 2-PAIR		-			
	angular	0°	±°	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 4 of 8			

LEFT WALL MODULE

SEE NOTE 8



SEE NOTE 5

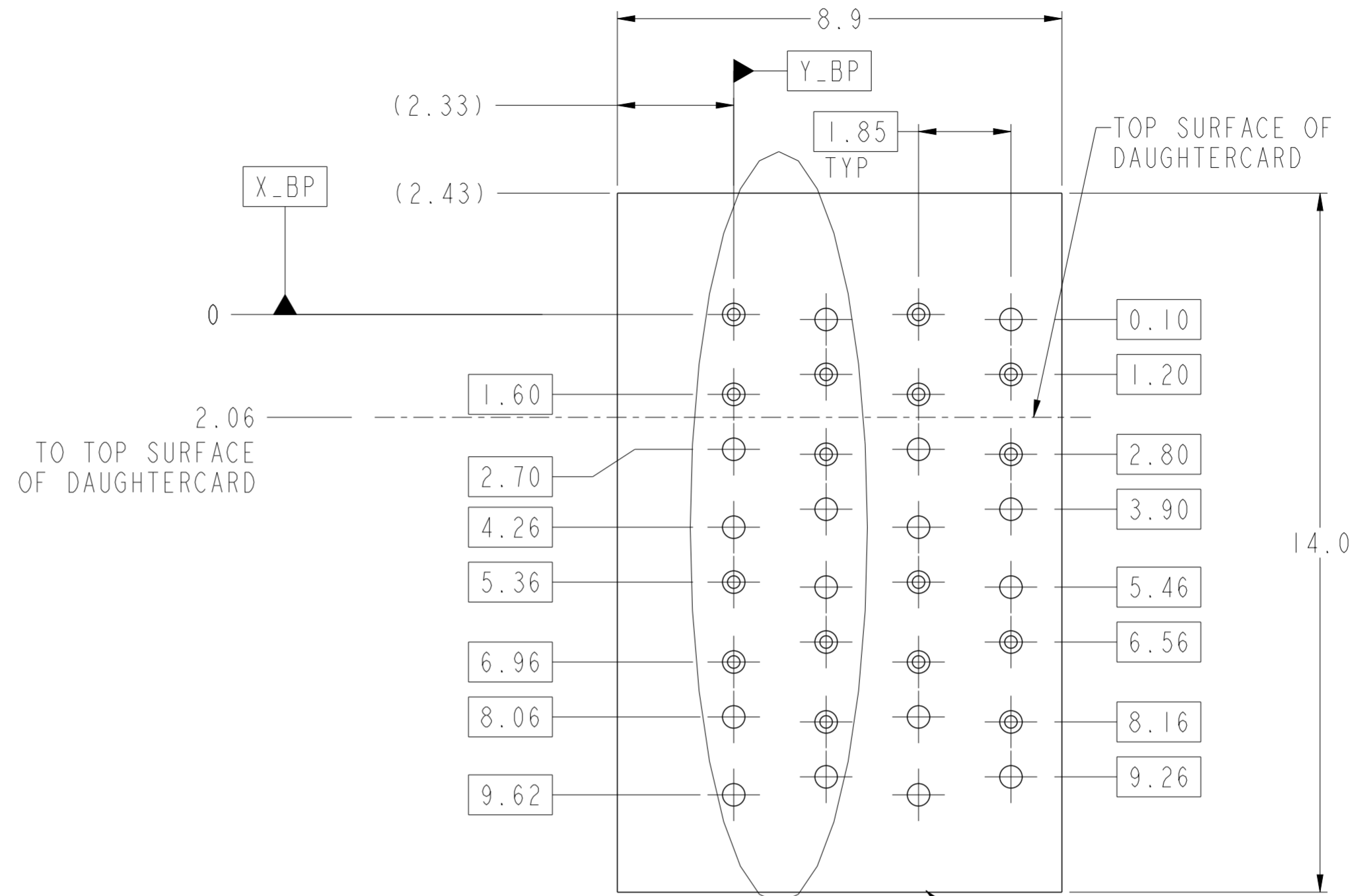
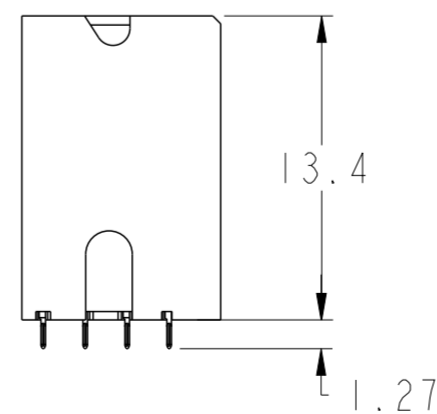
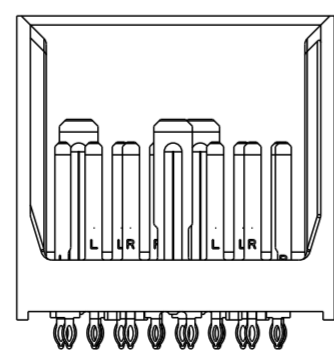
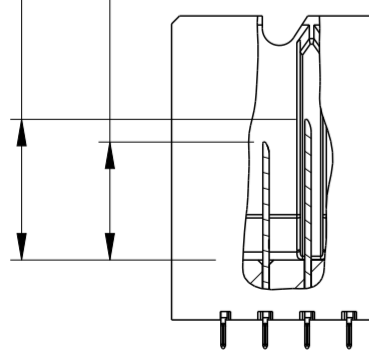


SCALE 3:1

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 FOR ALL COMBINATIONS AVAILABLE)



SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN COMPONENT SIDE SCALE 10:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	3:1	
tolerance std	ASME Y14.5	eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2016/06/08			rel level	Released			
surface	linear	appr	Pai-Ming Zheng	2016/06/15			product family				
	angular	Amphenol FCI		MODULE ASSEMBLY		cat. no.	SEE P/N TREE	Product - Customer	Drw	sheet 5 of 8	
		linear	0.X	±0.2							
			0.XX	±0.10							
			0.XXX	±0.050							
		angular	0°	±°							

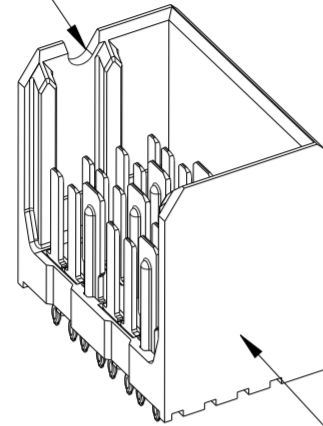
PDS: Rev :F

STATUS:Released

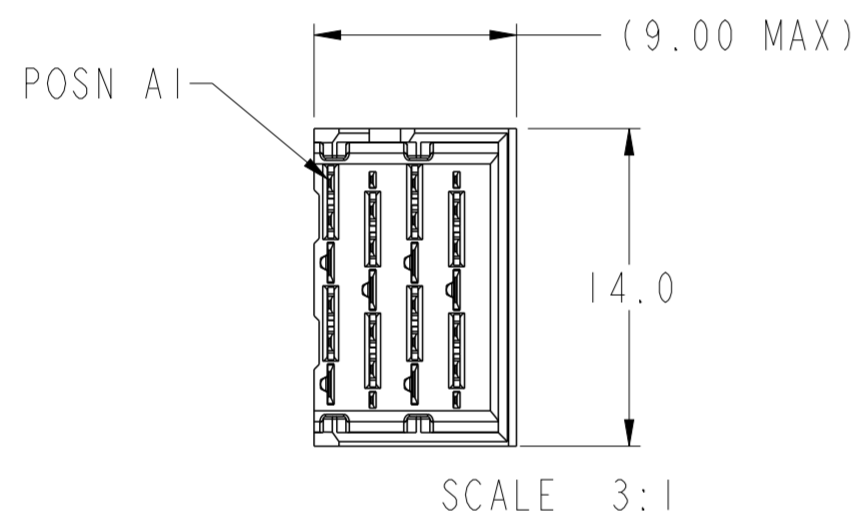
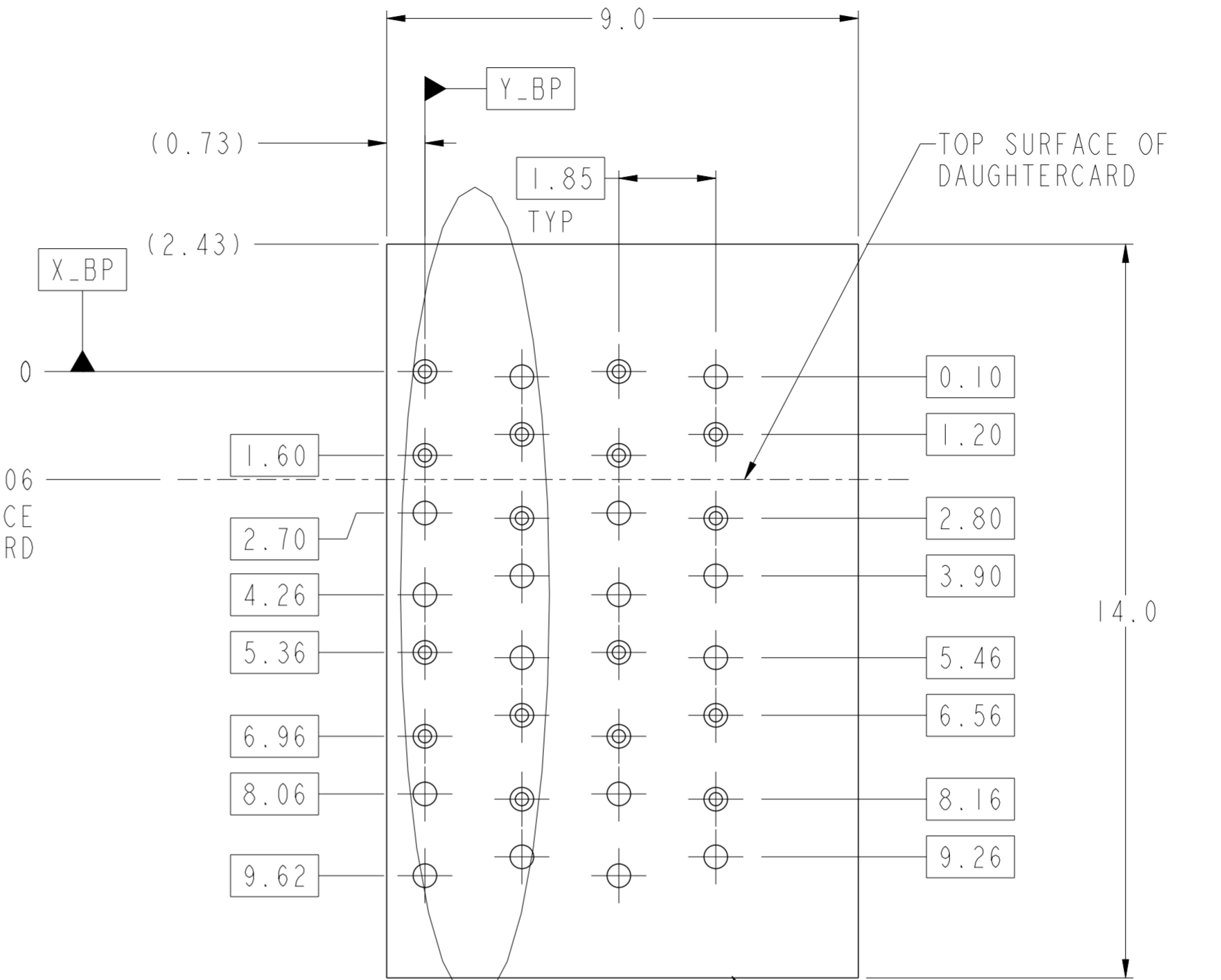
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RIGHT WALL MODULE

SEE NOTE 8



SEE NOTE 5



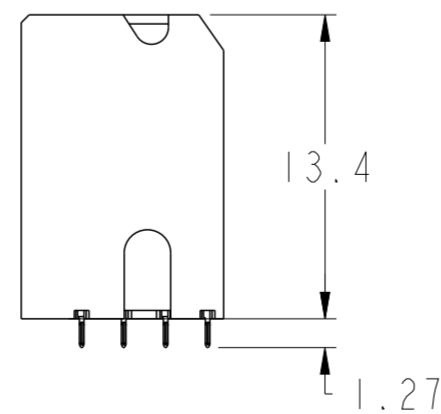
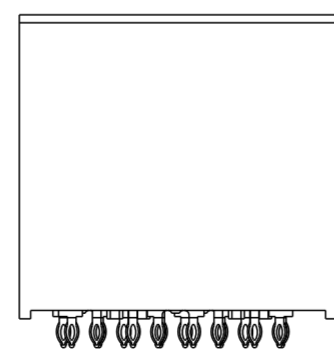
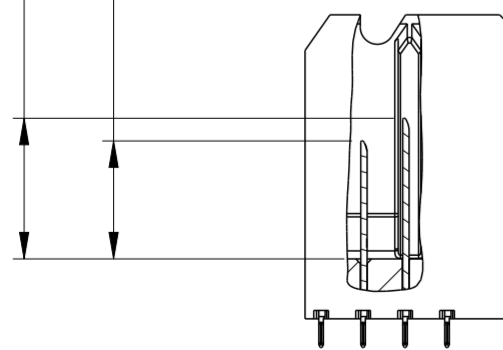
SCALE 3:1

SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN COMPONENT SIDE SCALE 10:1

NOMINAL MODULE OUTLINE

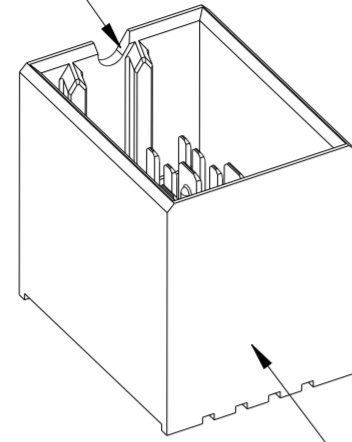
- 6.2 (4MM WIPE WIDE GROUNDS)
 - 5.2 (3MM WIPE WIDE GROUNDS)
 - 5.2 (3MM SMALL END GROUNDS)
 - 5.2 (3MM WIPE SIGNALS)
 - 4.2 (2MM WIPE SIGNALS)
- (SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



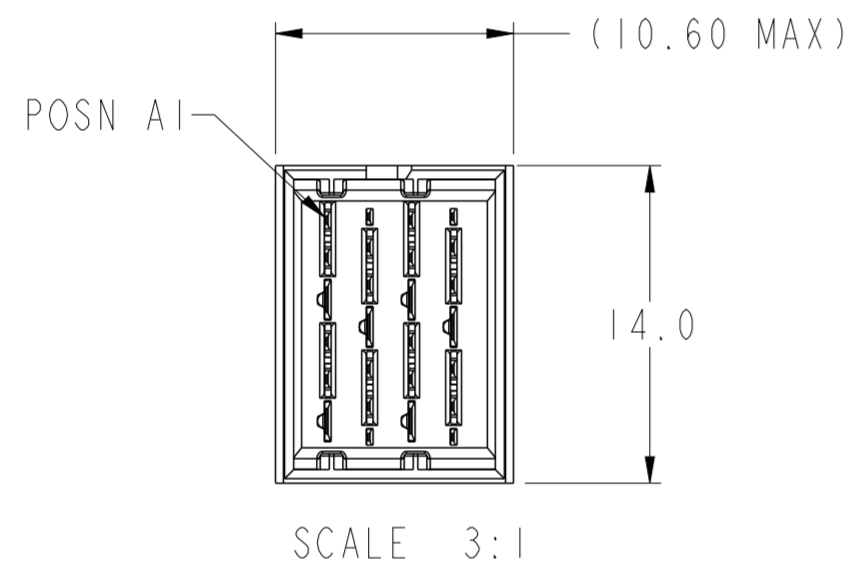
spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	3:1	
tolerance std	ASME Y14.5	eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2016/06/08				rel level	Released		
		appr	Pai-Ming Zheng	2016/06/15							
surface	ASME Y14.5	linear	0.X	±0.2			product family	-			
			0.XX	±0.10	Amphenol FCI		title	MODULE ASSEMBLY			
			0.XXX	±0.050	Amphenol FCI		part no	10114868			
		angular	0°	±°	Amphenol FCI		cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 6 of 8	

FOUR WALL MODULE

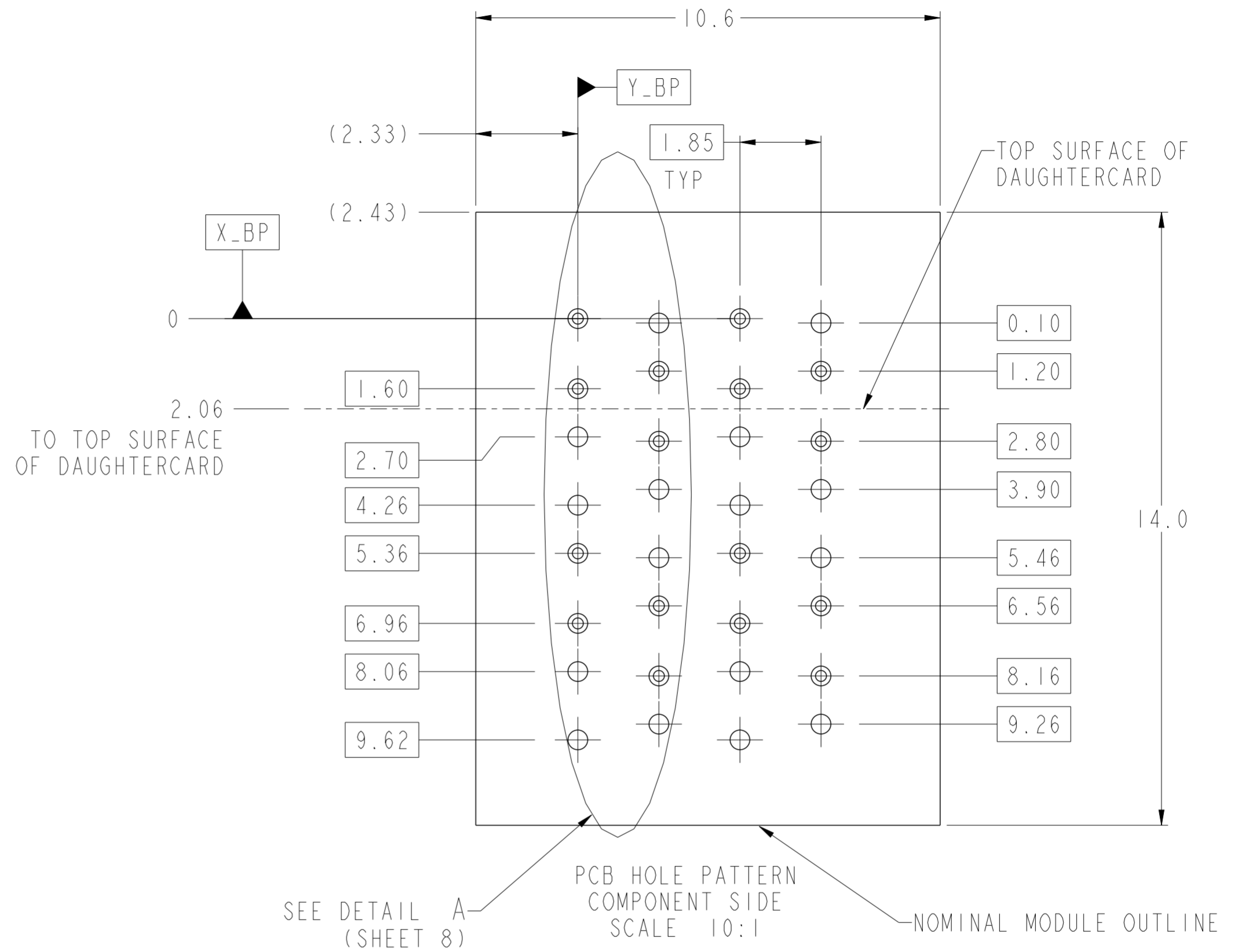
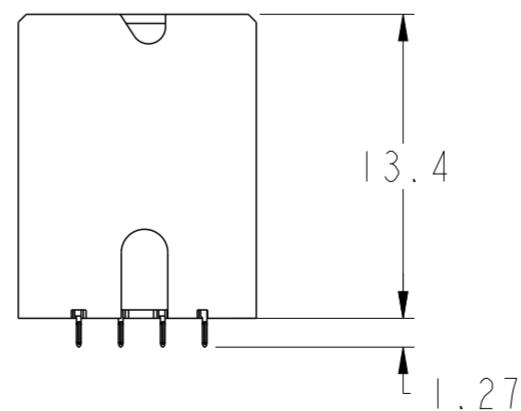
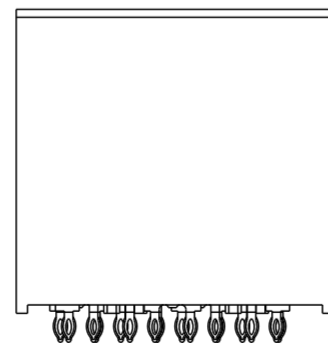
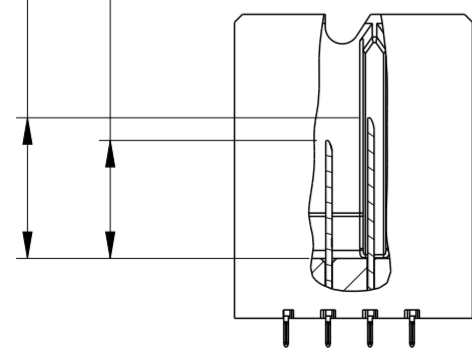
SEE NOTE 8



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 FOR ALL COMBINATIONS AVAILABLE)



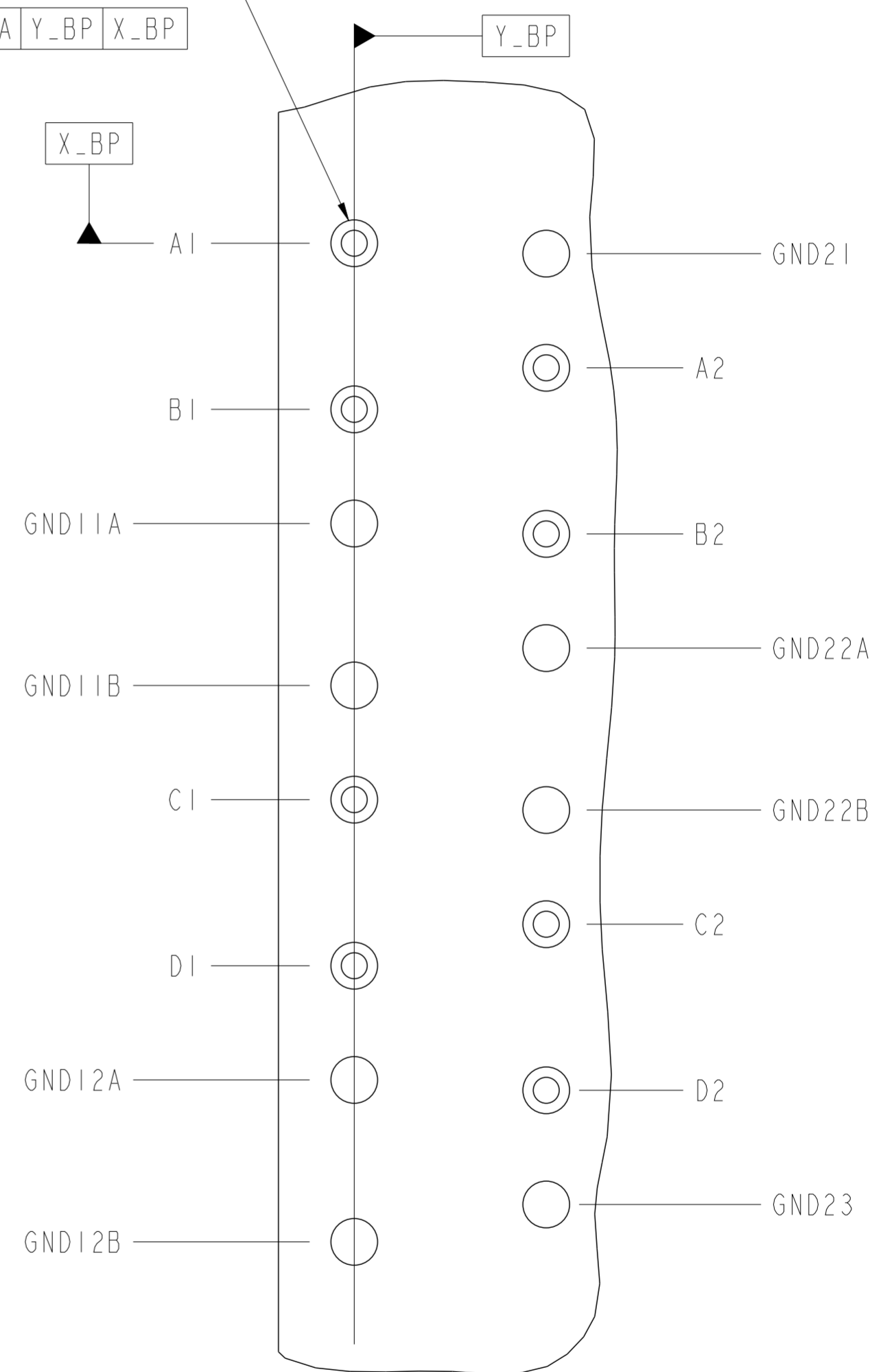
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tolerance std	ASME Y14.5	eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1			
surface	linear	0.X	±0.2	product family				rel level	Released		
		0.XX	±0.10								
		0.XXX	±0.050	Amphenol FCI	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 7 of 8			
ASME Y14.5	angular	0°	±°	title	MODULE ASSEMBLY		dwg no	10114868		rev	F

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

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 TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST (CO) OR UNCONTROLLED ENVIRONMENT TEST SEQUENCE AS NOTED IN P/N TREE.
PRESS-FIT TAILS: TIN OVER NICKEL, OR TIN-LEAD ALLOY OVER NICKEL. 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.

REFER TABLE 3 FOR PTH, DRILL & PAD SIZES



DETAIL A
SCALE 20:1

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1	rel level	Released
ASME Y14.5		chr	Heaven Cen	2016/06/08			product family			
		appr	Pai-Ming Zheng	2016/06/15						
surface	linear	0.X	±0.2		MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 2-PAIR		diag no	10114868	rev	F
		0.XX	±0.10		cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 8 of 8		
ASME Y14.5	angular	0.XXX	±0.050							
		0°	±°							