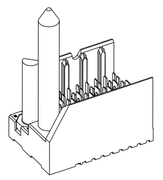
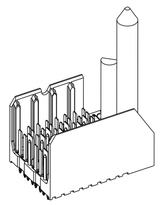
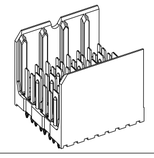
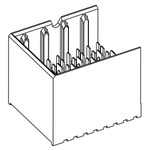
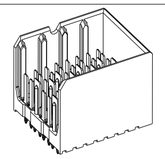
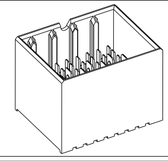
10113949 - X X E - X 0 X L F

- E: 8-COLUMN DIFFERENTIAL SIGNAL
- 0: GENERAL LABEL
  E: CUSTOMIZED LABEL
- 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
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									

NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	WIDE GROUND	
1	2	4	∅0.55 [0.0217"]
2	3	4	∅0.55 [0.0217"]
3	2	4	∅0.45 [0.0177"]
4	3	4	∅0.45 [0.0177"]
5	2	3	∅0.55 [0.0217"]
6	3	3	∅0.55 [0.0217"]
7	2	3	∅0.45 [0.0177"]
8	3	3	∅0.45 [0.0177"]

TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)

	GROUNDED	UNGROUNDED
FINISHED	∅2.35-2.55	∅2.35-2.55
PAD	∅5.50	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

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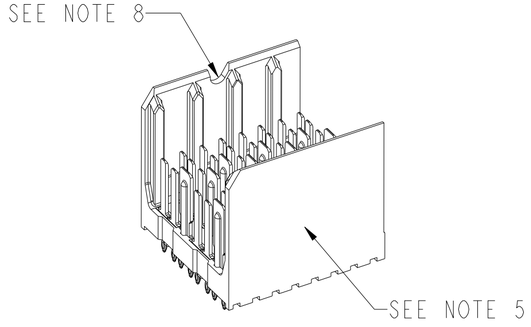
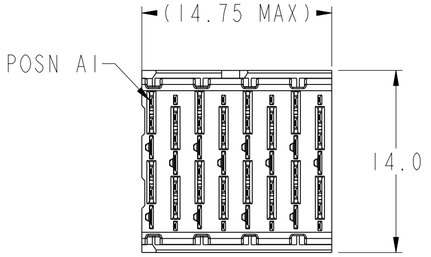
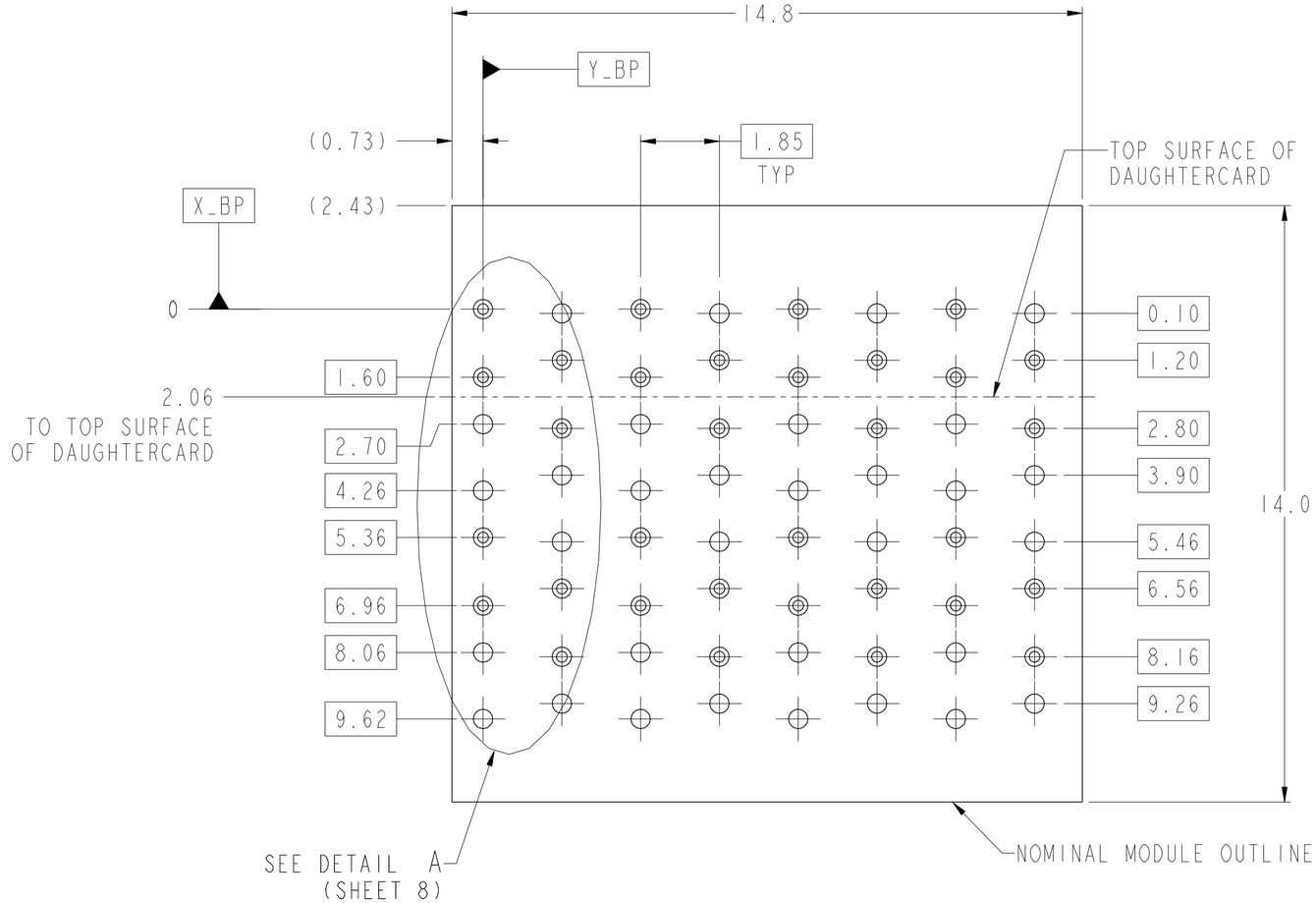
spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/25	projection	MM	size A2 / scale 6:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2017/05/24			
		chr	Stone Li	2017/06/05			ecn no ELX-DG-27080-1
		appr	Heaven Cen	2017/06/05	product family -		rel level Released
surface - ASME Y14.5	linear 0.X ±0.2; 0.XX ±0.10; 0.XXX ±0.050	Amphenol FCi	title: MODULE ASSEMBLY, VERTICAL HEADER, 8-COLUMN, 2-PAIR		dwg no 10113949		rev H
	angular 0° ±-°		cat. no. SEE P/N TREE	Product - Customer Drw			sheet 1 of 8

OPEN (2-WALL) MODULE

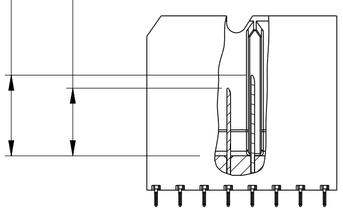


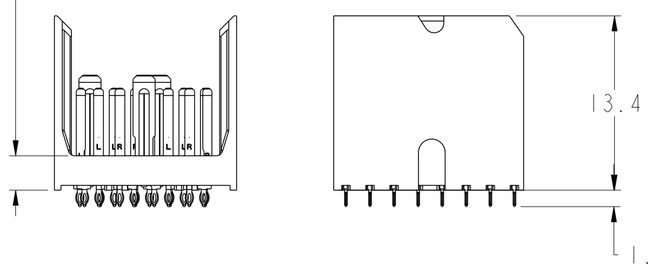


SCALE 3:1



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1





spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/25	projection	MM	size A2 / scale 6:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2017/05/24			
				chr	Stone Li	2017/06/05			ecn no ELX-DG-27080-1
				appr	Heaven Cen	2017/06/05	product family -		rel level Released
surface - ASME Y14.5	linear	0.X	±0.2	Amphenol FCi	title	MODULE ASSEMBLY	dwg no 10113949		rev H
		0.XX	±0.10			VERTICAL HEADER, 8-COLUMN, 2-PAIR			
		0.XXX	±0.050						
	angular	0°	±-°		cat. no.	SEE P/N TREE	Product - Customer Drw		sheet 2 of 8

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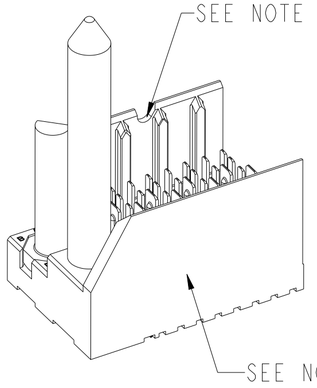
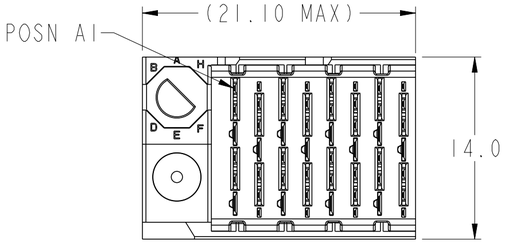
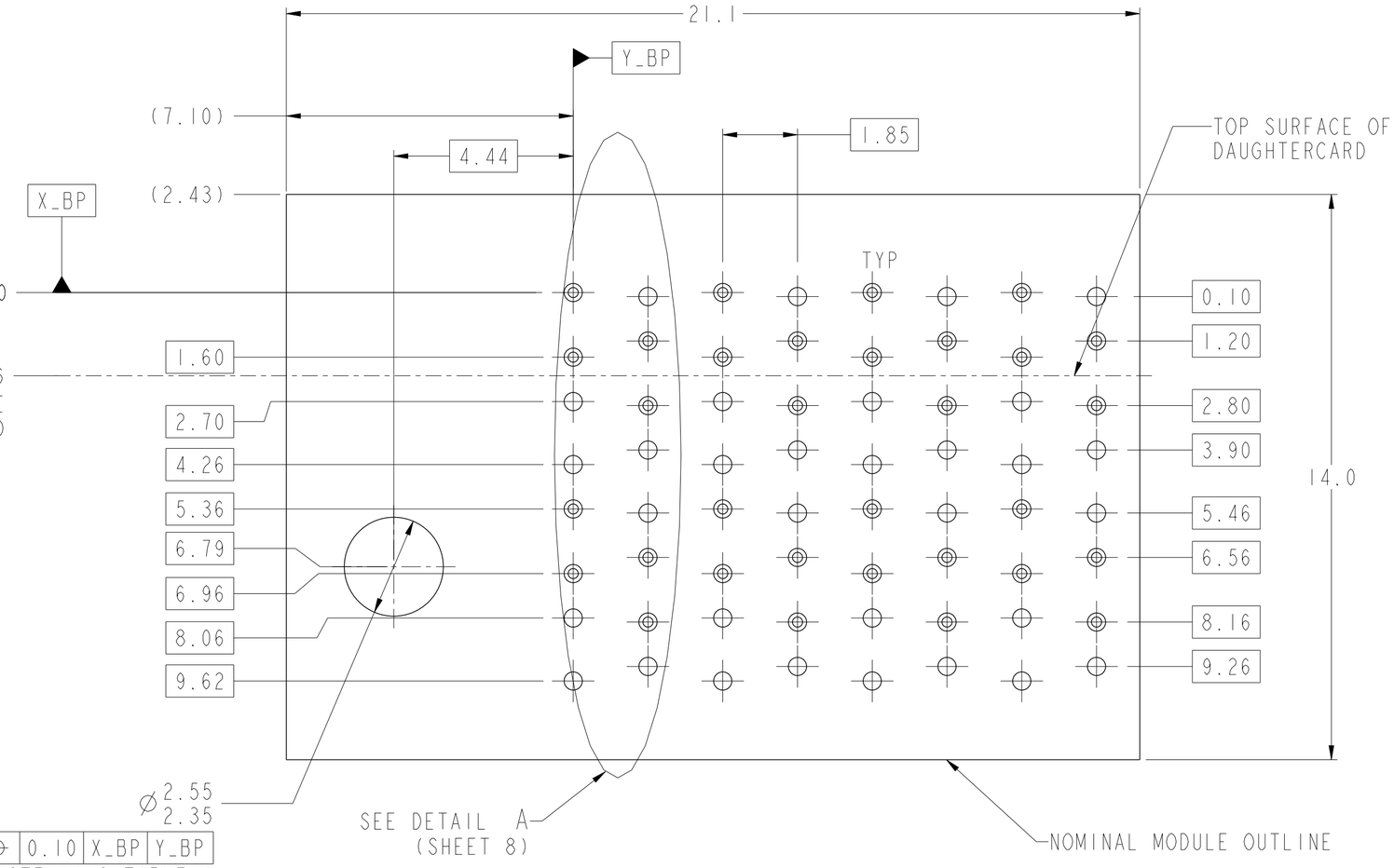
LEFT POLARIZING/GUIDE MODULE





SCALE 3:1

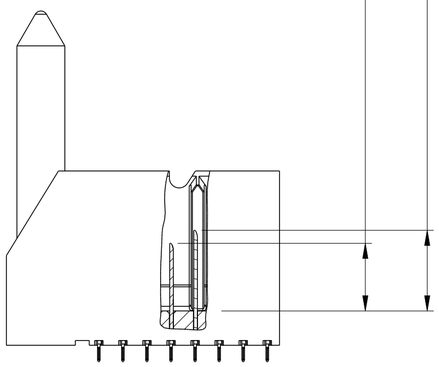


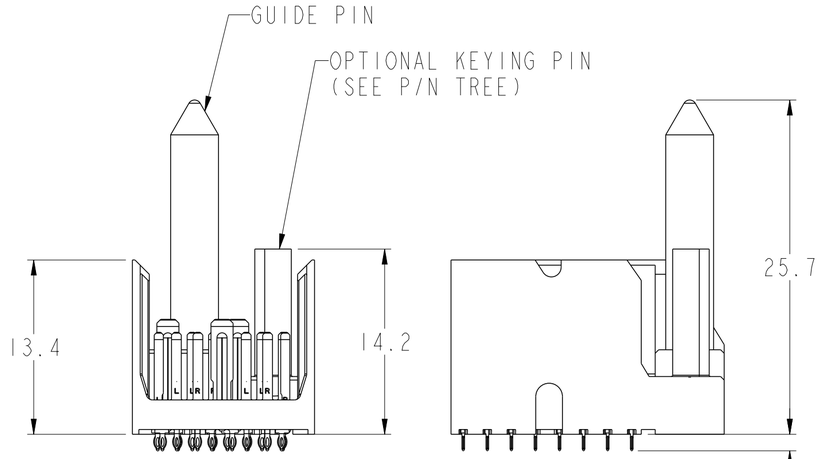
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

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)





spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/25	projection	MM
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2017/05/24		
			chr	Stone Li	2017/06/05	size A2	scale 4:1
			appr	Heaven Cen	2017/06/05	ecn no ELX-DG-27080-1	
						product family -	rel level Released
surface ASME Y14.5	linear	0.X ±0.2	Amphenol FCi	title	MODULE ASSEMBLY	dwg no 10113949	rev H
		0.XX ±0.10			VERTICAL HEADER, 8-COLUMN, 2-PAIR		
		0.XXX ±0.050					
	angular	0° ±-°		cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 3 of 8

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Amphenol FCi

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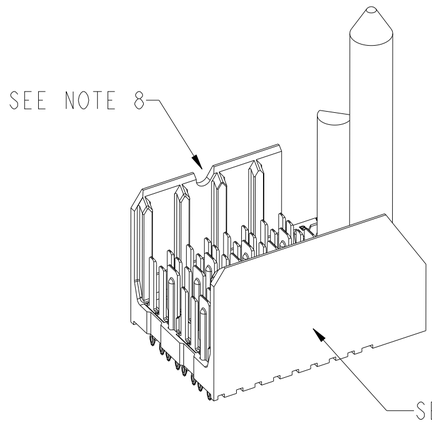
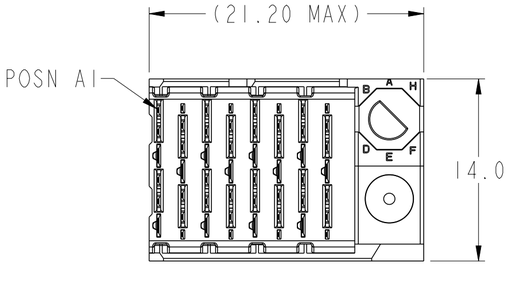
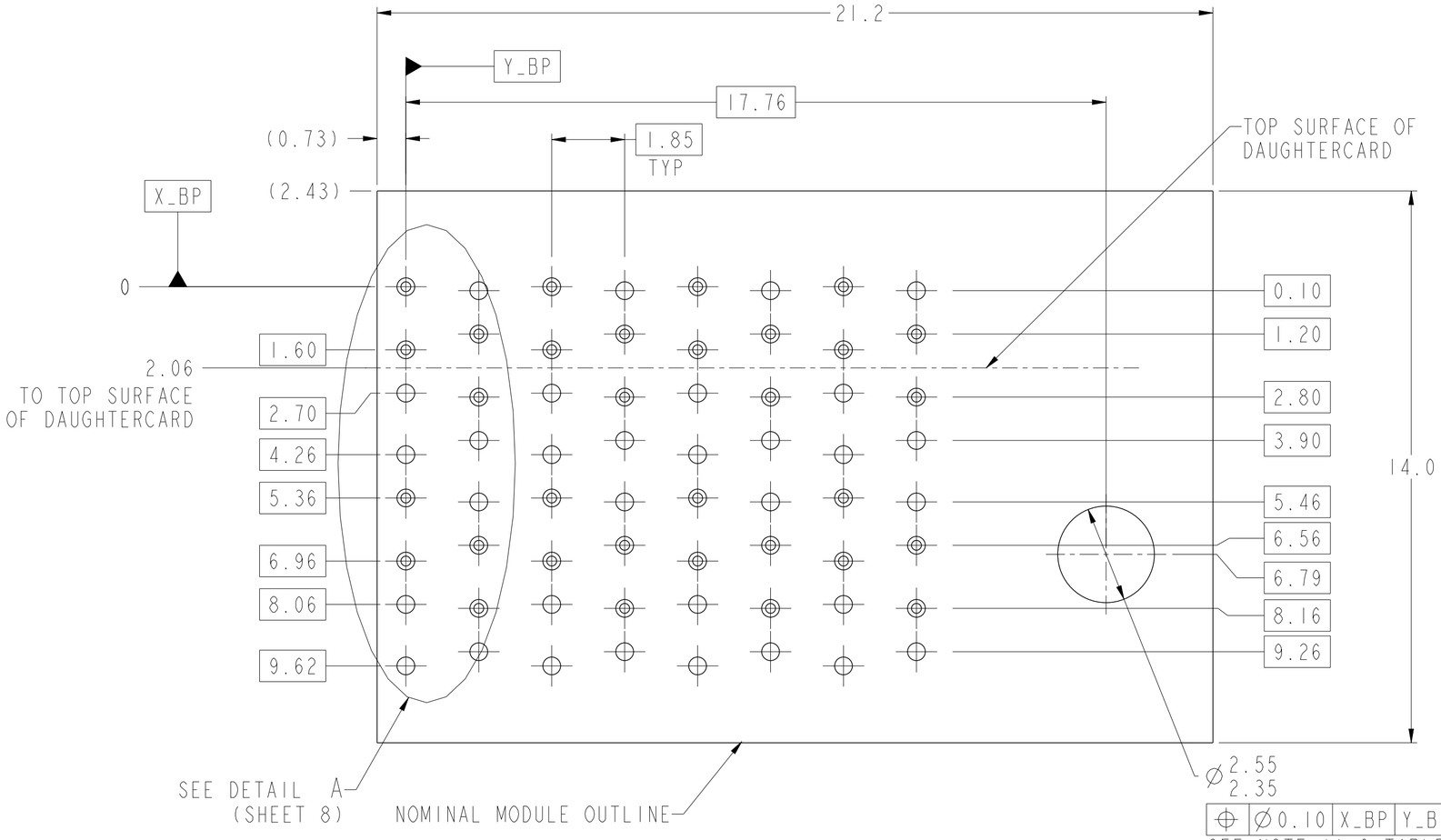
RIGHT POLARIZING/GUIDE MODULE



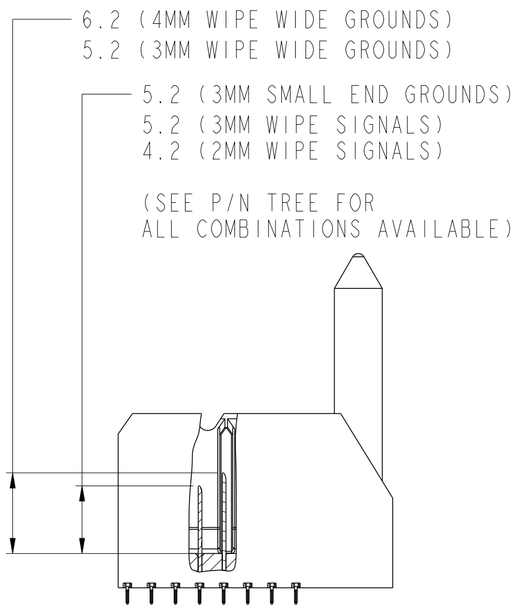


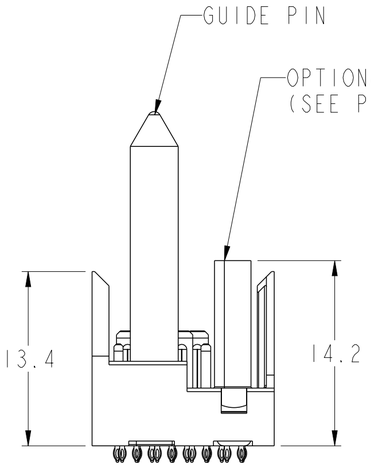
SCALE 3:1

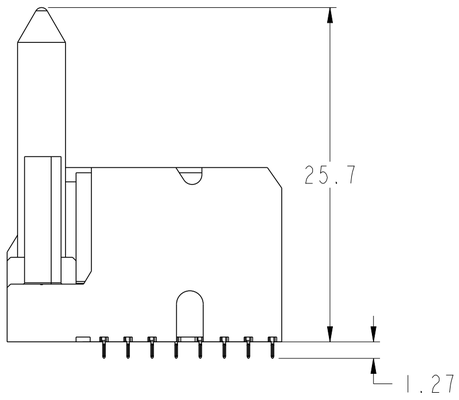


⌖	∅0.10	X_BP	Y_BP

SEE NOTE 11 & TABLE 1







PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/25	projection: MM
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2017/05/24	size: A2
ASME Y14.5				chr	Stone Li	2017/06/05	scale: 4:1
				appr	Heaven Cen	2017/06/05	ecn no: ELX-DG-27080-1
							product family: -
							rel level: Released
surface: -	linear	0.X	±0.2	Amphenol FCi	title: MODULE ASSEMBLY		dwg no: 10113949
		0.XX	±0.10		VERTICAL HEADER, 8-COLUMN, 2-PAIR		rev: H
ASME Y14.5		0.XXX	±0.050				
	angular	0°	±-°		cat. no. SEE P/N TREE	Product - Customer Drw	sheet 4 of 8

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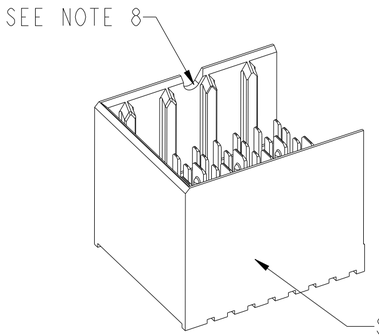
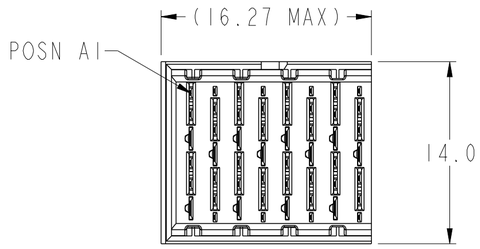
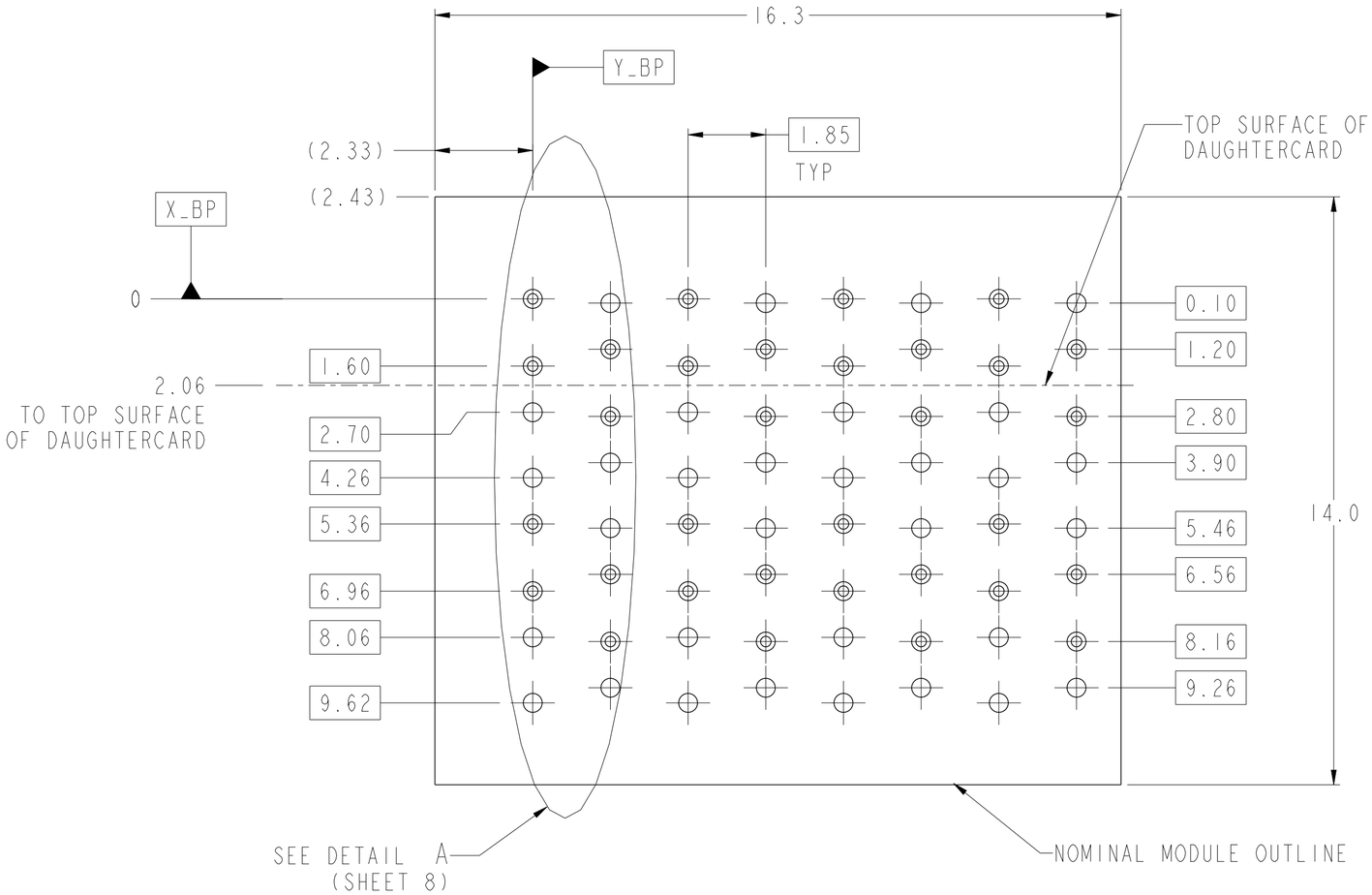
LEFT WALL MODULE

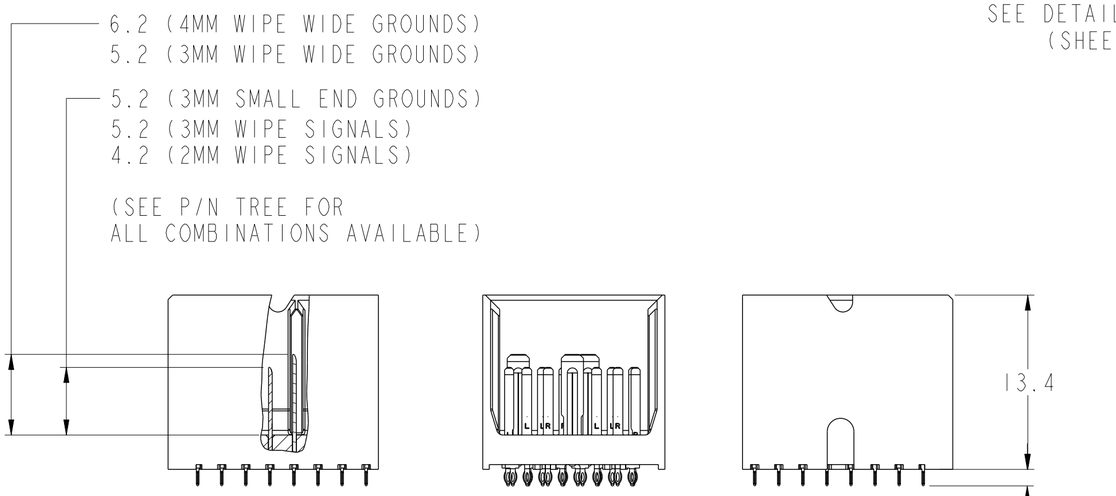




SCALE 3:1



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1



spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/25	projection	MM
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2017/05/24		
			chr	Stone Li	2017/06/05		
			appr	Heaven Cen	2017/06/05	product family	-
surface - ASME Y14.5	linear	0.X ±0.2	Amphenol FCi	title	MODULE ASSEMBLY	dwg no	10113949
		0.XX ±0.10			VERTICAL HEADER, 8-COLUMN, 2-PAIR		
		0.XXX ±0.050					
	angular	0° ±-°		cat. no.	SEE P/N TREE	Product - Customer Drw	

size	A2	scale	6:1	rev	H	sheet 5 of 8			
ecn no	ELX-DG-27080-1								
rel level	Released								

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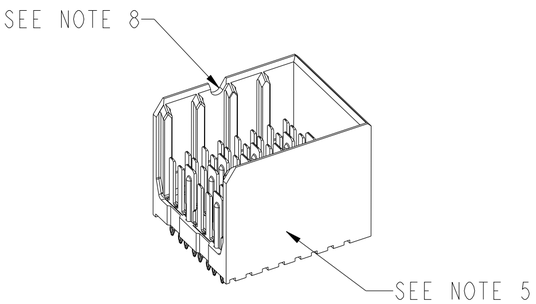
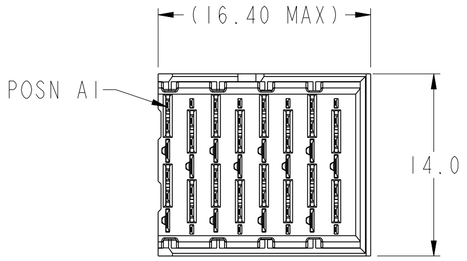
RIGHT WALL MODULE





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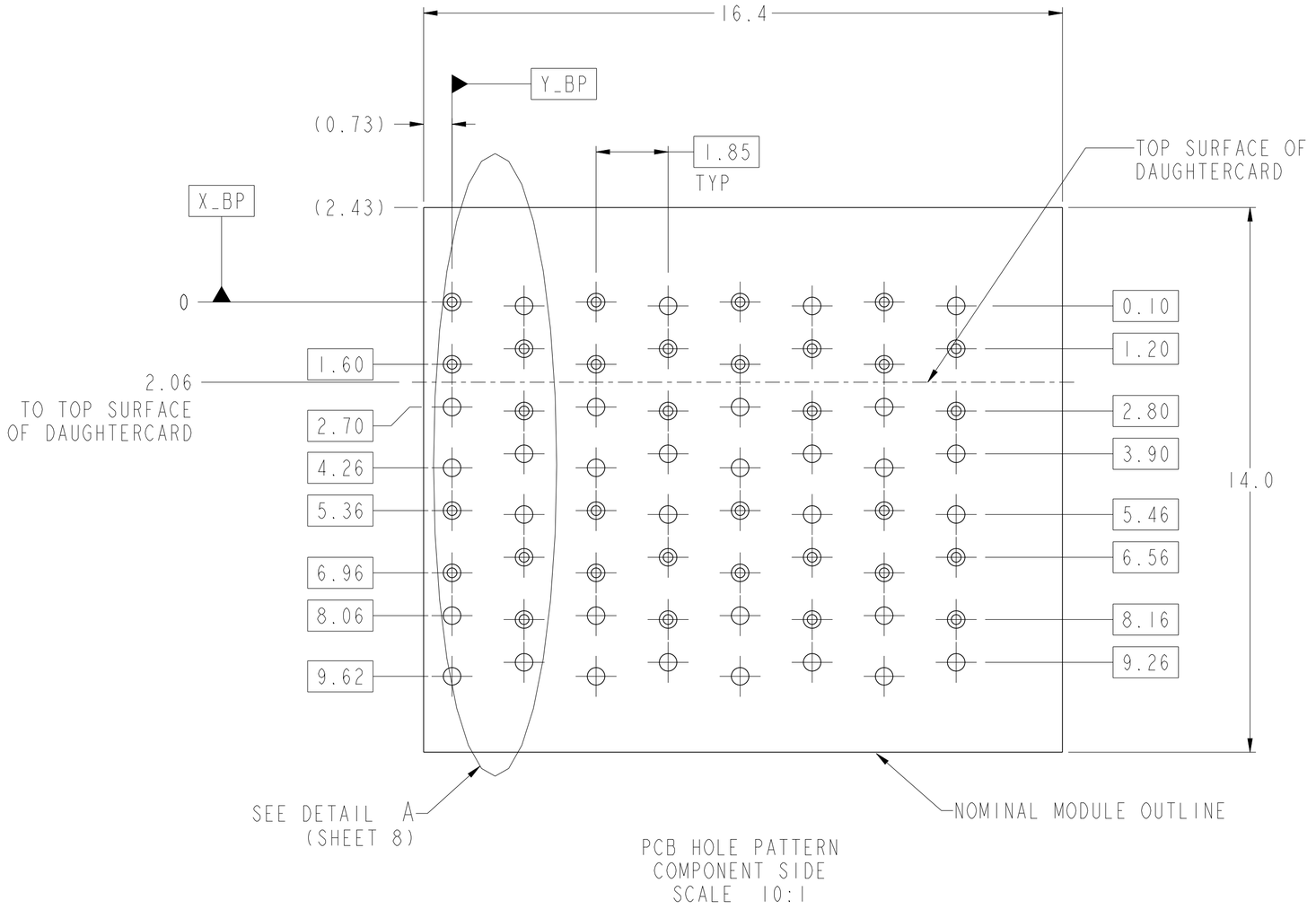
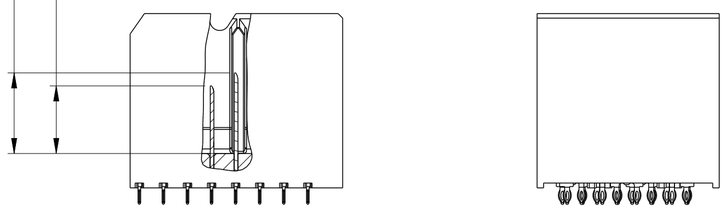


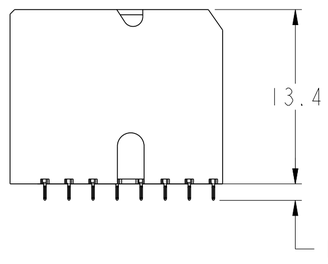
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

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)





spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/25	projection	MM	size A2 / scale 6:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2017/05/24			
				chr	Stone Li	2017/06/05			ecn no ELX-DG-27080-1
				appr	Heaven Cen	2017/06/05	product family -		rel level Released
surface - ASME Y14.5	linear	0.X	±0.2	Amphenol FCi	title: MODULE ASSEMBLY, VERTICAL HEADER, 8-COLUMN, 2-PAIR			dwg no 10113949	rev H
		0.XX	±0.10						
		0.XXX	±0.050						
	angular	0°	±-°		cat. no. SEE P/N TREE	Product - Customer Drw			sheet 6 of 8

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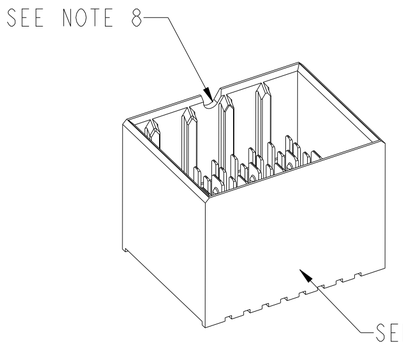
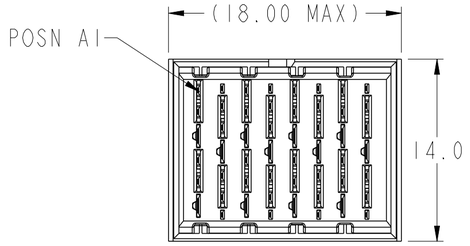
FOUR WALL MODULE





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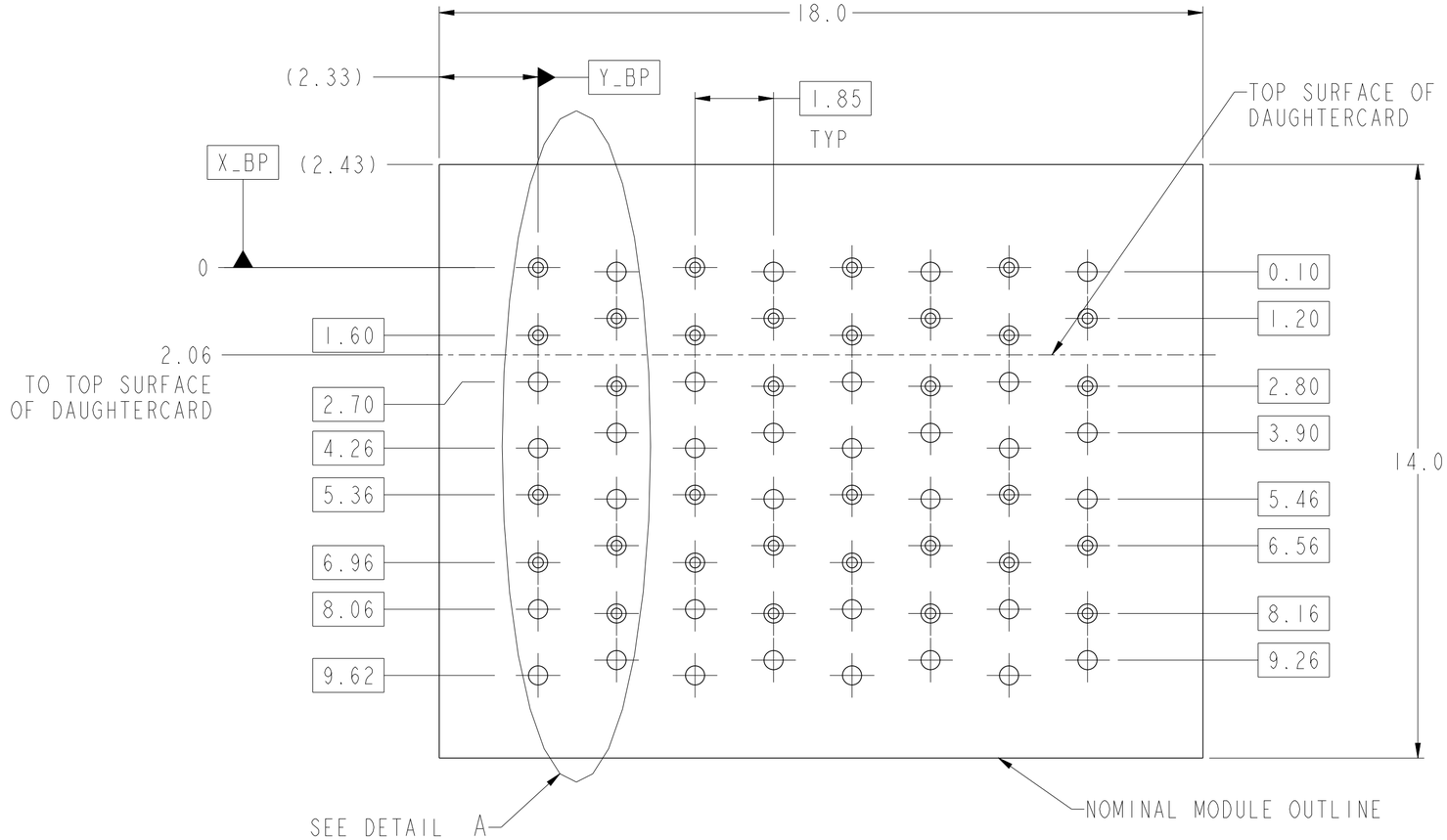
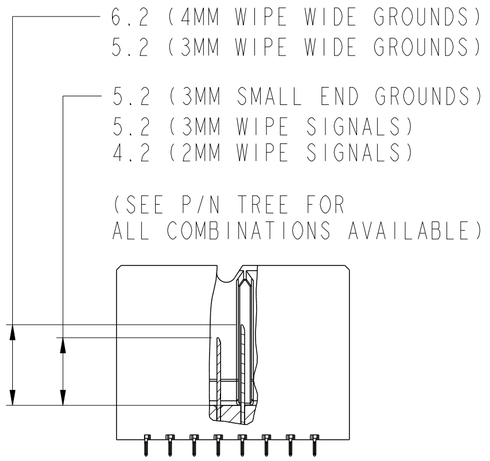
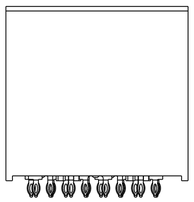
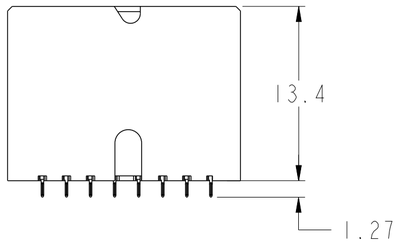


PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1







spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/25	projection	MM	size A2	scale 5:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2017/05/24				
				chr	Stone Li	2017/06/05			ecn no	ELX-DG-27080-1
				appr	Heaven Cen	2017/06/05	product family	-	rel level	Released
surface - ASME Y14.5	linear	0.X	±0.2	Amphenol FCi	title	MODULE ASSEMBLY	dwg no	10113949	rev	H
		0.XX	±0.10			VERTICAL HEADER, 8-COLUMN, 2-PAIR				
		0.XXX	±0.050							
	angular	0°	±-°		cat. no.	SEE P/N TREE	Product - Customer Drw		sheet 7 of 8	

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TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL		
COMPLIANT PIN DRILL	PTH	PAD
∅0.55 [0.0217"]	∅0.45±0.05	∅0.85
∅0.45 [0.0177"]	∅0.36±0.05	∅0.75

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 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, OR TIN-LEAD ALLOY OVER NICKEL. SEE P/N TREE.

3. PRODUCT SPECIFICATION: GS-12-588

4. APPLICATION SPECIFICATION: GS-20-121

(5.) PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.

6. HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR-PHASE REFLOW OVEN.

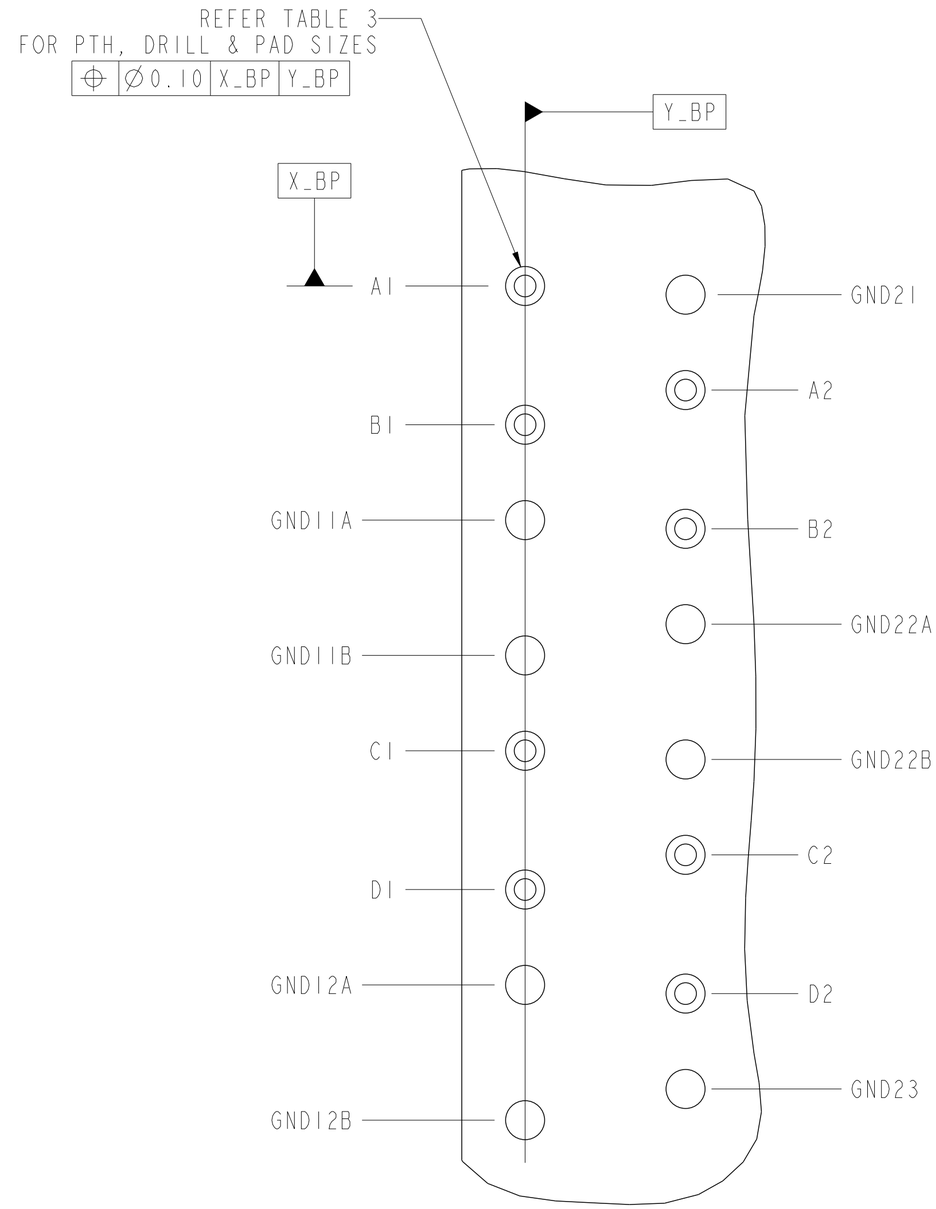
7. PACKAGING MEETS GS-14-920 LEAD-FREE LABELING SPECIFICATION.

(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.) OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.



DETAIL A
SCALE 20:1

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/25	projection	MM	size A2 / scale 6:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2017/05/24			
				chr	Stone Li	2017/06/05			ecn no ELX-DG-27080-1
				appr	Heaven Cen	2017/06/05	product family XCede		rel level Released
surface ASME Y14.5	linear	0.X	±0.2	Amphenol FCi	title: MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 2-PAIR		dwg no 10113949		rev H
		0.XX	±0.10						
		0.XXX	±0.050						
	angular	0°	±-°	www.fci.com	cat. no. SEE P/N TREE		Product - Customer Drw		sheet 8 of 8

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