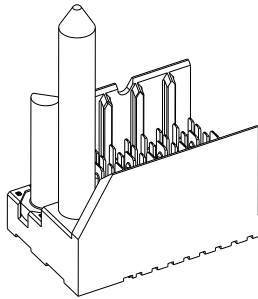
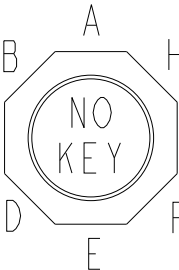
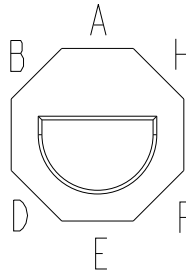
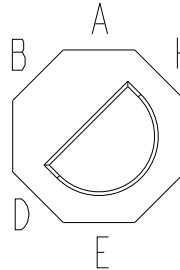
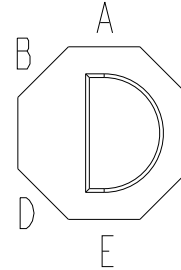
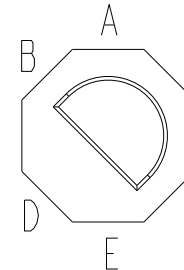
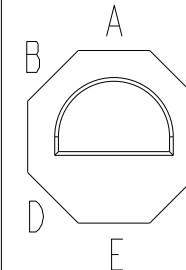
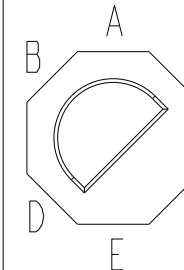
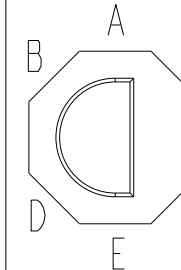
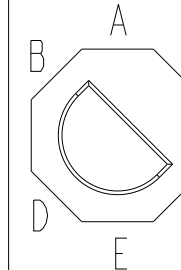
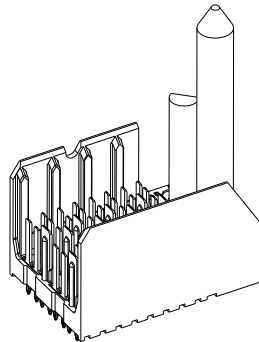
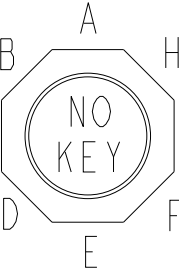
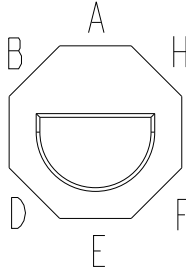
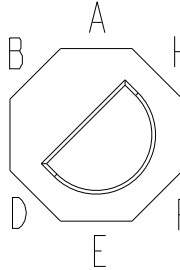
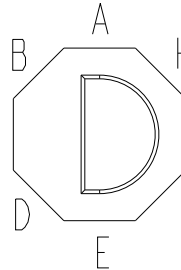
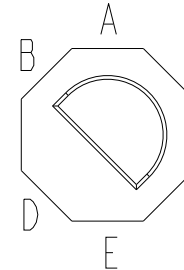
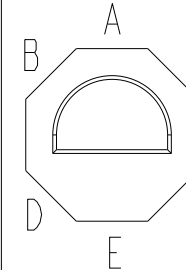
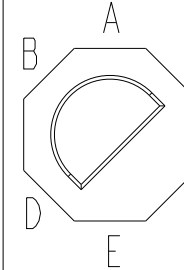
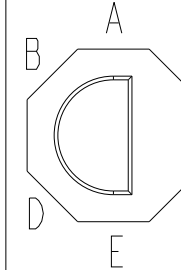
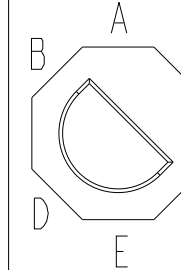
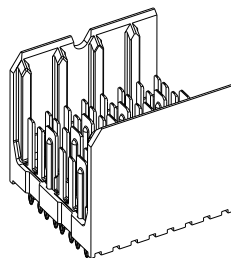
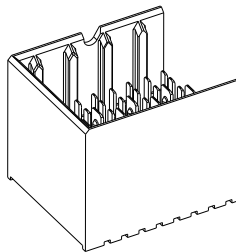
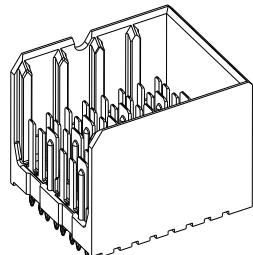
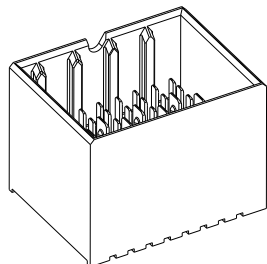


1 0 1 1 3 9 4 9 - X 0 E - X 0 X L F											
8-COLUMN DIFFERENTIAL SIGNAL LEAD-FREE DESIGNATION ONLY WITH APPLICABLE PLATING CODES											
MODULE DESCRIPTION	LETTER DESIGNATION REPRESENTED IN DASH NUMBER									BASE MODULE	
LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 3)	J	A	B	C	D	E	F	G	H		
											
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										

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	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"]

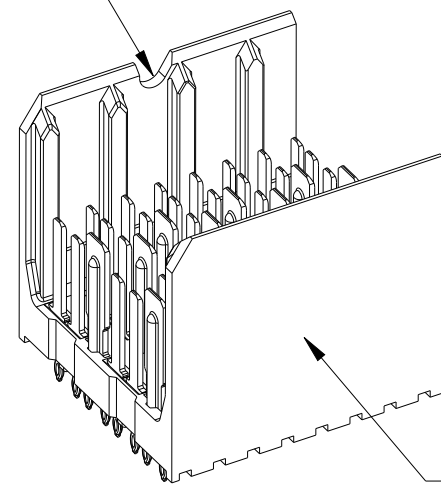
TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)		
	GROUNDED	UNGROUNDED
FINISHED	Ø2.35-2.55	Ø2.35-2.55
PAD	Ø5.50	N/A
PLATED	YES	NO
DRILL (mm/in)	2.58 /.1015	2.44 /.096

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

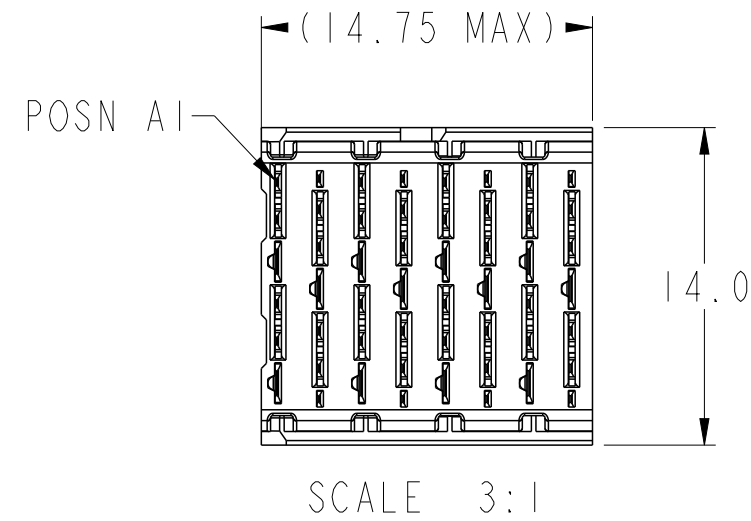
spec ref	SEE NOTES					dr	Kok-Hoe Lee	2010/06/25			size	A2	scale	6:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED					eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1						
ASME Y14.5						chr	Heaven Cen	2016/06/08			product family	-	rel level	Released				
						appr	Pei-Ming Zheng	2016/06/15										
surface		linear	0.X	±0.2		title					MODULE ASSEMBLY	dwg no	10113949	rev	G			
			0.XX	±0.10														
ASME Y14.5			angular	0°		±°		cat. no.					SEE P/N TREE	Product - Customer Drw		sheet 1 of 8		

OPEN (2-WALL) MODULE

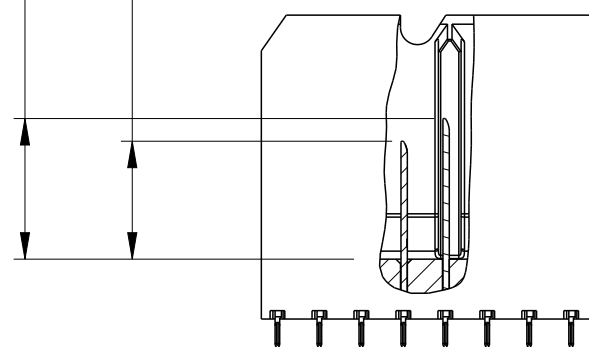
SEE NOTE 8



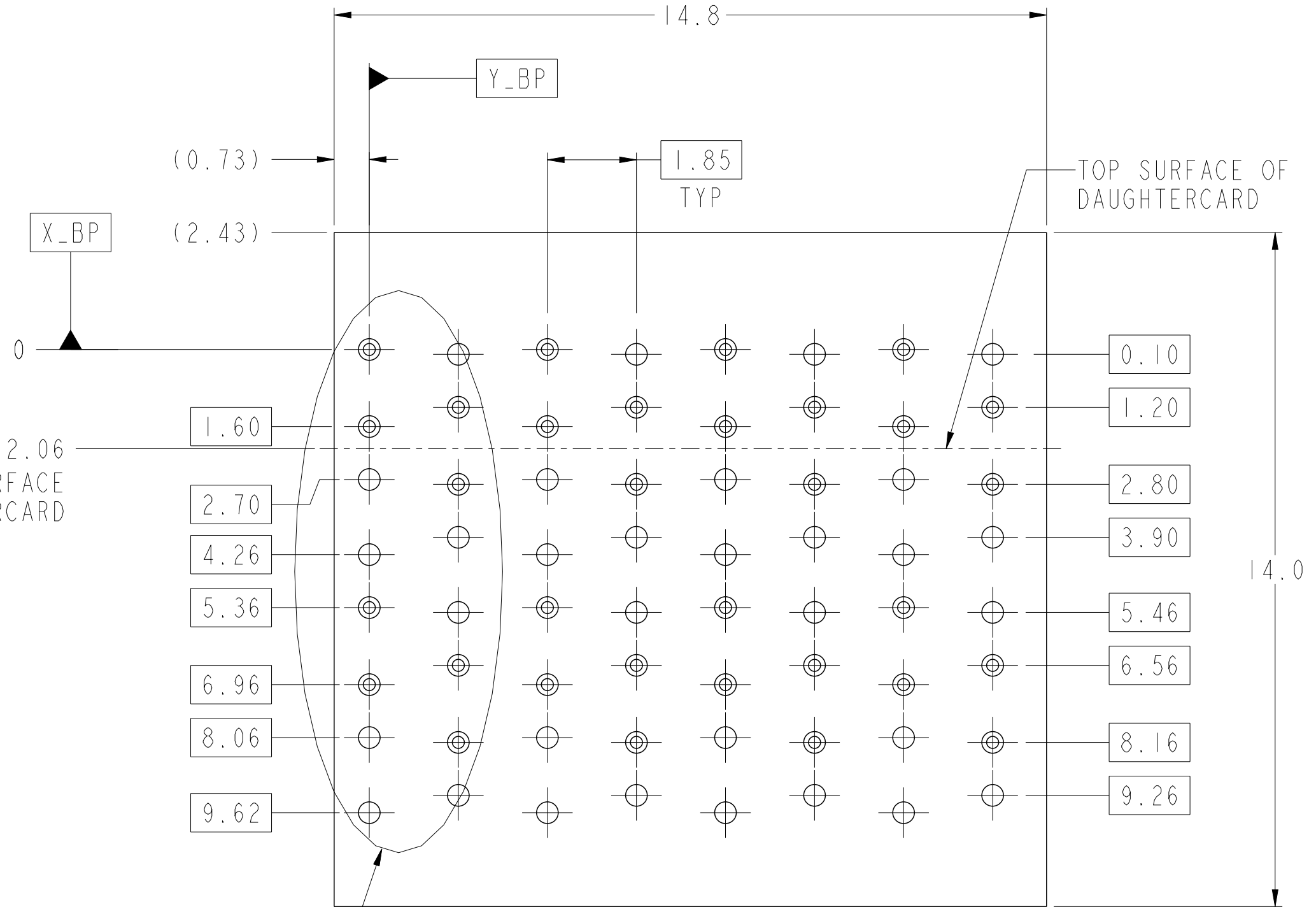
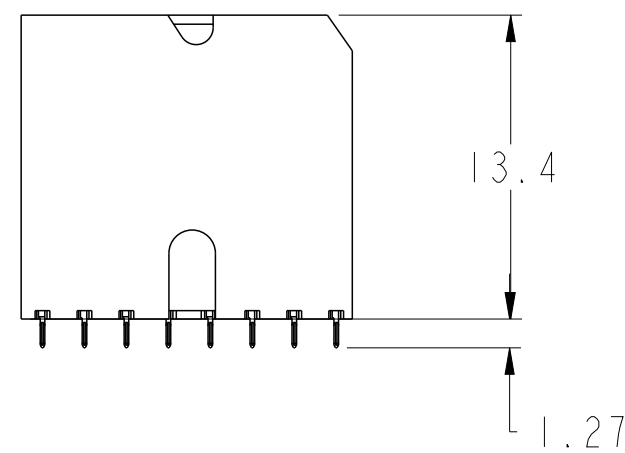
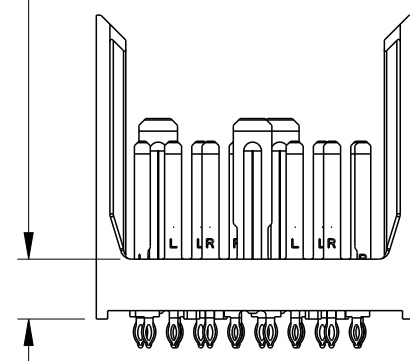
SEE NOTE 5



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)



2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE

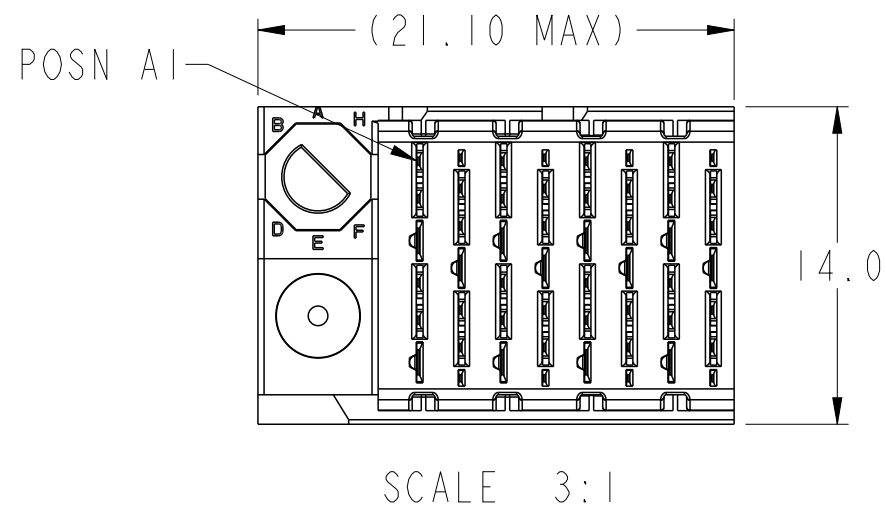
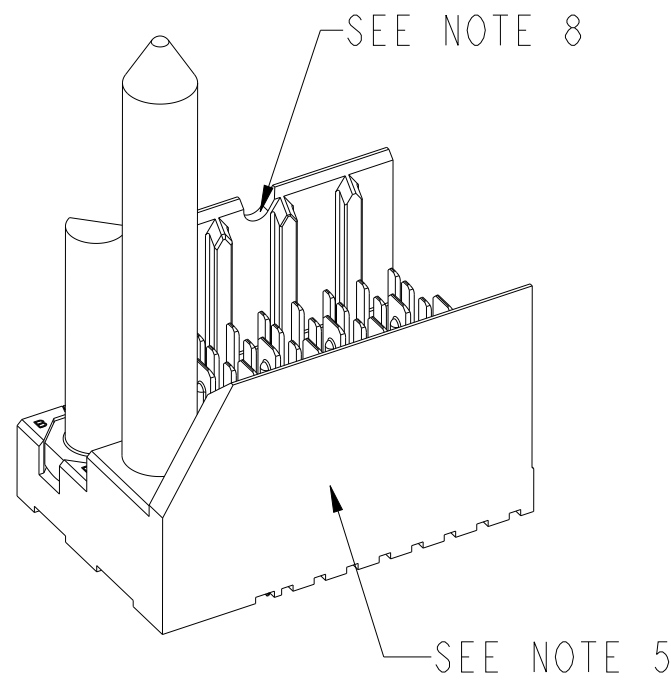


SEE DETAIL A
(SHEET 8)

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		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2016/06/03						ecn no		ELX-DG-24191-1												
ASME Y14.5					chr		Heaven Cen		2016/06/08						rel level		Released												
					appr		Pei-Ming Zheng		2016/06/15		product family										-								
surface		linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 2-PAIR										dwg no		10113949		rev		G	
				0.XX		±0.10																							
				0.XXX		±0.050																							
ASME Y14.5		angular		0°		±°						cat. no.				SEE P/N TREE				Product - Customer Drw				sheet 2 of 8					

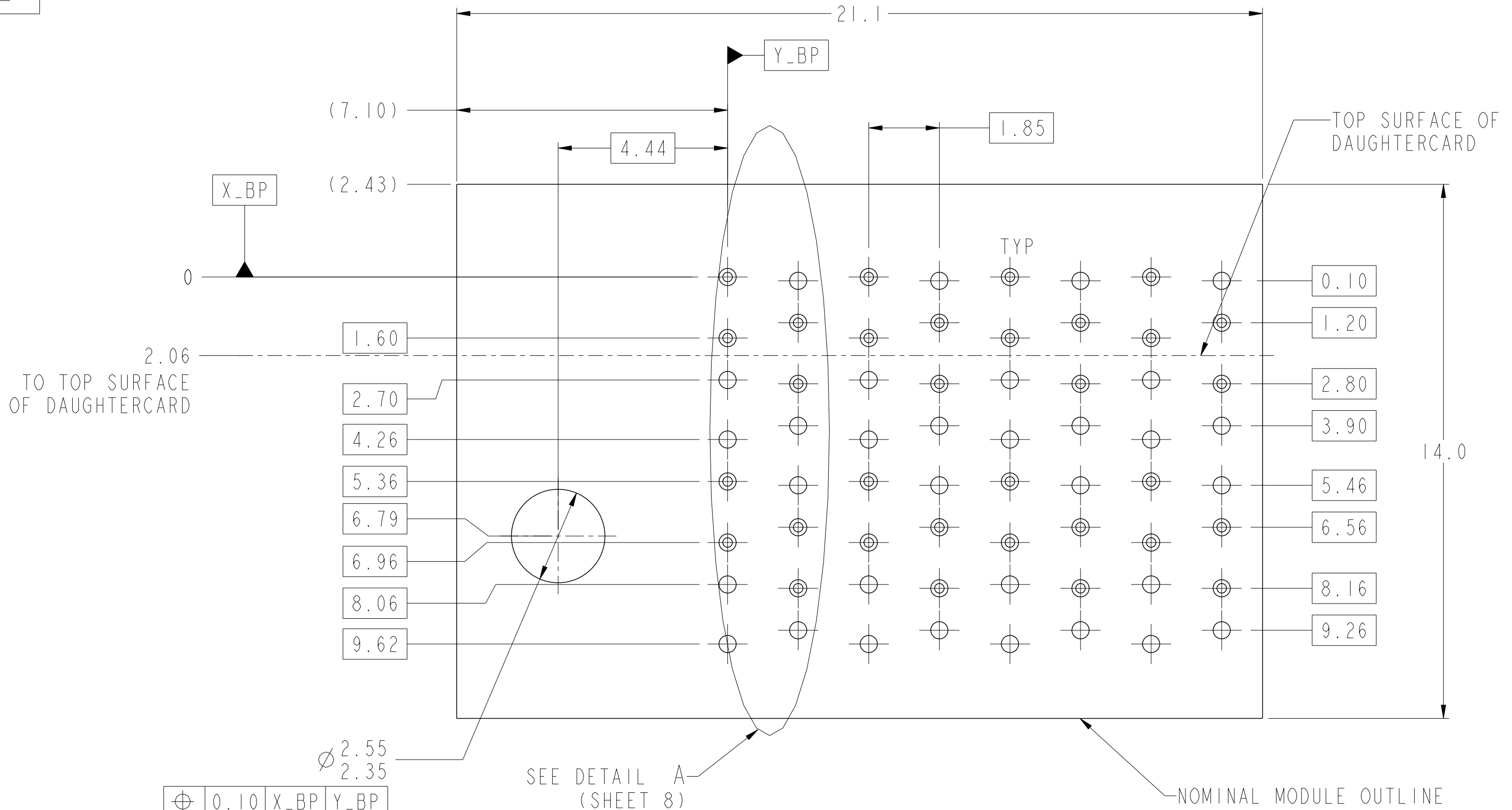
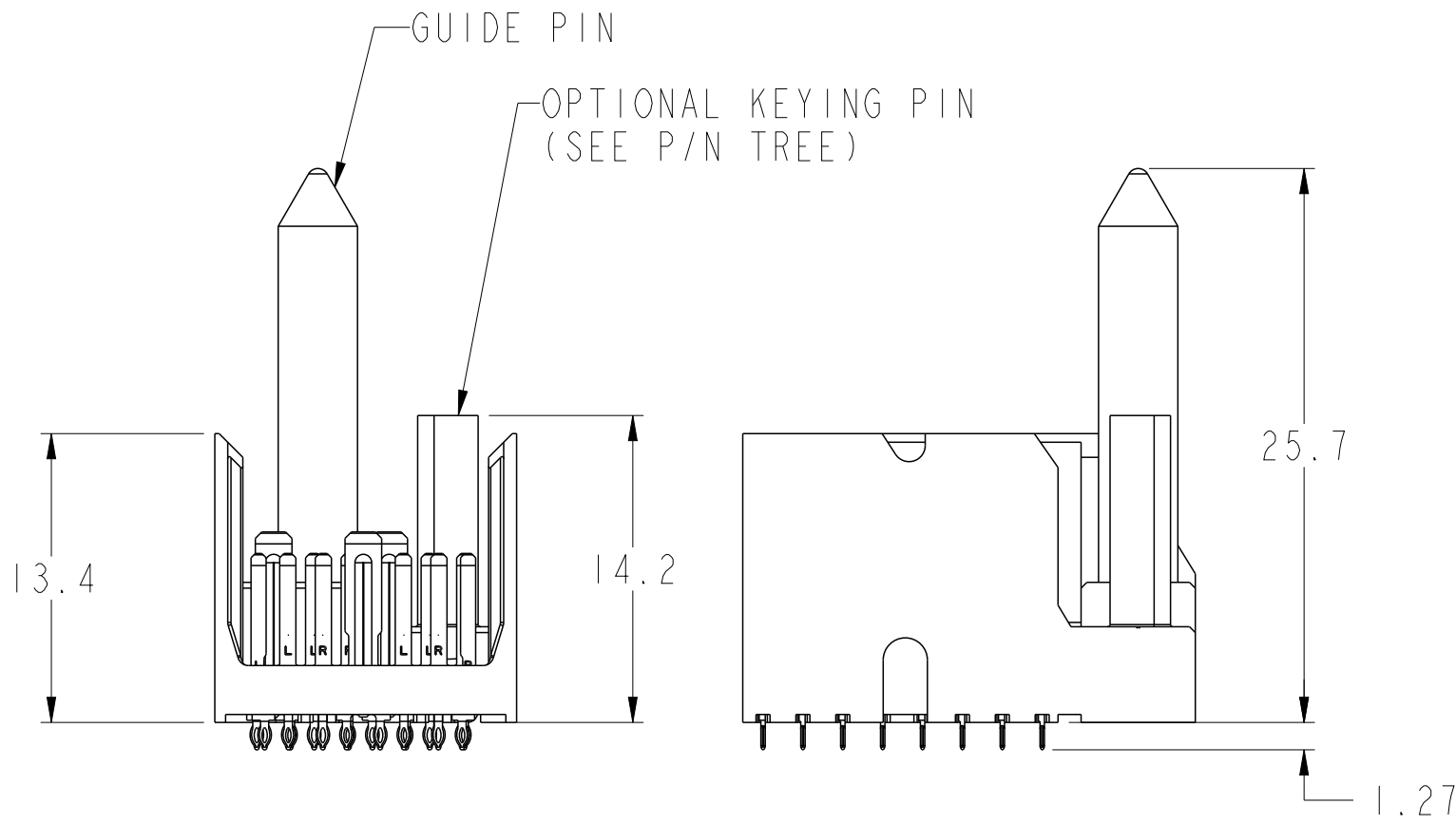
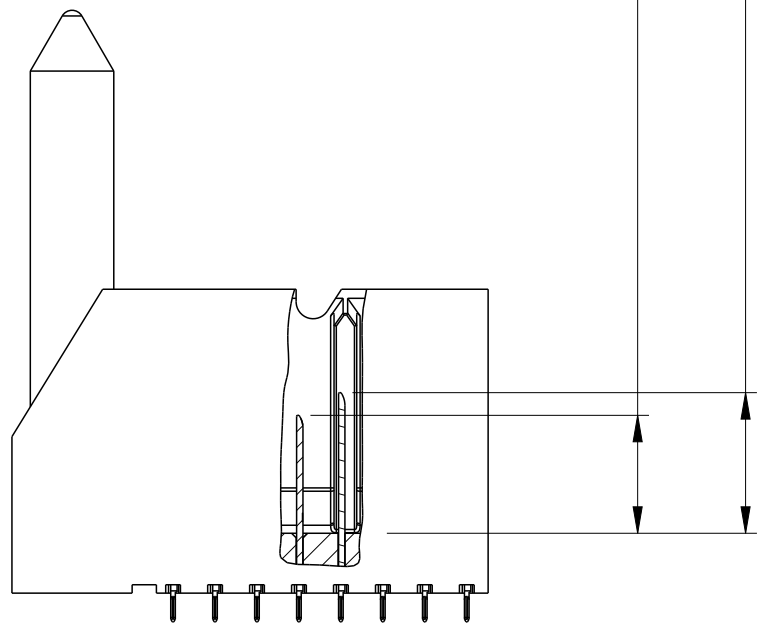
LEFT POLARIZING/GUIDE MODULE



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)



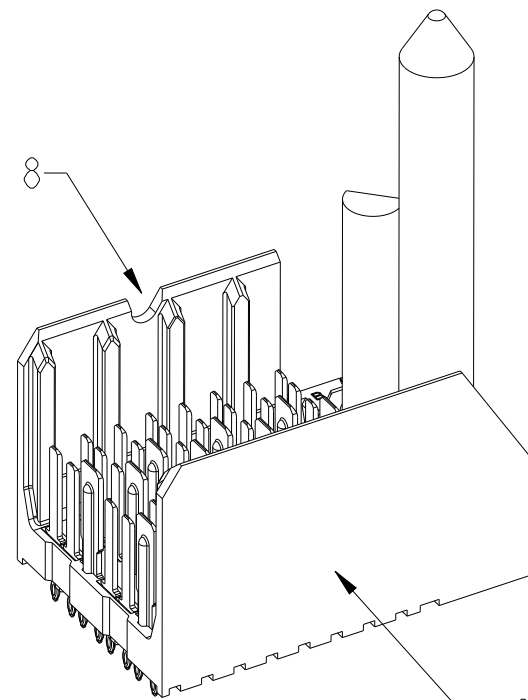
Ø	0.10	X_BP	Y_BP
SEE NOTE 11 & TABLE 1			

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

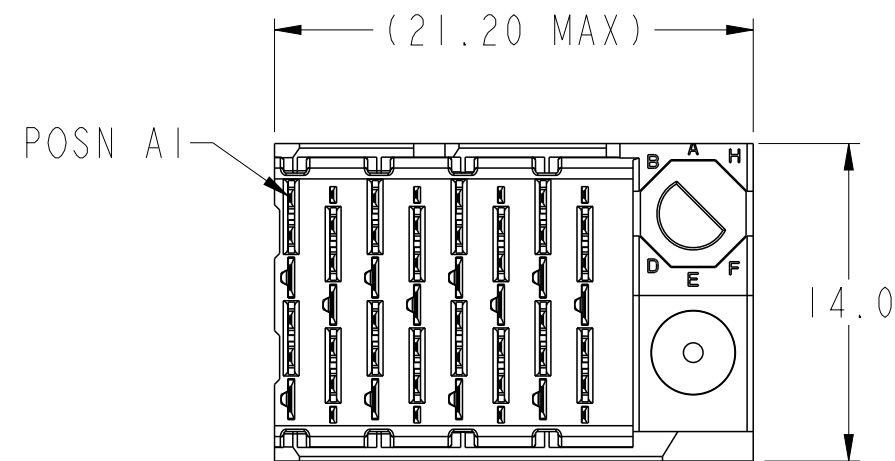
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ASME Y14.5		appr	Pei-Ming Zheng	2016/06/15	product family	-	rel level	Released		
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5										
title		MODULE ASSEMBLY		VERTICAL HEADER, 8-COLUMN, 2-PAIR		cat. no.		SEE P/N TREE	Product - Customer Drw	sheet 3 of 8
PDS: Rev :G		STATUS:Released		Printed: Jun 15, 2016						

RIGHT POLARIZING/GUIDE MODULE

SEE NOTE 8



SEE NOTE 5

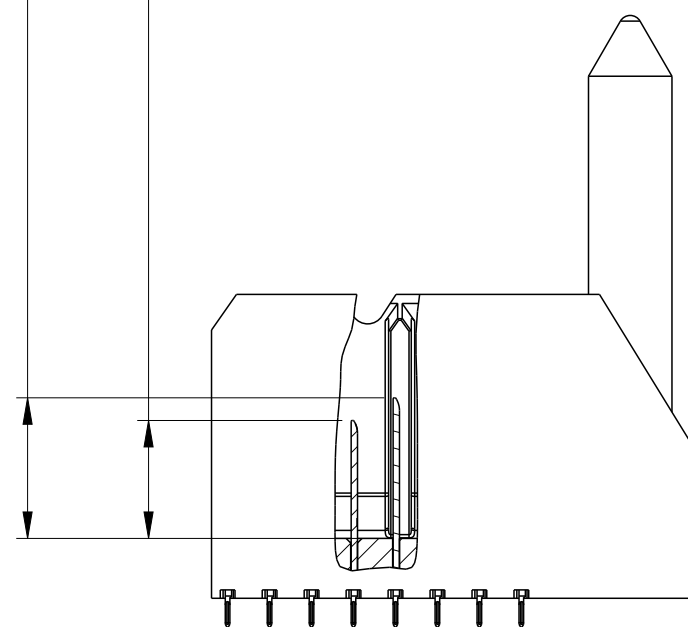


SCALE 3:1

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)



TO TOP SURFACE
OF DAUGHTERCARD

X_BP

Y_BP

1.85
TYP

(0.73)

(2.43)

0

2.06

1.60

2.70

4.26

5.36

6.96

8.06

9.62

21.2

17.76

TOP SURFACE OF
DAUGHTERCARD

0.10

1.20

2.80

3.90

5.46

6.56

6.79

8.16

9.26

14.0

SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 10:1

Ø 2.55
2.35

Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)

13.4

14.2

25.7

1.27

spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/25		projection		MM		size		A2		scale		4:1								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2016/06/03						ecn no		ELX-DG-24191-1												
ASME Y14.5					chr		Heaven Cen		2016/06/08						rel level		Released												
					appr		Pei-Ming Zheng		2016/06/15						product family														
surface		linear		0.X		±0.2				title		MODULE ASSEMBLY										dwg no		10113949		rev		G	
				0.XX		±0.10																							
				0.XXX		±0.050																							
ASME Y14.5		angular		0°		±0°						cat. no.		SEE P/N TREE				Product - Customer Drw				sheet 4 of 8							

PDS: Rev :G

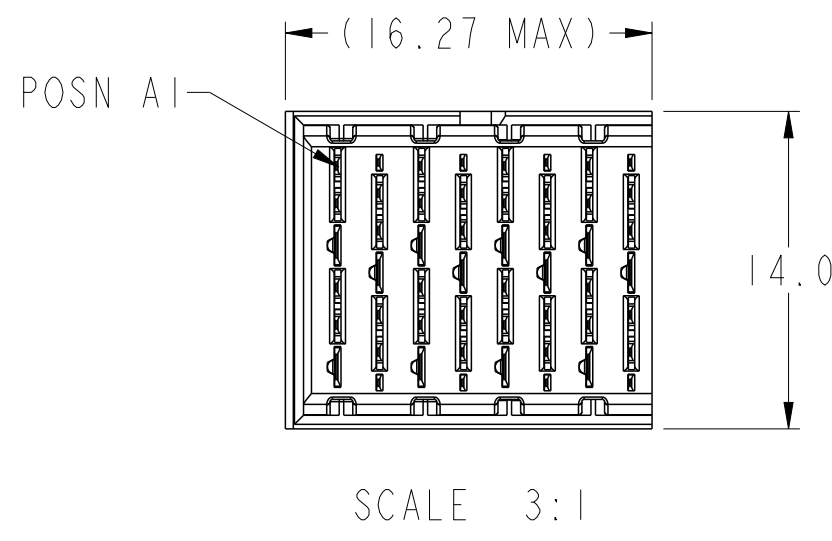
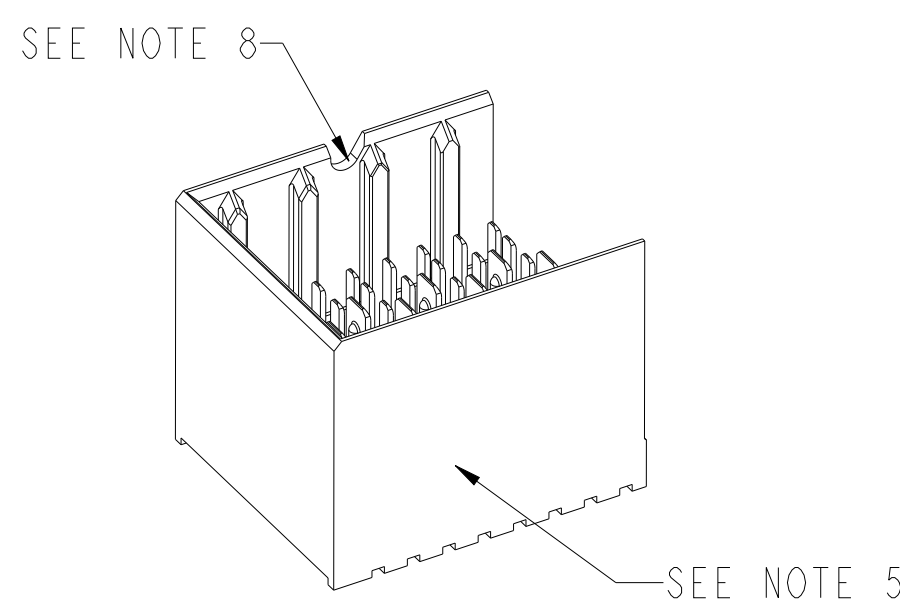
STATUS:Released

Printed: Jun 15, 2016

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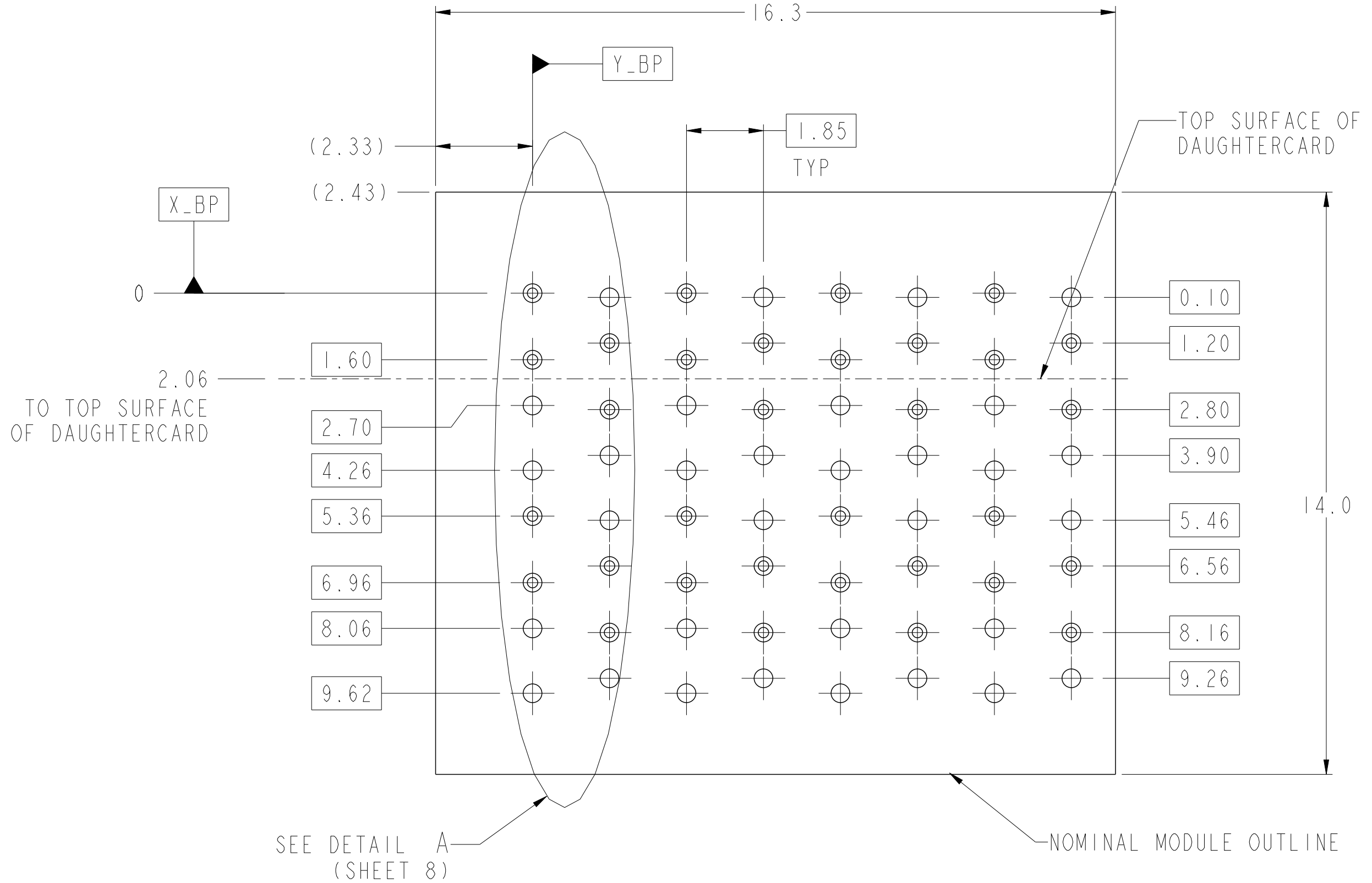
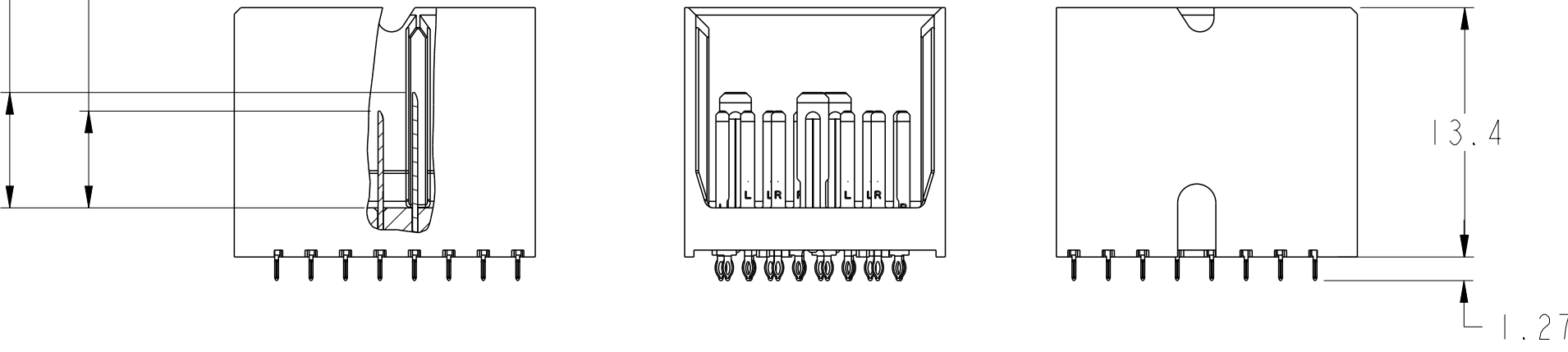
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LEFT WALL MODULE



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	eng	Michael Song	2016/06/03	chr	Heaven Cen	2016/06/08	ecn no	ELX-DG-24191-1	
		appr	Pei-Ming Zheng	2016/06/15	product family	-	rel level	Released		
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5										

Amphenol FCI	MODULE ASSEMBLY	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 5 of 8
title	VERTICAL HEADER, 8-COLUMN, 2-PAIR	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 5 of 8

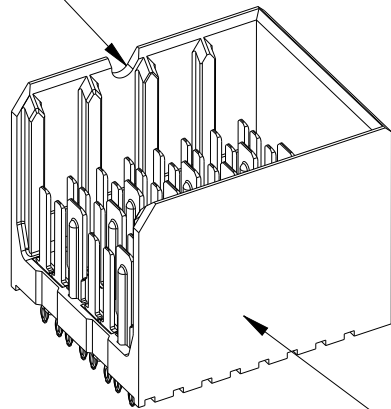
dwg no	10113949	rev	G
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Amphenol FCI

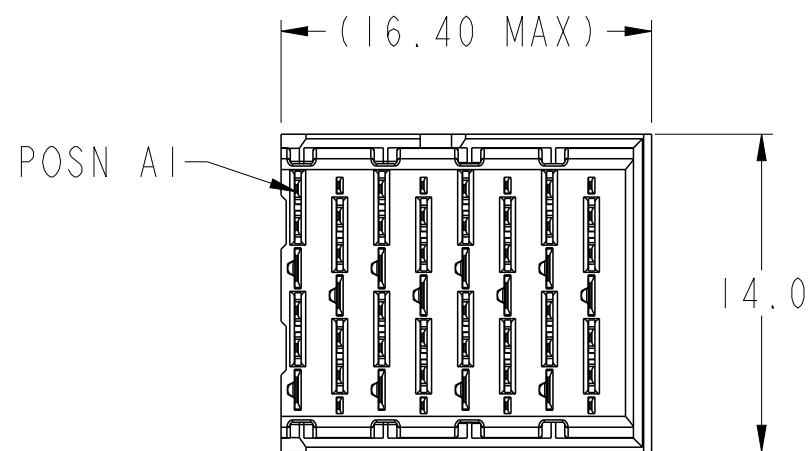
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RIGHT WALL MODULE

SEE NOTE 8



SEE NOTE 5

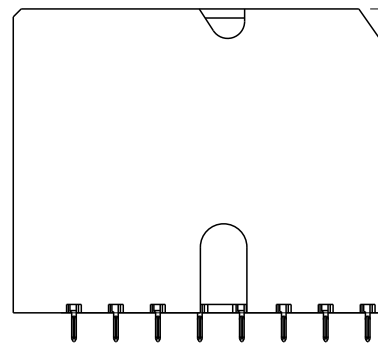
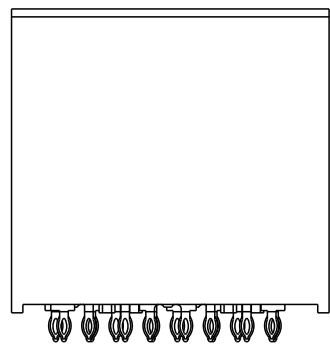
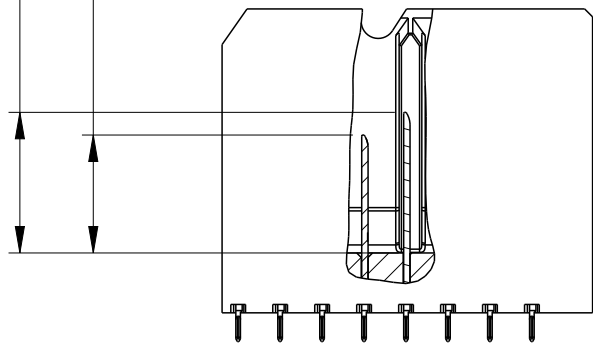


SCALE 3:1

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)



13.4

1.27

X_BP

(0.73)

(2.43)

0

2.06

TO TOP SURFACE
OF DAUGHTERCARD

1.60

2.70

4.26

5.36

6.96

8.06

9.62

Y_BP

16.4

1.85

TYP

TOP SURFACE OF
DAUGHTERCARD

0.10

1.20

2.80

3.90

5.46

6.56

8.16

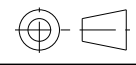
9.26

14.0

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		6:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song	2016/06/03					ecn no		ELX-DG-24191-1						
ASME Y14.5				chr		Heaven Cen	2016/06/08					product family		-		rel level		Released		
				appr		Pei-Ming Zheng	2016/06/15													
surface		✓	linear	0.X		±0.2		Amphenol FCi		title		MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 2-PAIR		dwg no		10113949		rev		G
				0.XX		±0.10														
				0.XXX		±0.050														
ASME Y14.5			angular	0°		±°		cat. no.		SEE P/N TREE		Product - Customer Drw				sheet 6 of 8				

PDS: Rev :G

STATUS:Released

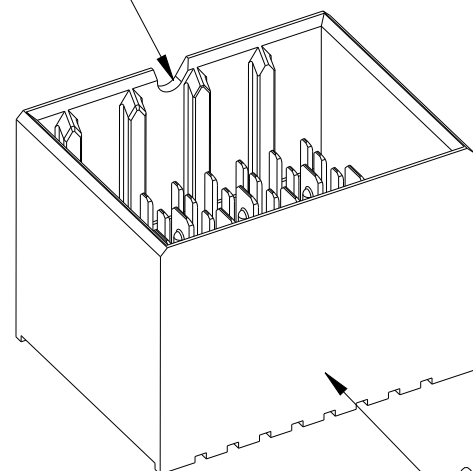
Printed: Jun 15, 2016

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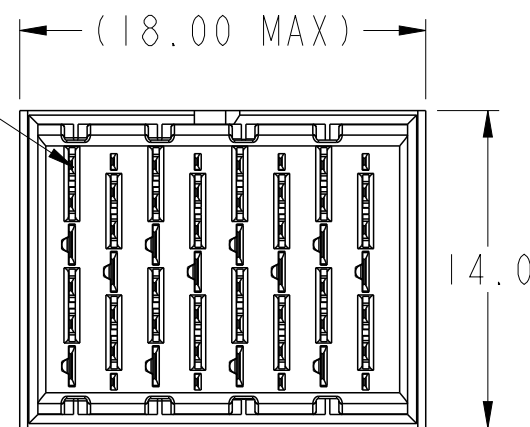
FOUR WALL MODULE

SEE NOTE 8



SEE NOTE 5

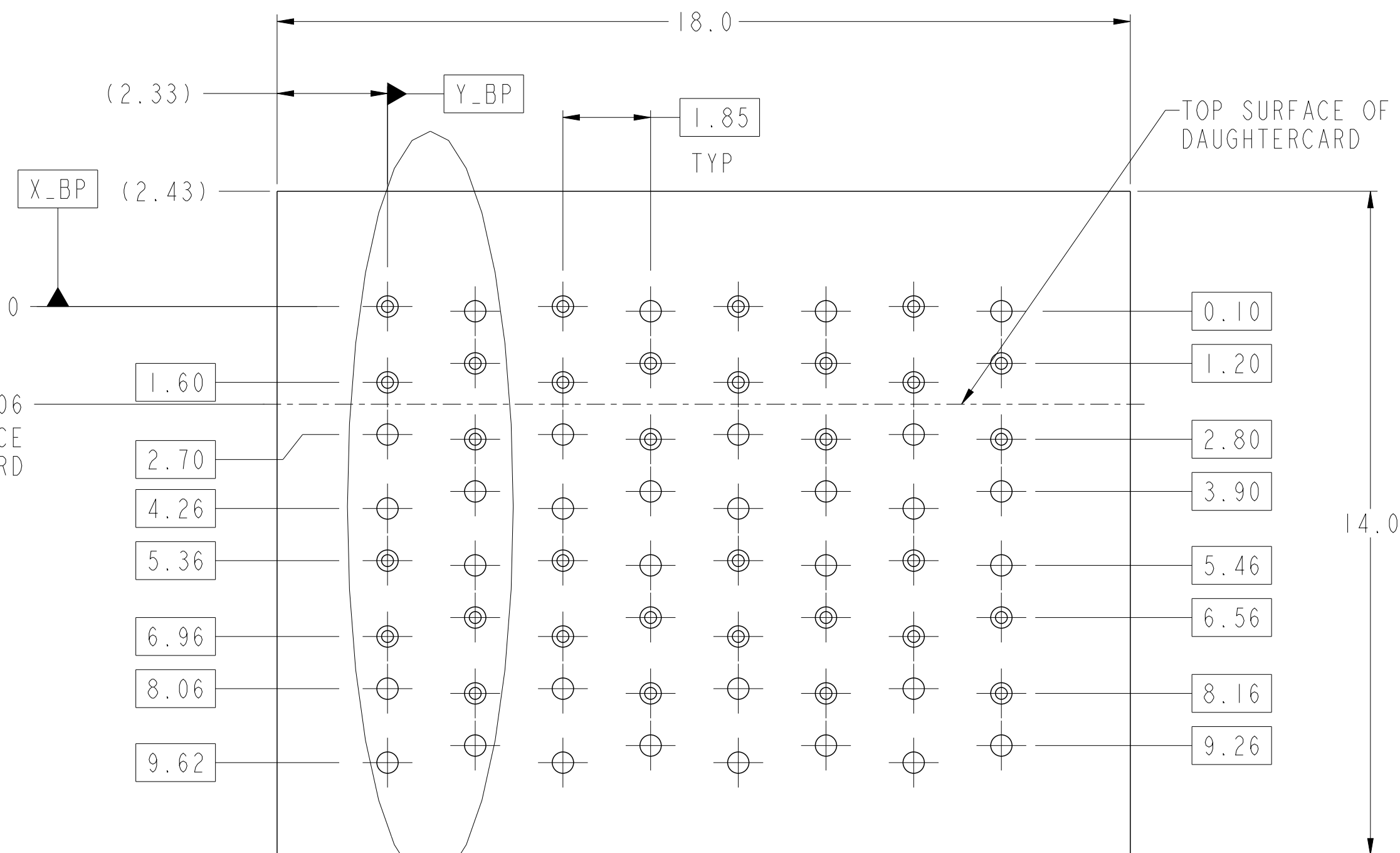
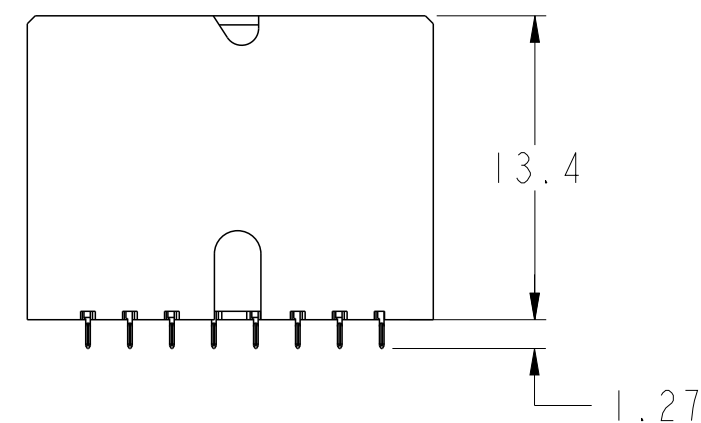
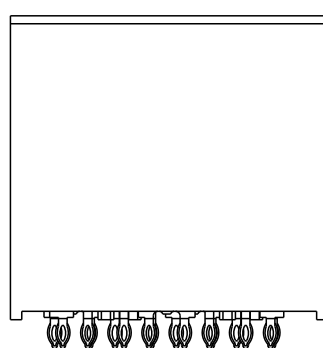
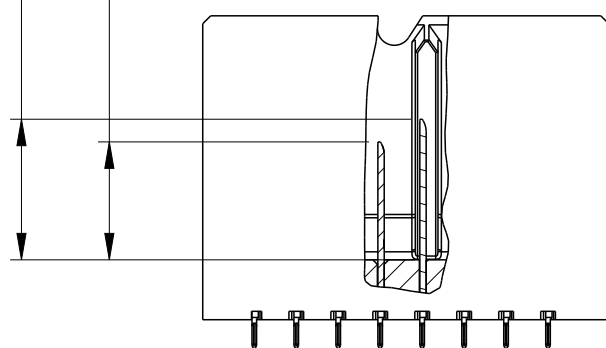
POSN A1



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		scale		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/03						A2		5:1		
ASME Y14.5				chr		Heaven Cen		2016/06/08		ecn no		ELX-DG-24191-1						
				appr		Pei-Ming Zheng		2016/06/15		product family		- rel level		Released				
surface		linear	0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10113949		rev	
			0.XX		±0.10													
			0.XXX		±0.050													
ASME Y14.5		angular	0°		±°						cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 7 of 8	

PDS: Rev :G

STATUS:Released

Printed: Jun 15, 2016

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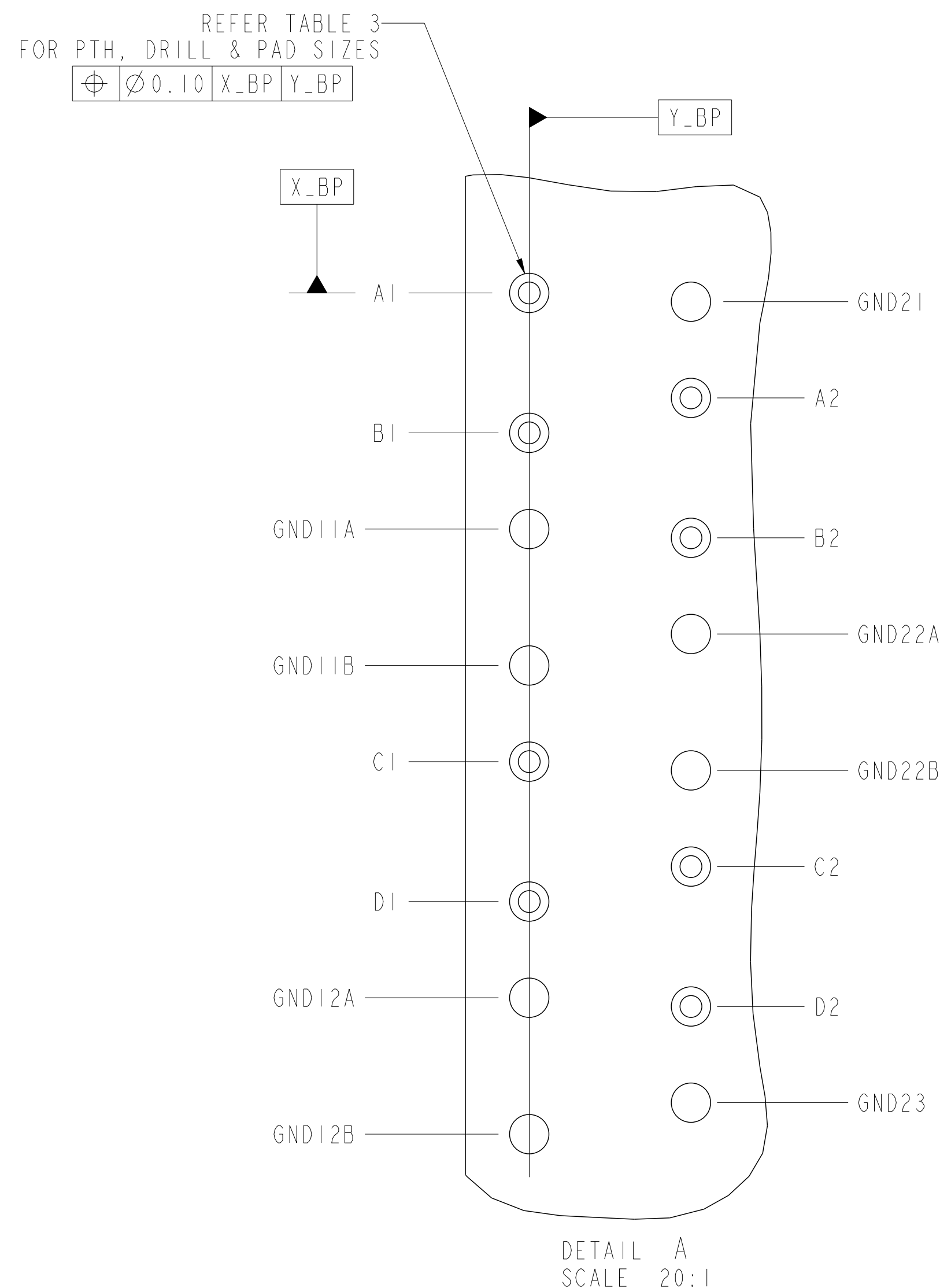
COMPLIANT PIN DRILL	PTH	PAD
Ø 0.55 [0.0217"]	Ø 0.45±0.05	Ø 0.85
Ø 0.45 [0.0177"]	Ø 0.36±0.05	Ø 0.75

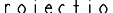
NOTES:

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.



spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/25		MM 	size	A2	scale	6:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1					
ASME Y14.5			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 VERTICAL HEADER, 8-COLUMN, 2-PAIR			dwg no	10113949		rev	G
		0.XX	±0.10											
		0.XXX	±0.050											
ASME Y14.5	angular	0°	±0.°	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 8 of 8				

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

FCI / Amphenol:

[10113949-00E-10B](#) [10113949-00E-20B](#) [10113949-00E-30B](#) [10113949-00E-40B](#) [10113949-00E-50B](#) [10113949-00E-50DLF](#) [10113949-00E-60B](#) [10113949-00E-60DLF](#) [10113949-00E-70B](#) [10113949-00E-70DLF](#) [10113949-00E-80B](#) [10113949-00E-80DLF](#) [10113949-10E-10B](#) [10113949-10E-20B](#) [10113949-10E-30B](#) [10113949-10E-40B](#) [10113949-10E-50B](#) [10113949-10E-50DLF](#) [10113949-10E-60B](#) [10113949-10E-60DLF](#) [10113949-10E-70B](#) [10113949-10E-70DLF](#) [10113949-10E-80B](#) [10113949-10E-80DLF](#) [10113949-A0E-10B](#) [10113949-A0E-20B](#) [10113949-A0E-30B](#) [10113949-A0E-40B](#) [10113949-A0E-50B](#) [10113949-A0E-50DLF](#) [10113949-A0E-60B](#) [10113949-A0E-60DLF](#) [10113949-A0E-70B](#) [10113949-A0E-70DLF](#) [10113949-A0E-80B](#) [10113949-A0E-80DLF](#) [10113949-B0E-10B](#) [10113949-B0E-20B](#) [10113949-B0E-30B](#) [10113949-B0E-40B](#) [10113949-B0E-50B](#) [10113949-B0E-50DLF](#) [10113949-B0E-60B](#) [10113949-B0E-60DLF](#) [10113949-B0E-70B](#) [10113949-B0E-70DLF](#) [10113949-B0E-80B](#) [10113949-B0E-80DLF](#) [10113949-C0E-10B](#) [10113949-C0E-20B](#) [10113949-C0E-30B](#) [10113949-C0E-40B](#) [10113949-C0E-50B](#) [10113949-C0E-50DLF](#) [10113949-C0E-60B](#) [10113949-C0E-60DLF](#) [10113949-C0E-70B](#) [10113949-C0E-70DLF](#) [10113949-C0E-80B](#) [10113949-C0E-80DLF](#) [10113949-D0E-10B](#) [10113949-D0E-20B](#) [10113949-D0E-30B](#) [10113949-D0E-40B](#) [10113949-D0E-50B](#) [10113949-D0E-50DLF](#) [10113949-D0E-60B](#) [10113949-D0E-60DLF](#) [10113949-D0E-70B](#) [10113949-D0E-70DLF](#) [10113949-D0E-80B](#) [10113949-D0E-80DLF](#) [10113949-E0E-10B](#) [10113949-E0E-20B](#) [10113949-E0E-30B](#) [10113949-E0E-40B](#) [10113949-E0E-50B](#) [10113949-E0E-50DLF](#) [10113949-E0E-60B](#) [10113949-E0E-60DLF](#) [10113949-E0E-70B](#) [10113949-E0E-70DLF](#) [10113949-E0E-80B](#) [10113949-E0E-80DLF](#) [10113949-F0E-10B](#) [10113949-F0E-20B](#) [10113949-F0E-30B](#) [10113949-F0E-40B](#) [10113949-F0E-50B](#) [10113949-F0E-50DLF](#) [10113949-F0E-60B](#) [10113949-F0E-60DLF](#) [10113949-F0E-70B](#) [10113949-F0E-70DLF](#) [10113949-F0E-80B](#) [10113949-F0E-80DLF](#) [10113949-G0E-10B](#) [10113949-G0E-20B](#) [10113949-G0E-30B](#) [10113949-G0E-40B](#)