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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



1

2

3

4

5

6

7

8

10113947 - X 0 C - X 0 X L F

6-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

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

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

GROUND

UNGROUND

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

tolerance std

TOLERANCES UNLESS OTHERWISE SPECIFIED

ASME Y14.5

surface

linear

0.X

±0.2

0.XX

±0.10

0.XXX

±0.050

ASME Y14.5

angular

0°

±°

dr

Kok-Hoe Lee

2010/06/28

eng

Michael Song

2016/06/03

chr

Heaven Cen

2016/06/08

appr

Pei-Ming Zheng

2016/06/15

projection

MM

size

A2

scale

3:1

ecn no

ELX-DG-24191-1

rel level

Released

product family

-

Amphenol FCI

MODULE ASSEMBLY

VERTICAL HEADER, 6-COLUMN, 2-PAIR

cat. no.

SEE P/N TREE

Product - Customer Drw

sheet 1 of 8

title

10113947

rev

G

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Creo File - REV E - 2016-02-12

1

2

3

4

5

PDS: Rev :G

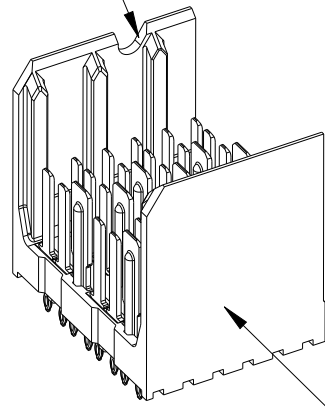
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Printed: Jun 15, 2016

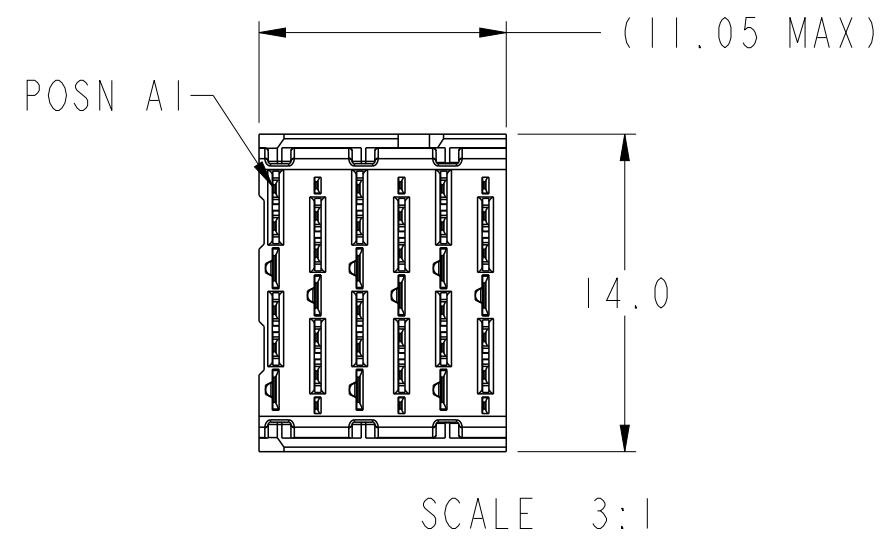


OPEN (2-WALL) MODULE

SEE NOTE 8



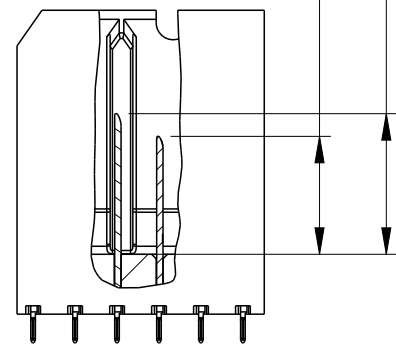
SEE NOTE 5



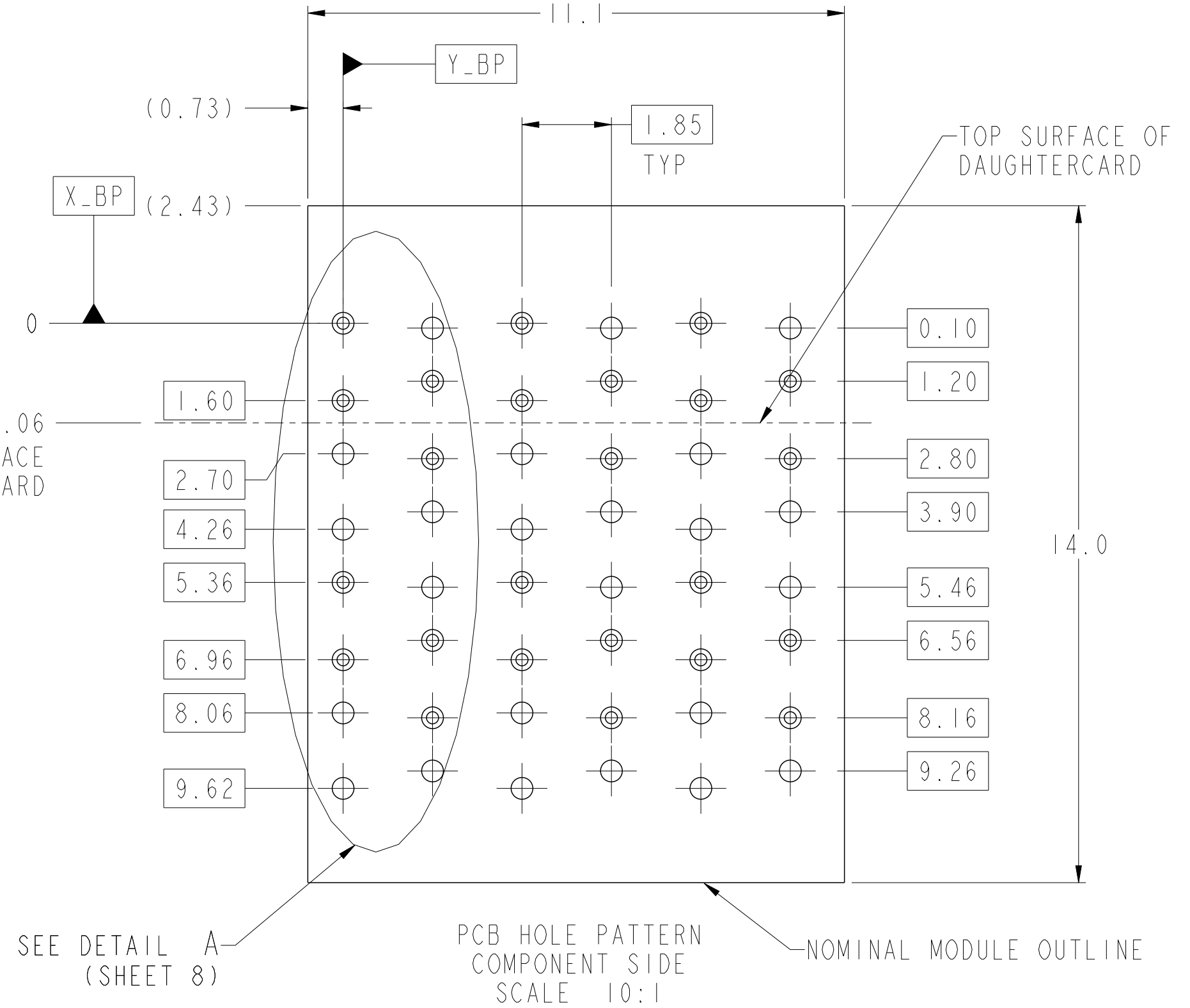
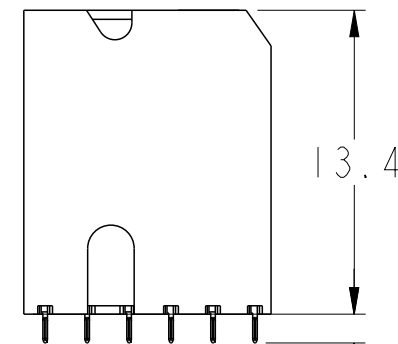
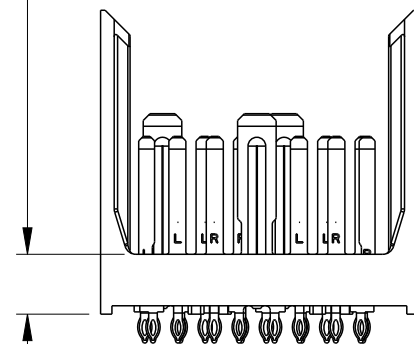
6.2 (4MM WIPE WIDE GROUNDS)  
5.2 (3MM WIPE WIDE GROUNDS)

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

NOMINAL MODULE OUTLINE

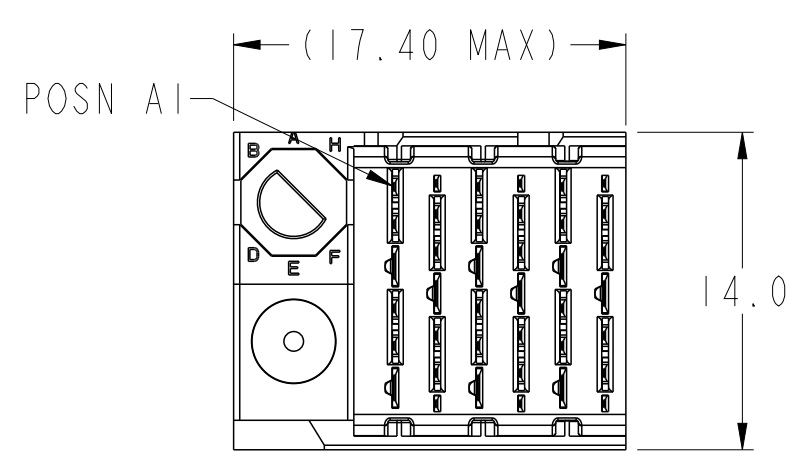
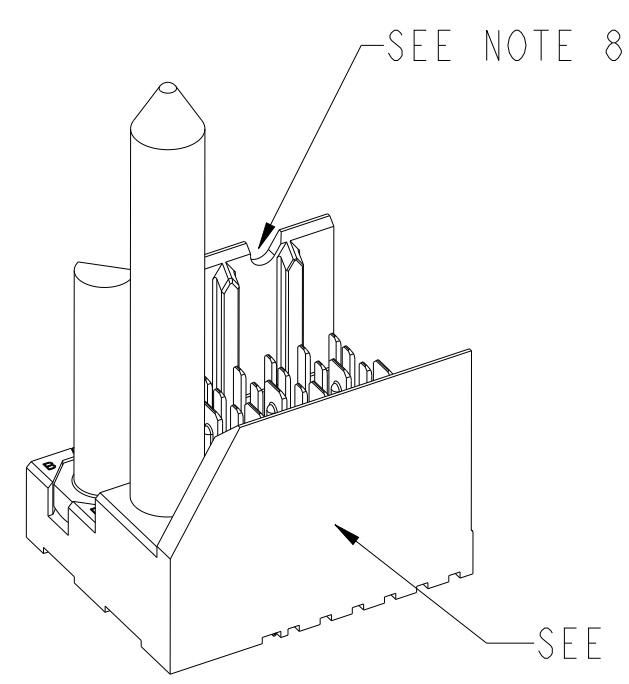
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/03				ecn no		ELX-DG-24191-1		rel level		Released		rev		G	
ASME Y14.5				chr		Heaven Cen		2016/06/08						rel level									
				appr		Pei-Ming Zheng		2016/06/15		product family		-											
surface		linear		Amphenol FCI		title		MODULE ASSEMBLY		VERTICAL HEADER, 6-COLUMN, 2-PAIR		dwg no		10113947		rev		G					
		0.X																		±0.2			
		0.XX																		±0.10			
		0.XXX		±0.050																			
ASME Y14.5		angular		0°		±0°																	

PDS: Rev :G

STATUS:Released

Printed: Jun 15, 2016

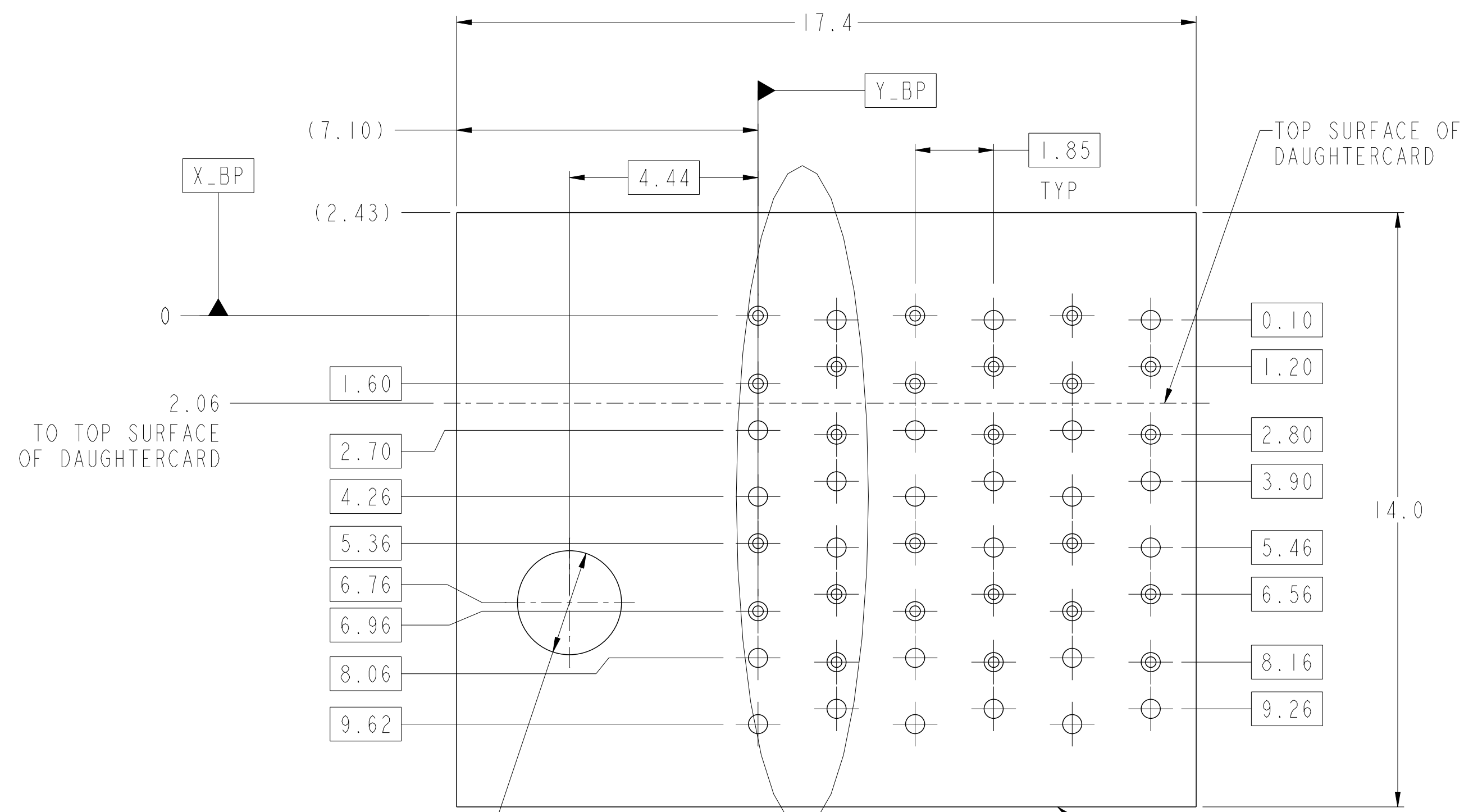
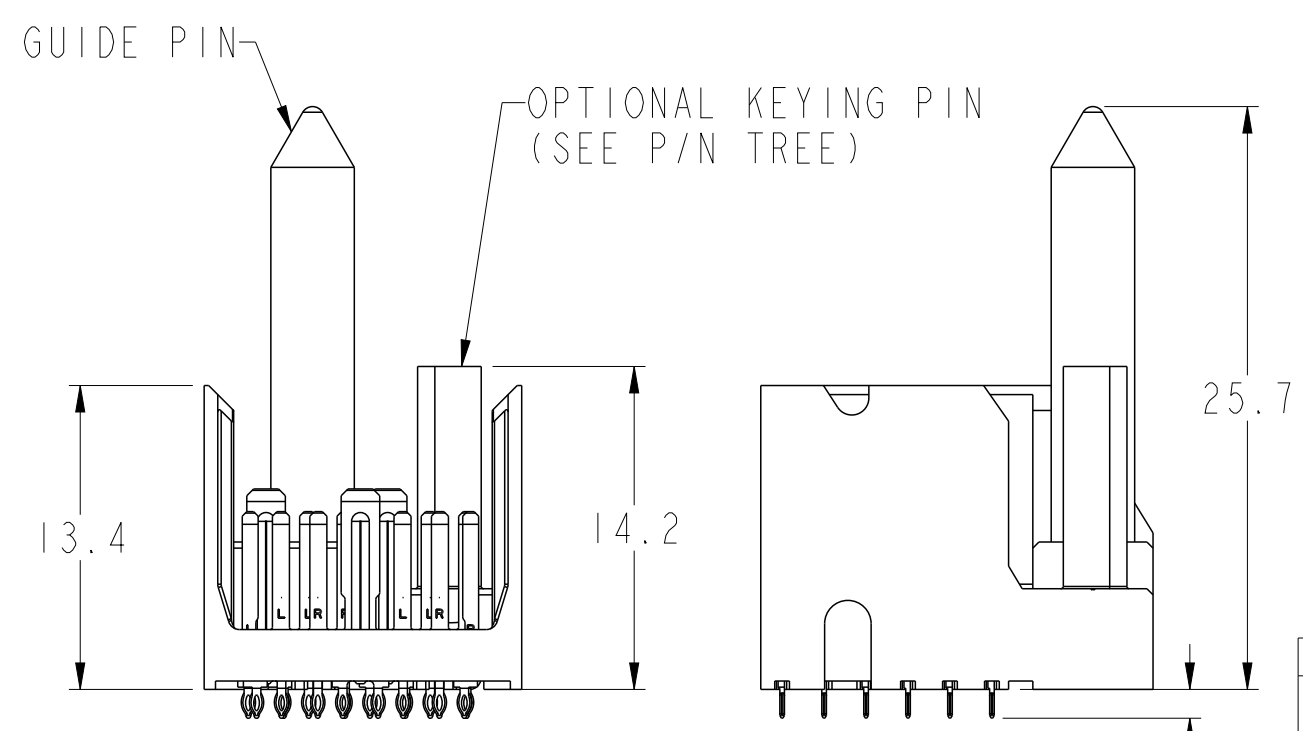
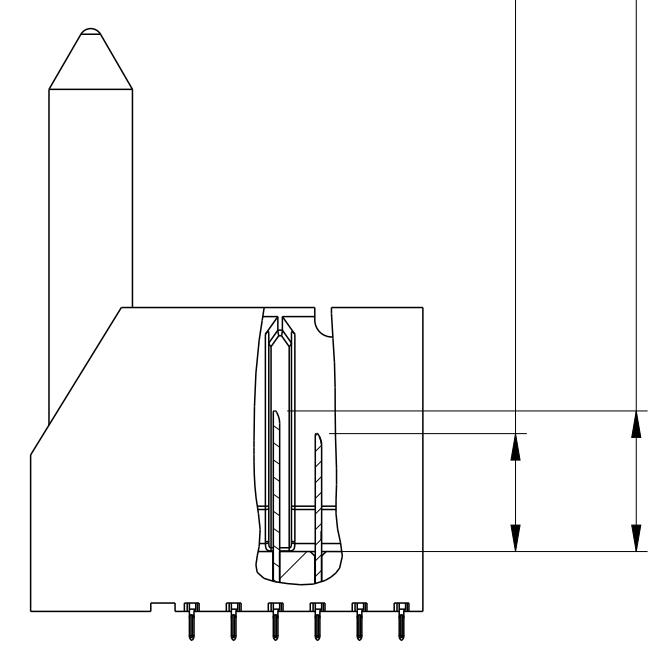
LEFT POLARIZING/GUIDE MODULE



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)

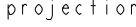

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



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

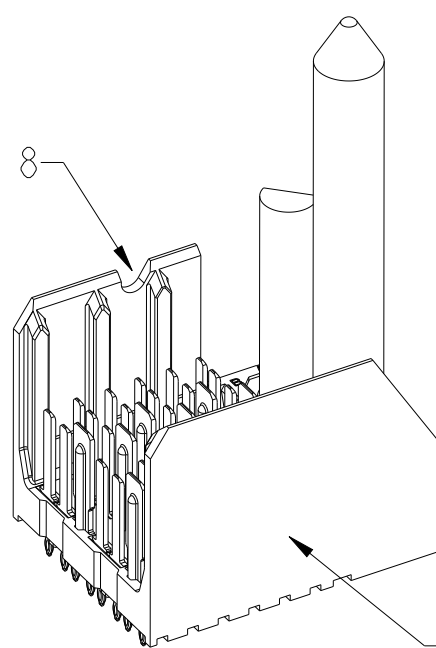
SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN COMPONENT SIDE SCALE 10:1  
NOMINAL MODULE OUTLINE

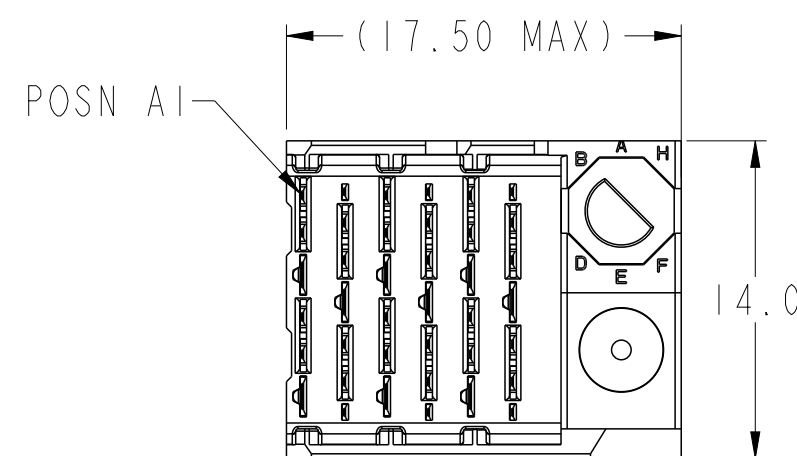
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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/03							
ASME Y14.5				chr	Heaven Cen	2016/06/08							
				appr	Pei-Ming Zheng	2016/06/15							
product family							-	ecn no	ELX-DG-24191-1				
								rel level	Released				
surface	linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 2-PAIR			dwg no	10113947		rev	
		0.XX	±0.10										
		0.XXX	±0.050										
ASME Y14.5	angular	0°	±°		cat. no.	SEE P/N TREE	Product-	Customer Drw	sheet 3 of 8				
													G

RIGHT POLARIZING/GUIDE MODULE

SEE NOTE 8



SEE NOTE 5



SCALE 3:1

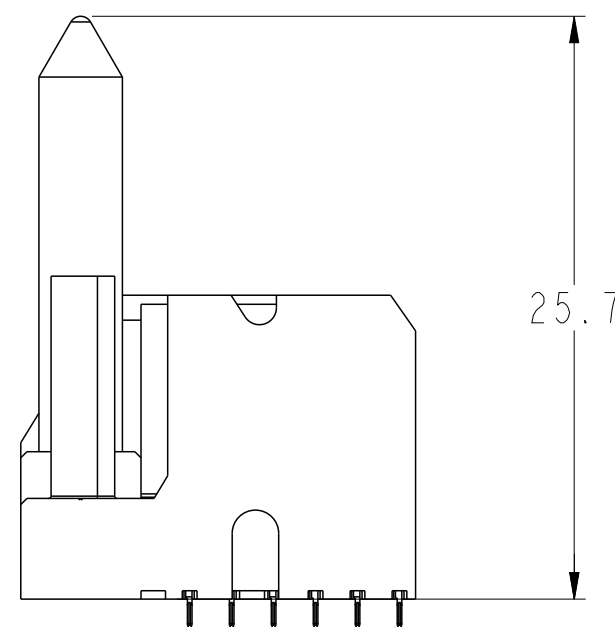
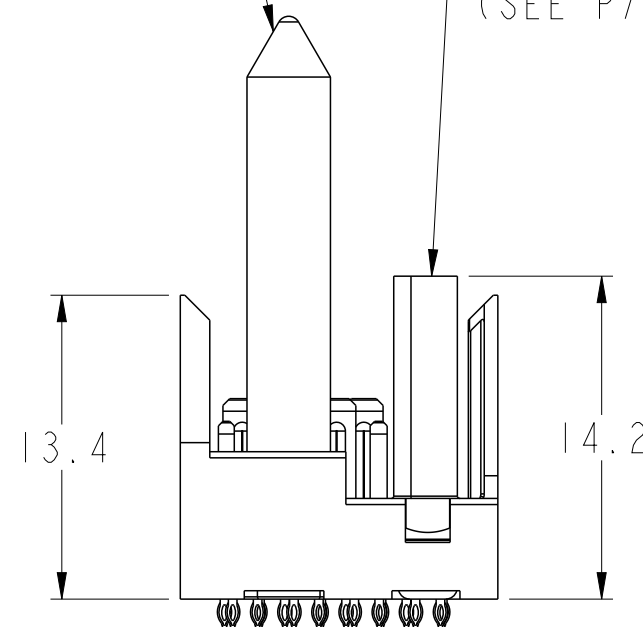
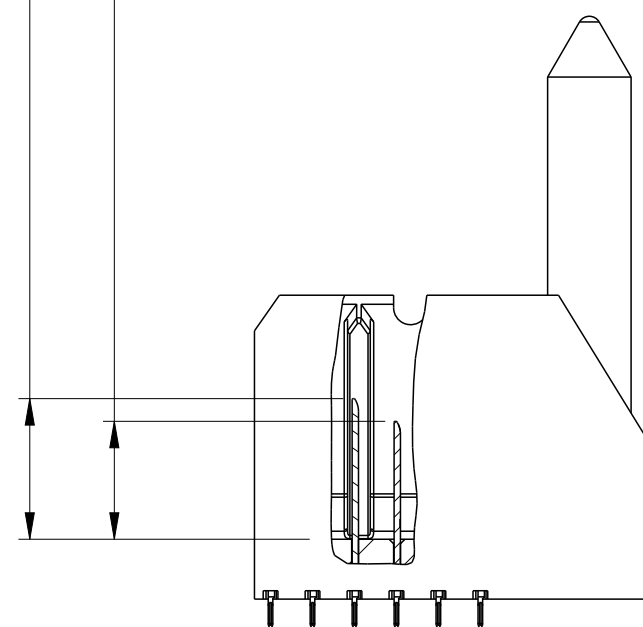
6.2 (4MM WIPE WIDE GROUNDS)  
5.2 (3MM WIPE WIDE GROUNDS)

5.2 (3MM SMALL END GROUNDS)  
5.2 (3MM WIPE SIGNALS)  
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR  
ALL COMBINATIONS AVAILABLE)

GUIDE PIN

OPTIONAL KEYING PIN  
(SEE P/N TREE)



2.06  
TO TOP SURFACE  
OF DAUGHTERCARD

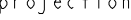

SEE DETAIL A  
(SHEET 8)

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

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/28	<div>projection</div> <div></div>	<div>MM</div> <div></div>	size	A2	scale	3:1		
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								
				appr	Pei-Ming Zheng	2016/06/15	product family	-						
surface	<div>✓</div>	linear	0.X	±0.2	<b>Amphenol FCI</b>	title	MODULE ASSEMBLY			dwg no	10113947		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		

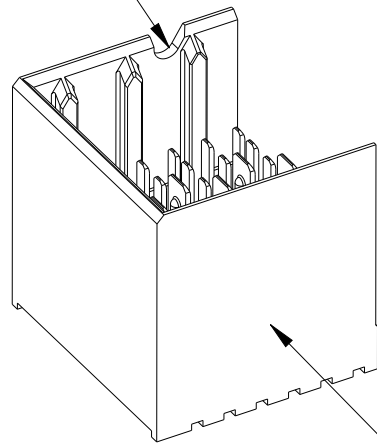
PDS: Rev :G

STATUS:Released

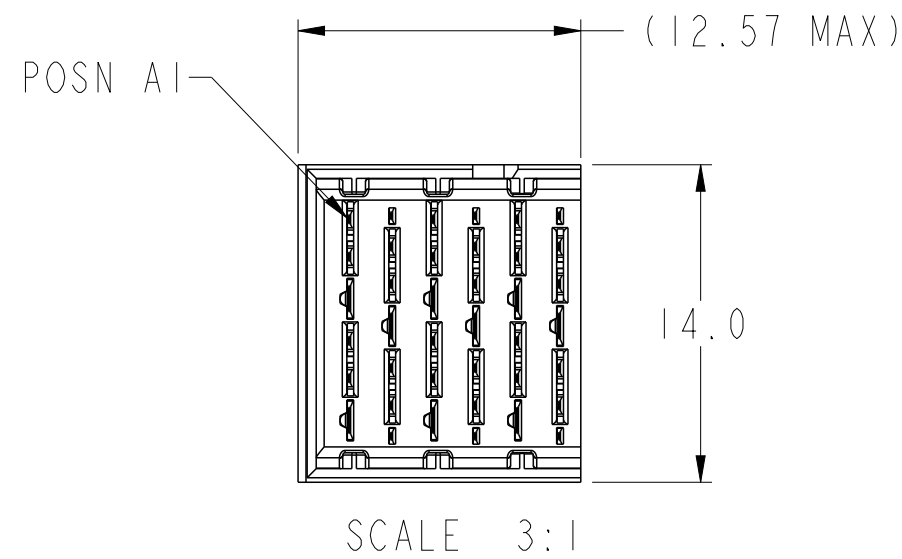
Printed: Jun 15, 2016

LEFT WALL MODULE

SEE NOTE 8



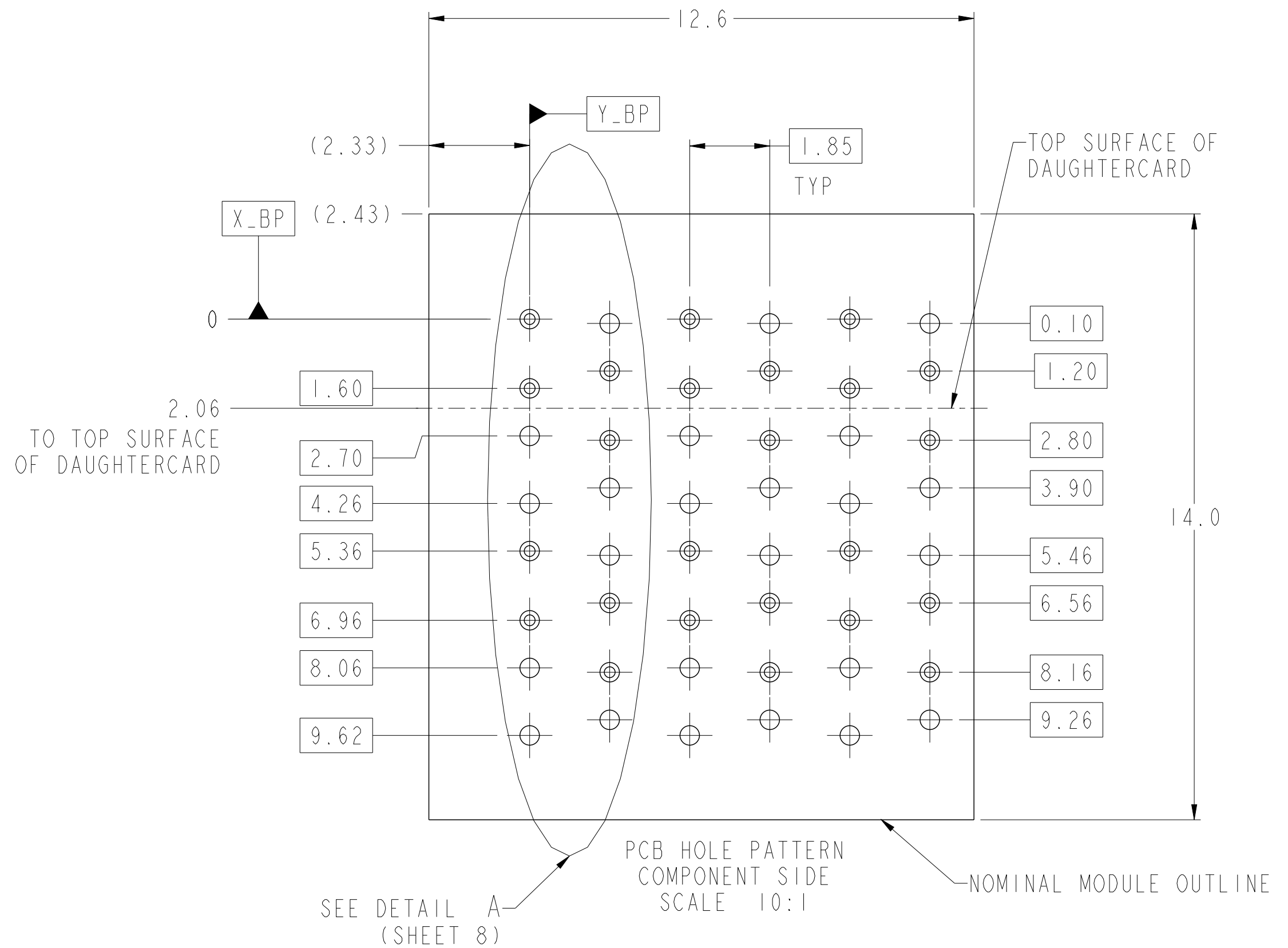
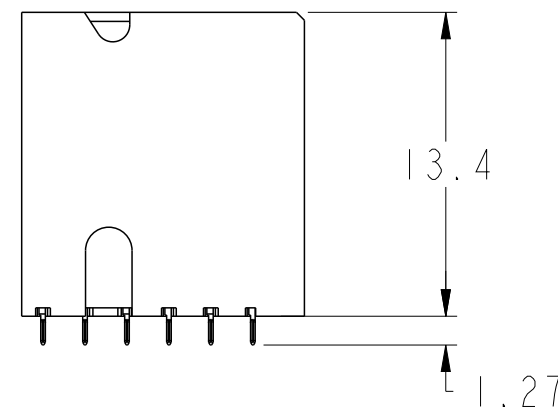
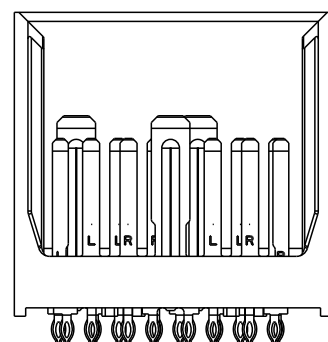
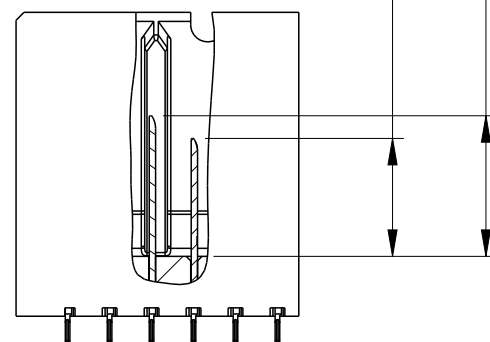
SEE NOTE 5



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)



spec ref		SEE NOTES		dr		Kok-Hoe Lee		2010/06/28		projection		MM		size		A2		scale		7:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/03						ecn no		ELX-DG-24191-1		-		Released	
ASME Y14.5				chr		Heaven Cen		2016/06/08						product family							
				appr		Pei-Ming Zheng		2016/06/15													
surface		linear		Amphenol FCI		title		MODULE ASSEMBLY		VERTICAL HEADER, 6-COLUMN, 2-PAIR		dwg no		10113947		rev		G			
		0.X																		±0.2	
		0.XX																		±0.10	
		0.XXX		±0.050																	
ASME Y14.5		angular		0°		±0°															

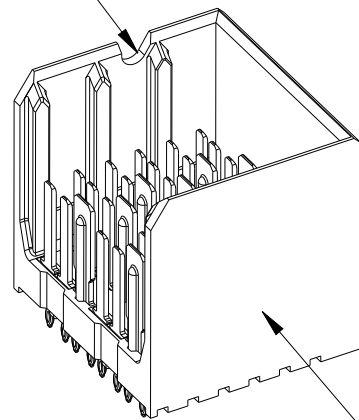
PDS: Rev :G

STATUS:Released

Printed: Jun 15, 2016

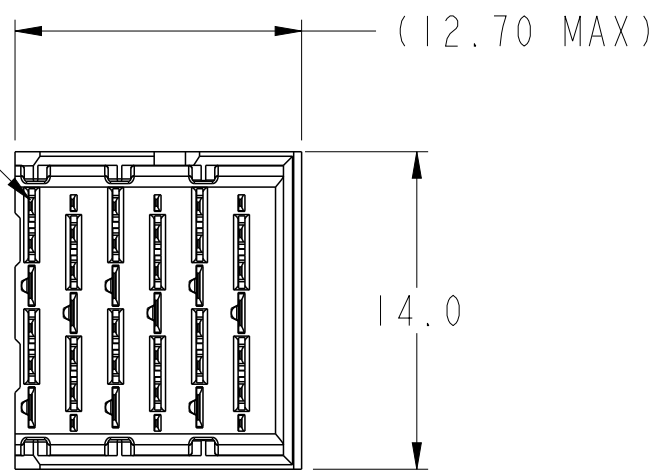
RIGHT WALL MODULE

SEE NOTE 8



SEE NOTE 5

POSN A1

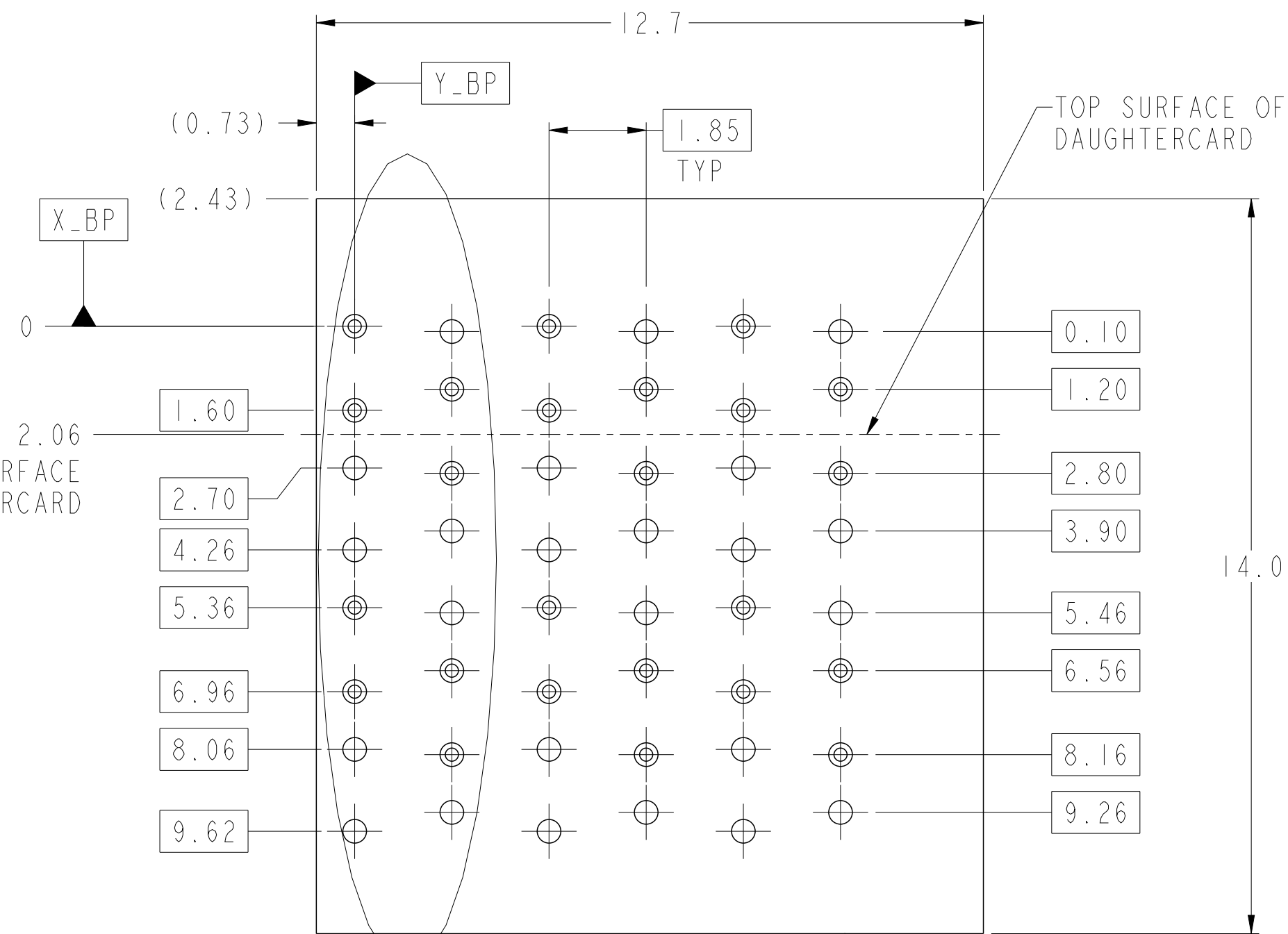
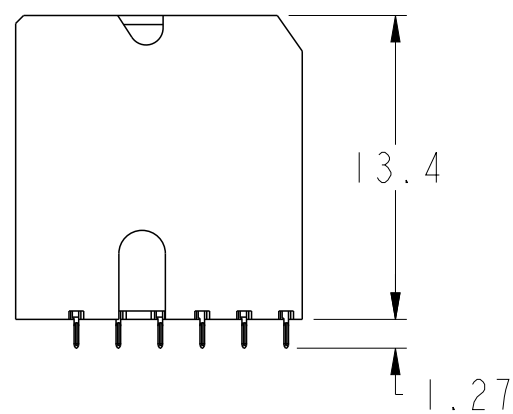
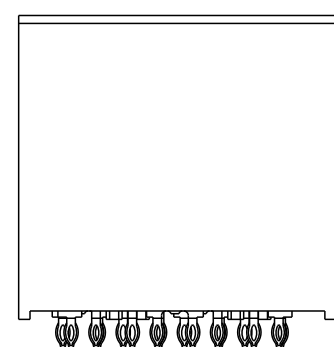
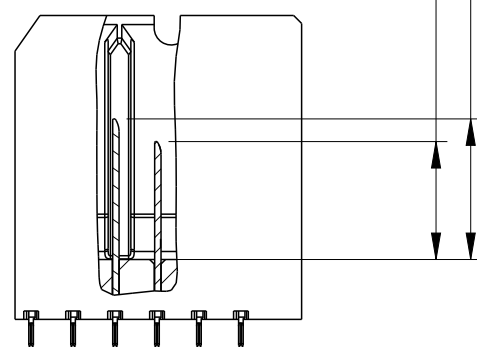


SCALE 3:1

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)

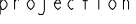


(SEE P/N TREE FOR  
ALL COMBINATIONS AVAILABLE)



SEE DETAIL A  
(SHEET 8)

PCB HOLE PATTERN  
COMPONENT SIDE  
SCALE 10:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/28			size	A2	scale	7:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1				
chr			Heaven Cen	2016/06/08	rel level			Released					
ASME Y14.5			appr	Pei-Ming Zheng	2016/06/15	product family							
surface		linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY		dwg no	10113947		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 6 of 8			

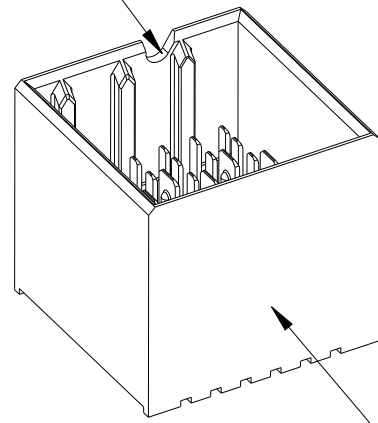
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STATUS:Released

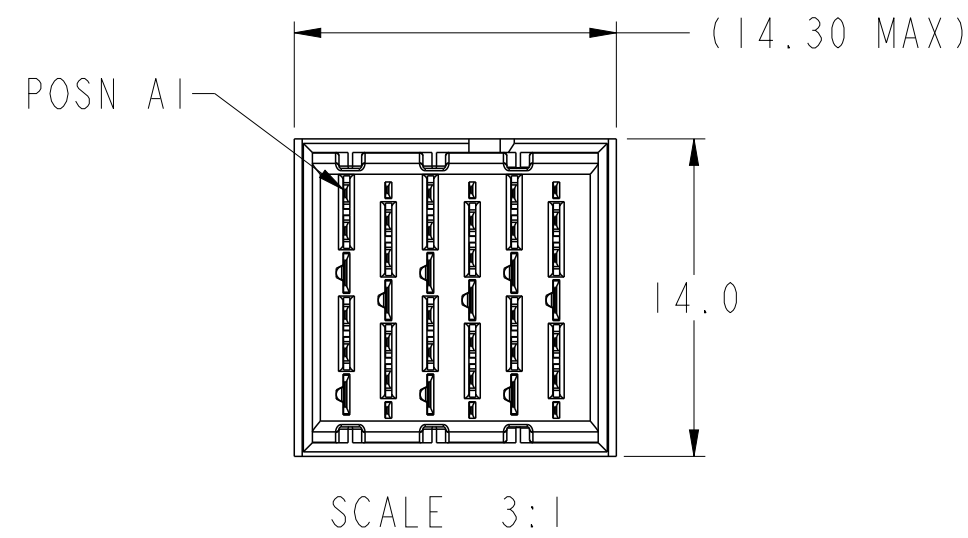
Printed: Jun 15, 2016

FOUR WALL MODULE

SEE NOTE 8



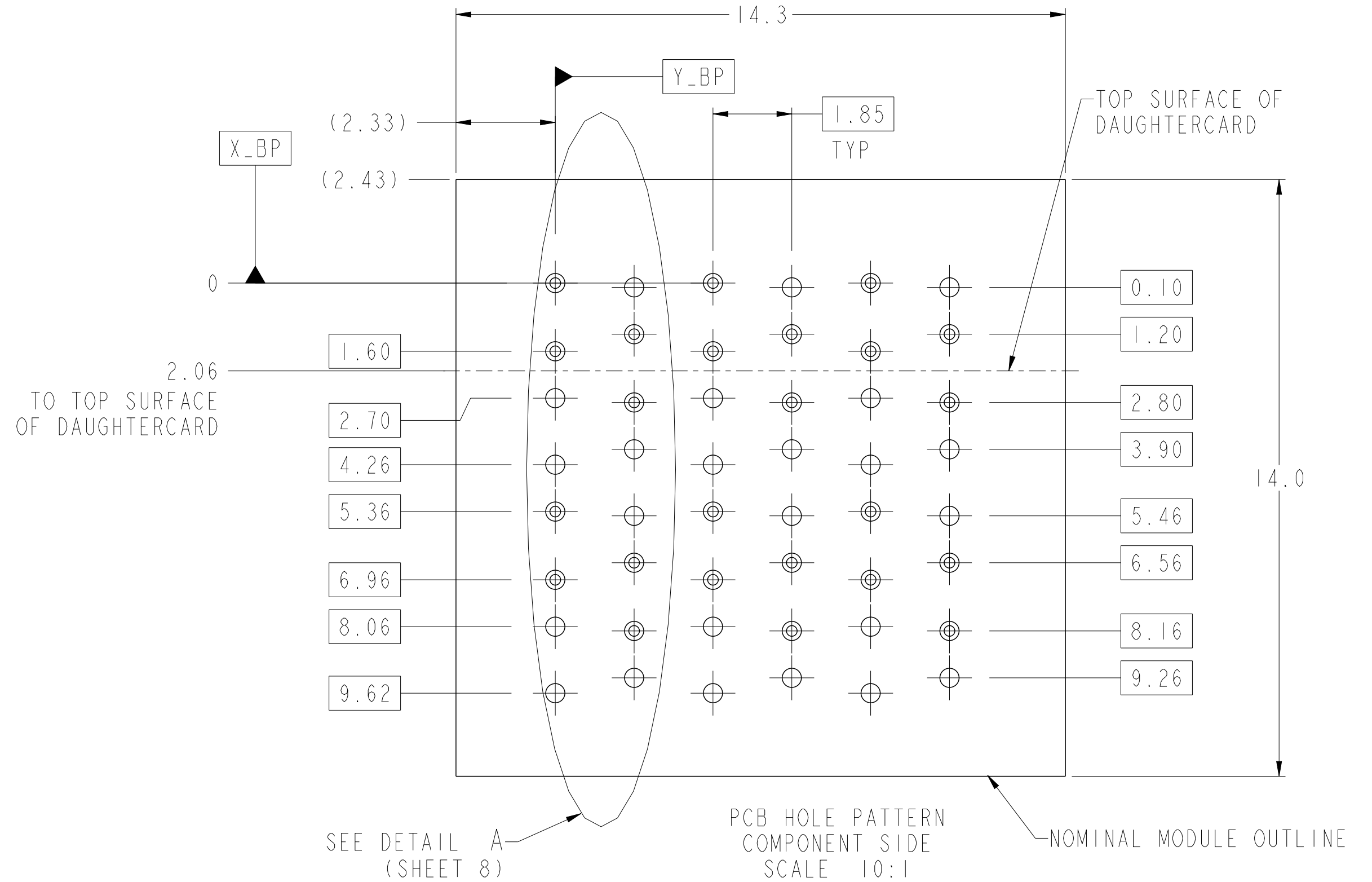
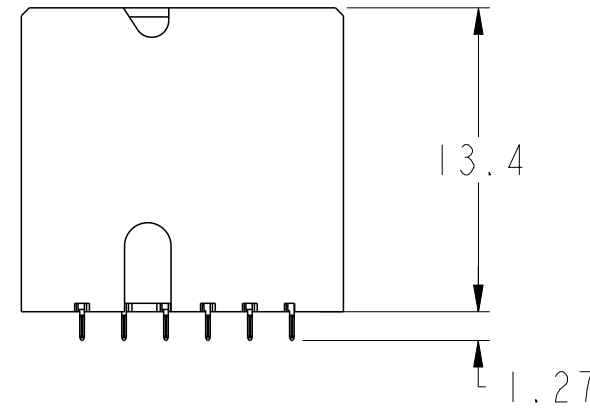
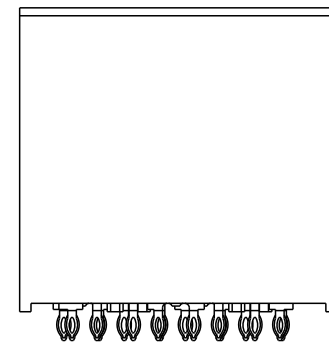
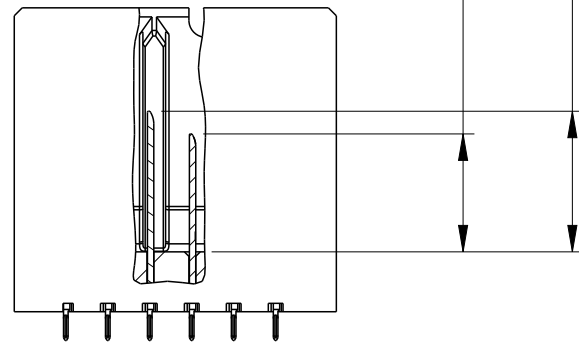
SEE NOTE 5



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)



SEE DETAIL A  
(SHEET 8)

PCB HOLE PATTERN  
COMPONENT SIDE  
SCALE 10:1

NOMINAL MODULE OUTLINE

spec ref		SEE NOTES		dr		Kok-Hoe Lee		2010/06/28		projection						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		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10113947		rev		G					
																				0.X		±0.2	
		0.XX		±0.10																			
ASME Y14.5		angular		0°		±°		0.XXX		±0.050													

PDS: Rev :G

STATUS:Released

Printed: Jun 15, 2016



TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

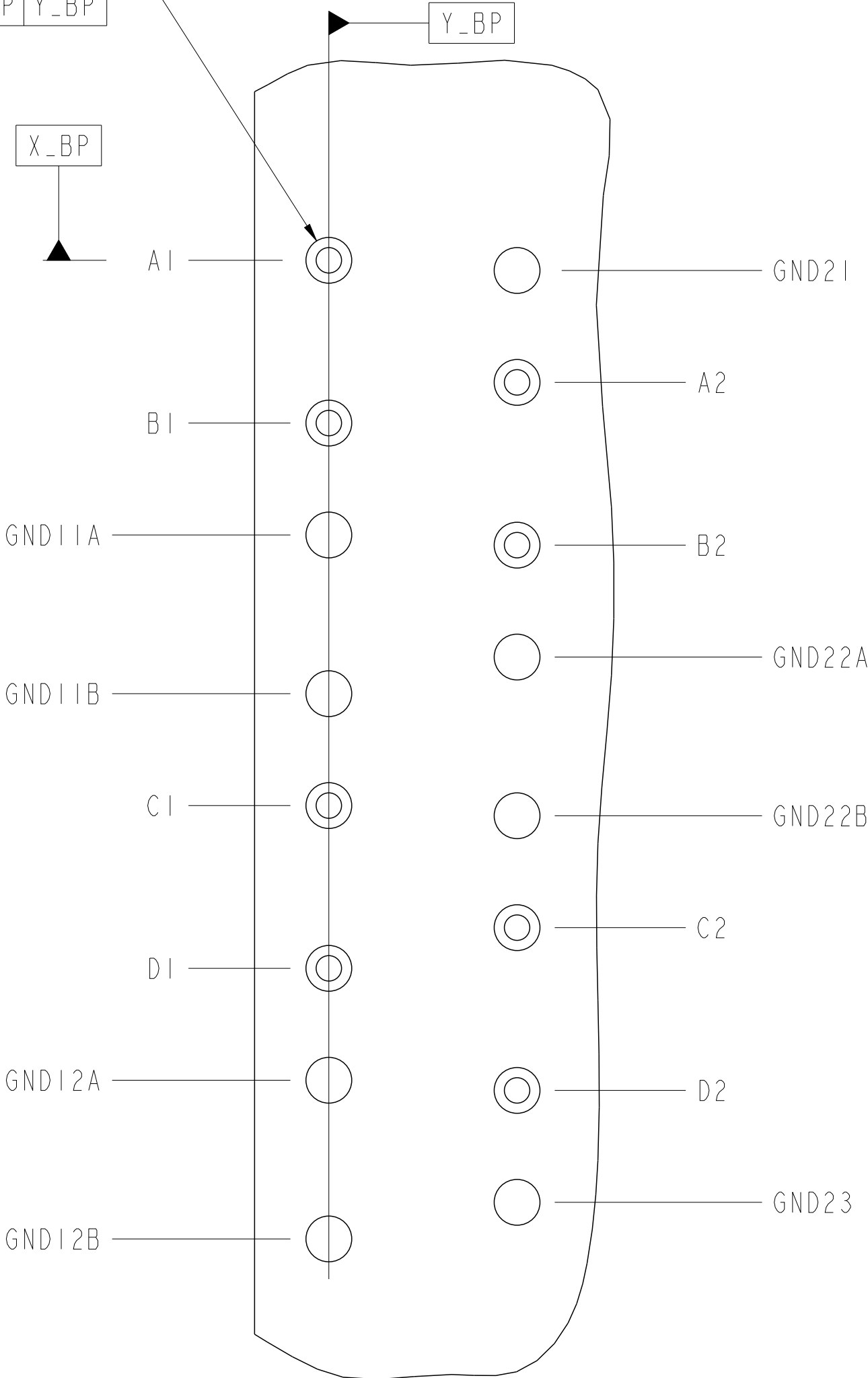
COMPLIANT PIN DRILL	PTH	PAD
Ø0.55 [0.0217"]	Ø0.45±0.05	Ø0.85
Ø0.45 [0.0177"]	Ø0.36±0.05	Ø0.75

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 TO TABLE 3  
FOR PTH, DRILL & PAD SIZES

	Ø0.10	X_BP	Y_BP
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DETAIL A  
SCALE 20:1

spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/28		projection				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		Pei-Ming Zheng		2016/06/15														
											product family												
surface		-		linear		0.X		±0.2		Amphenol FCi		title		MODULE ASSEMBLY		dwg no		10113947		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 8 of 8			