

A
B
C
D
E
F

1 0 1 1 4 5 0 8 - X 0 J - X 0 X L 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

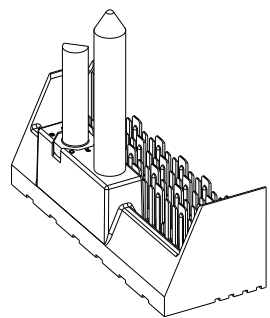
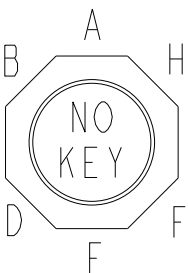
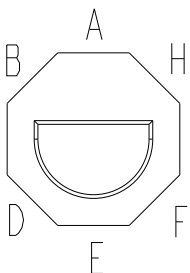
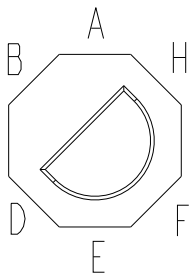
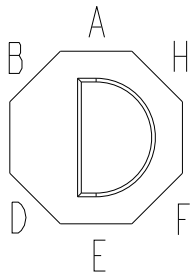
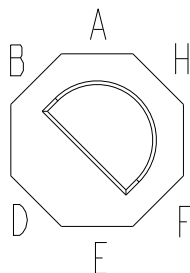
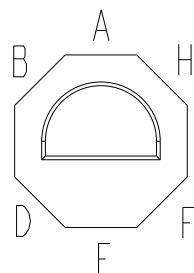
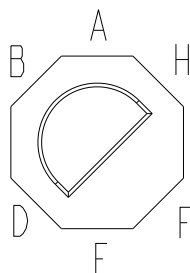
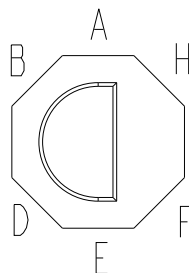
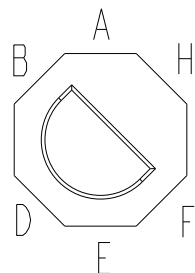
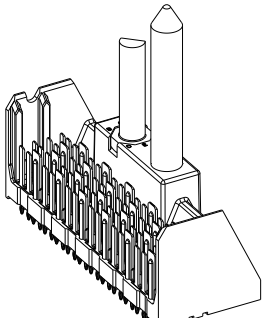
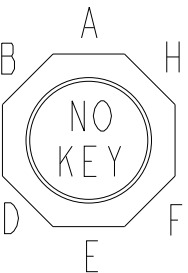
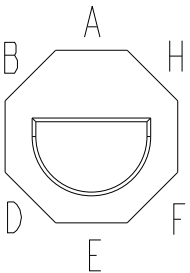
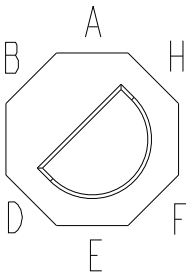
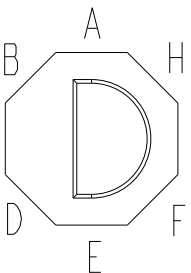
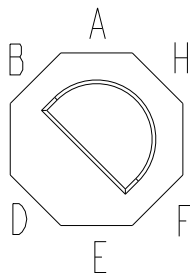
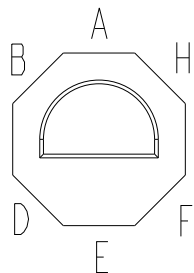
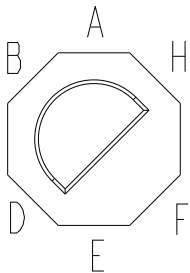
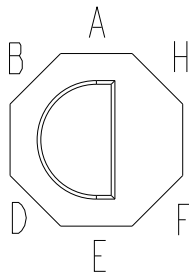
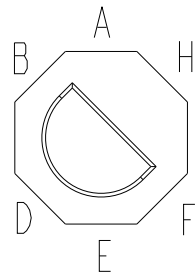
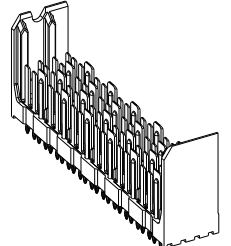
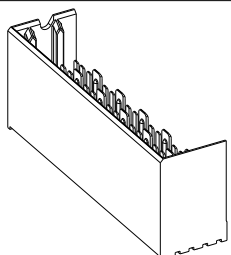
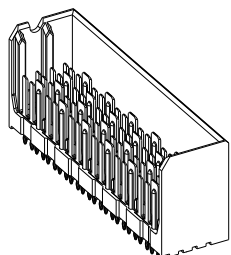
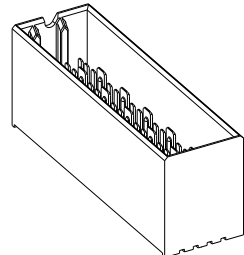
YES

NUMBER

PIN STYLE, HEIGHT

0

STANDARD GUIDE PIN MACHINED, 31.6mm

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									

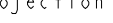
NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	WIDE GROUND	
1	2	4	Ø0.55 [0.0217"]
2	3	4	Ø0.55 [0.0217"]
3	2	4	Ø0.45 [0.0177"]
4	3	4	Ø0.45 [0.0177"]
5	2	3	Ø0.55 [0.0217"]
6	3	3	Ø0.55 [0.0217"]
7	2	3	Ø0.45 [0.0177"]
8	3	3	Ø0.45 [0.0177"]

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

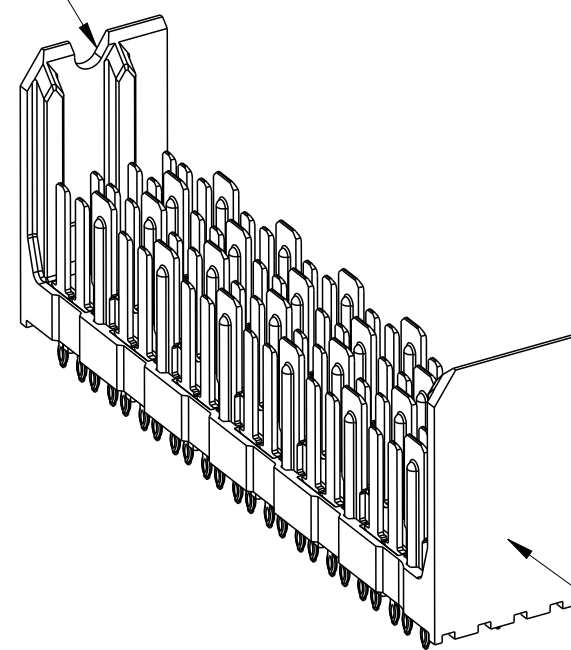
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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

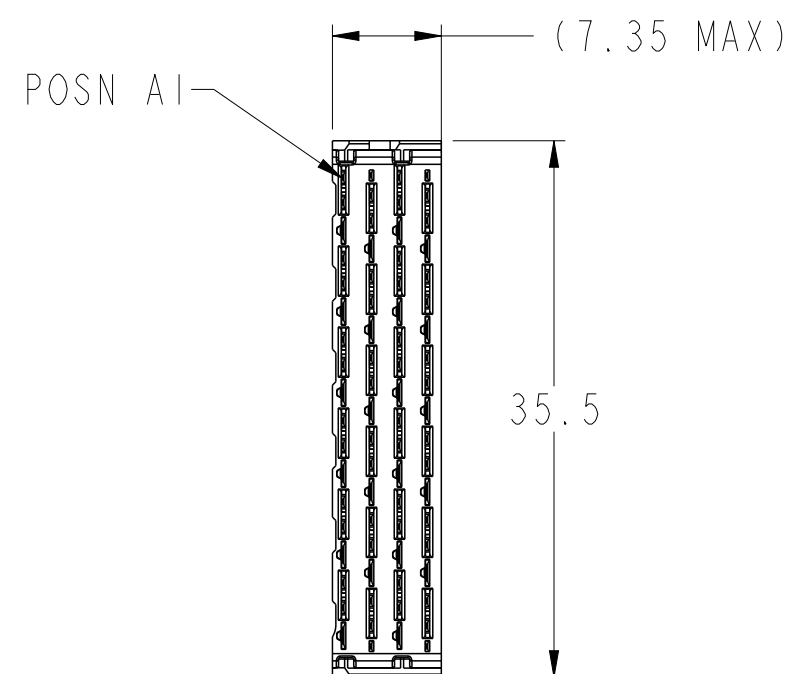
spec ref		SEE NOTES		dr	Kok-Hoe Lee	2010/06/23			size	A2	scale	4:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1	rel level	Released		
ASME Y14.5				chr	Heaven Cen	2016/06/08								
				appr	Pei-Ming Zheng	2016/06/15							product family	
surface			linear	0.X	±0.2		title	MODULE ASSEMBLY			dwg no	10114508	rev	G
ASME Y14.5				0.XX	±0.10									
				0.XXX	±0.050									
		angular	0°	±°	cat. no.									

OPEN (2-WALL) MODULE

SEE NOTE 8-



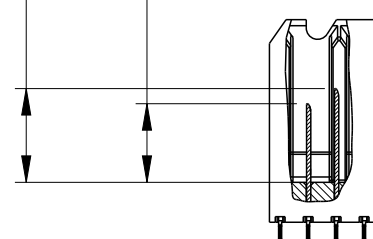
—SEE NOTE 5



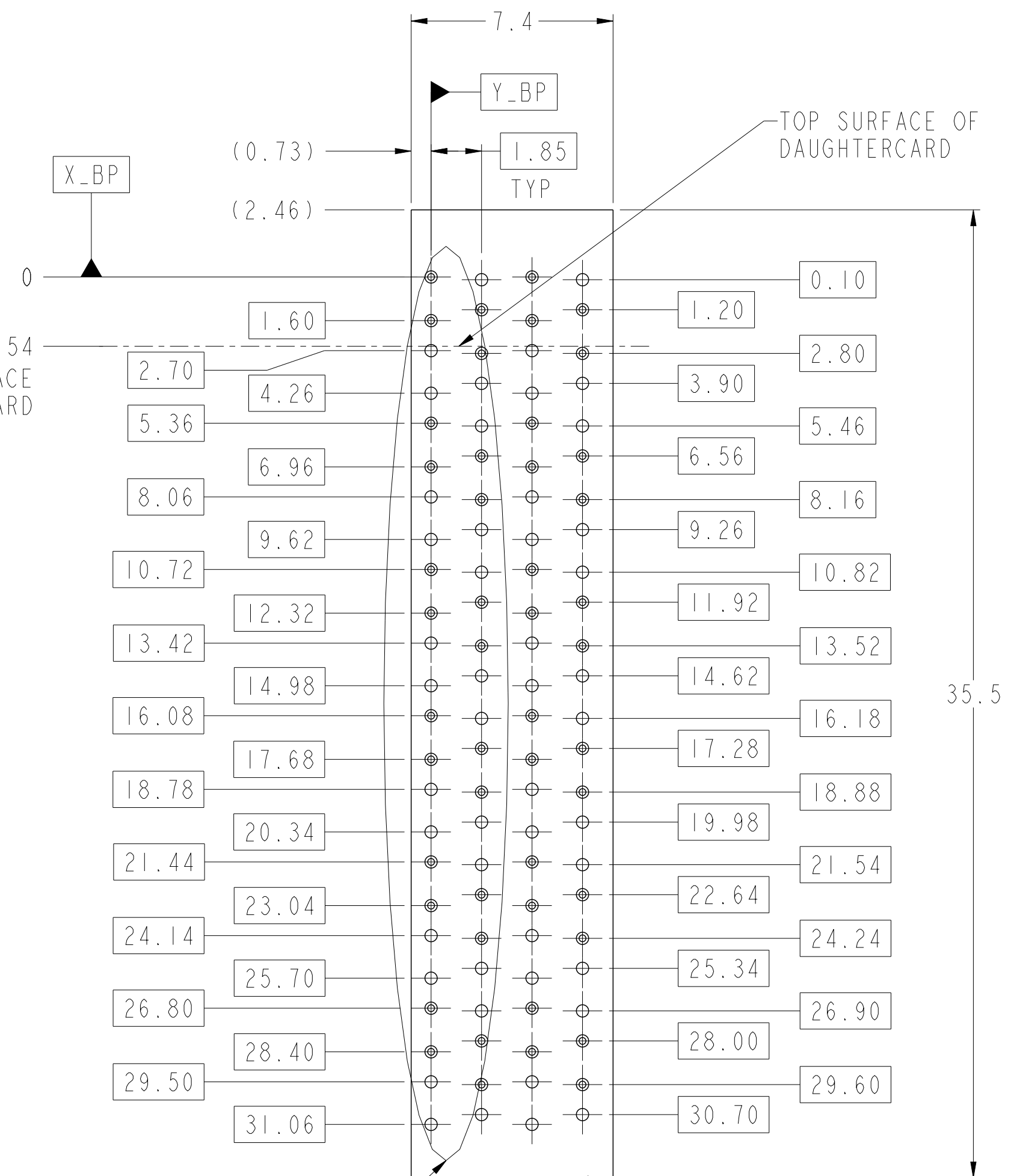
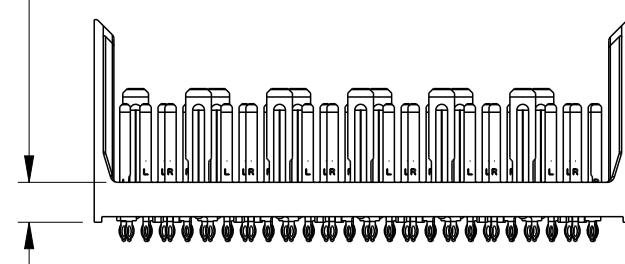
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

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

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



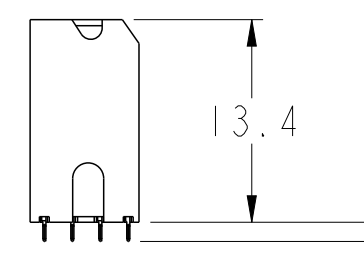
- 2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



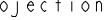
SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE



TAIL LENGTH
SEE NOTE 12

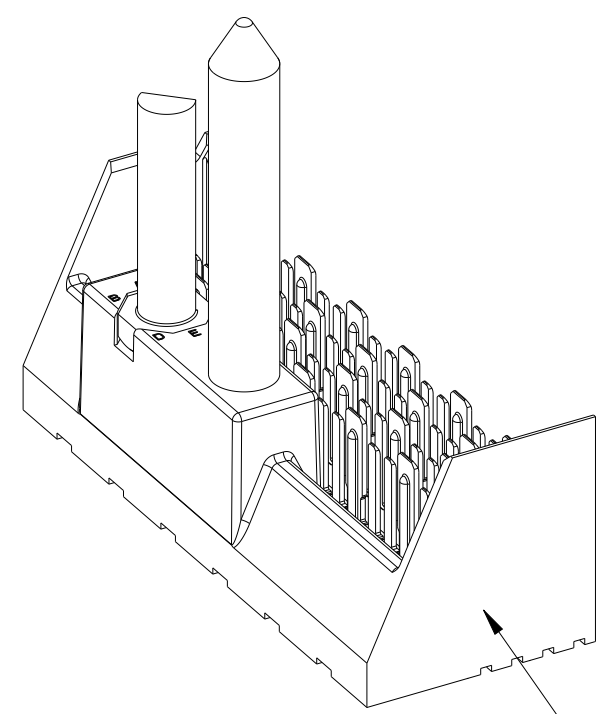
spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/23			size	A2	scale	4:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2010/06/03			ecn no	ELX-DG-24193-1					
ASME Y14.5			chr	Heaven Cen	2010/06/08									
			appr	Pei-Ming Zheng	2010/06/15	product family	-	rel level	Released					
surface		linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY			dwg no	10114508		rev	G
		0.XX	±0.10											
ASME Y14.5		angular	0°	±0.050										

PDS: Rev :G

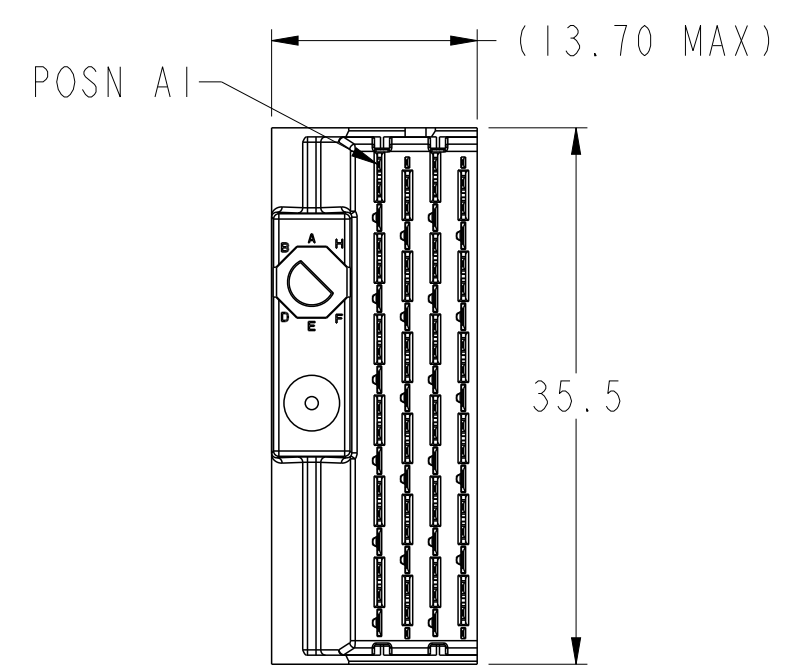
STATUS: Released

Printed: Jun 15, 2016

LEFT POLARIZING/GUIDE MODULE

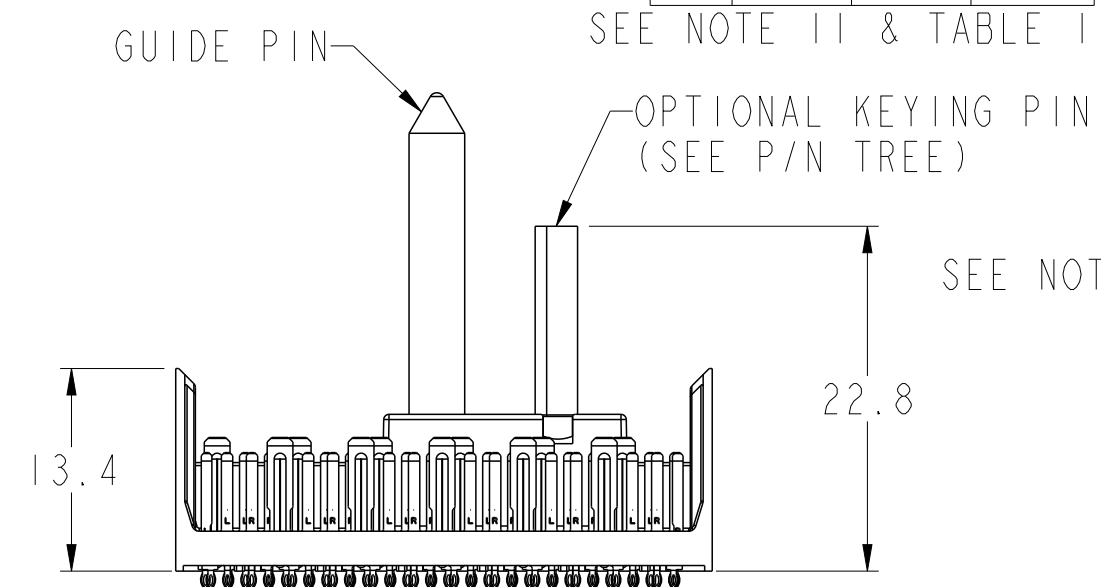
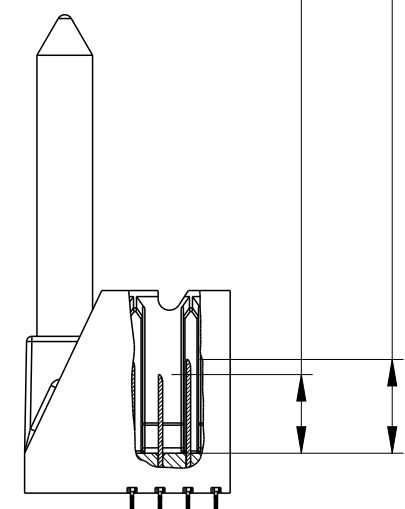


SEE NOTE 5

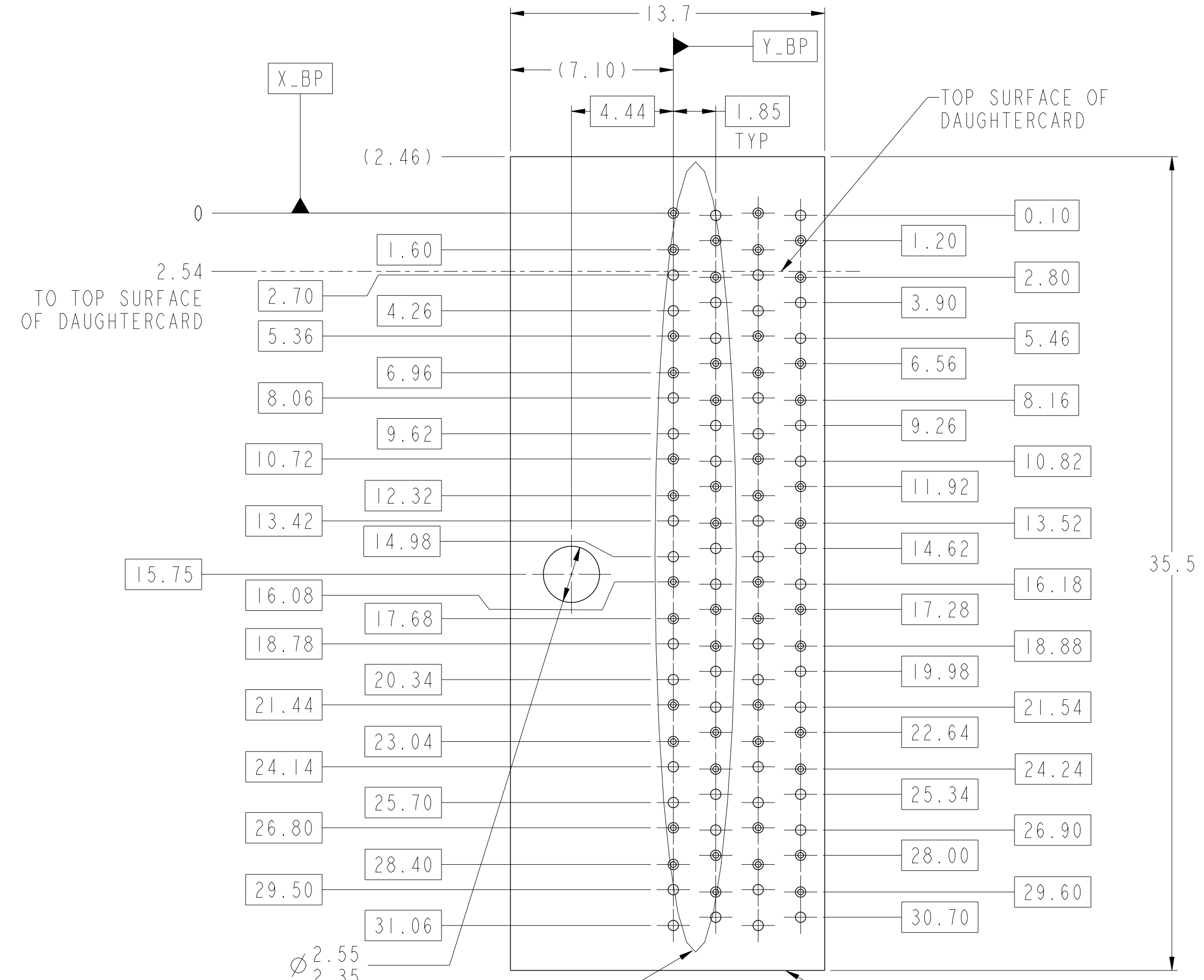
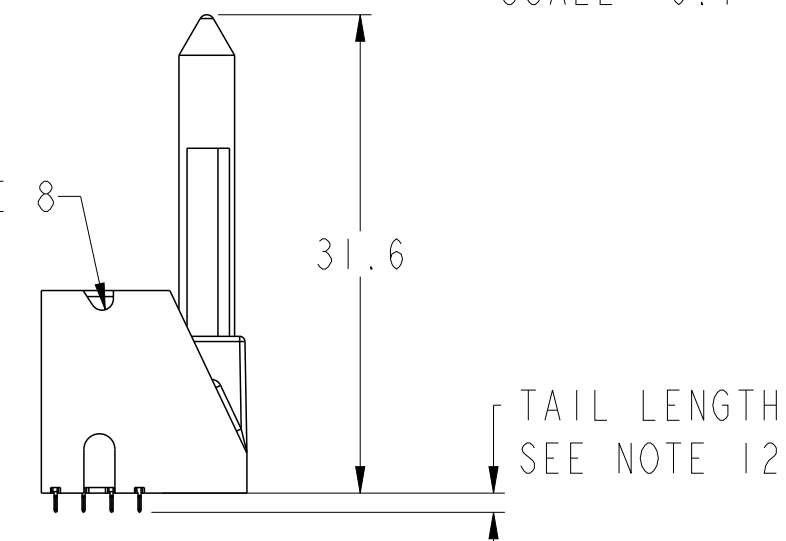


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



SEE NOTE 8



$\varnothing$	0.10	X_BP	Y_BP
---------------	------	------	------

SEE NOTE 11 & TABLE 1

SEE DETAIL A (SHEET 8)

PCB HOLE PATTERN COMPONENT SIDE SCALE 6:1

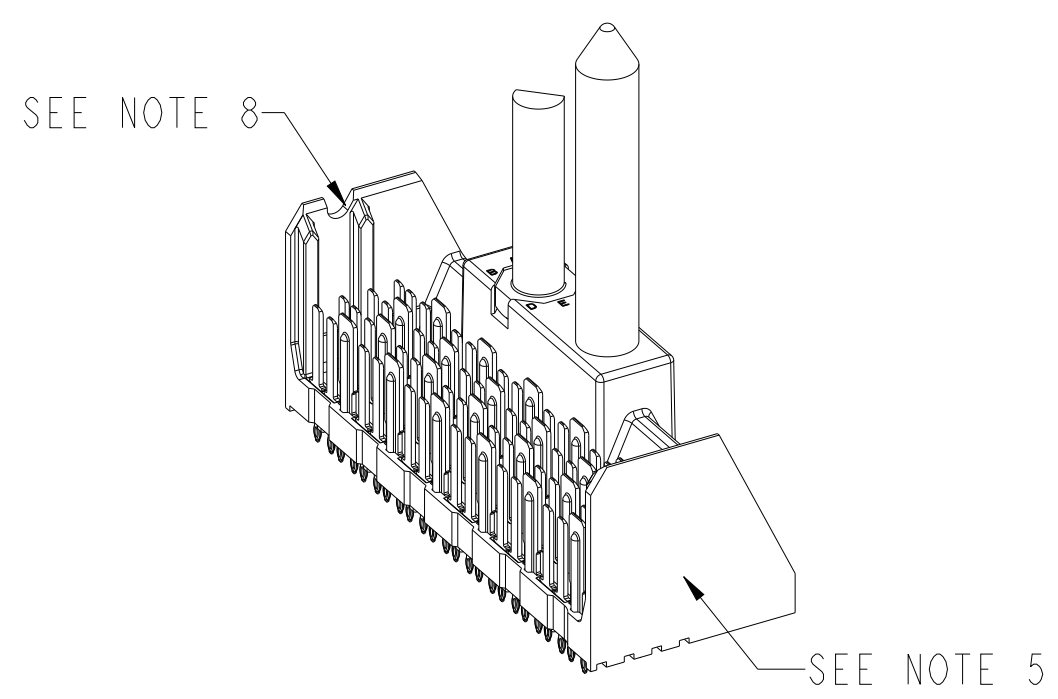
NOMINAL MODULE OUTLINE

spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/23		projection		MM		size		A2		scale		8:1																
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		10114508										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 3 of 8									

Amphenol FCI

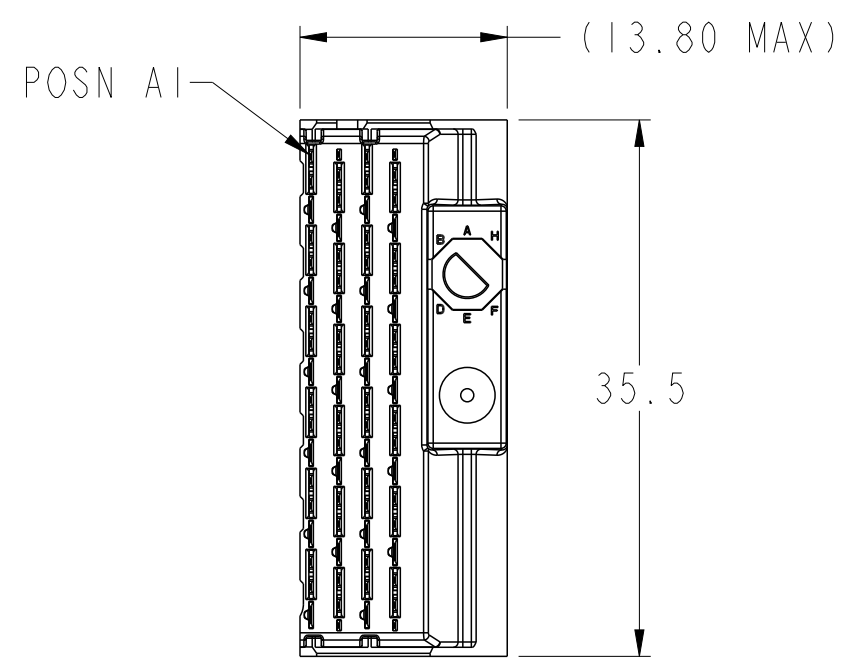
© 2016 AFCI

RIGHT POLARIZING/GUIDE MODULE

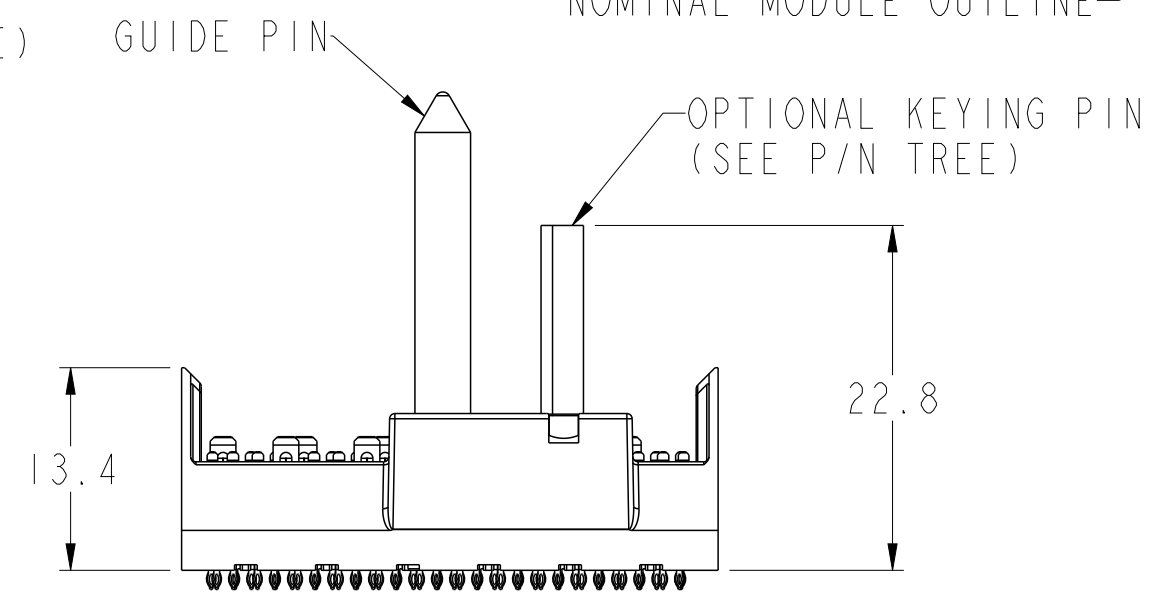
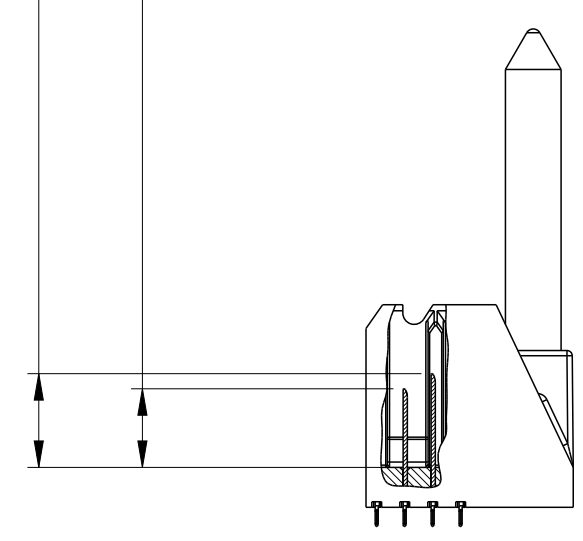


SEE NOTE 8

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)



GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)

X_BP

Y_BP

1.85 TYP

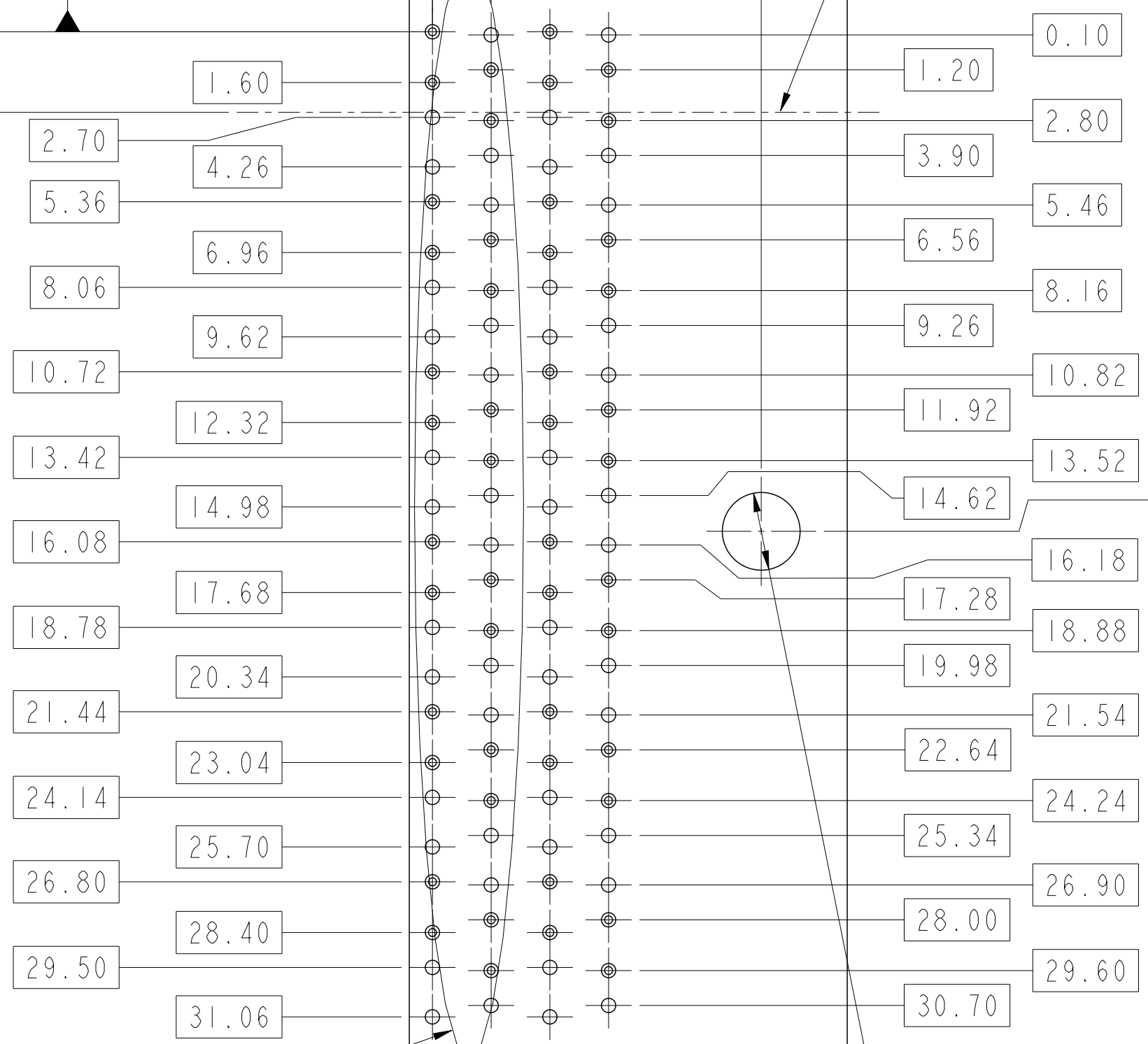
10.36

(0.73)

(2.46)

TOP SURFACE OF DAUGHTERCARD

2.54
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

Ø 2.55
2.35

0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/23	projection	MM	size	A2	scale	5:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/03	chr	Heaven Cen	ecn no	ELX-DG-24191-1	rel level	Released
ASME Y14.5		appr	Pei-Ming Zheng	2016/06/15	product family		cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 4 of 8
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5										

PDS: Rev:G

STATUS:Released

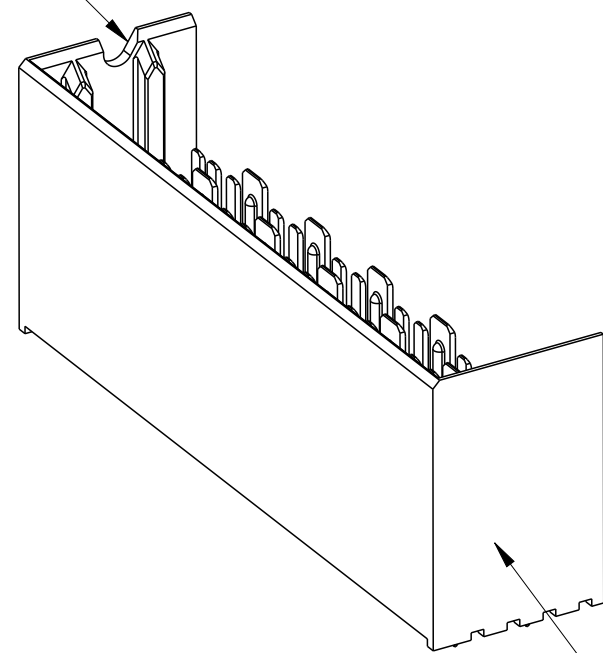
Printed: Jun 15, 2016

Amphenol
FCI

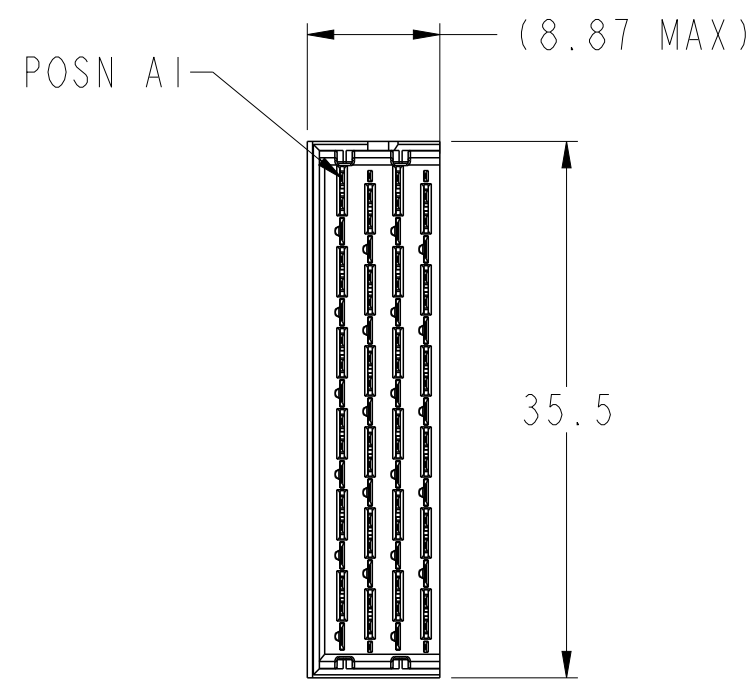
© 2016 APCI

LEFT WALL MODULE

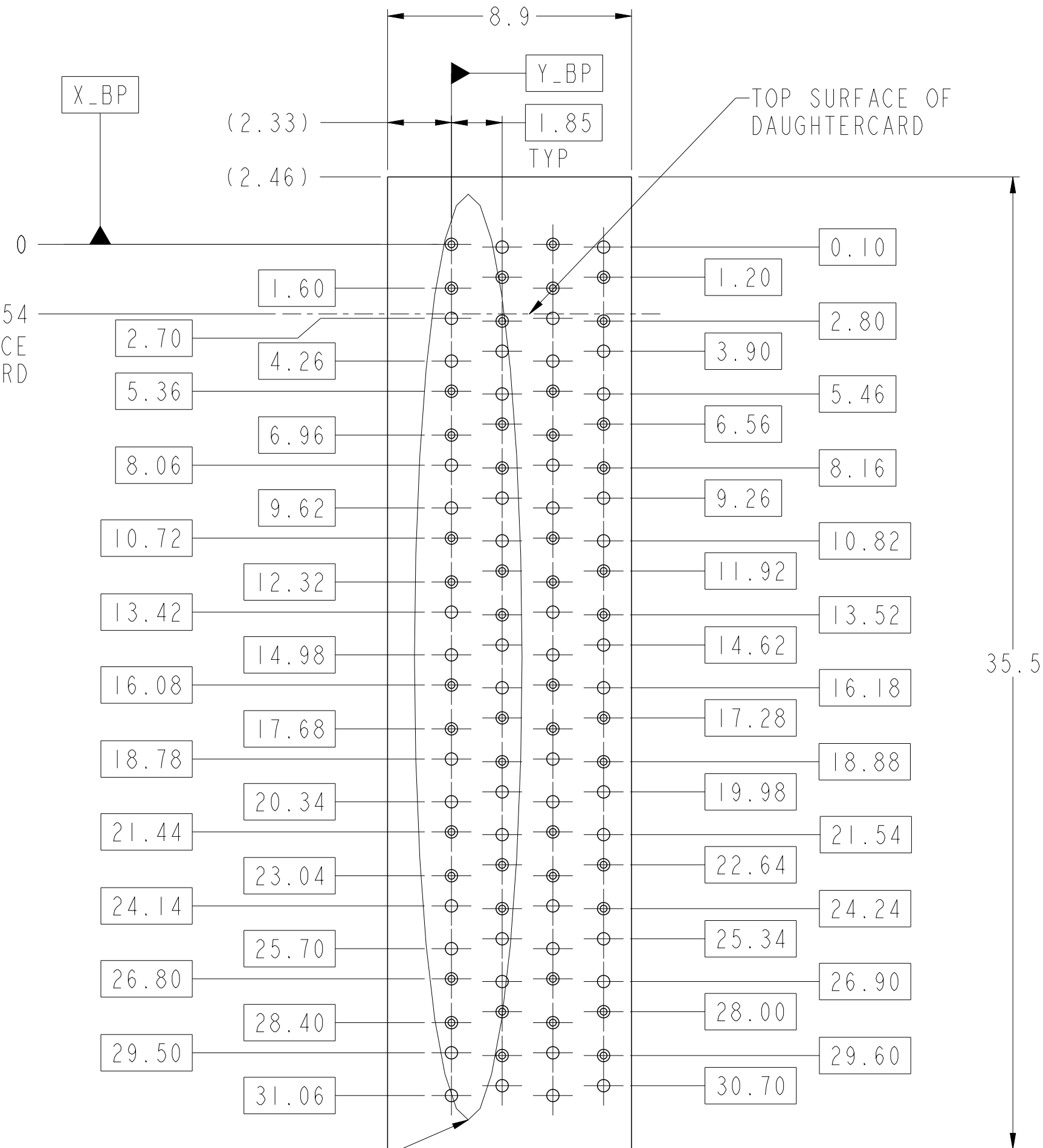
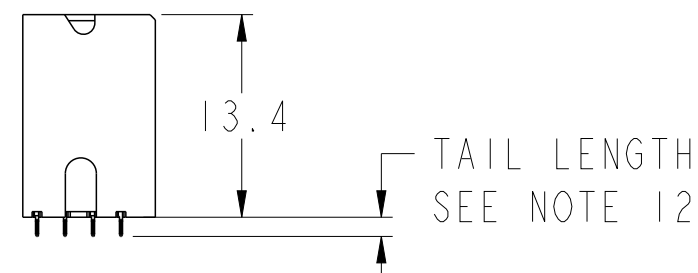
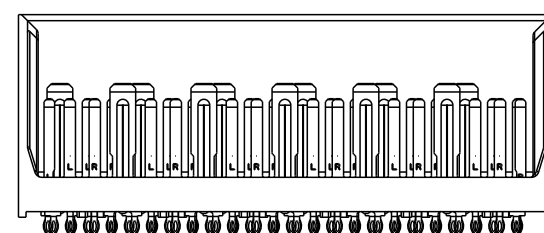
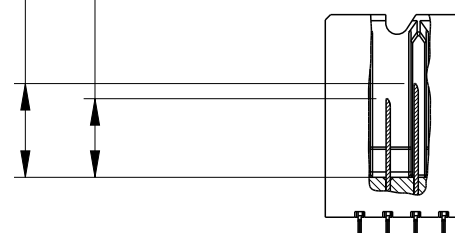
SEE NOTE 8



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)



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23			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, 4-COLUMN, 6-PAIR			dwg no	10114508		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 5 of 8			

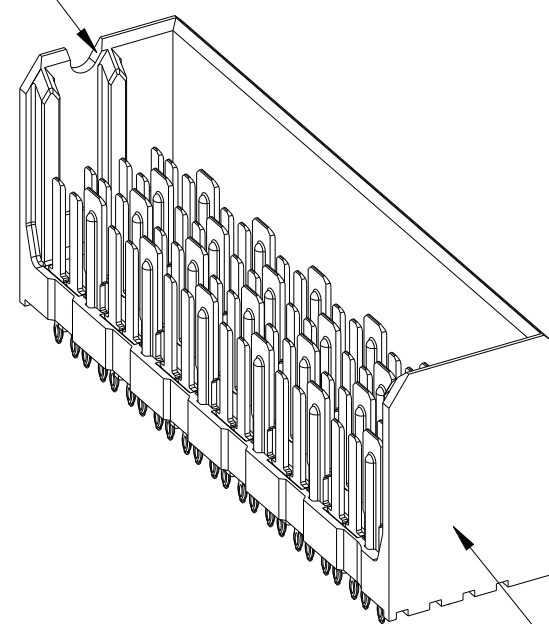
PDS: Rev :G

STATUS:Released

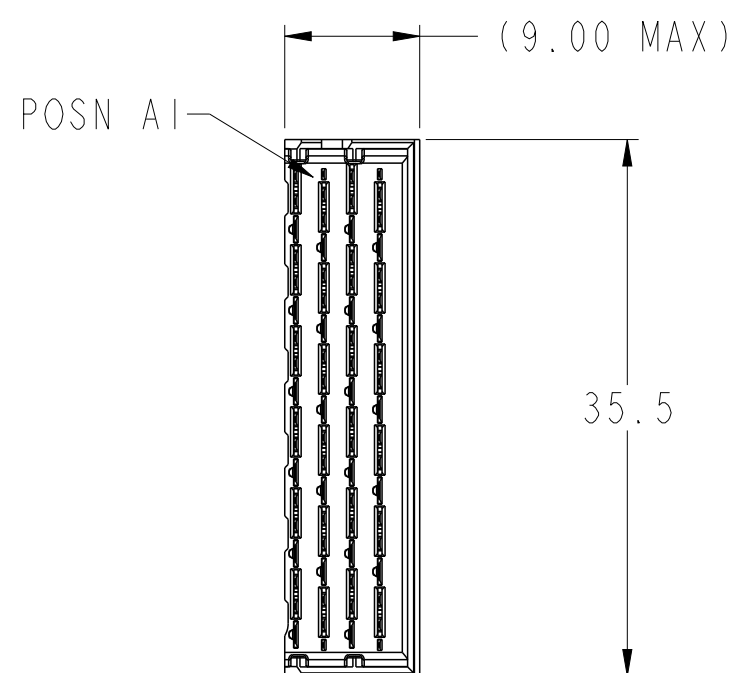
Printed: Jun 15, 2016

RIGHT WALL MODULE

SEE NOTE 8

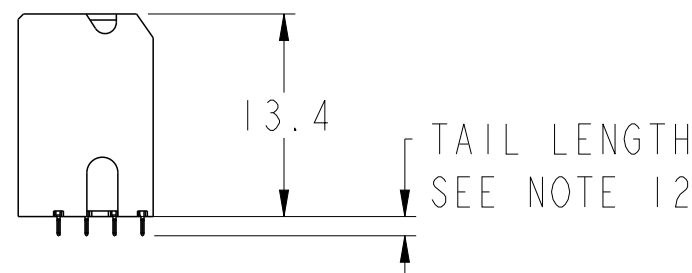
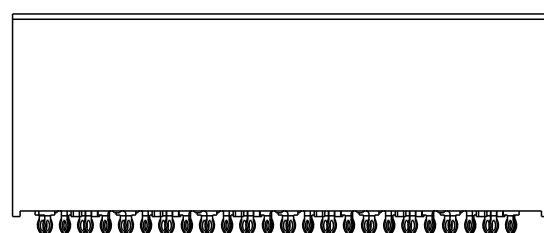
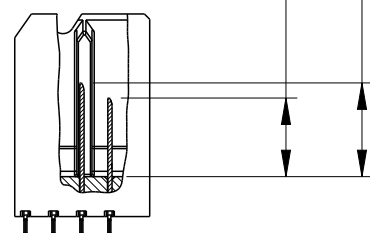


SEE NOTE 5

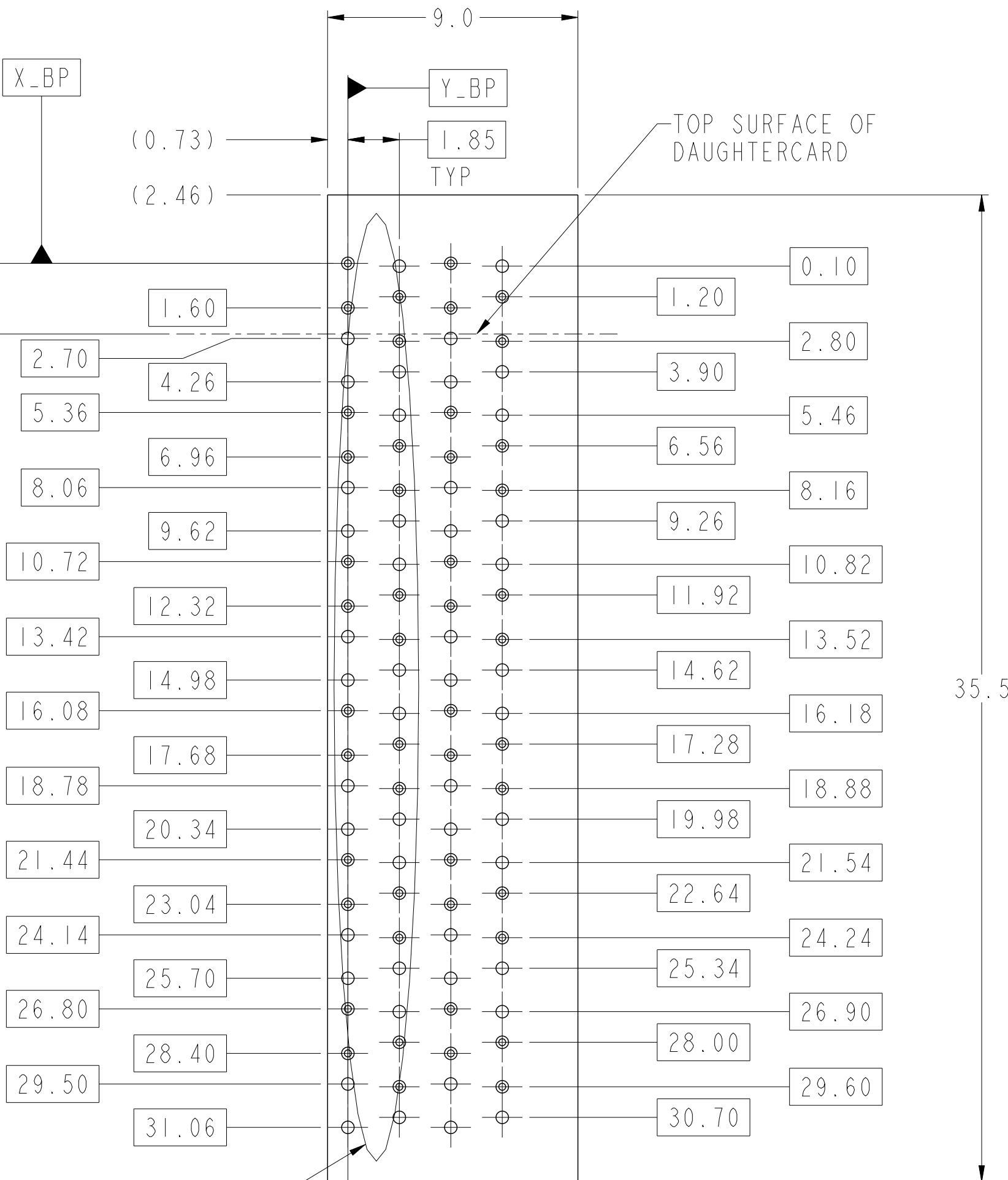


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



2.54
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

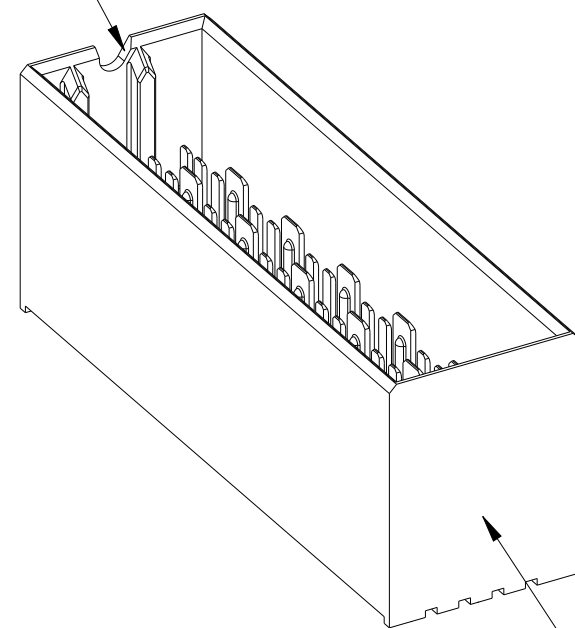
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

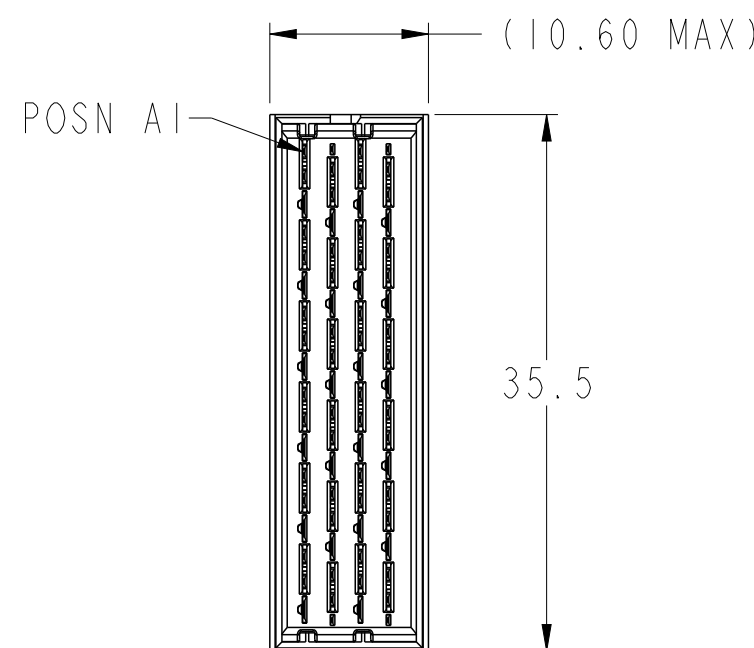
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/03			ecn no	ELX-DG-24191-1						
ASME Y14.5				chr	Heaven Cen	2016/06/08										
				appr	Pei-Ming Zheng	2016/06/15						product family		-	rel level	
surface		linear	0.X	±0.2	Amphenol FCI	title			MODULE ASSEMBLY			dwg no	10114508		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					

FOUR WALL MODULE

SEE NOTE 8

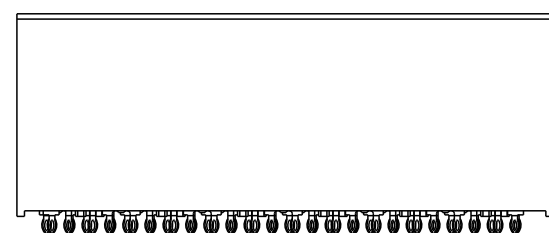
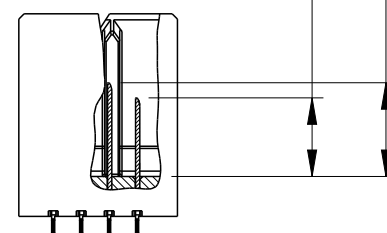


SEE NOTE 5



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)



X_BP

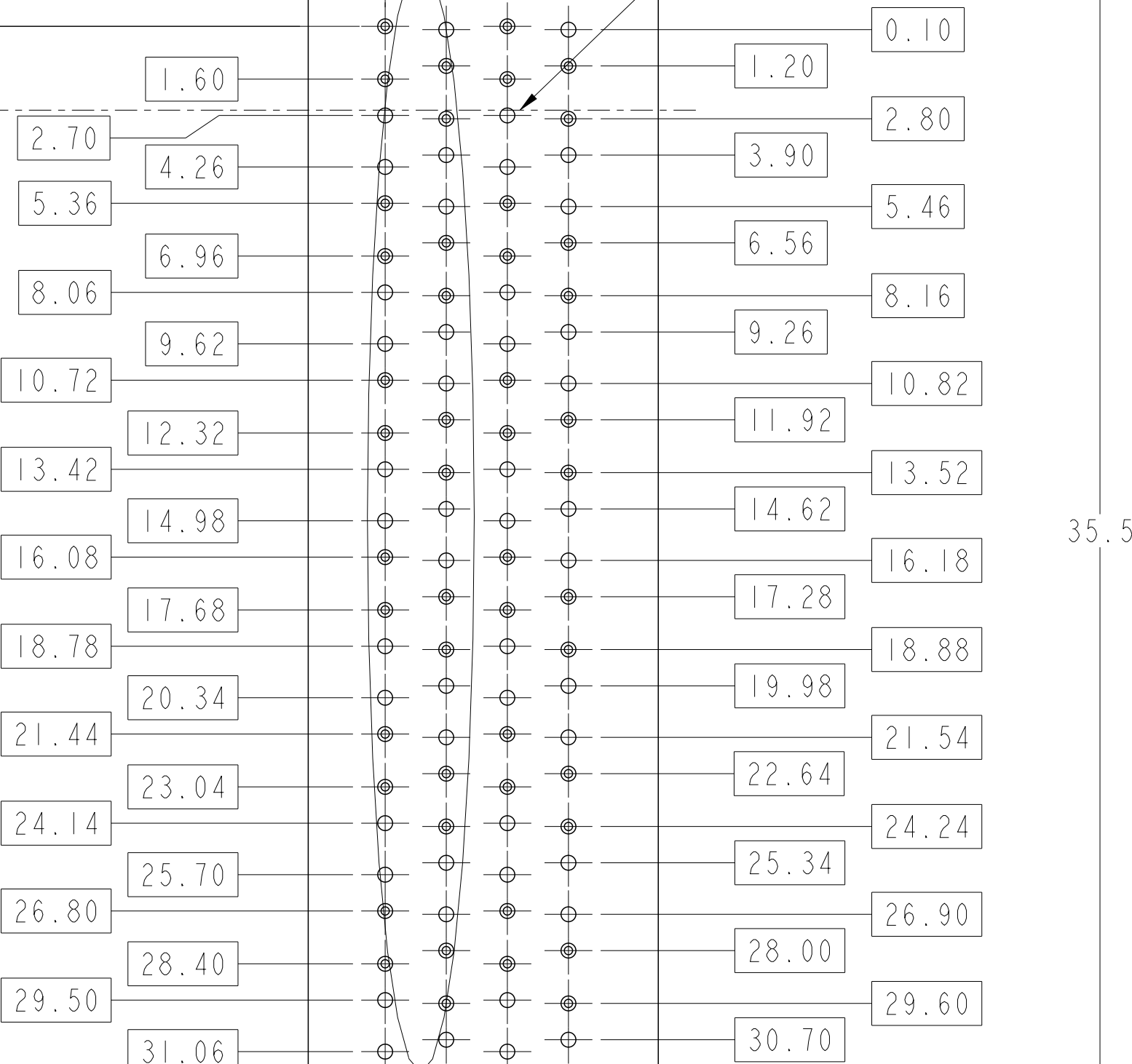
Y_BP

1.85

TYP

TOP SURFACE OF
DAUGHTERCARD

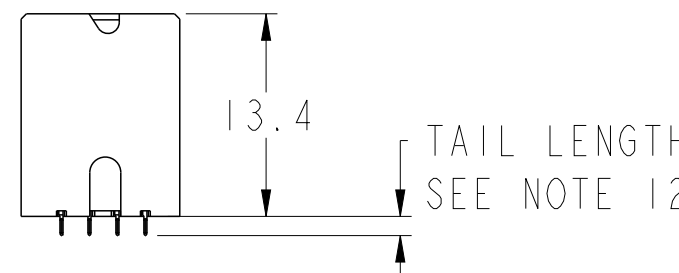
2.54
TO TOP SURFACE
OF DAUGHTERCARD

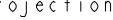
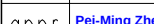


SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE



spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23			MM	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				rel level	Released			
				appr	Pei-Ming Zheng	2016/06/15	product family			-				
surface		linear	0.X	±0.2		title	MODULE ASSEMBLY			dwg no	10114508		rev	G
			0.XX	±0.10			VERTICAL HEADER, 4-COLUMN, 6-PAIR							
			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

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 (CO) OR UNCONTROLLED ENVIRONMENT (UE) TEST SEQUENCE AS NOTED IN P/N TREE.

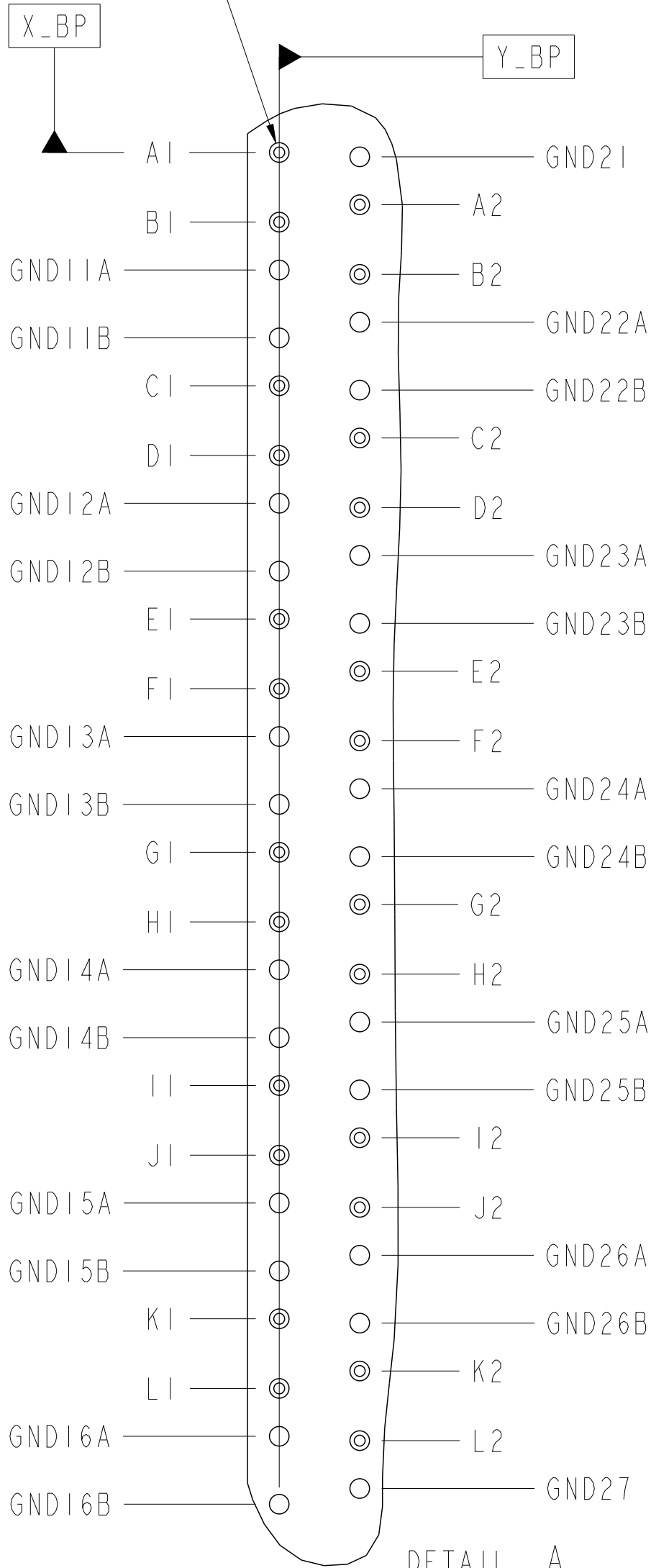
PRESS-FIT TAILS: TIN OVER NICKEL, OR TIN-LEAD ALLOY OVER NICKEL. SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLICATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, 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.
- TAIL LENGTH=1.3mm FOR Ø0.55[0.0217"]COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR Ø0.45[0.0177"]COMPLIANT PIN DRILL

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

$\varnothing$	0.10	X_BP	Y_BP
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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



spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	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									
				appr	Pei-Ming Zheng	2016/06/15	product family		-	rel level	Released				
surface	linear	0.X	±0.2	Amphenol FCi	title	MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 6-PAIR					dwg no	10114508		rev	G
✓		0.XX	±0.10												
ASME Y14.5		0.XXX	±0.050												
	angular	0°	±°		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:

[10114508-00J-10B](#) [10114508-00J-20B](#) [10114508-00J-30B](#) [10114508-00J-40B](#) [10114508-00J-50B](#) [10114508-00J-50DLF](#) [10114508-00J-60B](#) [10114508-00J-60DLF](#) [10114508-00J-70B](#) [10114508-00J-70DLF](#) [10114508-00J-80B](#) [10114508-00J-80DLF](#) [10114508-10J-10B](#) [10114508-10J-20B](#) [10114508-10J-30B](#) [10114508-10J-40B](#) [10114508-10J-50B](#) [10114508-10J-50DLF](#) [10114508-10J-60B](#) [10114508-10J-60DLF](#) [10114508-10J-70B](#) [10114508-10J-70DLF](#) [10114508-10J-80B](#) [10114508-10J-80DLF](#) [10114508-A0J-10B](#) [10114508-A0J-20B](#) [10114508-A0J-30B](#) [10114508-A0J-40B](#) [10114508-A0J-50B](#) [10114508-A0J-50DLF](#) [10114508-A0J-60B](#) [10114508-A0J-60DLF](#) [10114508-A0J-70B](#) [10114508-A0J-70DLF](#) [10114508-A0J-80B](#) [10114508-A0J-80DLF](#) [10114508-B0J-10B](#) [10114508-B0J-20B](#) [10114508-B0J-30B](#) [10114508-B0J-40B](#) [10114508-B0J-50B](#) [10114508-B0J-50DLF](#) [10114508-B0J-60B](#) [10114508-B0J-60DLF](#) [10114508-B0J-70B](#) [10114508-B0J-70DLF](#) [10114508-B0J-80B](#) [10114508-B0J-80DLF](#) [10114508-C0J-10B](#) [10114508-C0J-20B](#) [10114508-C0J-30B](#) [10114508-C0J-40B](#) [10114508-C0J-50B](#) [10114508-C0J-50DLF](#) [10114508-C0J-60B](#) [10114508-C0J-60DLF](#) [10114508-C0J-70B](#) [10114508-C0J-70DLF](#) [10114508-C0J-80B](#) [10114508-C0J-80DLF](#) [10114508-D0J-10B](#) [10114508-D0J-20B](#) [10114508-D0J-30B](#) [10114508-D0J-40B](#) [10114508-D0J-50B](#) [10114508-D0J-50DLF](#) [10114508-D0J-60B](#) [10114508-D0J-60DLF](#) [10114508-D0J-70B](#) [10114508-D0J-70DLF](#) [10114508-D0J-80B](#) [10114508-D0J-80DLF](#) [10114508-E0J-10B](#) [10114508-E0J-20B](#) [10114508-E0J-30B](#) [10114508-E0J-40B](#) [10114508-E0J-50B](#) [10114508-E0J-50DLF](#) [10114508-E0J-60B](#) [10114508-E0J-60DLF](#) [10114508-E0J-70B](#) [10114508-E0J-70DLF](#) [10114508-E0J-80B](#) [10114508-E0J-80DLF](#) [10114508-F0J-10B](#) [10114508-F0J-20B](#) [10114508-F0J-30B](#) [10114508-F0J-40B](#) [10114508-F0J-50B](#) [10114508-F0J-50DLF](#) [10114508-F0J-60B](#) [10114508-F0J-60DLF](#) [10114508-F0J-70B](#) [10114508-F0J-70DLF](#) [10114508-F0J-80B](#) [10114508-F0J-80DLF](#) [10114508-G0J-10B](#) [10114508-G0J-20B](#) [10114508-G0J-30B](#) [10114508-G0J-40B](#)