

10114508 - 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										

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	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				rel level	Released					
		appr	Pei-Ming Zheng	2016/06/15				product family						
surface	linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 1 of 8				
		0.XX	±0.10								dwg no	10114508	rev	G
ASME Y14.5	angular	0°	±°											

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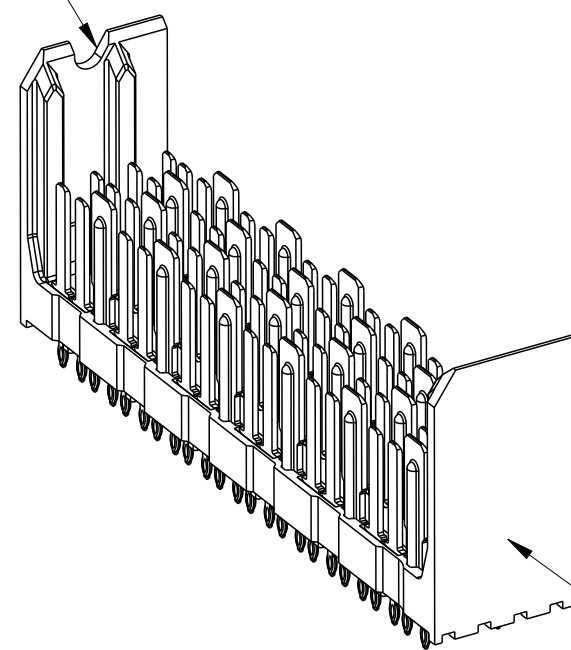
PDS: Rev :G

STATUS:Released

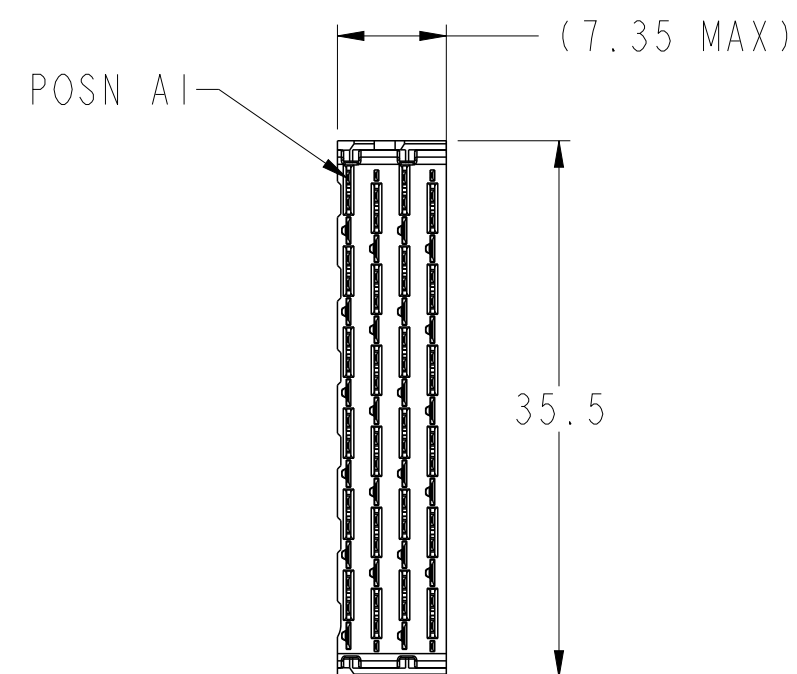
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OPEN (2-WALL) MODULE

SEE NOTE 8-



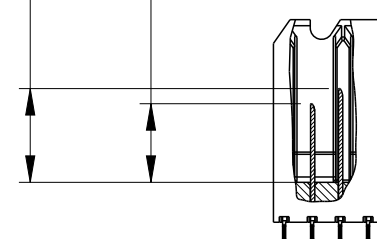
-SEE NOTE 5



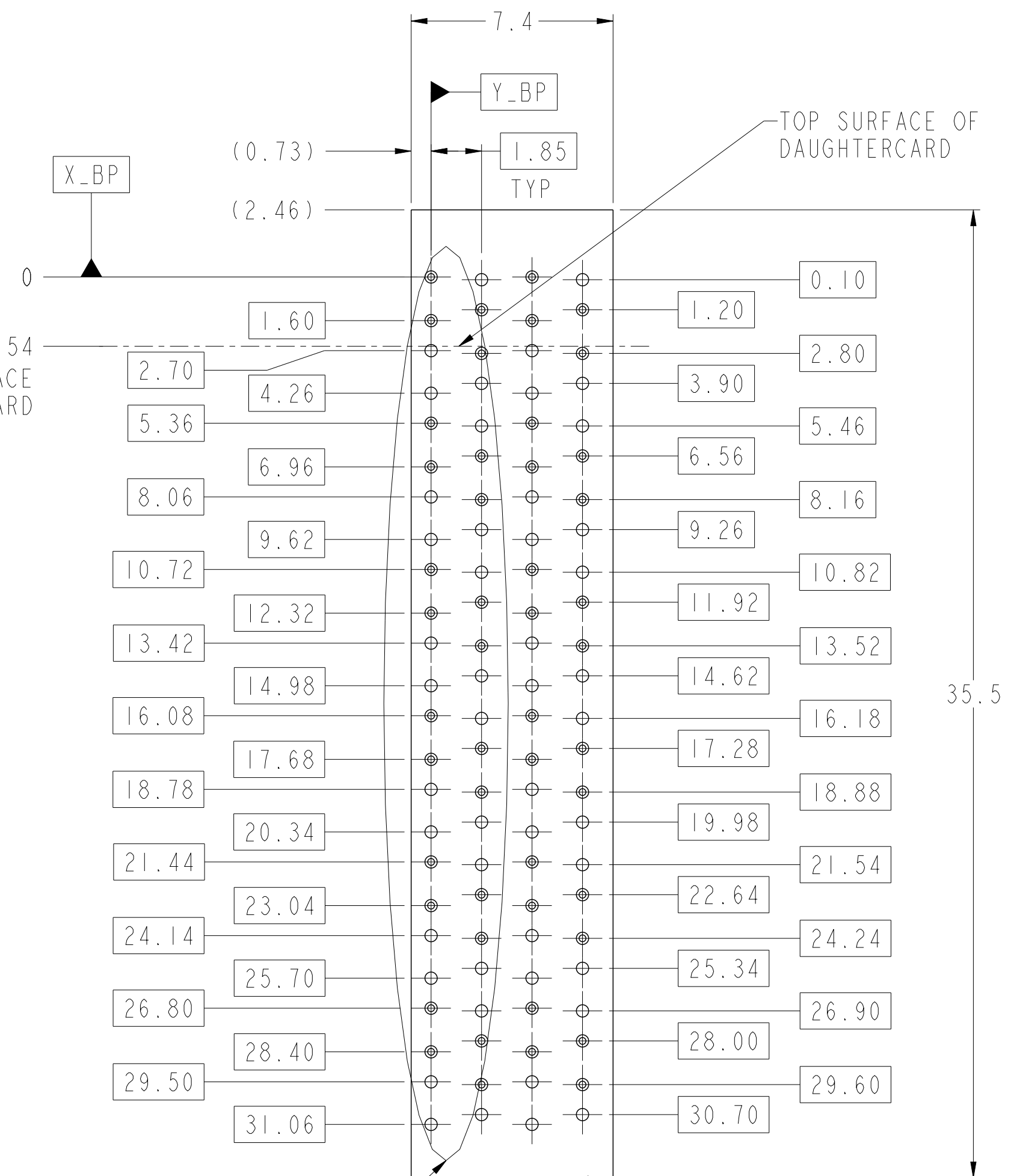
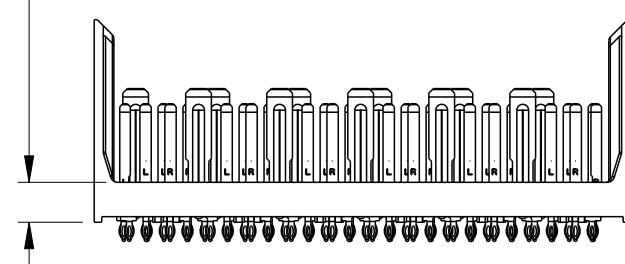
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

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

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



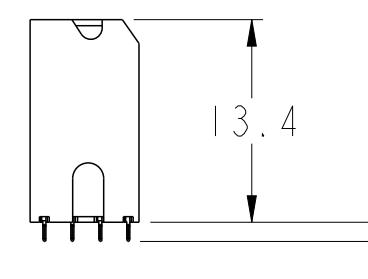
- 2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



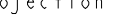
SEE DETAIL A-
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE



TAIL LENGTH
SEE NOTE 12

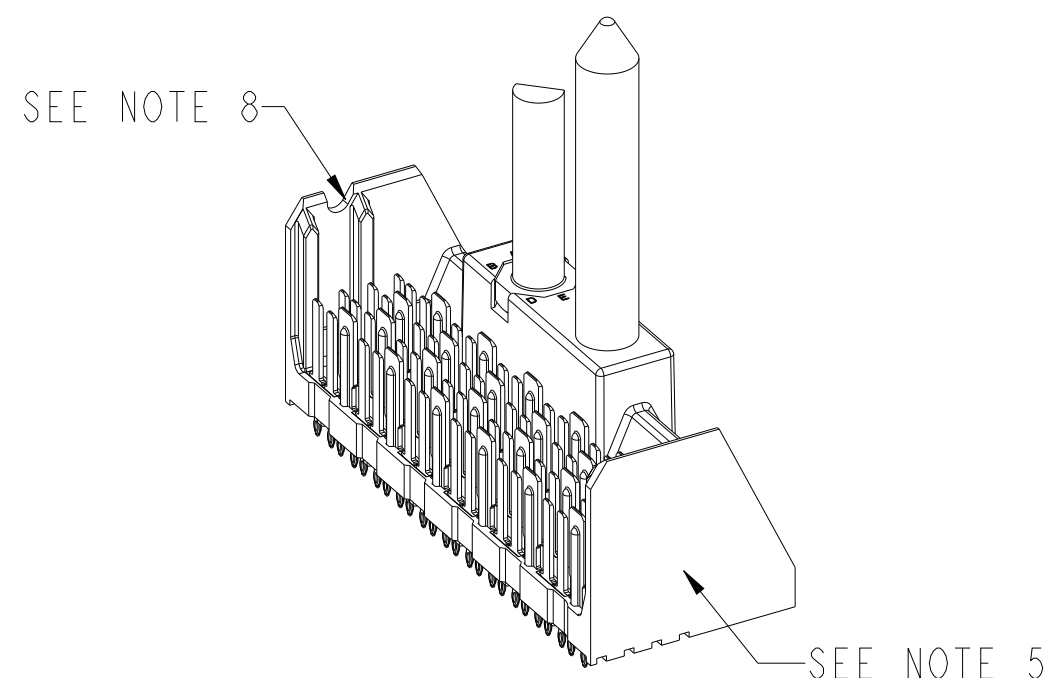
spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/23			size	A2	scale	4:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/03			ecn no	ELX-DG-24193-1					
ASME Y14.5			chr	Heaven Cen	2016/06/06									
			appr	Pei-Ming Zheng	2016/06/15	product family	-	rel level	Released					
surface		linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY				dwg no	10114508	rev	G
		0.XXX	±0.10											
ASME Y14.5	angular	0°	±0.050	±0°			cat. no.	SEE P/N TREE	Product - Customer Drw					

PDS: Rev :G

STATUS:Released

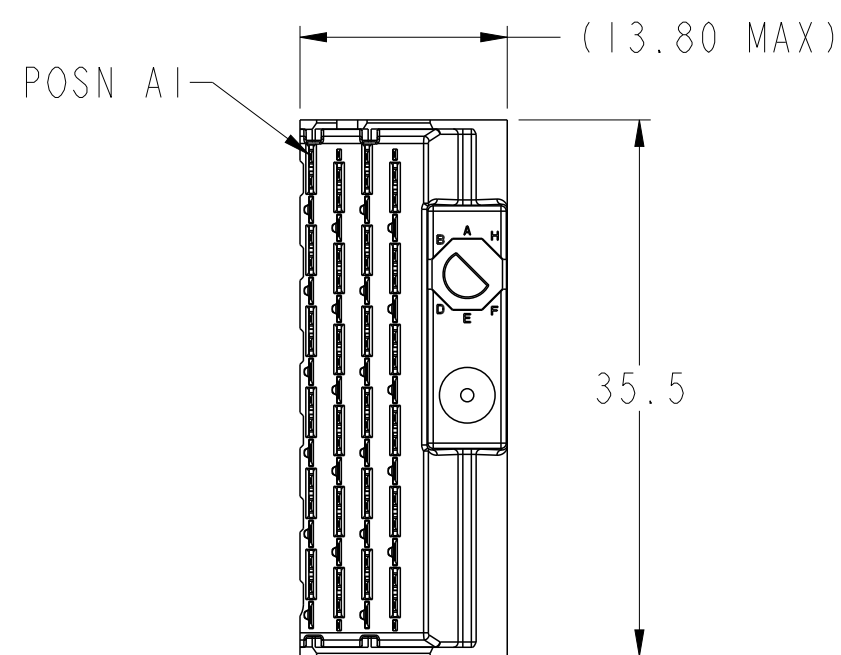
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RIGHT POLARIZING/GUIDE MODULE

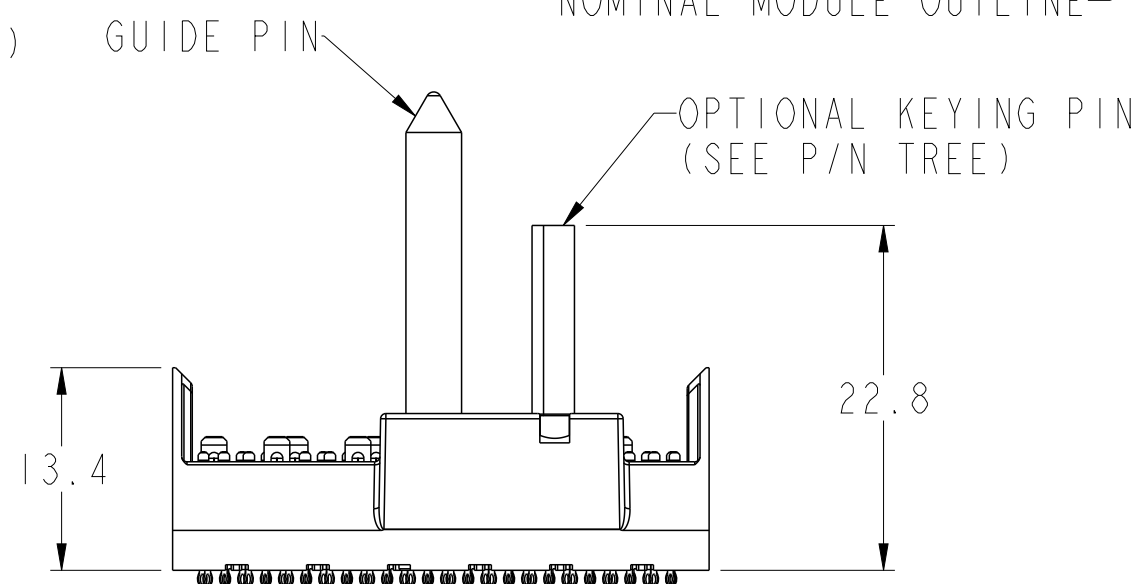
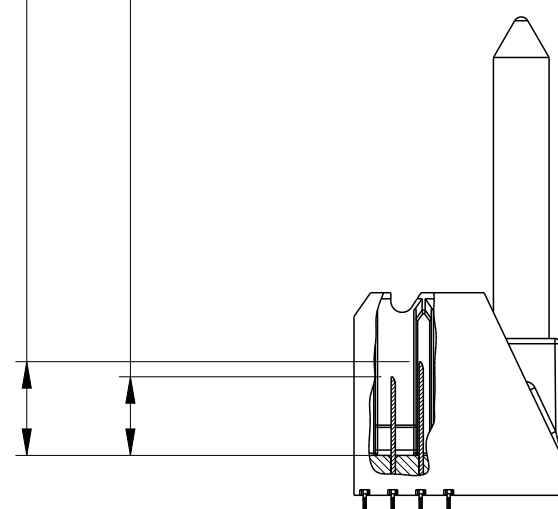


SEE NOTE 8

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)

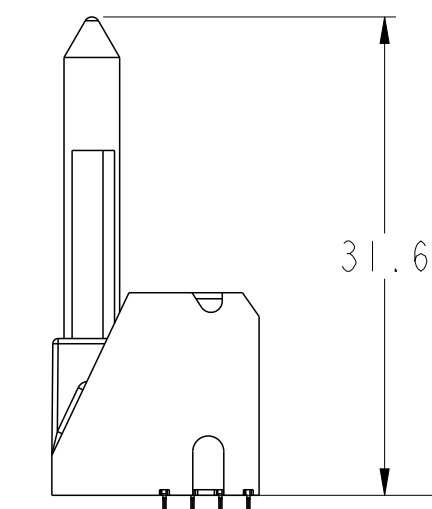


GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)

SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE



TAIL LENGTH
SEE NOTE 12

X_BP

(0.73)

(2.46)

0

2.54

TO TOP SURFACE
OF DAUGHTERCARD

2.70

5.36

8.06

10.72

13.42

16.08

18.78

21.44

24.14

26.80

29.50

1.60

4.26

6.96

9.62

12.32

14.98

17.68

20.34

23.04

25.70

28.40

31.06

Y_BP

1.85 TYP

10.36

TOP SURFACE OF
DAUGHTERCARD

0.10

2.80

5.46

8.16

10.82

13.52

16.18

18.88

21.54

24.24

26.90

29.60

Ø 2.55
2.35

Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

35.5

spec ref		SEE NOTES		dr		Kok-Hoe Lee		2010/06/23		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				title		MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 6-PAIR						dwg no		10114508		rev		G			
			0.X																				±0.2	
			0.XX																				±0.10	
ASME Y14.5		angular		0°		±0.050																		
						</																		

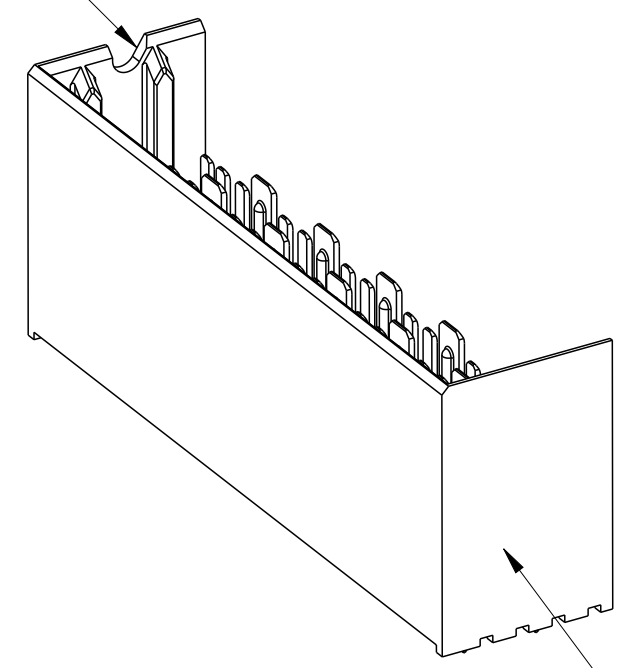
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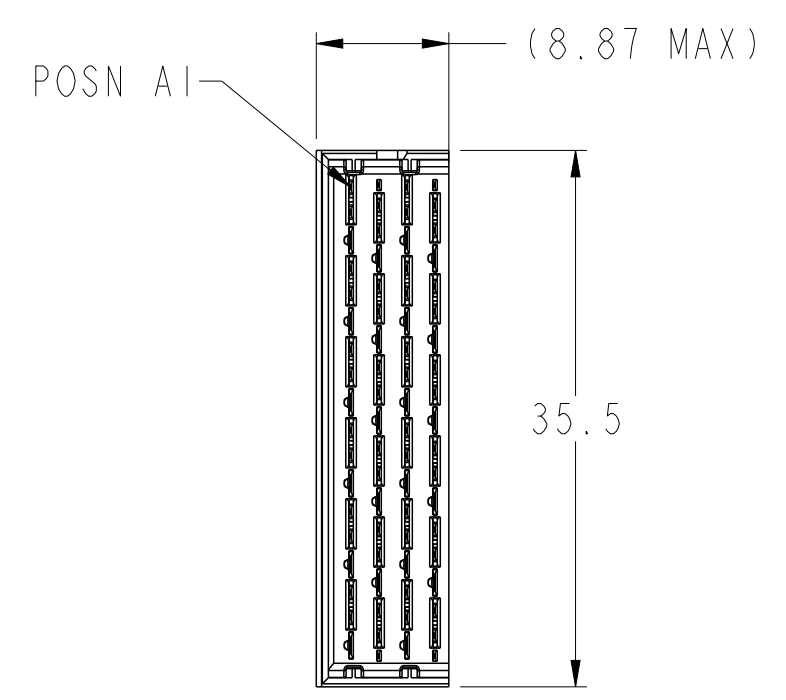
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LEFT WALL MODULE

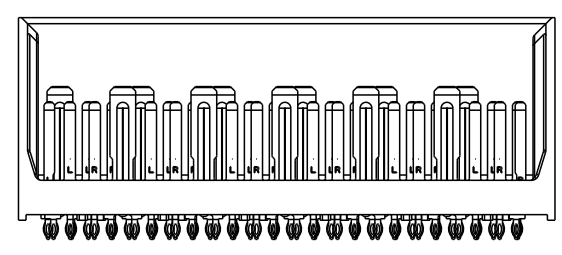
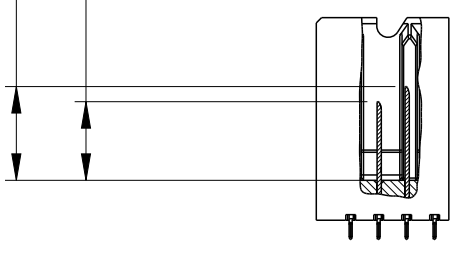
SEE NOTE 8



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)



X_BP

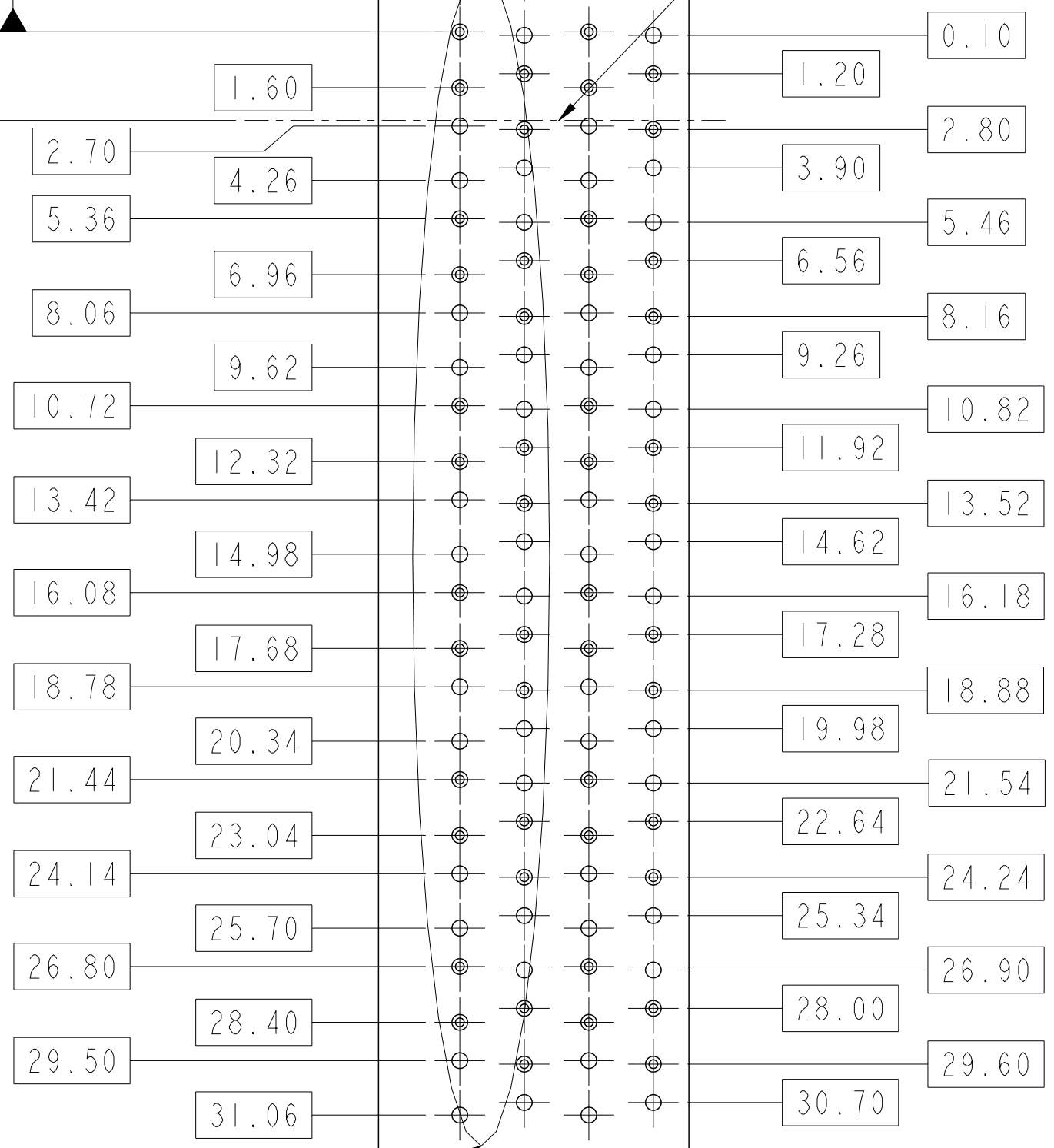
Y_BP

1.85
TYP

(2.33)
(2.46)

TOP SURFACE OF DAUGHTERCARD

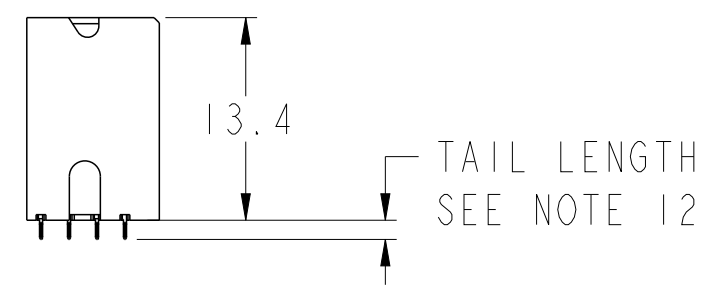
2.54
TO TOP SURFACE OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE



TAIL LENGTH
SEE NOTE 12

spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/23		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 0.XX ±0.10 0.XXX ±0.050		Amphenol FCI		title		MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 6-PAIR										dwg no		10114508						rev		G	
ASME Y14.5				angular																													
												cat. no.		SEE P/N TREE				Product - Customer Drw				sheet 5 of 8											

PDS: Rev :G

STATUS:Released

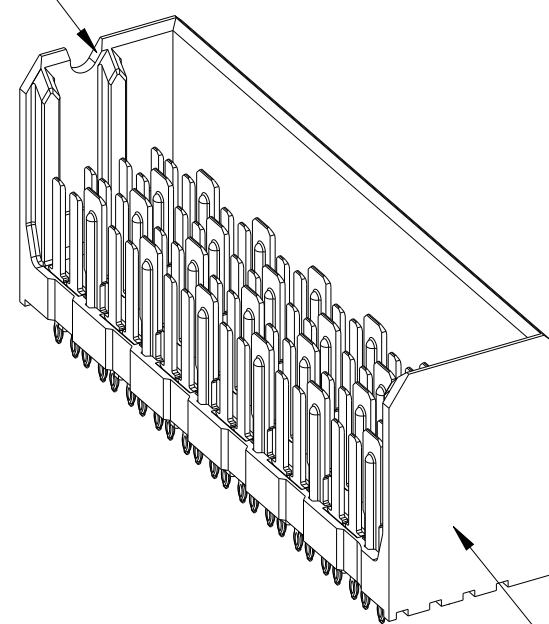
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Amphenol FCI

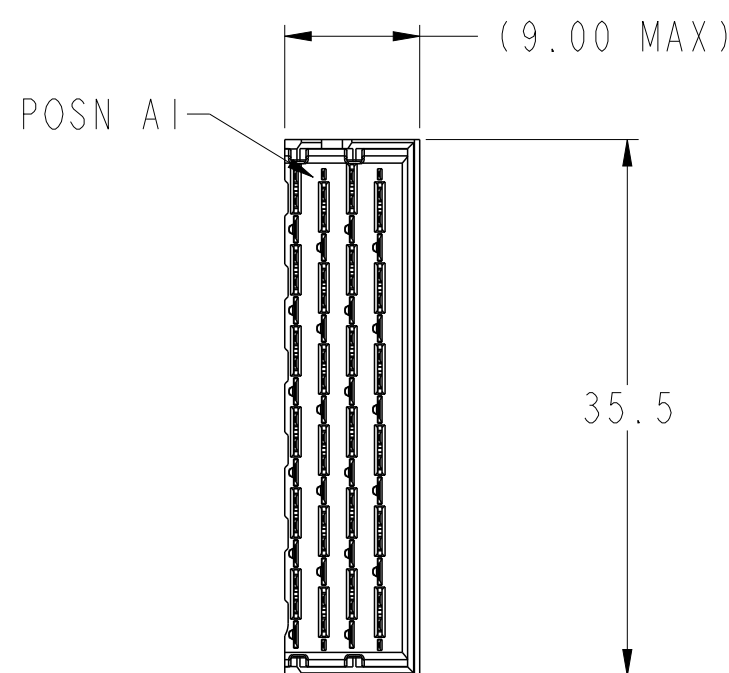
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RIGHT WALL MODULE

SEE NOTE 8

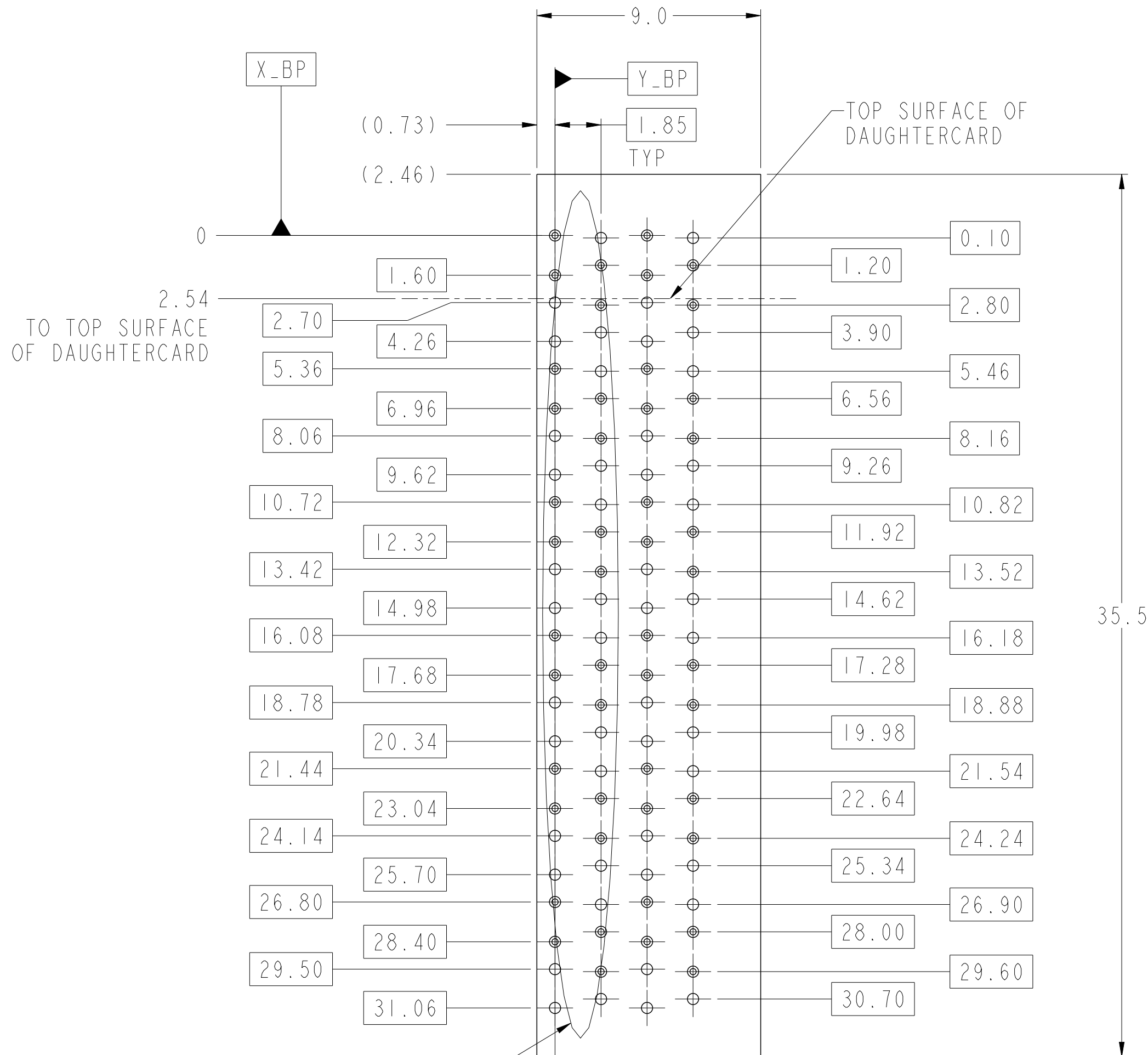
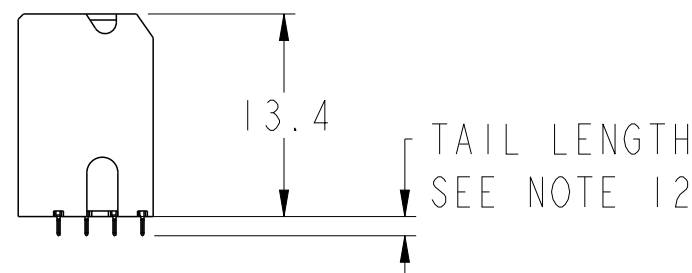
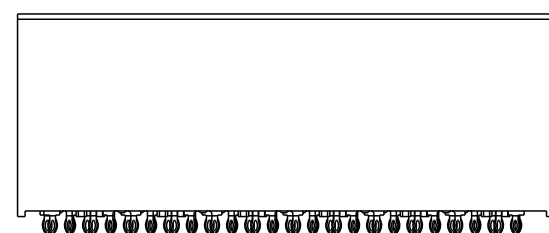
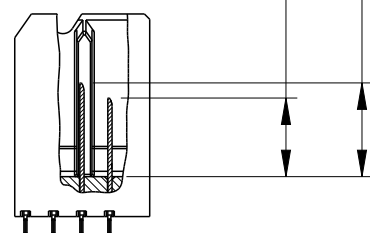


SEE NOTE 5



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)



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	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	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 6 of 8			

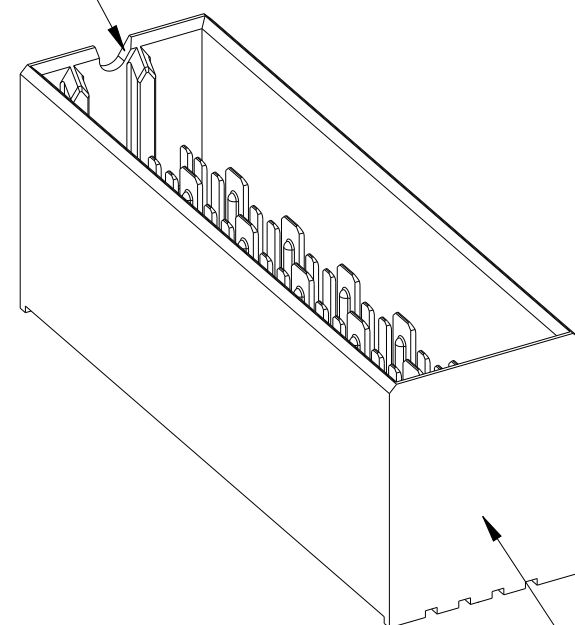
PDS: Rev:G

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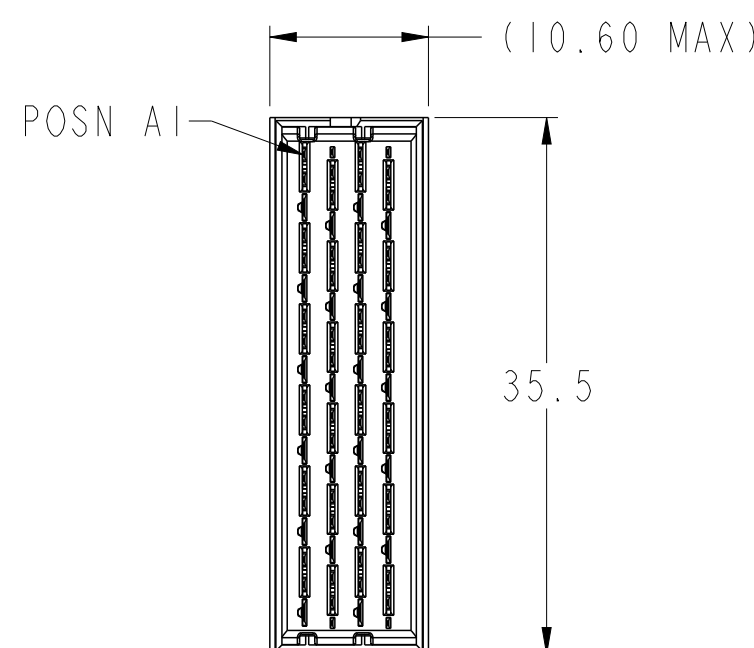
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FOUR WALL MODULE

SEE NOTE 8

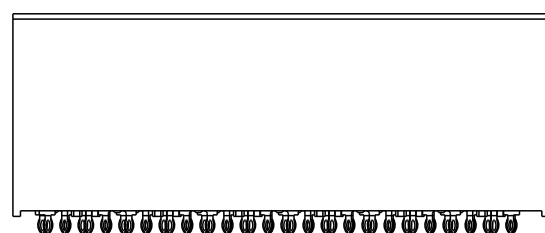
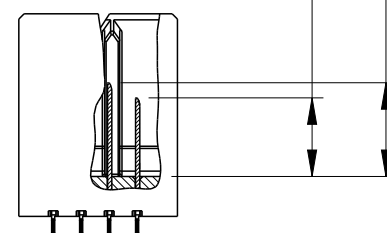


SEE NOTE 5



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

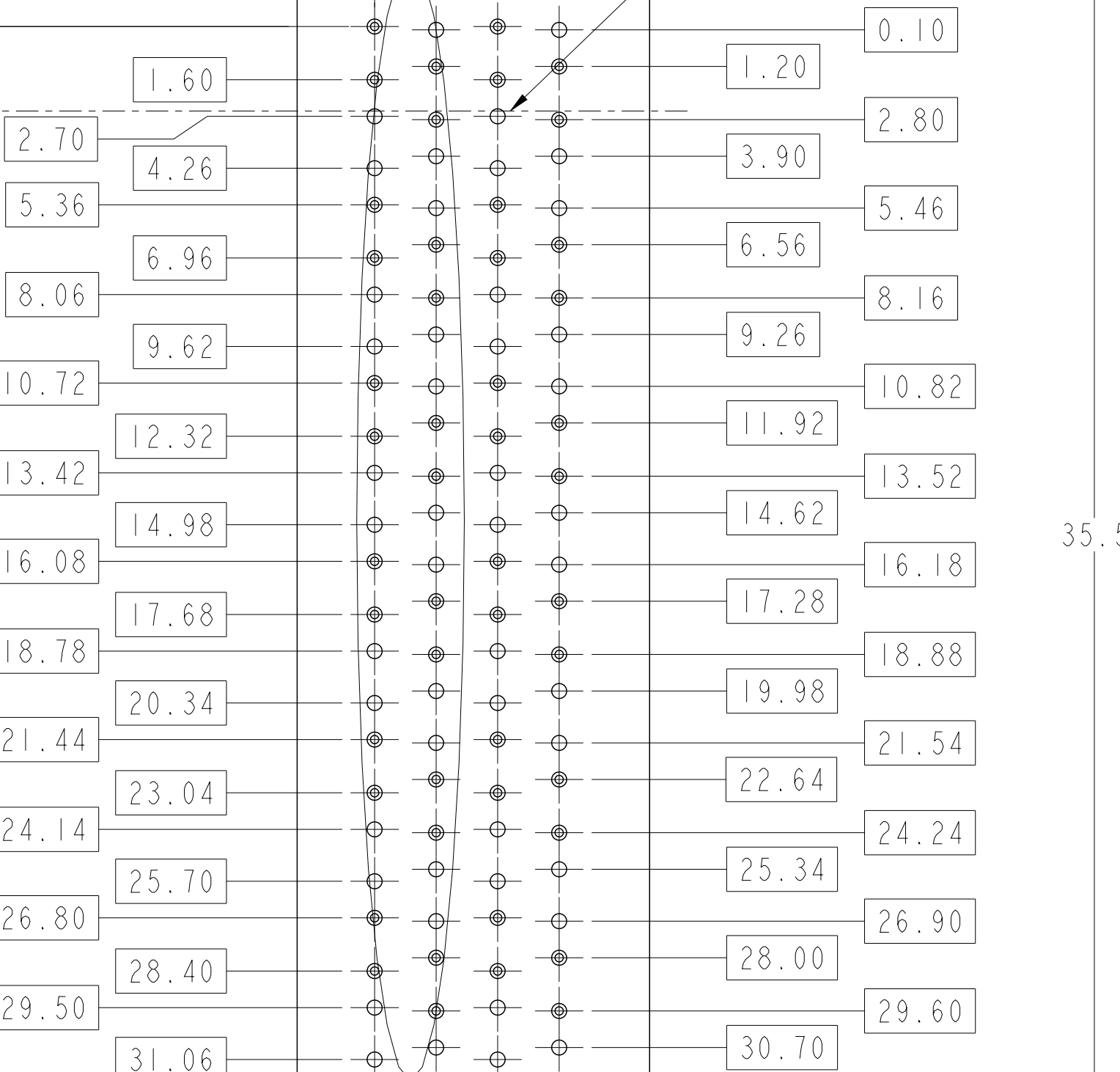
Y_BP

1.85

TYP

TOP SURFACE OF
DAUGHTERCARD

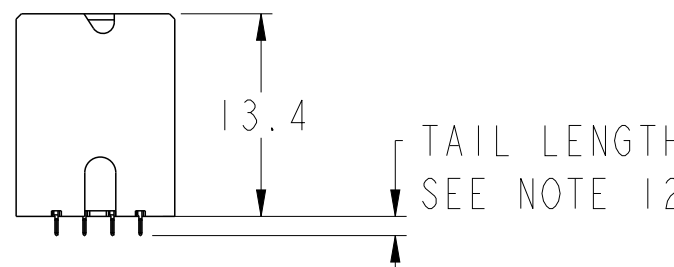
2.54
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE



TAIL LENGTH
SEE NOTE 12

spec ref		SEE NOTES		dr		Kok-Hoe Lee		2010/06/23		projection		size		scale					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/03				A2		3:1					
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		Amphenol FCI		title		MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 6-PAIR		dwg no		10114508		rev		G			
		0.X																±0.2	
		0.XX																±0.10	
ASME Y14.5		angular																	
		0°		±0.050															
				±°															

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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.

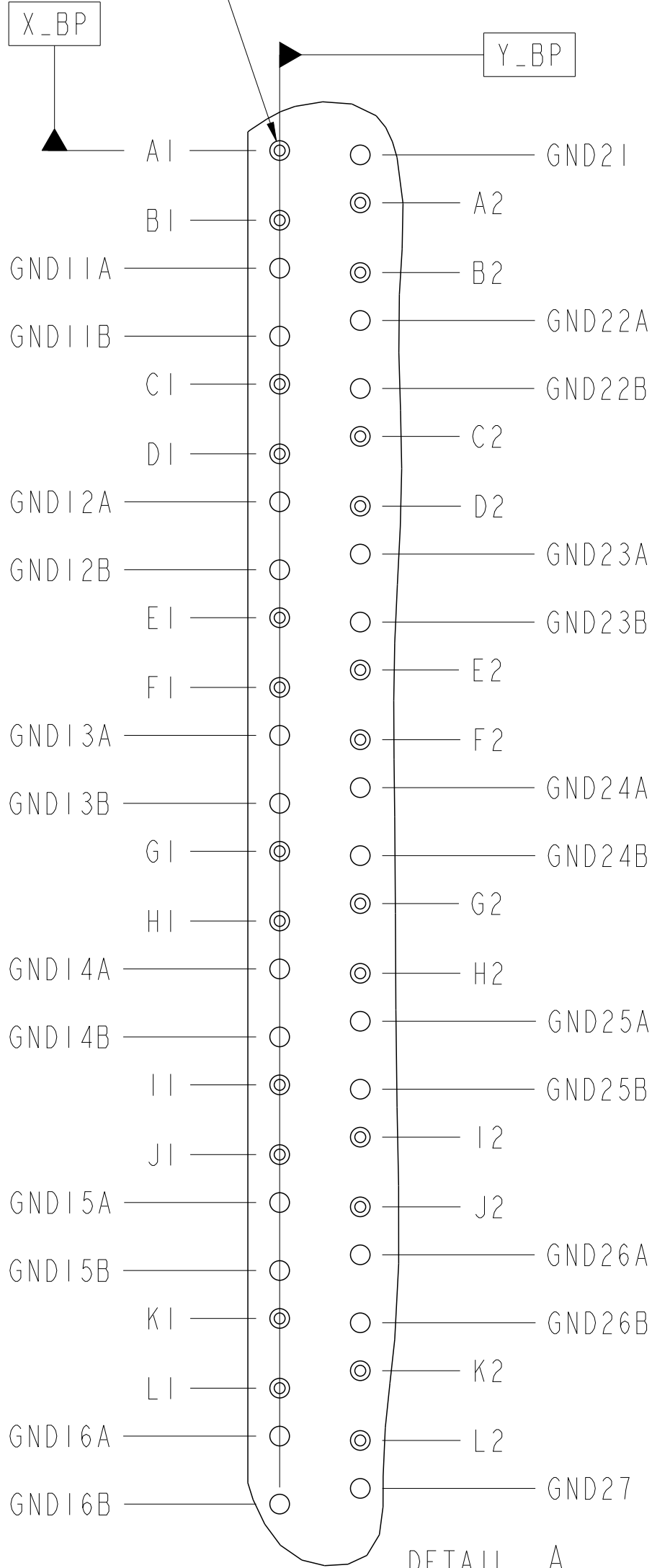
PRESS-FIT TAILS: TIN OVER NICKEL, OR TIN-LEAD ALLOY OVER NICKEL. SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLICATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, 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

⌀	0.10	X_BP	Y_BP
---	------	------	------

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



DETAIL A
SCALE 8:1

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												
		0.XXX	±0.050												
ASME Y14.5	angular	0°	±°	cat. no.		SEE P/N TREE		Product - Customer Drw				sheet 8 of 8			

Mouser Electronics

Authorized Distributor

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FCI / Amphenol:

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[10114508-10J-10B](#) [10114508-10J-10DLF](#) [10114508-10J-20B](#) [10114508-10J-20DLF](#) [10114508-10J-30B](#) [10114508-10J-30DLF](#) [10114508-10J-40B](#) [10114508-10J-40DLF](#) [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-10DLF](#) [10114508-A0J-20B](#) [10114508-A0J-20DLF](#) [10114508-A0J-30B](#) [10114508-A0J-30DLF](#) [10114508-A0J-40B](#) [10114508-A0J-40DLF](#) [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-10DLF](#) [10114508-B0J-20B](#) [10114508-B0J-20DLF](#) [10114508-B0J-30B](#) [10114508-B0J-30DLF](#) [10114508-B0J-40B](#) [10114508-B0J-40DLF](#) [10114508-B0J-50B](#) [10114508-B0J-50DLF](#) [10114508-B0J-60B](#) [10114508-B0J-60DLF](#) [10114508-B0J-70B](#) [10114508-B0J-70DLF](#) [10114508-B0J-80B](#) [10114508-B0J-80DLF](#)
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