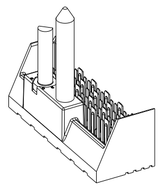
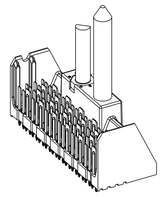
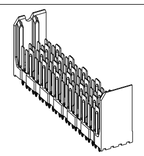
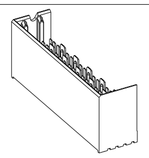
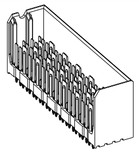
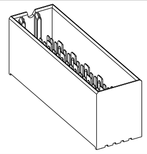
10114508 - X 0 J - X 0 X L F

- 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									

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

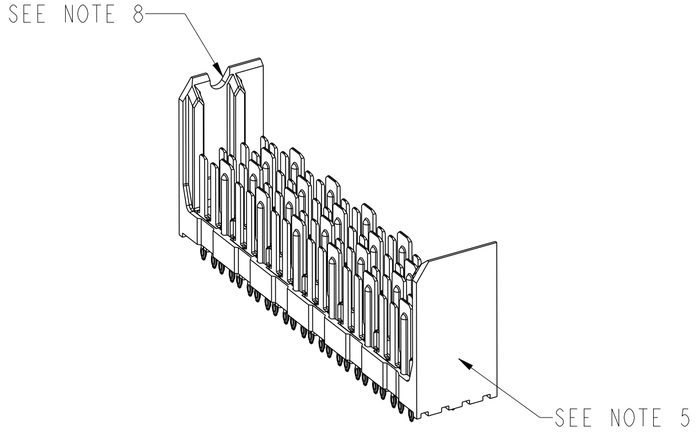
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

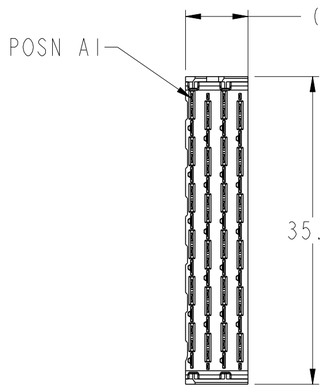
SCREW P/N	DESCRIPTION	BOARD THICKNESS
10091790-002LF	#2-56 X .375" PHILLIPS PANHEAD W/SQ CONICAL WASHER	1.60 - 5.00
10091790-003LF	#2-56 X .500" PHILLIPS PANHEAD W/SQ CONICAL WASHER	5.00 - 10.00

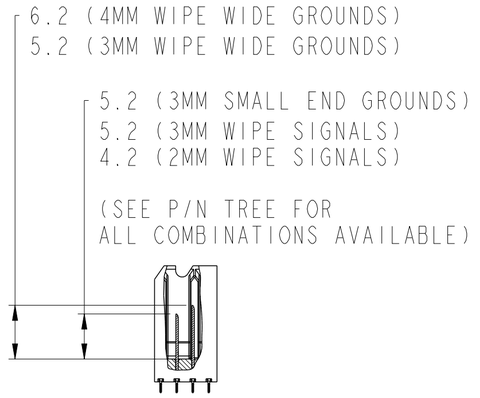
© 2016 AFCI

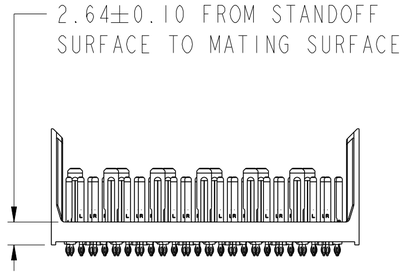
spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/23	projection	MM
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/03	size A2	scale 4:1
			chr	Heaven Cen	2016/06/08	ecn no	ELX-DG-24191-1
			appr	Pei-Ming Zheng	2016/06/15	product family -	rel level Released
surface - ASME Y14.5	linear	0.X ±0.2	Amphenol FCI	title	MODULE ASSEMBLY	dwg no 10114508	rev G
		0.XX ±0.10			VERTICAL HEADER, 4-COLUMN, 6-PAIR		
		0.XXX ±0.050					
	angular	0° ±°			cat. no. SEE P/N TREE	Product - Customer Drw	sheet 1 of 8

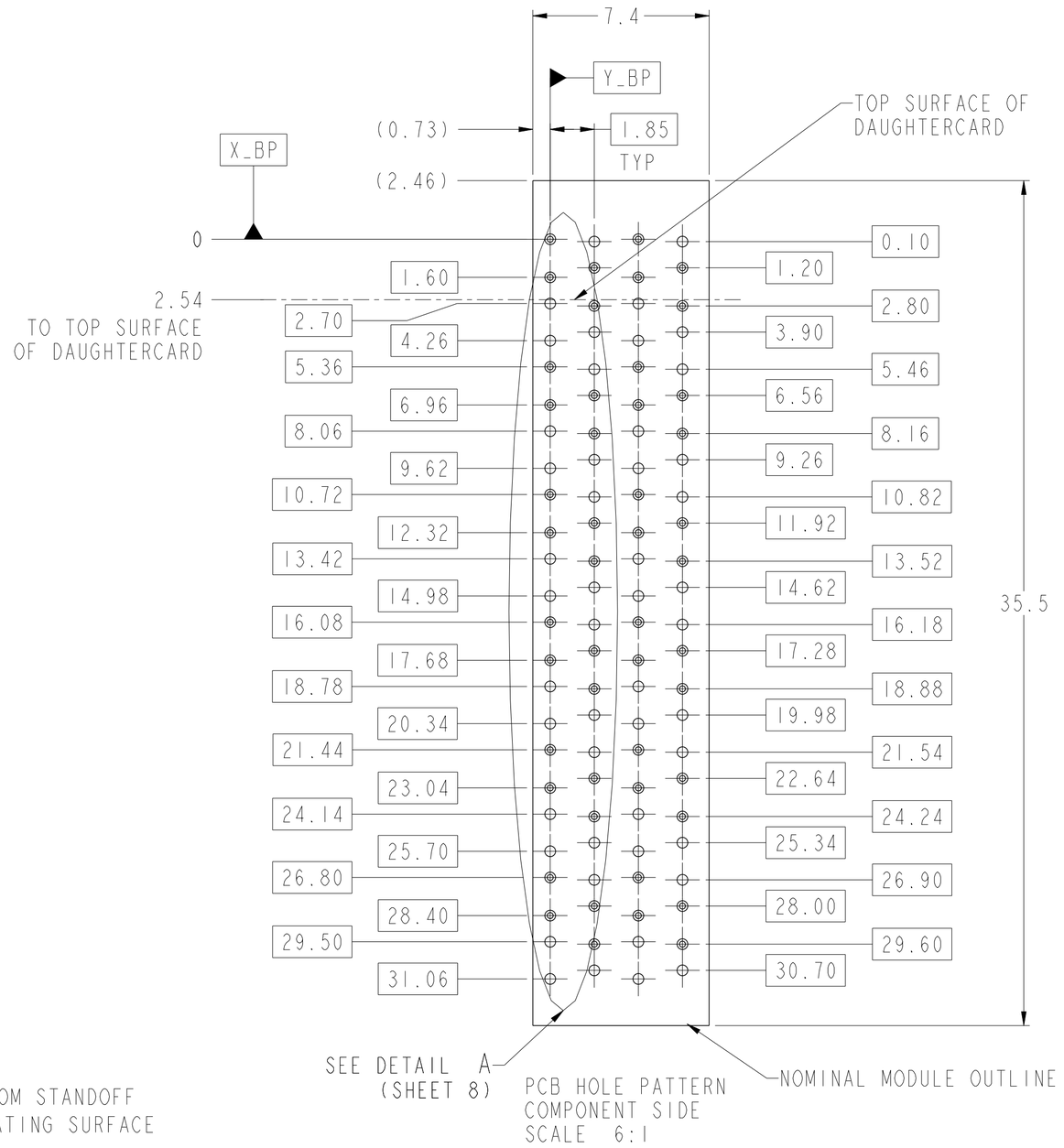
OPEN (2-WALL) MODULE

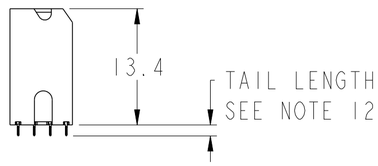








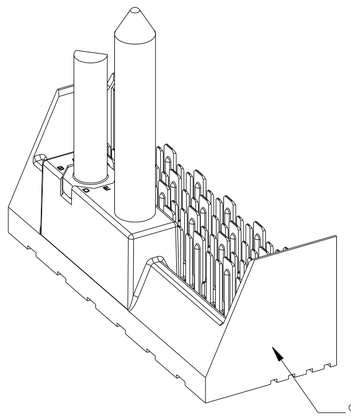


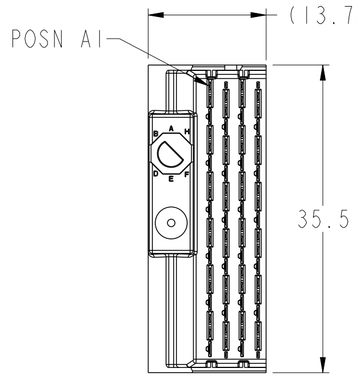


spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	projection	MM	size A2 / scale 4:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/03			
				chr	Heaven Cen	2016/06/08			ecn no ELX-DG-24191-1
				appr	Pei-Ming Zheng	2016/06/15	product family -		rel level Released
surface - ASME Y14.5	linear	0.X	±0.2	Amphenol FCi	title	MODULE ASSEMBLY	dwg no	10114508	rev G
		0.XX	±0.10			VERTICAL HEADER, 4-COLUMN, 6-PAIR			
		0.XXX	±0.050			cat. no. SEE P/N TREE	Product - Customer Drw		sheet 2 of 8
	angular	0°	±°						

© 2016 AFCI

LEFT POLARIZING/GUIDE MODULE

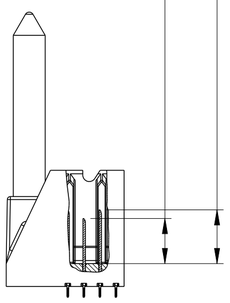


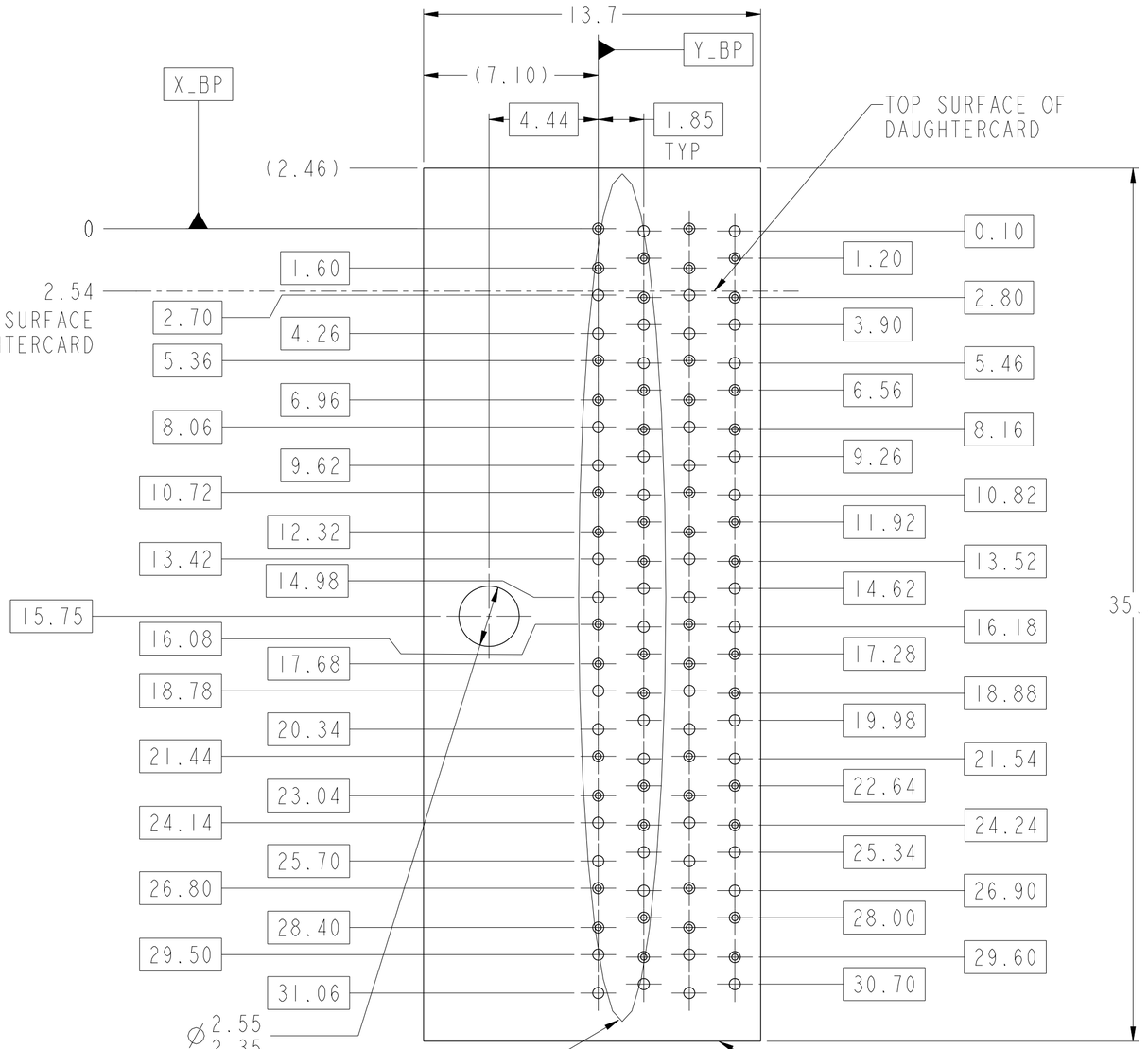


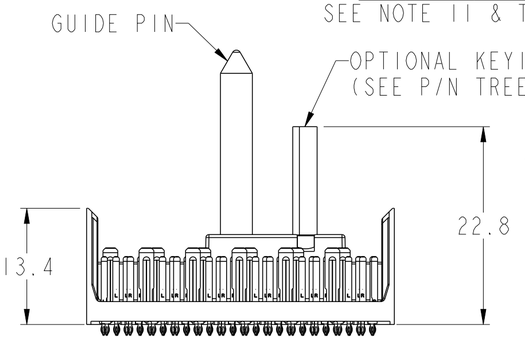
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

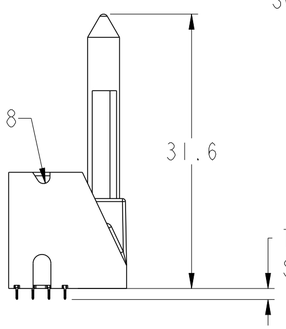
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)





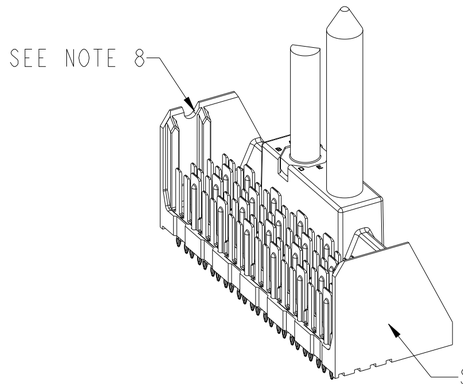


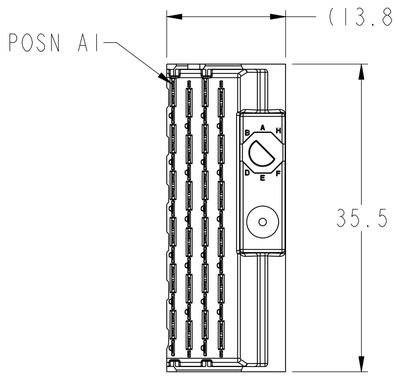


spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	projection	MM	size A2 / scale 8:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/03			
				chr	Heaven Cen	2016/06/08			ecn no ELX-DG-24191-1
				appr	Pei-Ming Zheng	2016/06/15	product family -		rel level Released
surface - ASME Y14.5	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						
	angular	0°	± °		cat. no. SEE P/N TREE	Product - Customer Drw			sheet 3 of 8

© 2016 AFCI

RIGHT POLARIZING/GUIDE MODULE

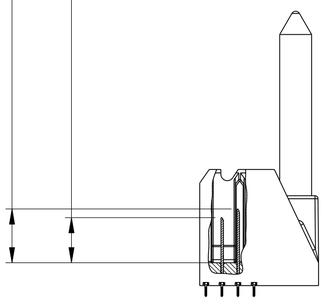


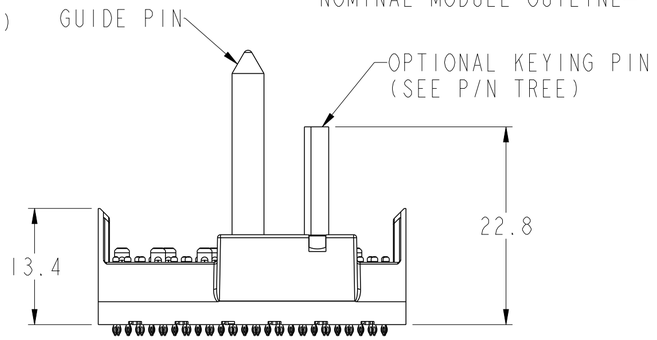


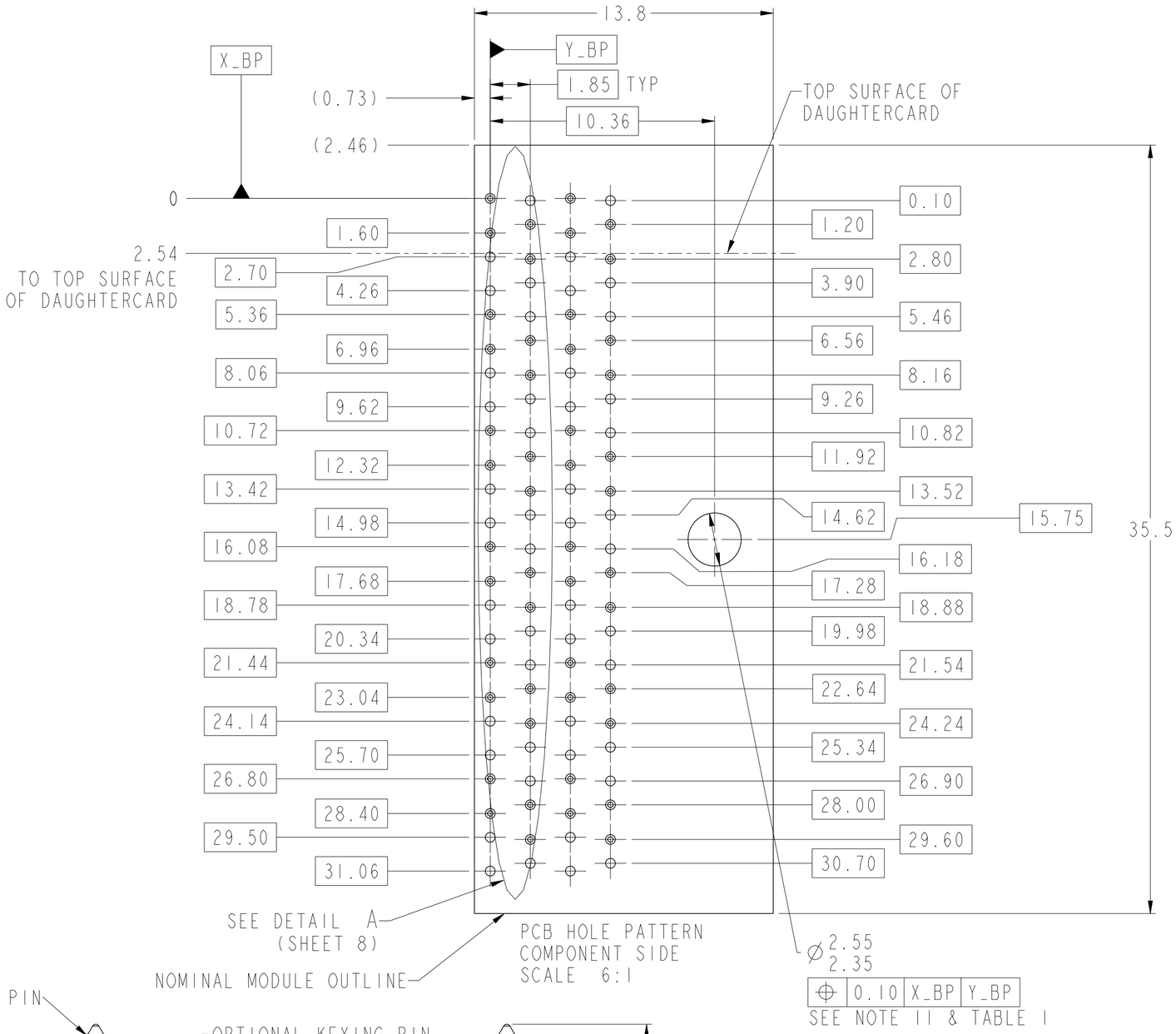
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

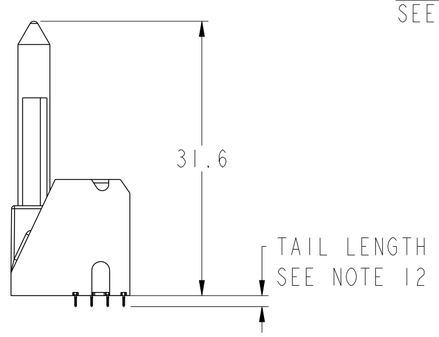
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)









spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/23	projection	MM
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/03	size A2	scale 5:1
			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 - ASME Y14.5	linear	0.X ±0.2	Amphenol FCI	title	MODULE ASSEMBLY	dwg no 10114508	rev G
		0.XX ±0.10			VERTICAL HEADER, 4-COLUMN, 6-PAIR		
		0.XXX ±0.050		cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 4 of 8
	angular	0° ±°					

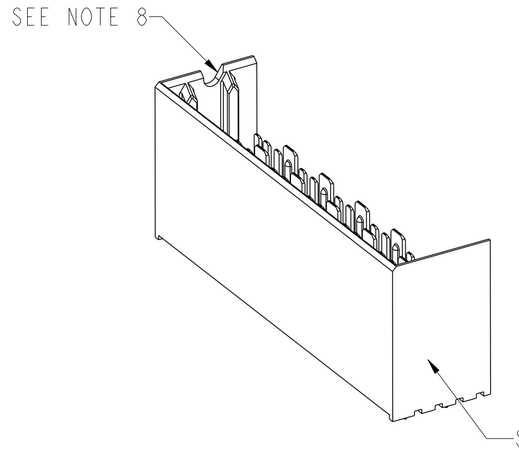
© 2016 AFCI

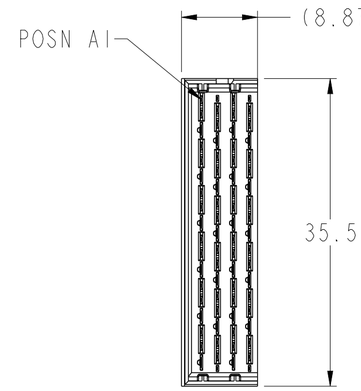
Amphenol FCI

Creo File - REV E - 2016-02-12

PDS: Rev :G | STATUS: Released | Printed: Jun 15, 2016

LEFT WALL MODULE

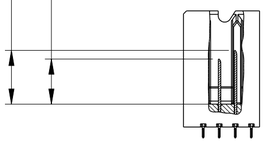


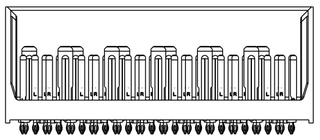


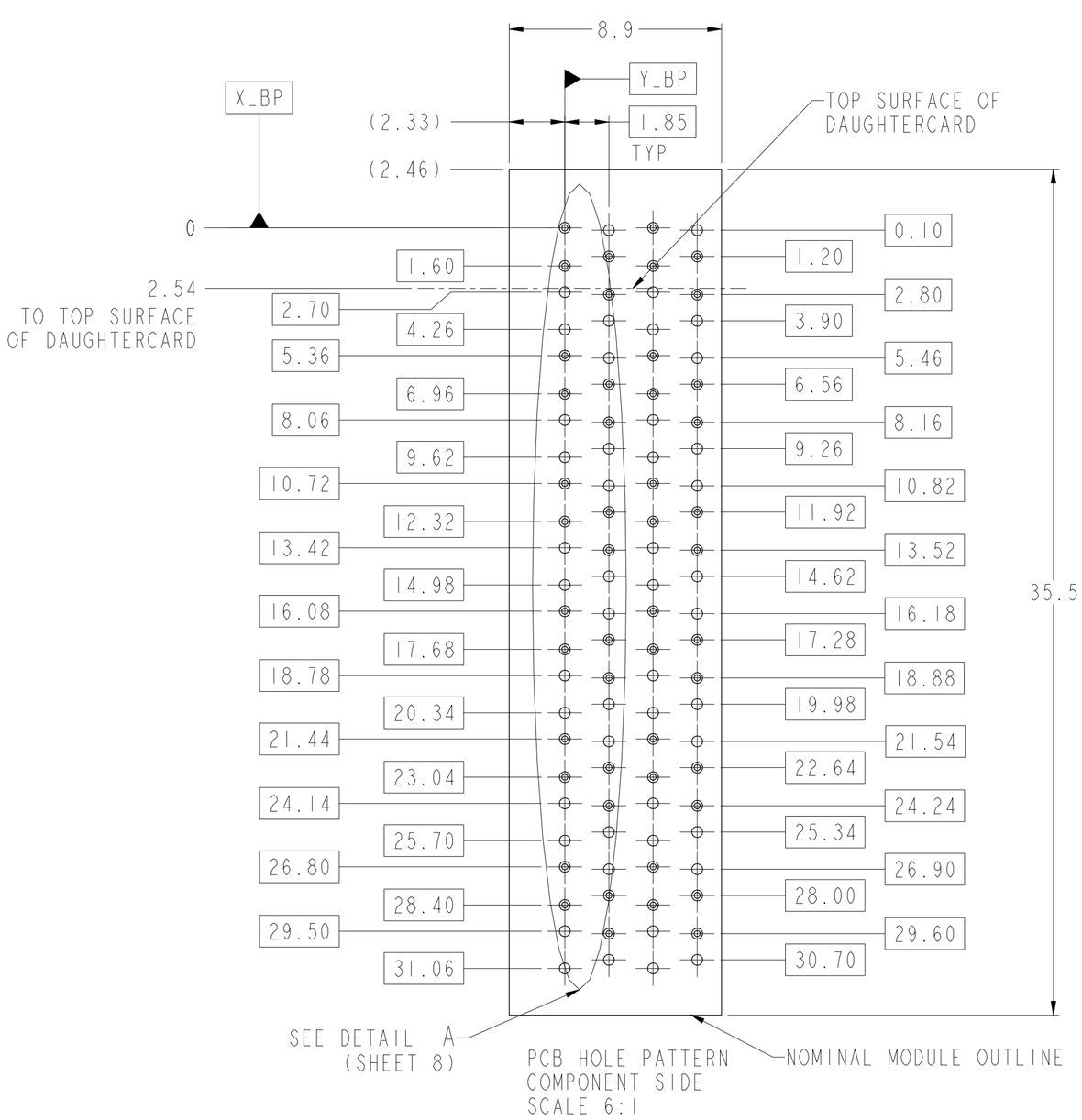
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

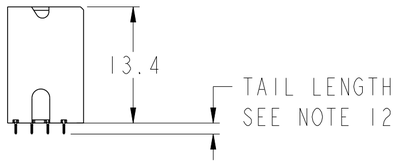
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)









spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	projection	MM	size A2	scale 6:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			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 - ASME Y14.5	linear	0.X	±0.2	Amphenol FCi	title	MODULE ASSEMBLY	dwg no	10114508	rev	G
		0.XX	±0.10			VERTICAL HEADER, 4-COLUMN, 6-PAIR				
		0.XXX	±0.050							
	angular	0°	± °		cat. no.	SEE P/N TREE	Product - Customer Drw		sheet 5 of 8	

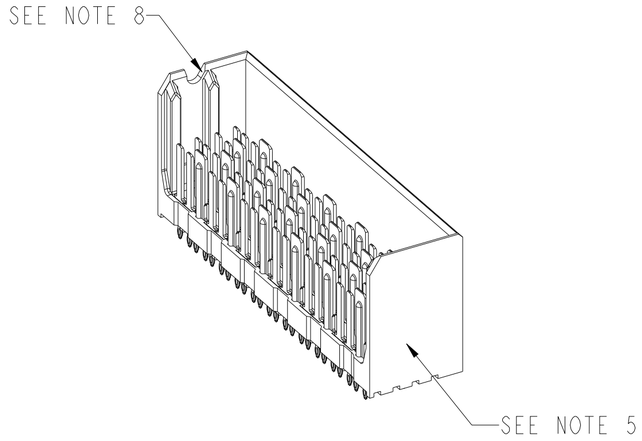
© 2016 AFCI

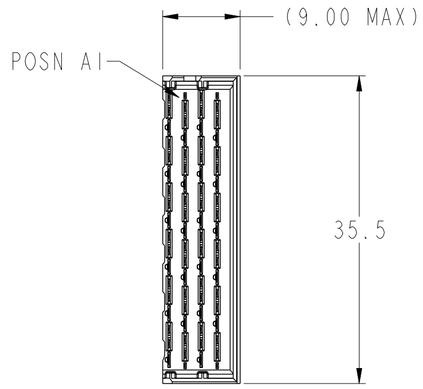
Amphenol FCi

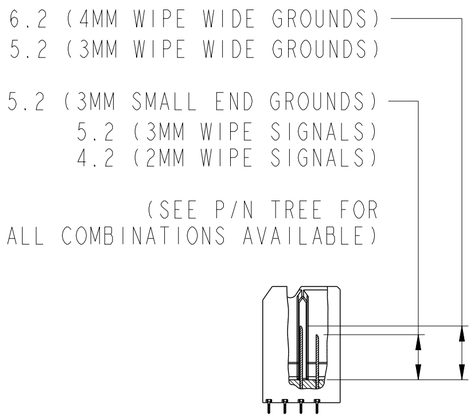
Creo File - REV E - 2016-02-12

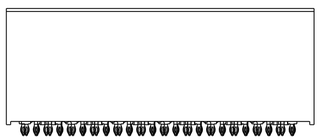
PDS: Rev :G STATUS: Released Printed: Jun 15, 2016

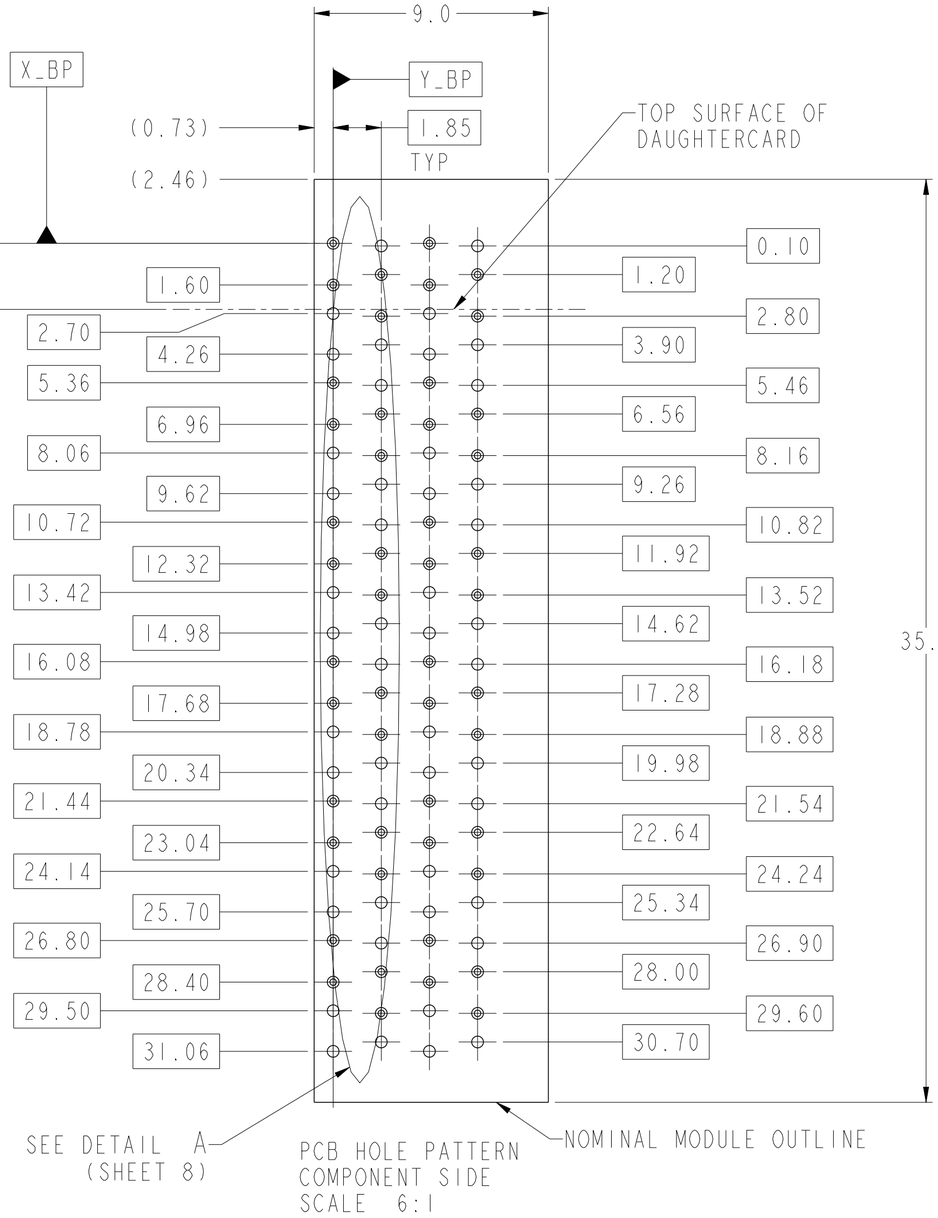
RIGHT WALL MODULE

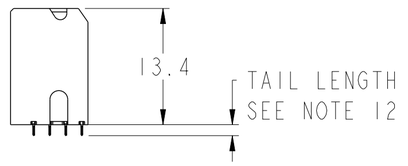








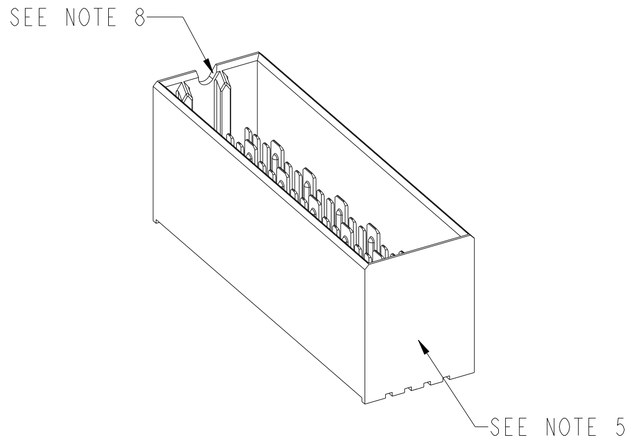


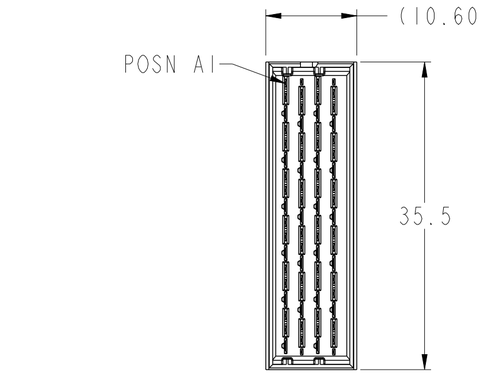


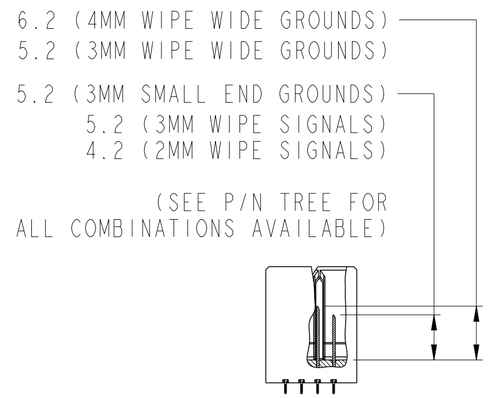
spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	projection	MM	size A2 / scale 4:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/03			ecn no ELX-DG-24191-1
				chr	Heaven Cen	2016/06/08			
				appr	Pei-Ming Zheng	2016/06/15	product family -		rel level Released
surface - ASME Y14.5	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						
	angular	0°	±°		cat. no. SEE P/N TREE	Product - Customer Drw			sheet 6 of 8

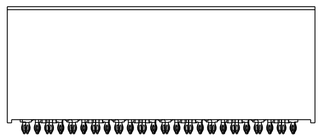
© 2016 AFCI

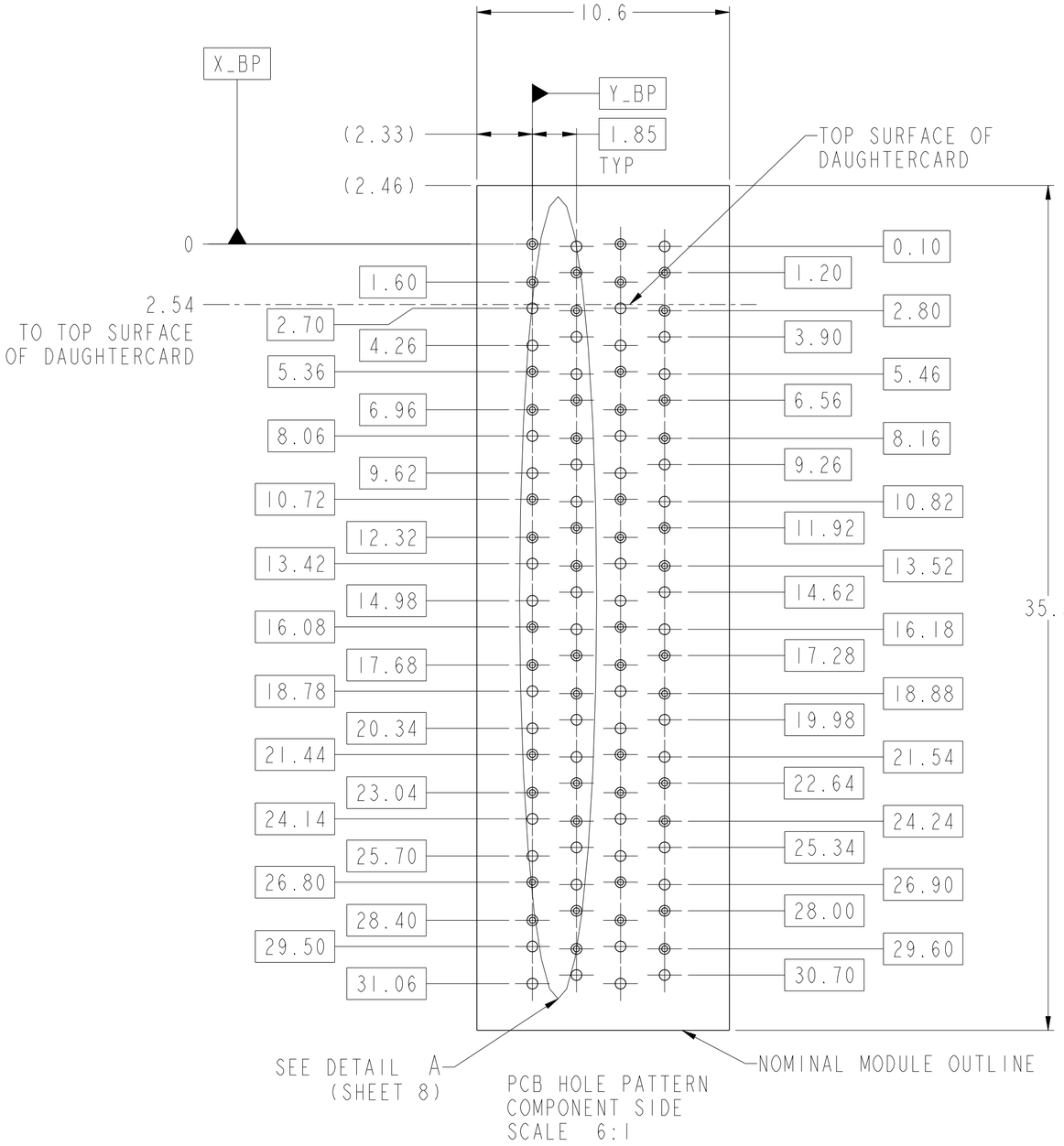
FOUR WALL MODULE

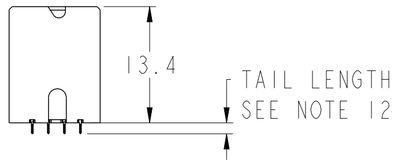












spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	projection	MM	size A2 / scale 3:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/03			
				chr	Heaven Cen	2016/06/08			ecn no ELX-DG-24191-1
				appr	Pei-Ming Zheng	2016/06/15	product family -		rel level Released
surface - ASME Y14.5	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						
	angular	0°	± °		cat. no. SEE P/N TREE	Product - Customer Drw			sheet 7 of 8

© 2016 AFCI

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.

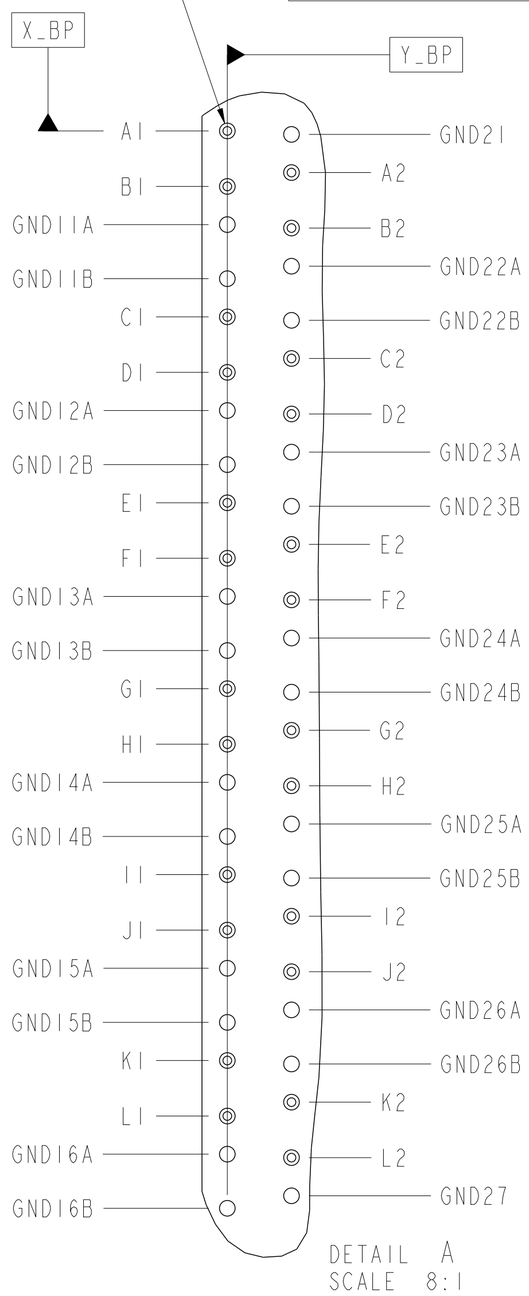
(11.) OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.

(12.) TAIL LENGTH=1.3mm FOR ∅0.55[0.0217"]COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR ∅0.45[0.0177"]COMPLIANT PIN DRILL

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

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

⌖ | 0.10 | X_BP | Y_BP



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: ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng: Michael Song 2016/06/03			ecn no: ELX-DG-24191-1	
		chr: Heaven Cen 2016/06/08				
		appr: Pei-Ming Zheng 2016/06/15	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, 4-COLUMN, 6-PAIR		dwg no: 10114508	rev: G
	angular: 0° ±°		cat. no.: SEE P/N TREE	Product - Customer Drw		sheet 8 of 8

© 2016 AFCI

Mouser Electronics

Authorized Distributor

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

FCI / Amphenol:

10114508-00J-10B 10114508-00J-10DLF 10114508-00J-20B 10114508-00J-20DLF 10114508-00J-30B 10114508-00J-30DLF 10114508-00J-40B 10114508-00J-40DLF 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-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 10114508-C0J-10B 10114508-C0J-10DLF 10114508-C0J-20B 10114508-C0J-20DLF 10114508-C0J-30B 10114508-C0J-30DLF 10114508-C0J-40B 10114508-C0J-40DLF 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-10DLF 10114508-D0J-20B 10114508-D0J-20DLF 10114508-D0J-30B 10114508-D0J-30DLF 10114508-D0J-40B 10114508-D0J-40DLF 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-10DLF 10114508-E0J-20B 10114508-E0J-20DLF