

1 0 0 9 1 7 7 7 - X 0 E - X X X L F

8-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

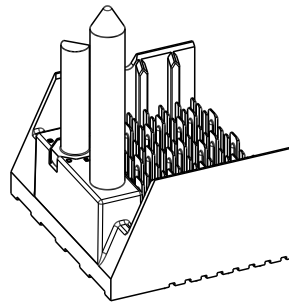
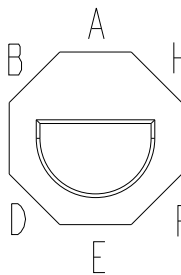
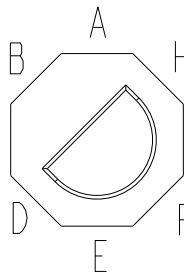
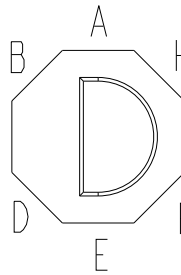
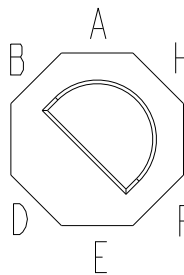
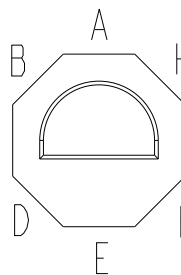
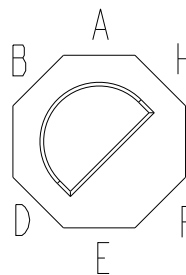
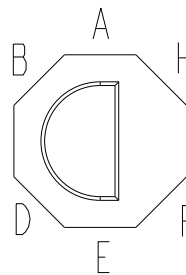
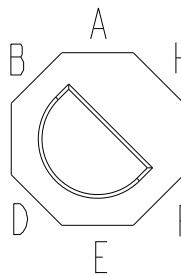
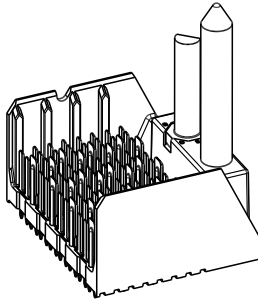
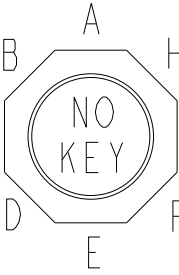
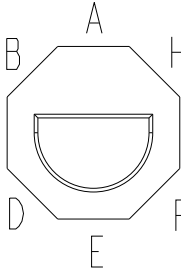
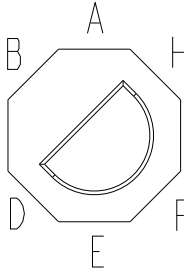
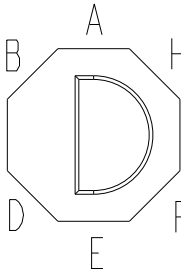
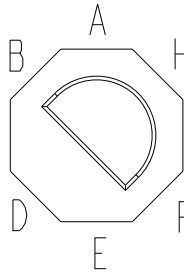
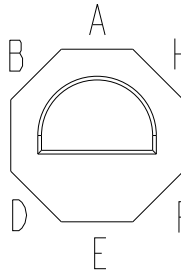
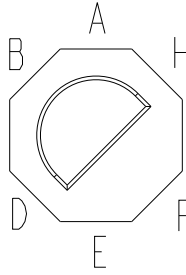
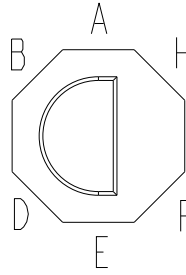
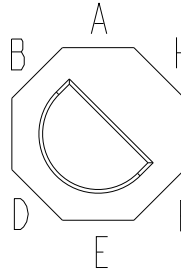
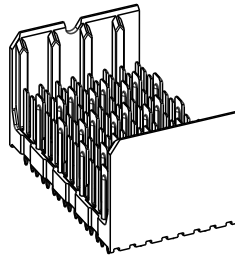
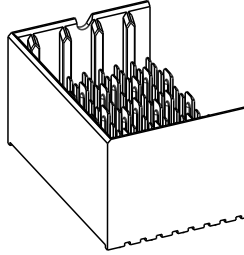
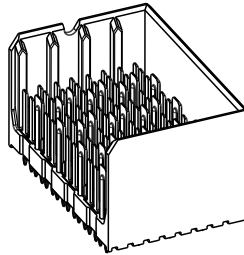
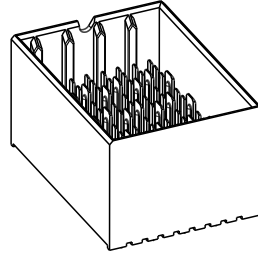
PIN STYLE, HEIGHT

0

STANDARD GUIDE PIN MACHINED, 31.6mm

4

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

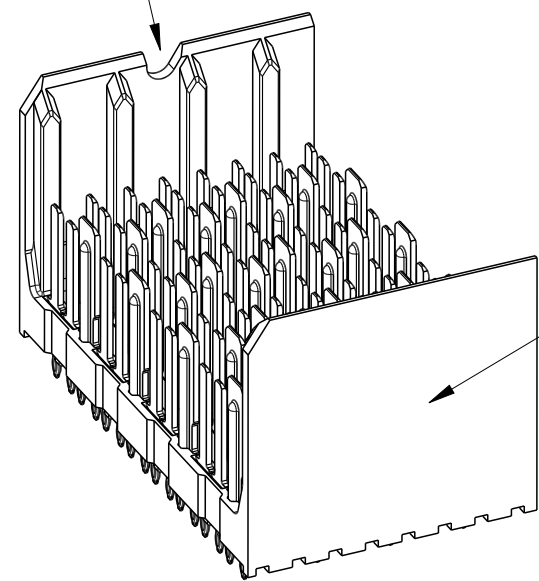
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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

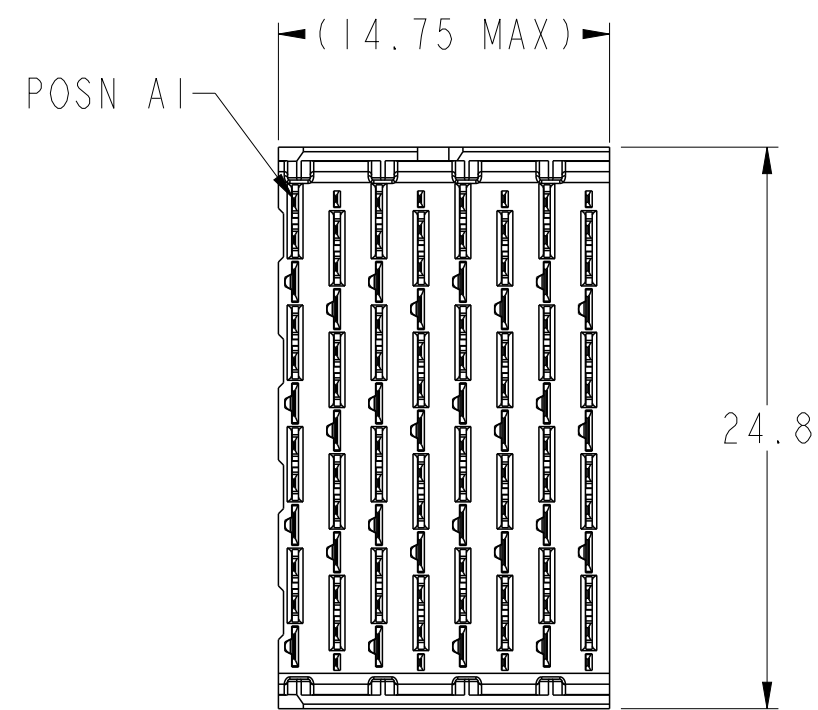
spec ref		SEE NOTES				dr		Jim Swain		2009/07/08		projection				size		A2		scale		4:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED				eng		Michael Song		2016/06/01						ecn no		ELX-DG-24191-1							
ASME Y14.5						chr		Heaven Cen		2016/06/08						rel level		Released							
						appr		Pei-Ming Zheng		2016/06/15						product family		-							
surface		linear		0.X		±0.2				title		MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 4-PAIR						dwg no		10091777		rev		G	
		0.XX		±0.10																					
ASME Y14.5		0.XXX		±0.050																					
		angular		0°		±°		cat. no.		-		Product - Customer Drw						sheet 1 of 8							

OPEN (2-WALL) MODULE

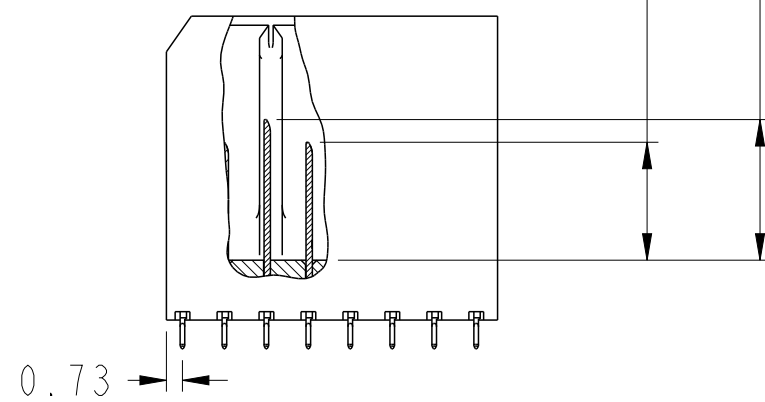
SEE NOTE 8



SEE NOTE 5

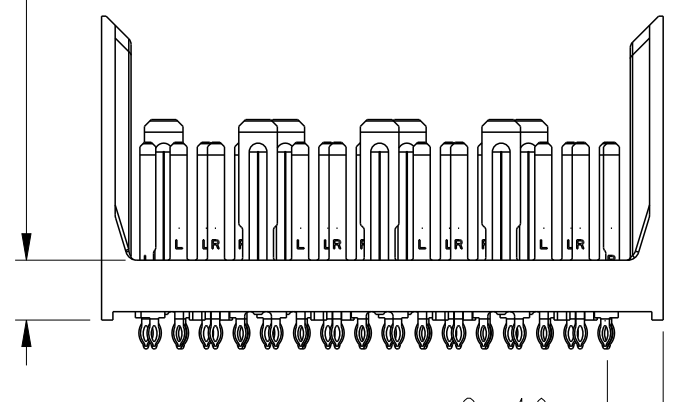


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

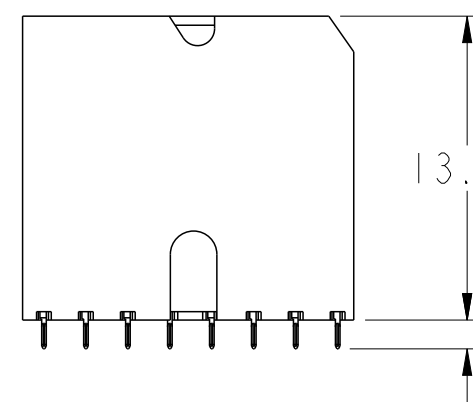


0.73

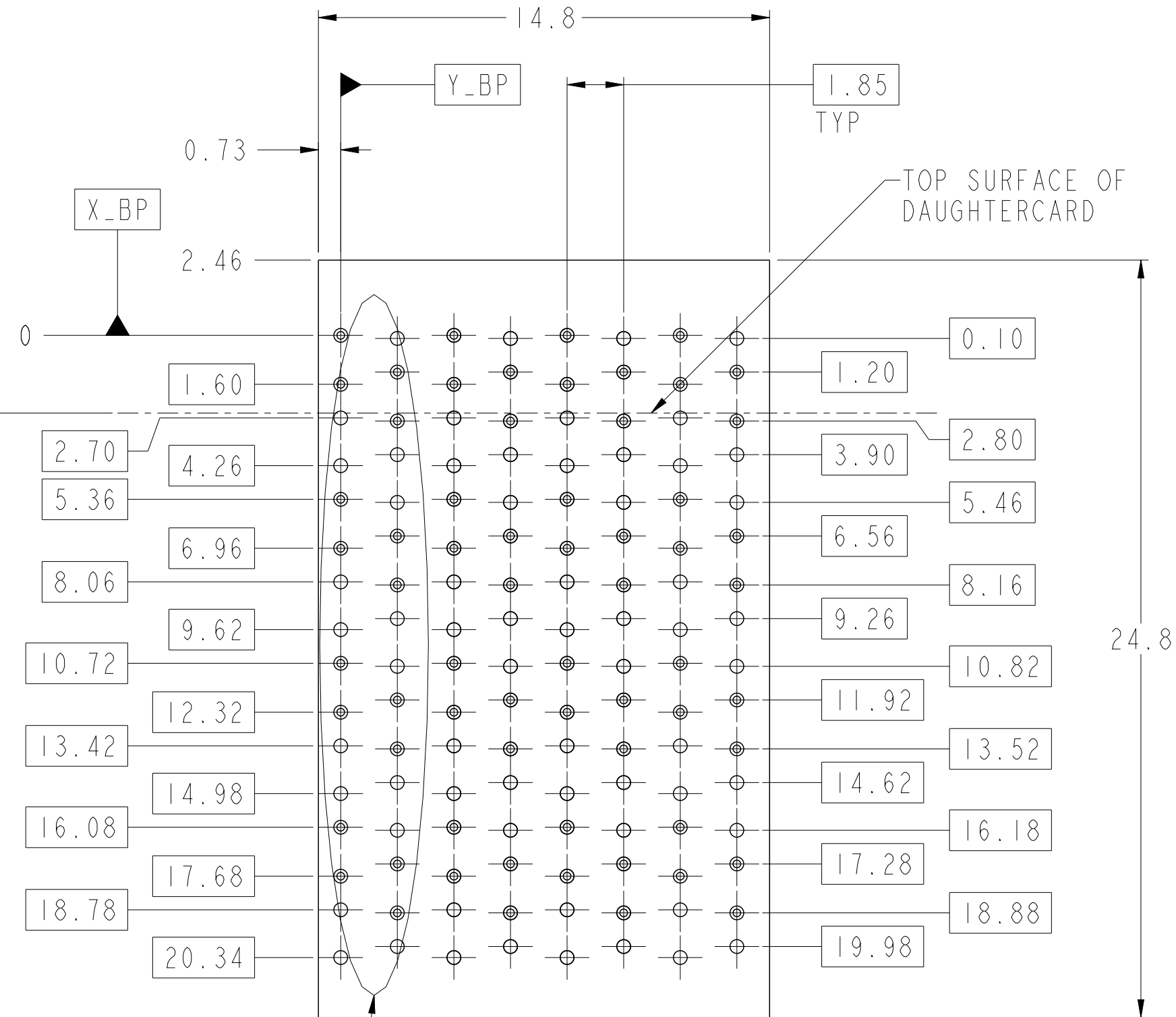
2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



2.46



TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

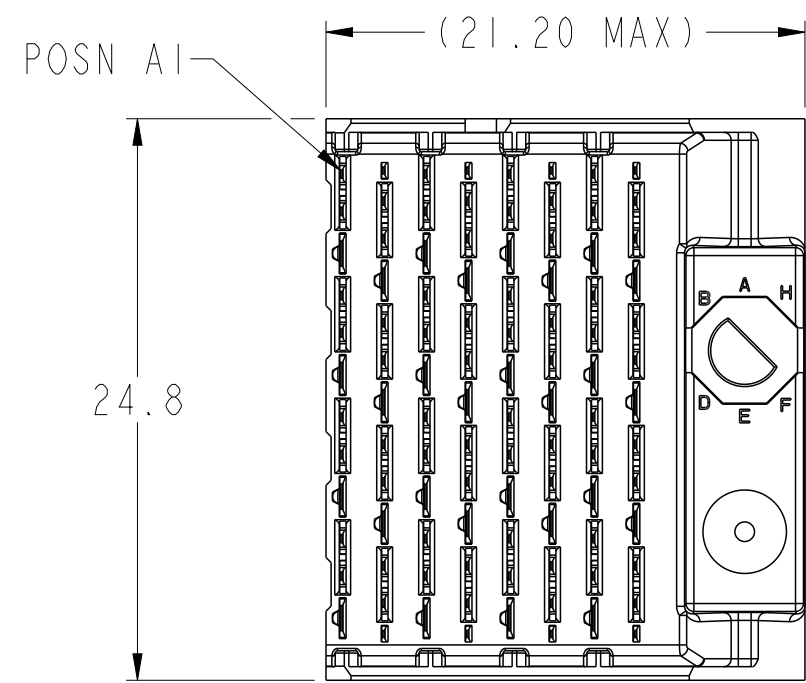
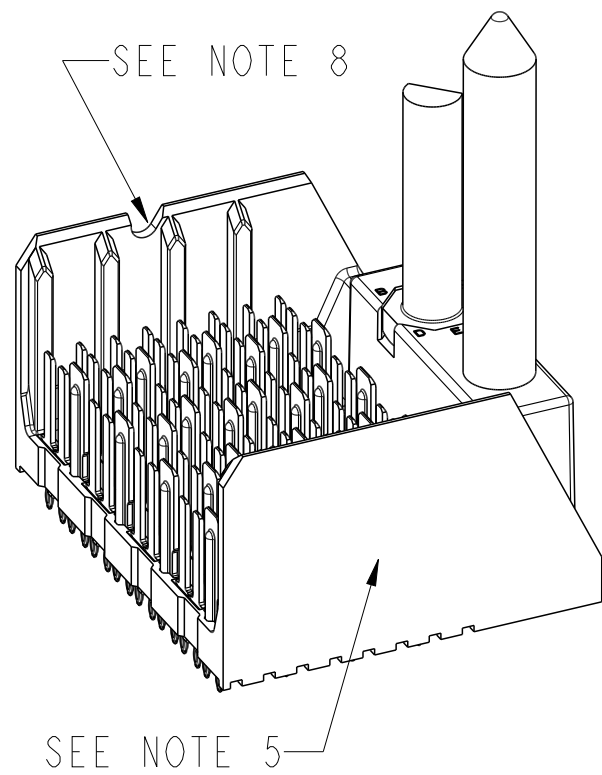
spec ref	SEE NOTES	dr	Jim Swain	2009/07/08	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/01	chr	Heaven Cen	ecm no	ELX-DG-24191-1	rel level	Released
ASME Y14.5		appr	Pei-Ming Zheng	2016/06/15	product family	-	cat. no.	-	Product - Customer Drw	sheet 2 of 8
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, 4-PAIR	dwg no	10091777	rev	G		

PDS: Rev :G

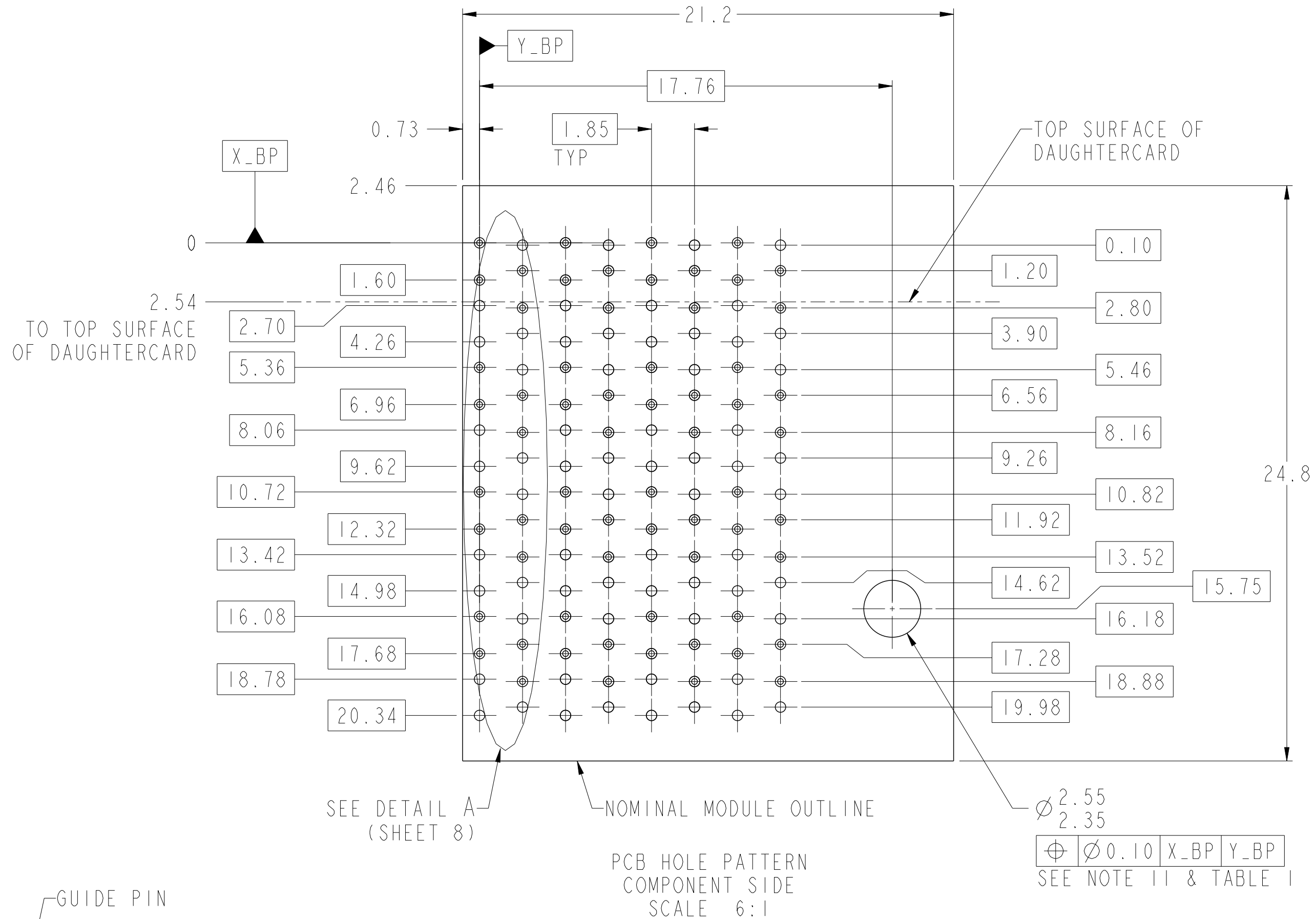
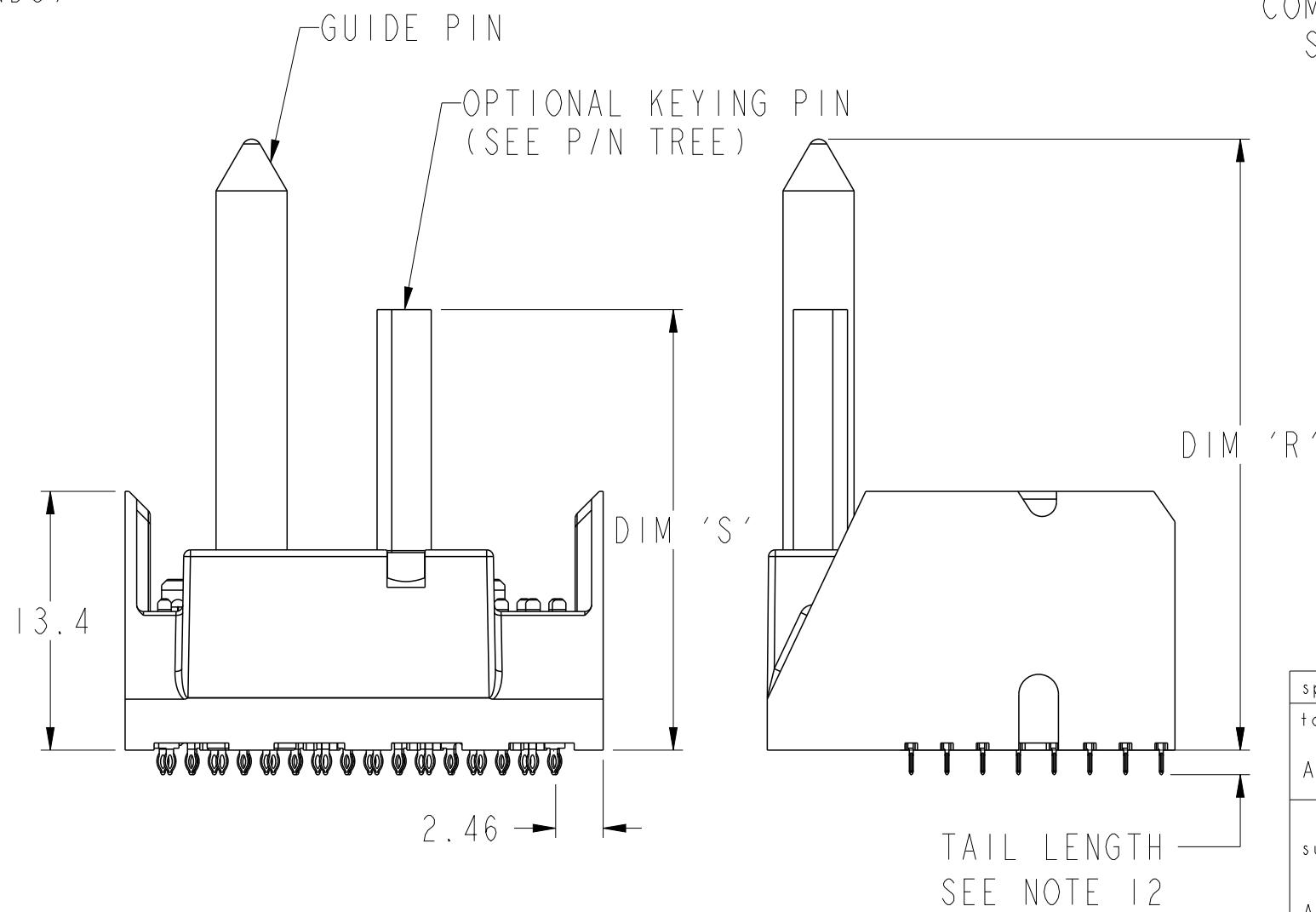
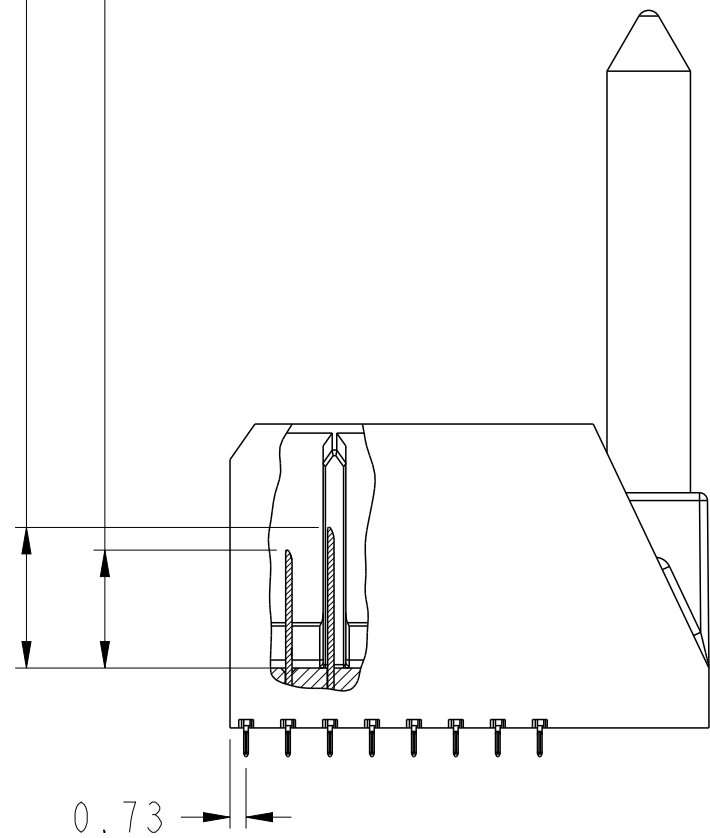
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Printed: Jun 15, 2016

RIGHT POLARIZING/GUIDE MODULE

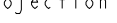


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)
- SEE P/N TREE



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

spec ref	SEE NOTES		dr	Jim Swain	2009/07/08	projection		MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/01				ecn no	ELX-DG-24191-1		
ASME Y14.5			chr	Heaven Cen	2016/06/08	product family	XCede	rel level	Released			
	appr	Pei-Ming Zheng	2016/06/15									
surface	linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY	dwg no	10091777	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 4 of 8					

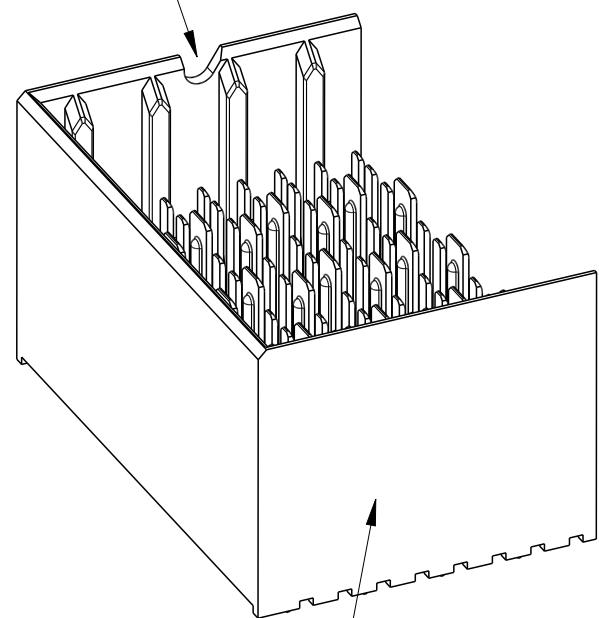
PDS: Rev :G

STATUS:Released

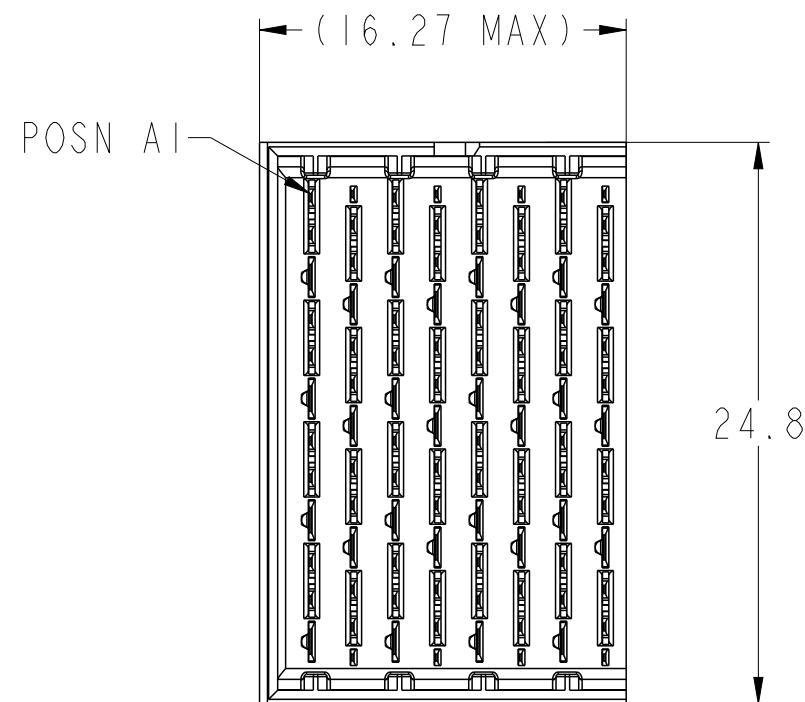
Printed: Jun 15, 2016

LEFT WALL MODULE

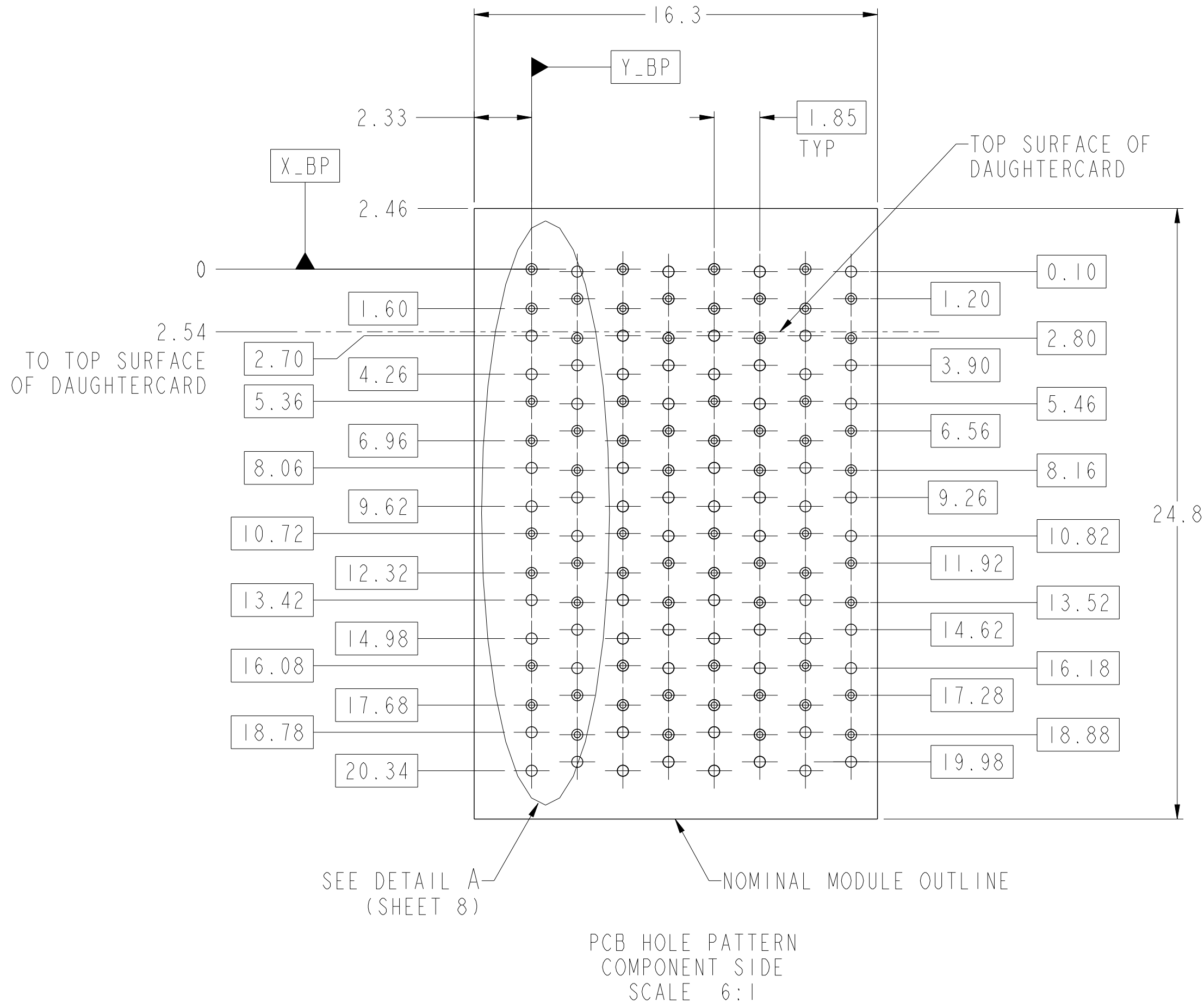
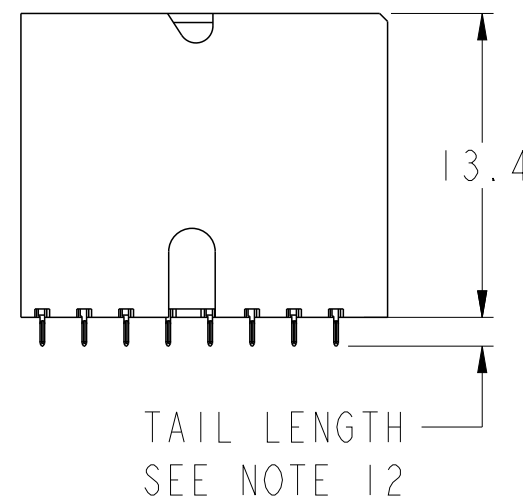
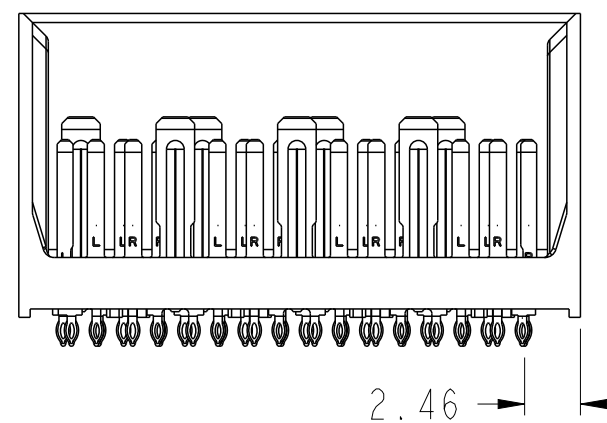
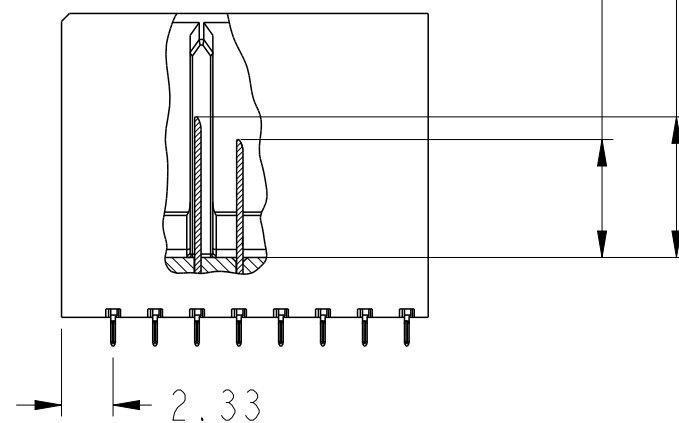
SEE NOTE 8



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



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES			dr	Jim Swain	2009/07/08			size	A2	scale	3:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/01			ecn no	ELX-DG-24191-1				
ASME Y14.5				chr	Heaven Cen	2016/06/08								
				appr	Pei-Ming Zheng	2016/06/15	product family		XCede					
surface		linear	0.X	±0.2	Amphenol FCi	title	MODULE ASSEMBLY			dwg no	10091777		rev	G
			0.XX	±0.10										
ASME Y14.5		0.XXX	±0.050				VERTICAL HEADER, 8-COLUMN, 4-PAIR							
	angular	0°	±°		cat. no.	SEE P/N TREE	Product - Customer Drw					sheet 5 of 8		

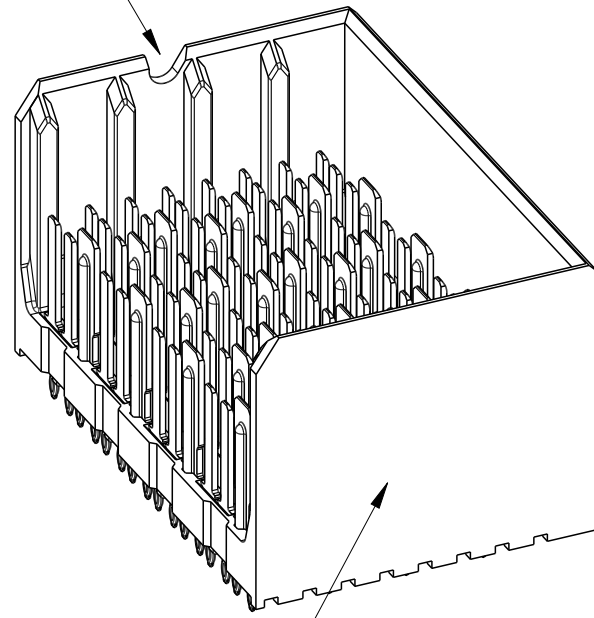
PDS: Rev :G

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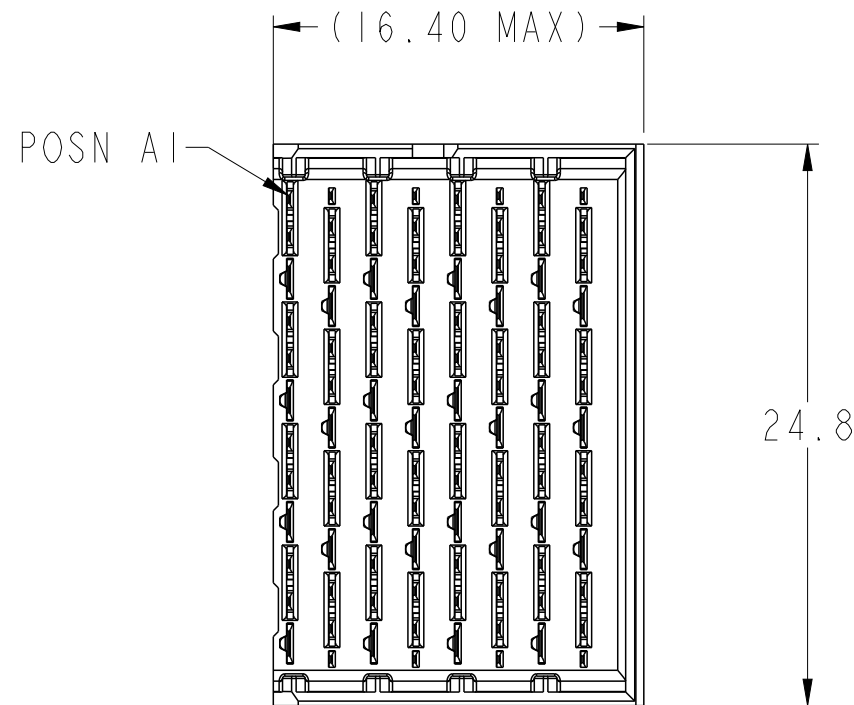
Printed: Jun 15, 2016

RIGHT WALL MODULE

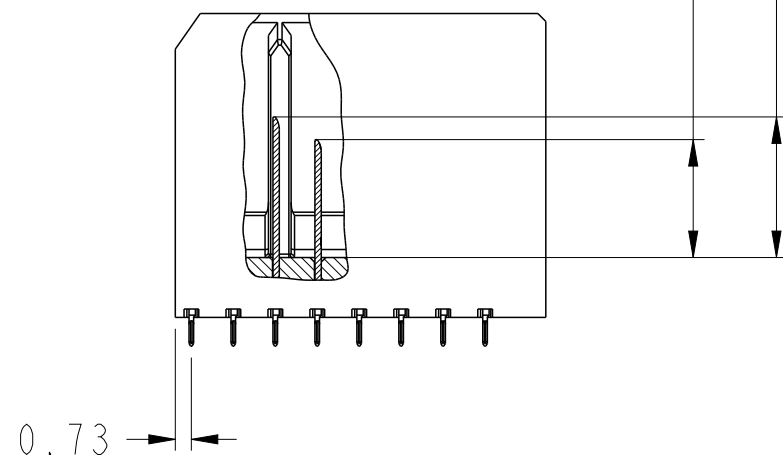
SEE NOTE 8



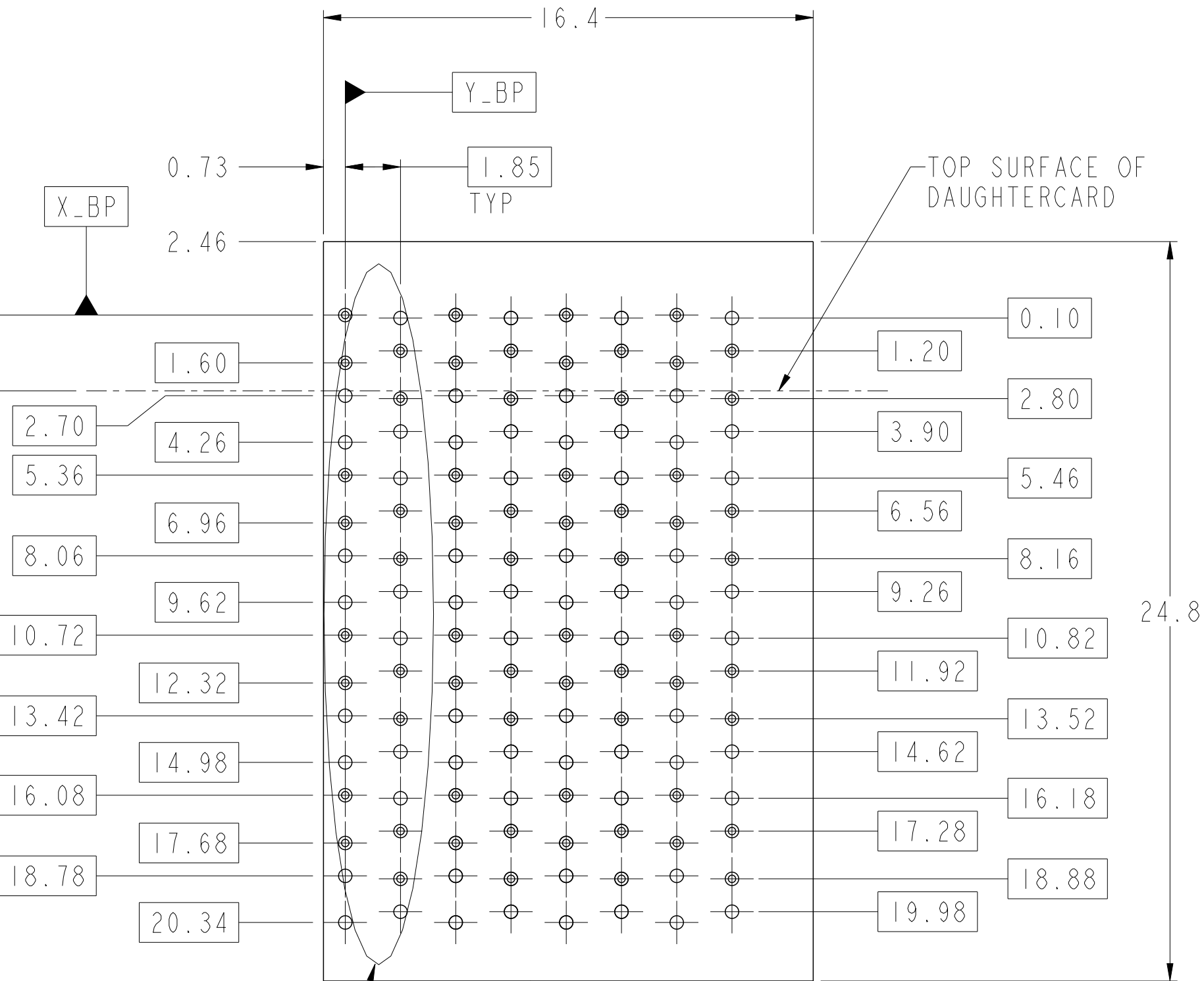
SEE NOTE 5



- 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



2.54
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

TAIL LENGTH
SEE NOTE 12

spec ref	SEE NOTES		dr	Jim Swain	2009/07/08			size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/01			ecn no	ELX-DG-24191-1		
ASME Y14.5			chr	Heaven Cen	2016/06/08	product family		XCode			
			appr	Pei-Ming Zheng	2016/06/15			rel level	Released		
surface		linear		title	MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 4-PAIR		dwg no	10091777		rev	G
		0.X ±0.2									
ASME Y14.5	0.XXX ±0.050	0° ±0°									
		angular		cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 6 of 8		

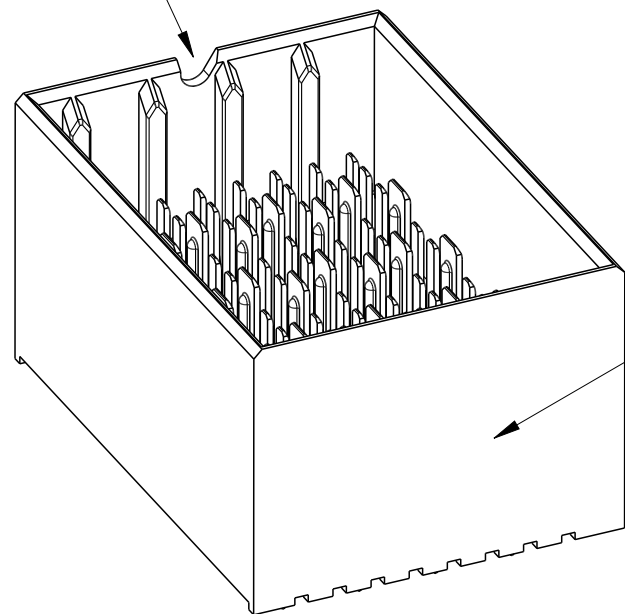
PDS: Rev :G

STATUS:Released

Printed: Jun 15, 2016

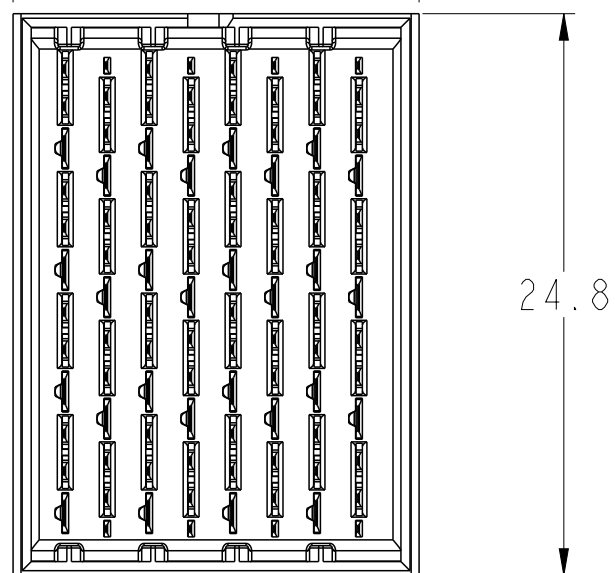
FOUR WALL MODULE

SEE NOTE 8



SEE NOTE 5

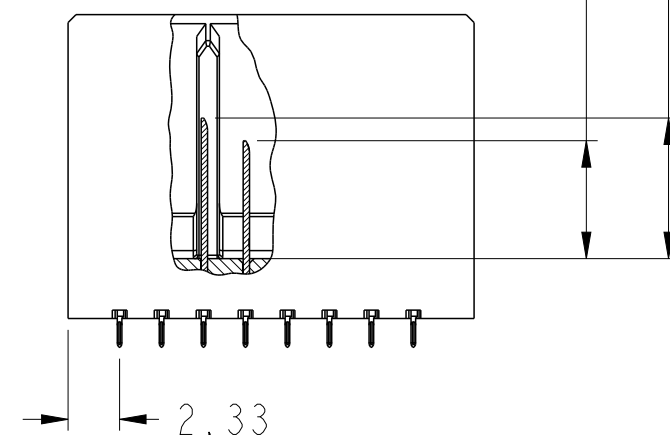
(17.90 MAX)



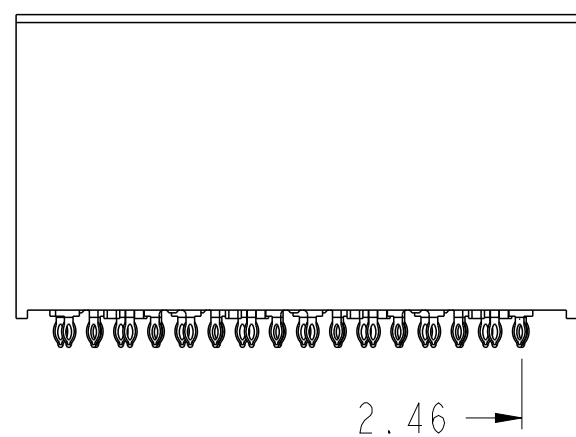
24.8

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

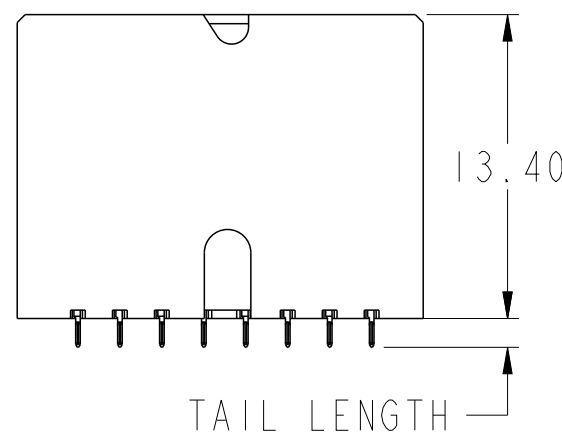
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE



2.33

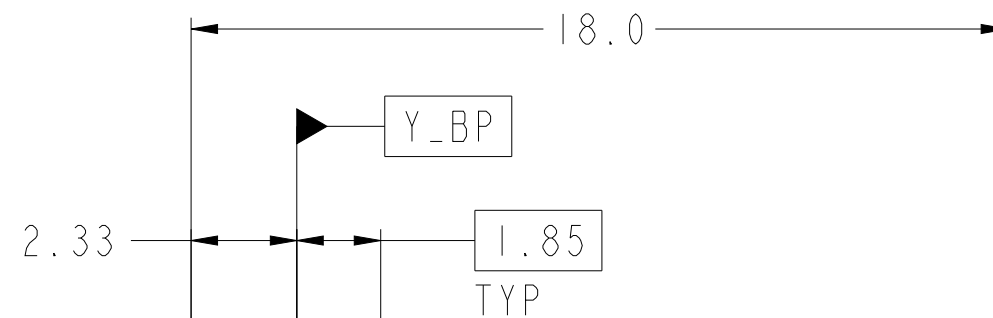


2.46



13.40

TAIL LENGTH
SEE NOTE 12



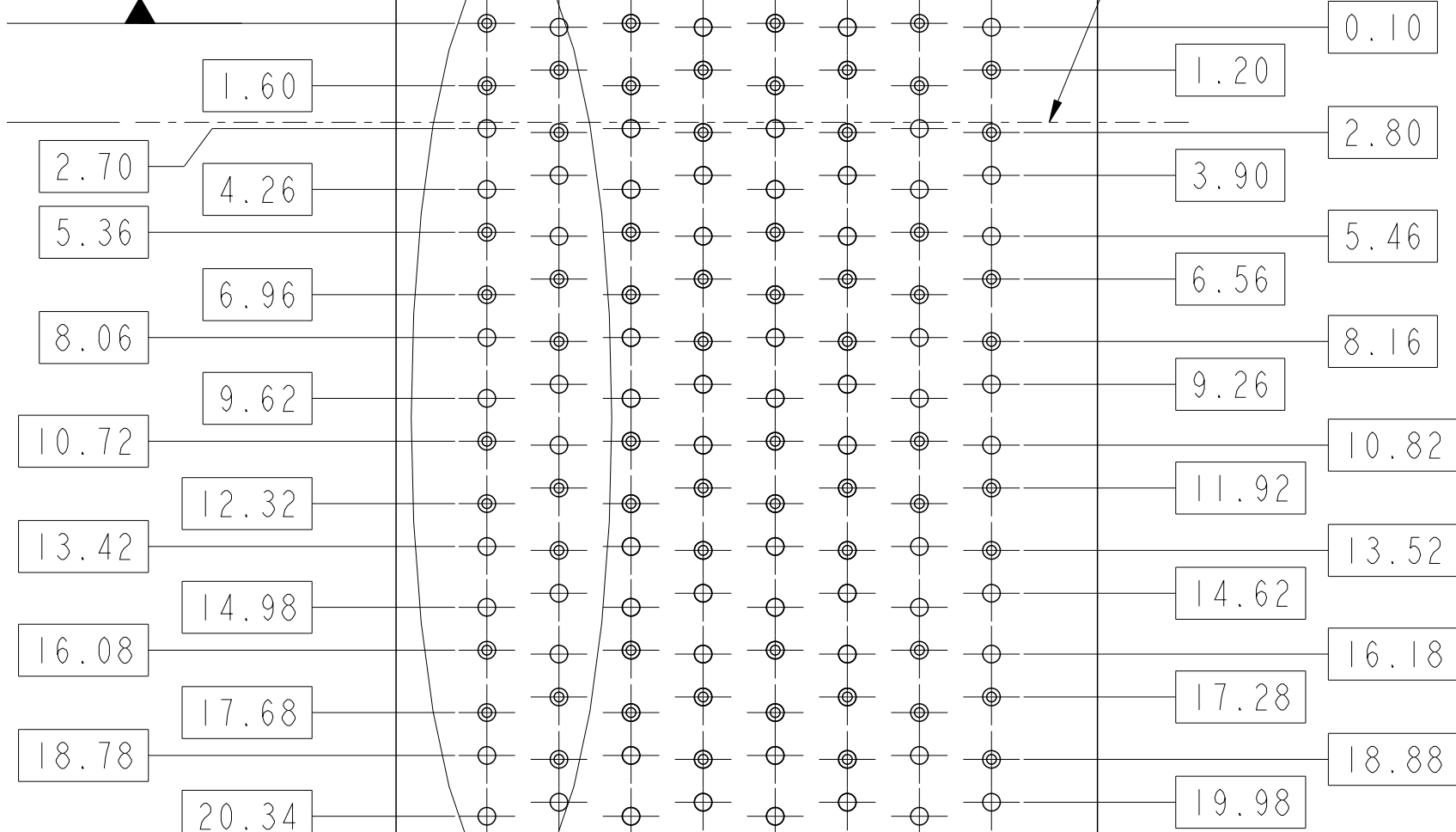
Y_BP

1.85
TYP

2.33

X_BP

2.54
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES			dr	Jim Swain	2009/07/08	projection 	MM 	size	A2	scale	6:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/01			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				dwg no	10091777	rev	G
		0.XX	±0.10										
		0.XXX	±0.050										
ASME Y14.5	angular	0°	±°		cat. no.	-	Product - Customer Drw				sheet 7 of 8		

PDS: Rev :G

STATUS:Released

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Amphenol FCI

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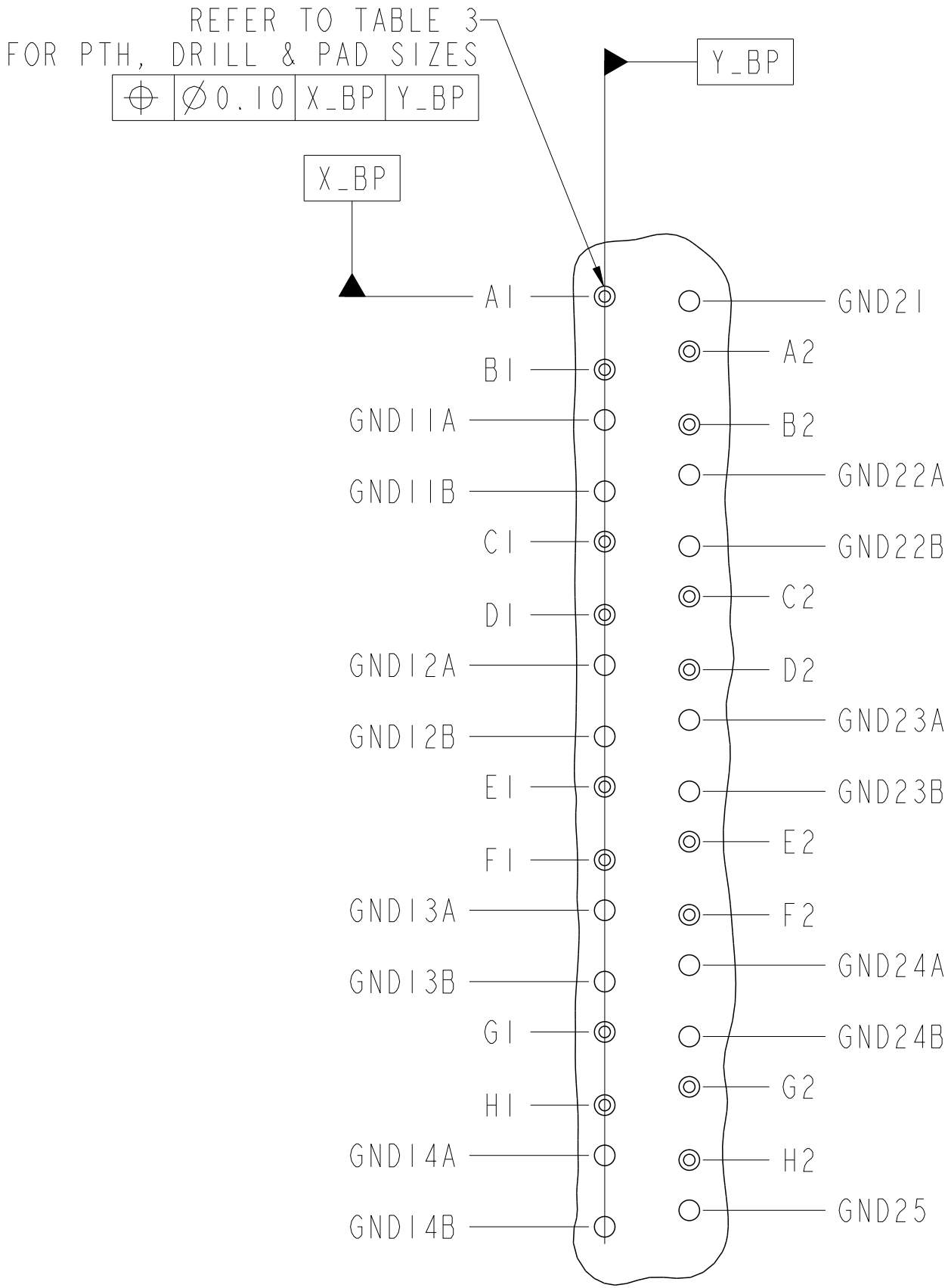
NOTES:

- 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 THE 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 (LF), OR TIN-LEAD ALLOY OVER NICKEL (NON-LF). 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

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	Jim Swain	2009/07/08	projection		size A2	scale 4:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/01							
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, 8-COLUMN, 4-PAIR				dwg no	10091777		rev G
		0.XX	±0.10										
	ASME Y14.5	0.XXX	±0.050										
	angular	0°	±°										

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[10091777-00E-10B](#) [10091777-00E-20B](#) [10091777-00E-20DLF](#) [10091777-00E-30B](#) [10091777-00E-30DLF](#) [10091777-](#)
[00E-40B](#) [10091777-00E-40DLF](#) [10091777-00E-50B](#) [10091777-00E-50DLF](#) [10091777-00E-60B](#) [10091777-00E-](#)
[60DLF](#) [10091777-00E-70B](#) [10091777-00E-70DLF](#) [10091777-00E-80B](#) [10091777-00E-80DLF](#) [10091777-10E-10B](#)
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[10E-40DLF](#) [10091777-10E-50B](#) [10091777-10E-50DLF](#) [10091777-10E-60B](#) [10091777-10E-60DLF](#) [10091777-10E-](#)
[70B](#) [10091777-10E-70DLF](#) [10091777-10E-80B](#) [10091777-10E-80DLF](#) [10091777-A0E-10B](#) [10091777-A0E-10DLF](#)
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