

1

2

3

4

5

6

7

8

10091777-X0E-XXLF

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)

O (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

Jim Swain

2009/07/08

eng

Michael Song

2016/06/01

chr

Heaven Cen

2016/06/08

appr

Pei-Ming Zheng

2016/06/15

projection

MM

size

A2

scale

4:1

ecn no

ELX-DG-24191-1

rel level

Released

product family

-

cat. no.

-

Product - Customer Drw

sheet 1 of 8

Amphenol FCI

MODULE ASSEMBLY

VERTICAL HEADER, 8-COLUMN, 4-PAIR

10091777

G

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Creo File - REV E - 2016-02-12

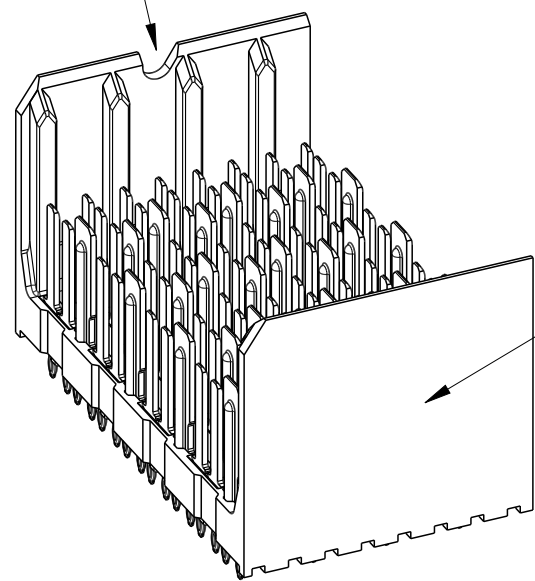
PDS: Rev :G

STATUS:Released

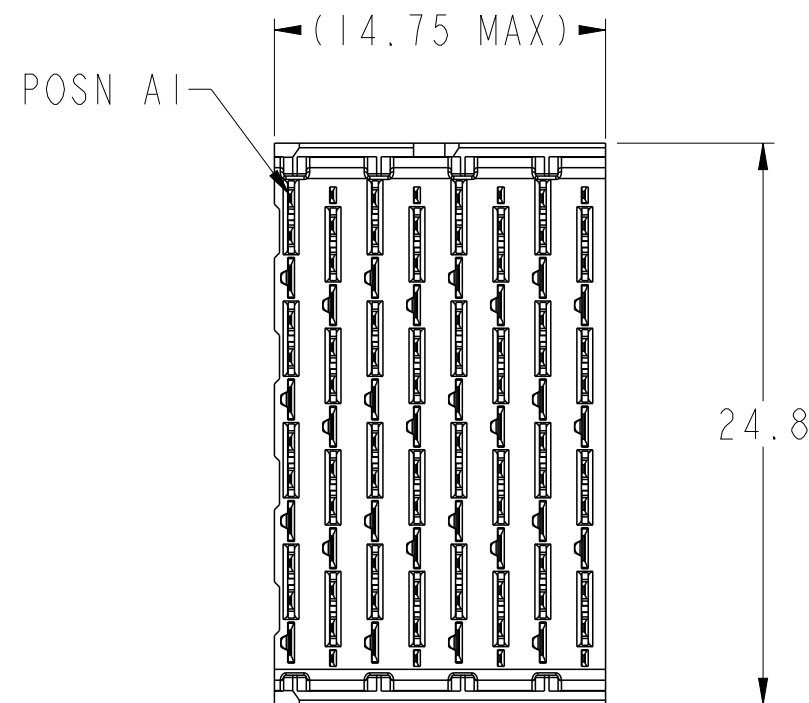
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OPEN (2-WALL) MODULE

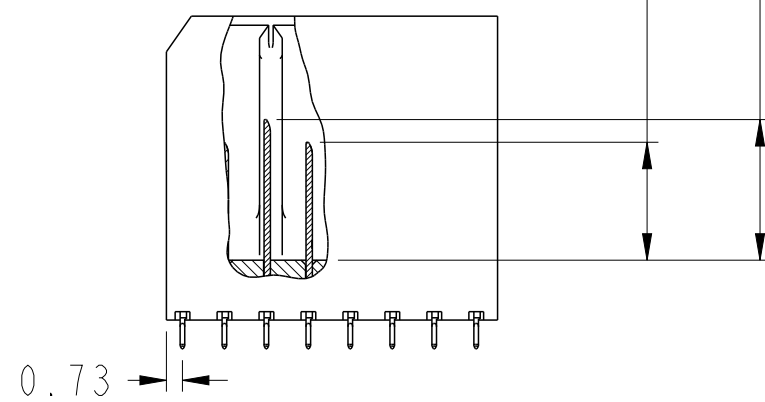
SEE NOTE 8



SEE NOTE 5

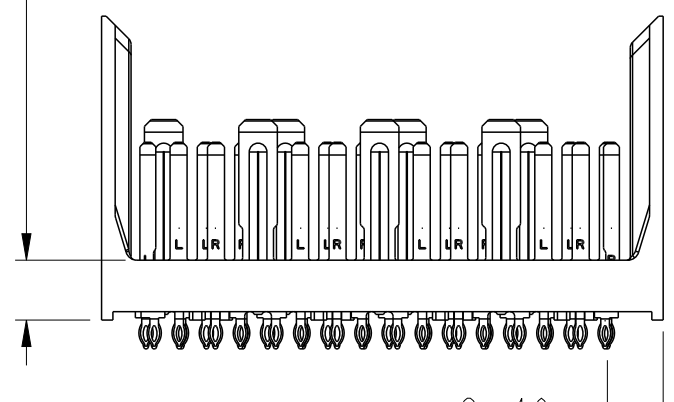


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE

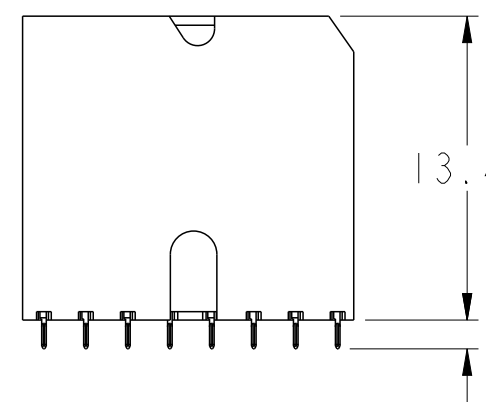


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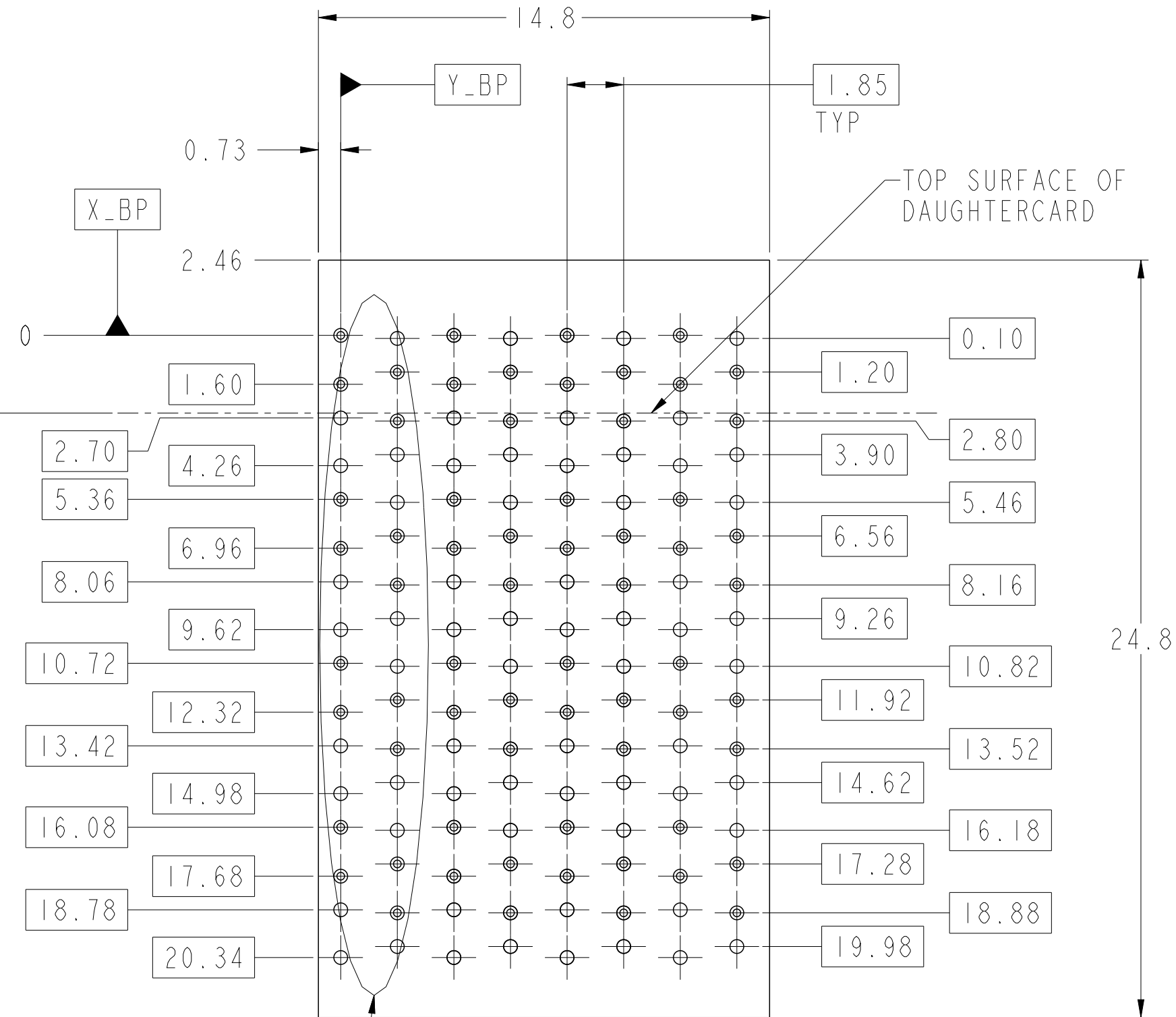
2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



2.46



TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

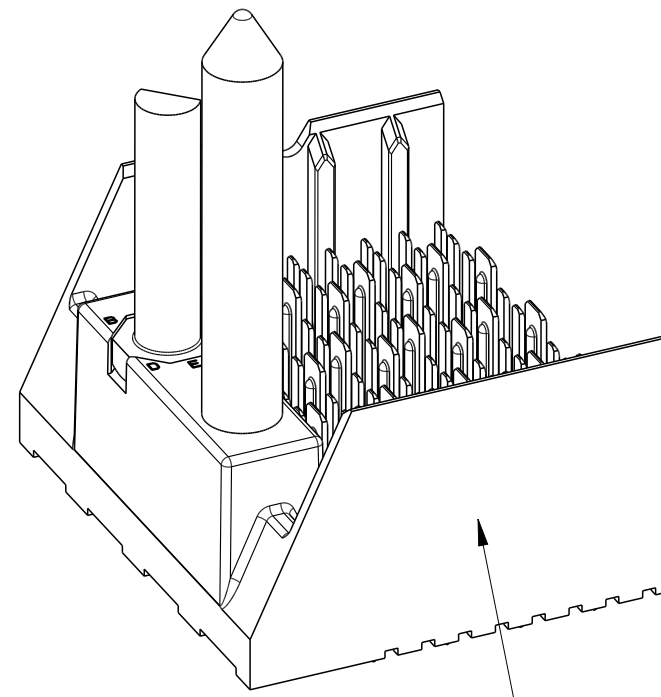
spec ref	SEE NOTES	dr	Jim Swain	2009/07/08	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Michael Song	2016/06/01	chr	Heaven Cen	ecn no	ELX-DG-24191-1	rel level	Released
surface	linear	appr	Pei-Ming Zheng	2016/06/15	product family	-	cat. no.	-	Product - Customer Drw	sheet 2 of 8
ASME Y14.5	angular	0°	±0°	±0.2	±0.10	±0.050	title	MODULE ASSEMBLY	dwg no	10091777
										rev
										G

PDS: Rev :G

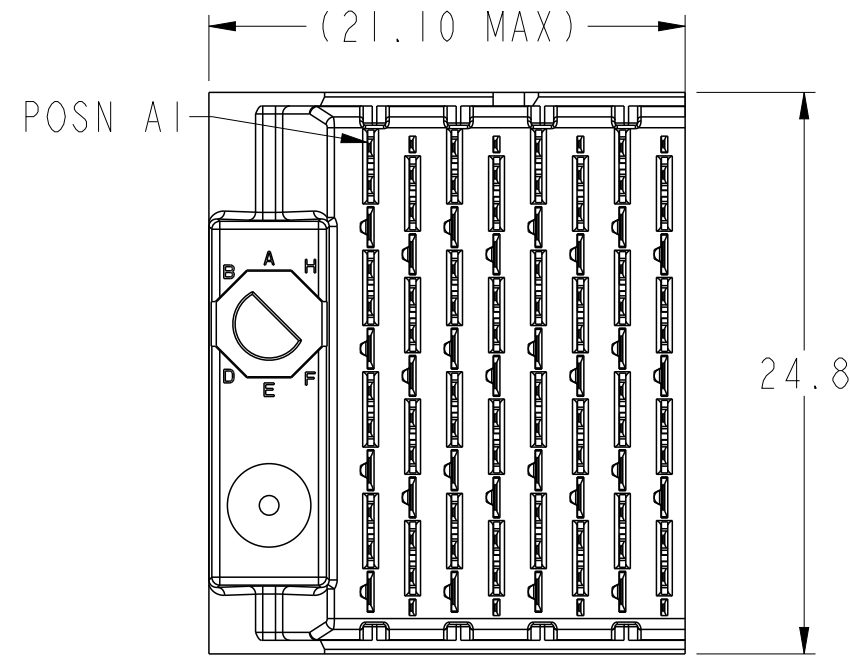
STATUS:Released

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LEFT POLARIZING/GUIDE MODULE



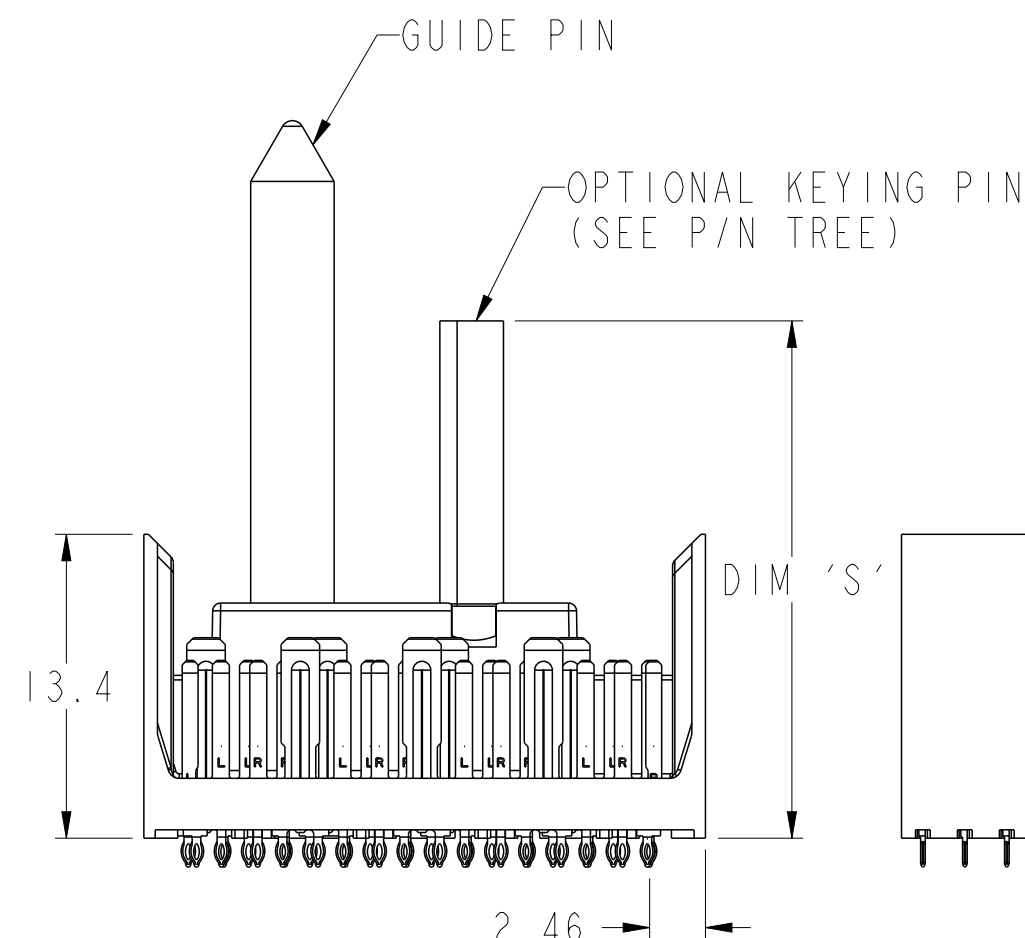
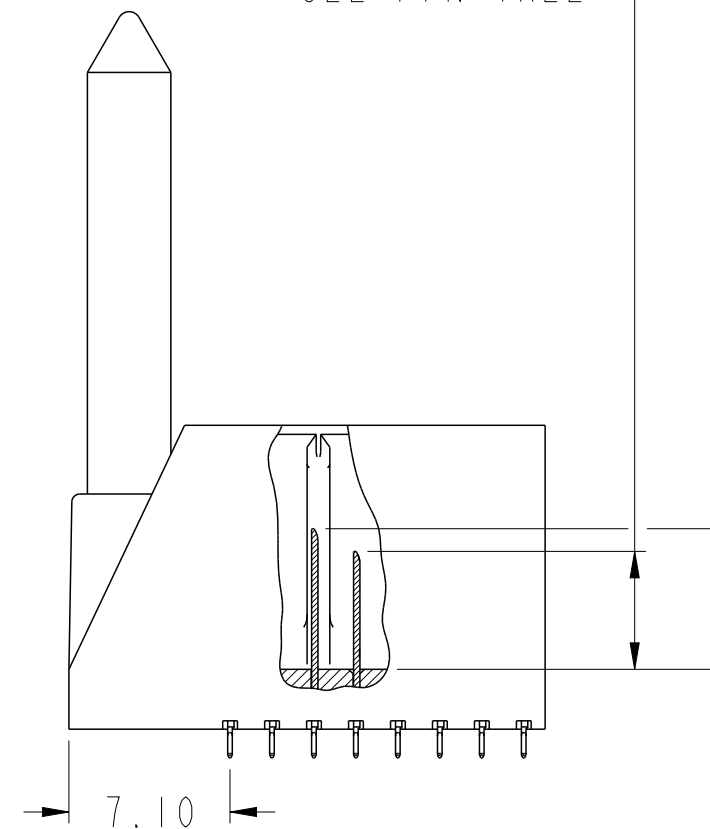
SEE NOTE 5



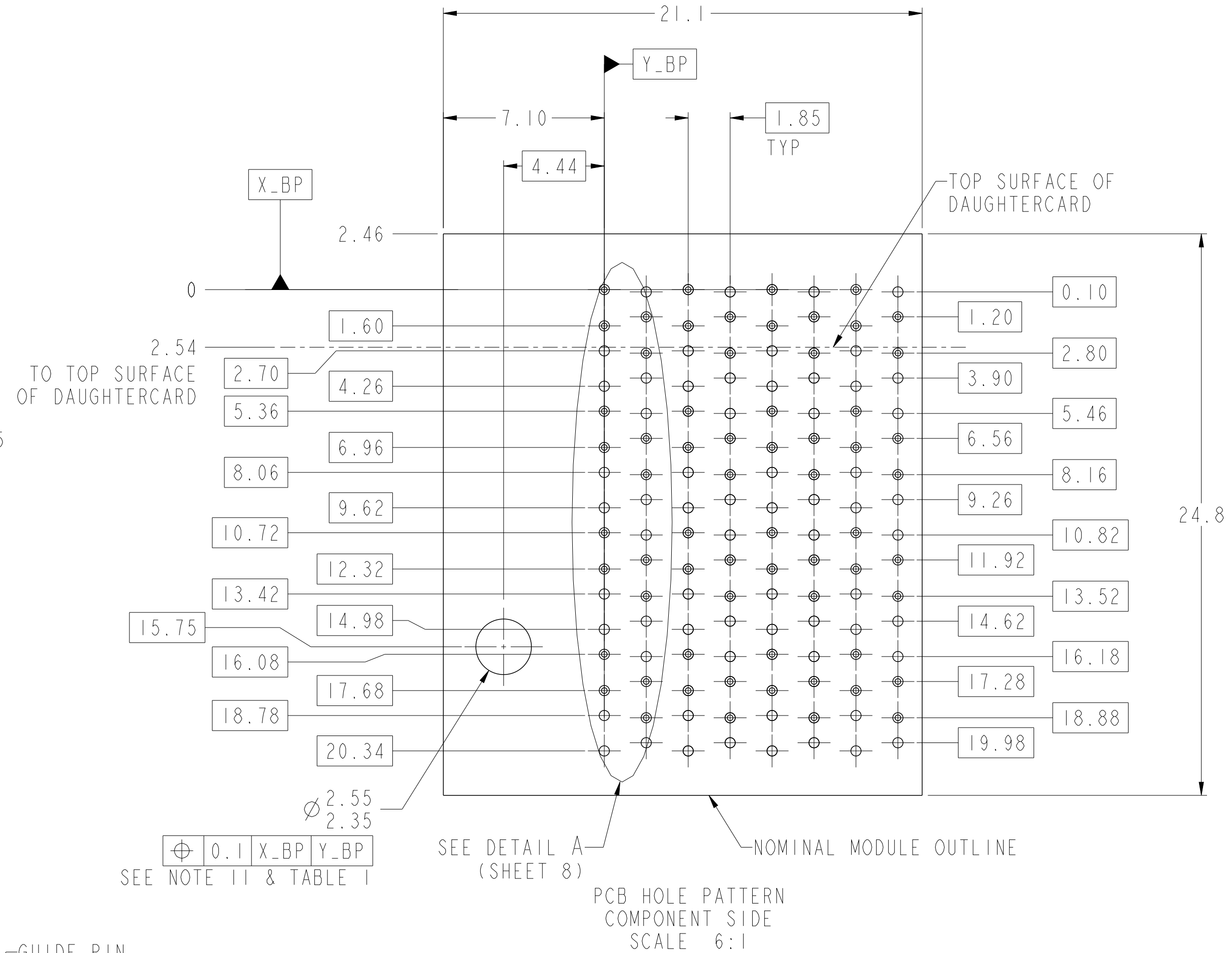
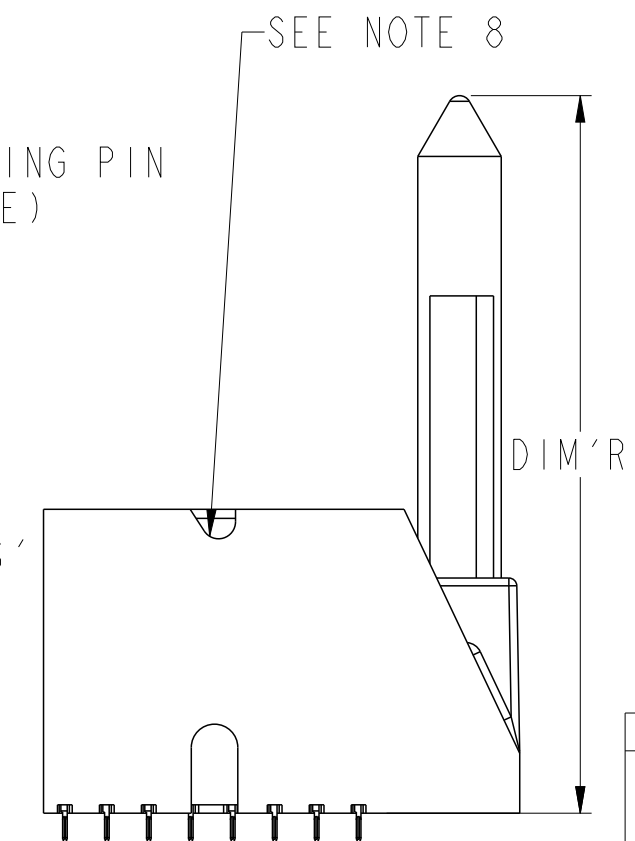
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6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
    5.2 (3MM WIPE SIGNALS)
    4.2 (2MM WIPE SIGNALS)
        SEE P/N TREE

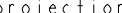
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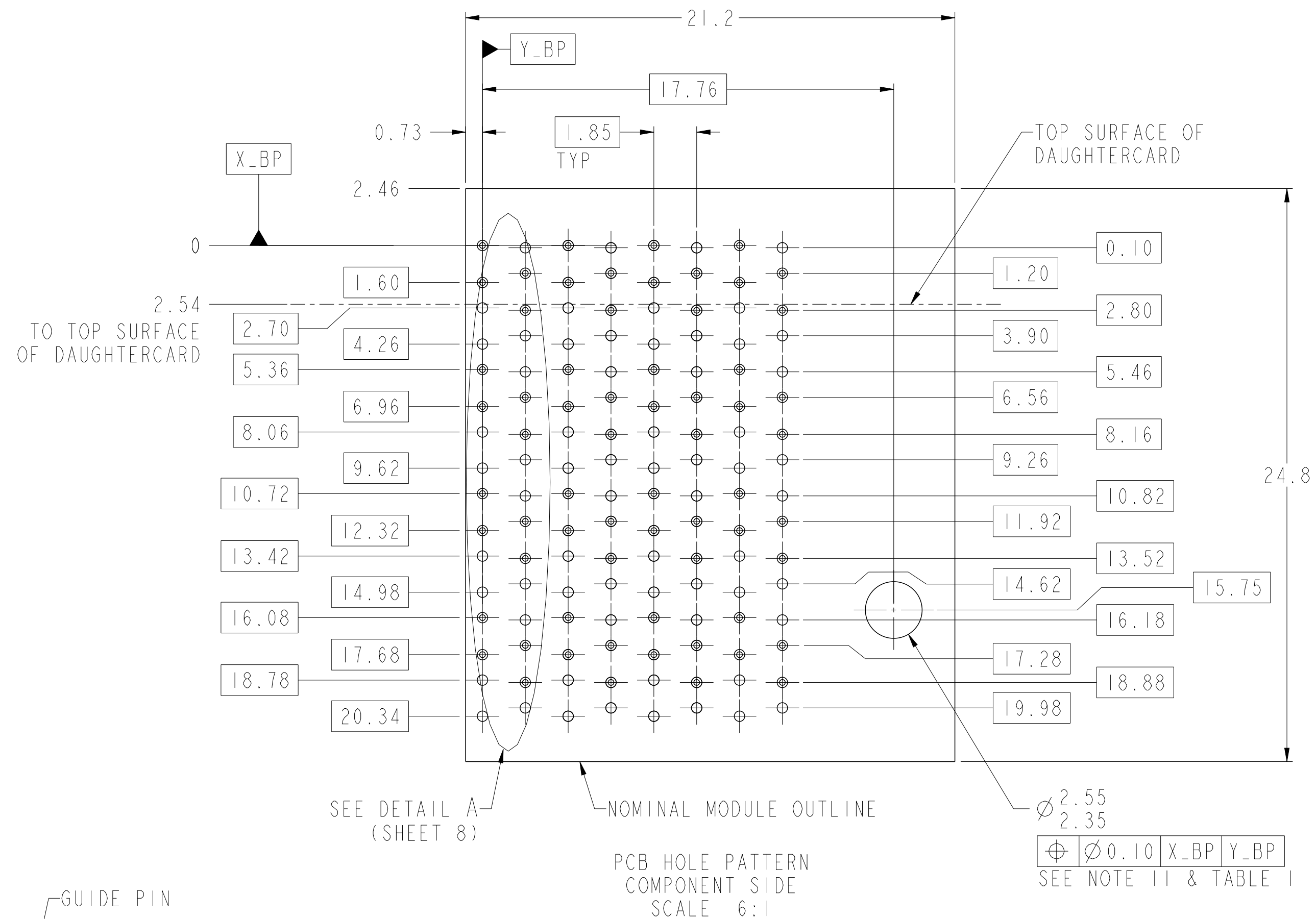
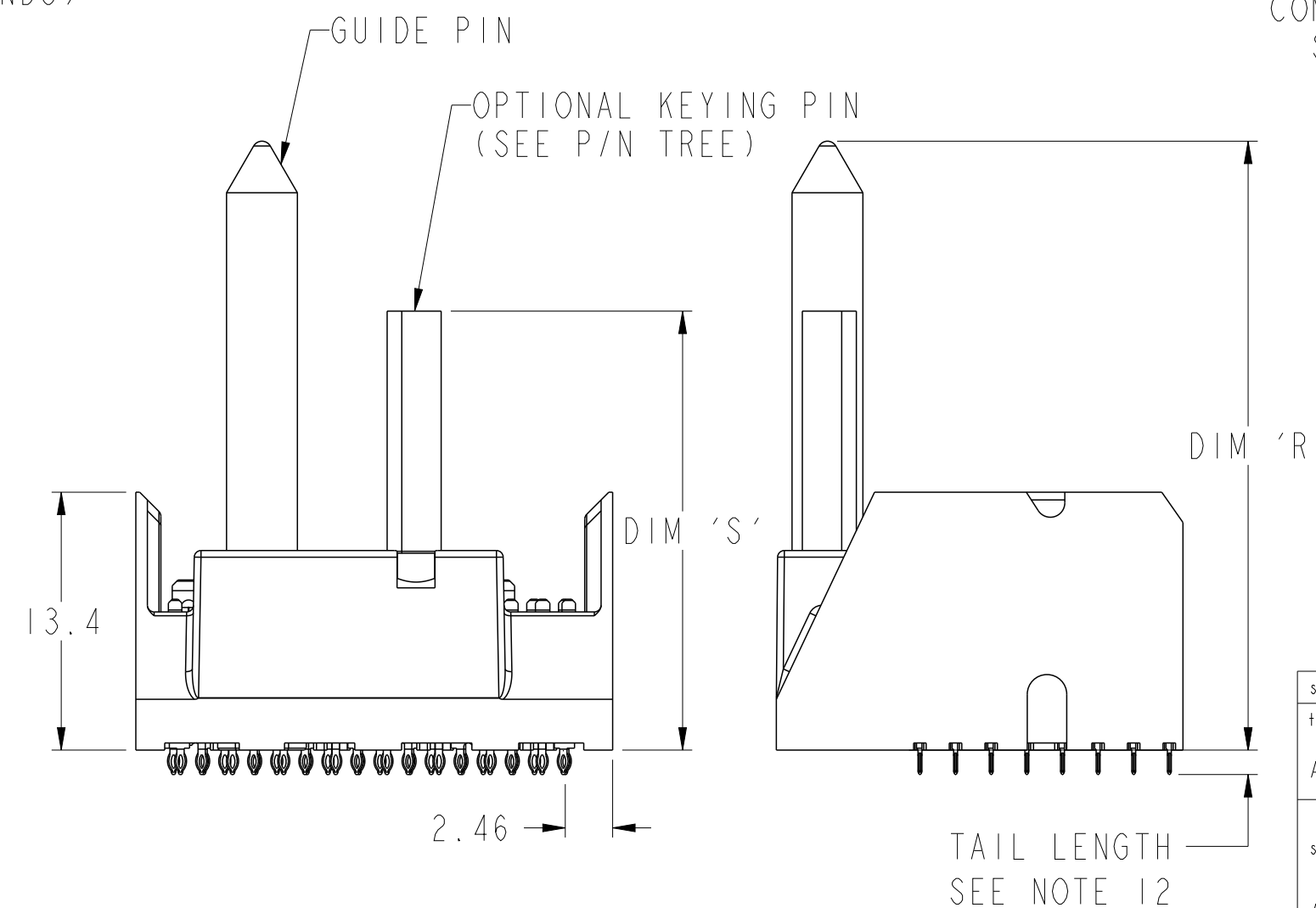
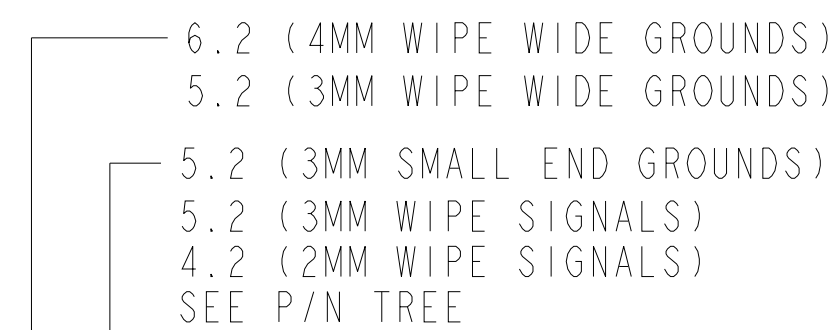
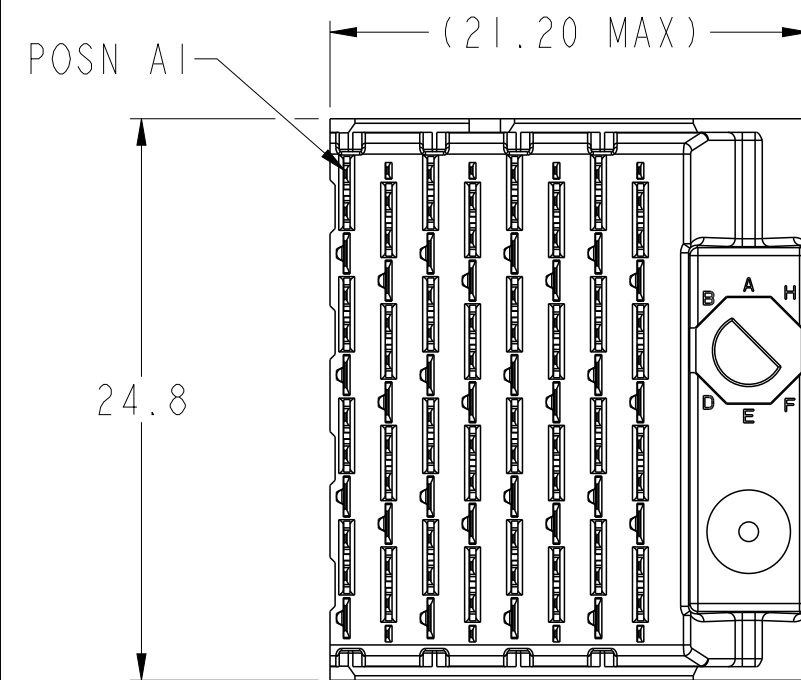
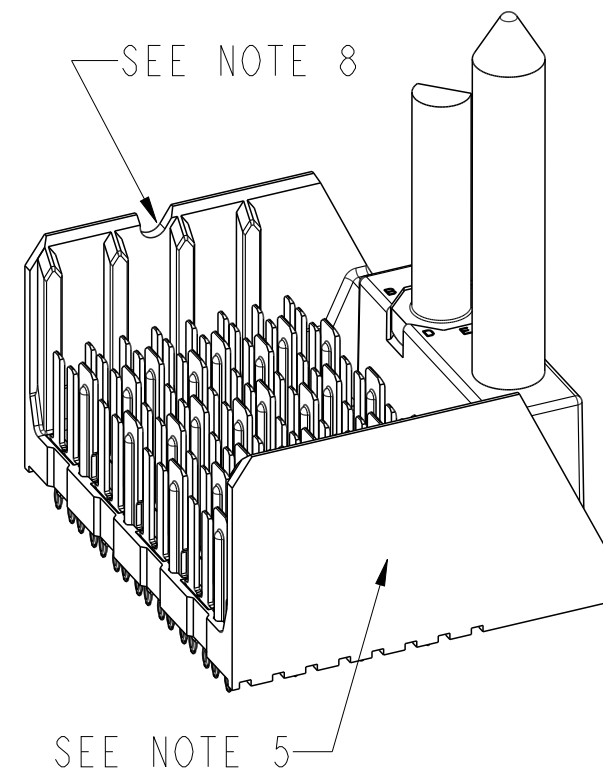
TAIL LENGTH
SEE NOTE 12



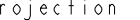
ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

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		FILE		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 3 of 8									

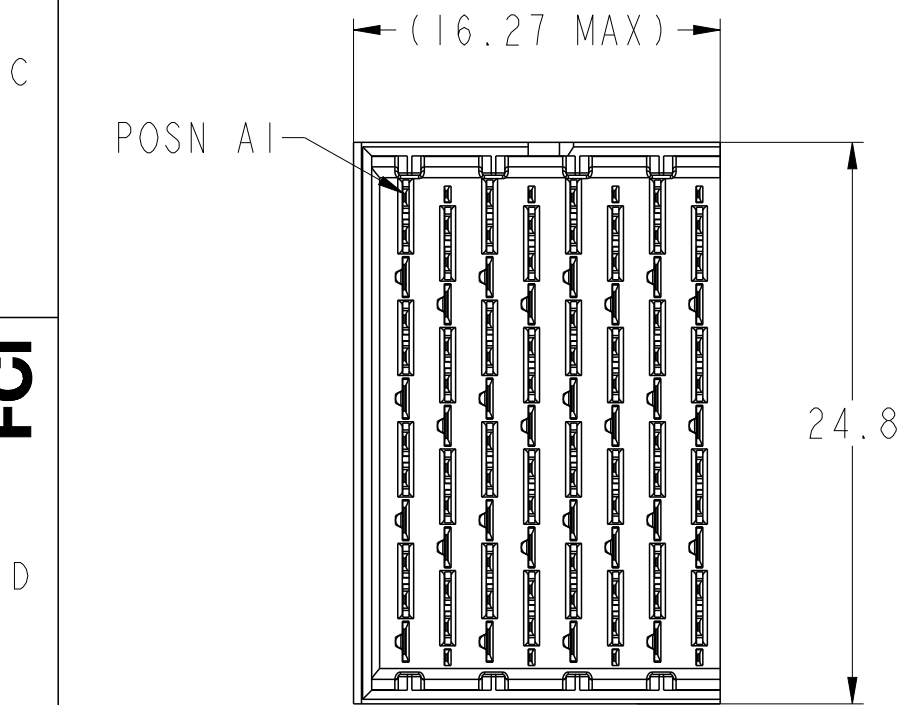
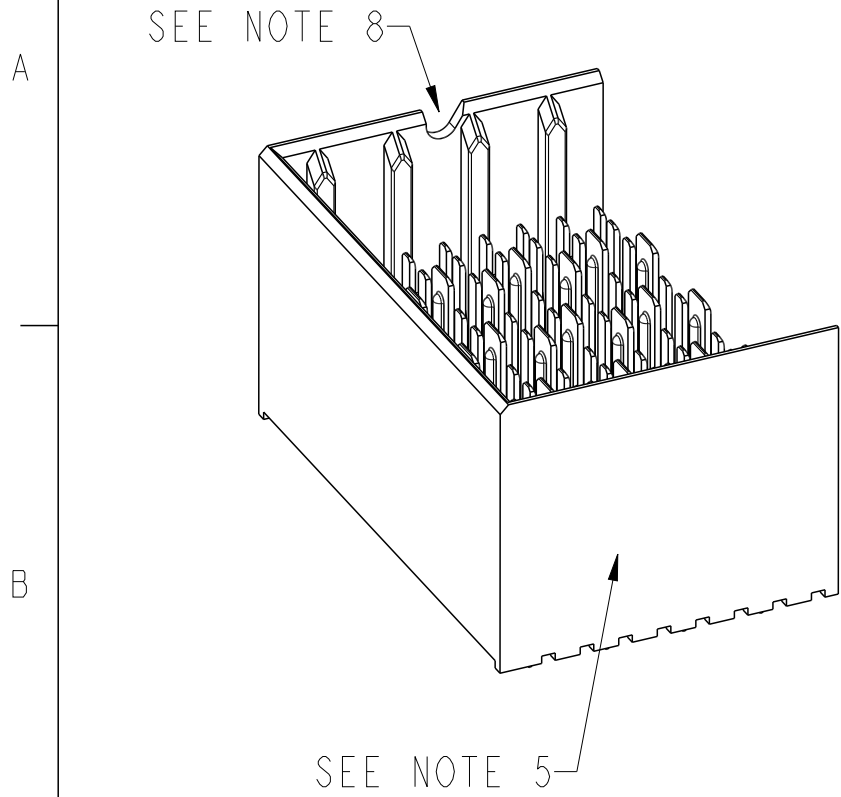
RIGHT POLARIZING/GUIDE MODULE



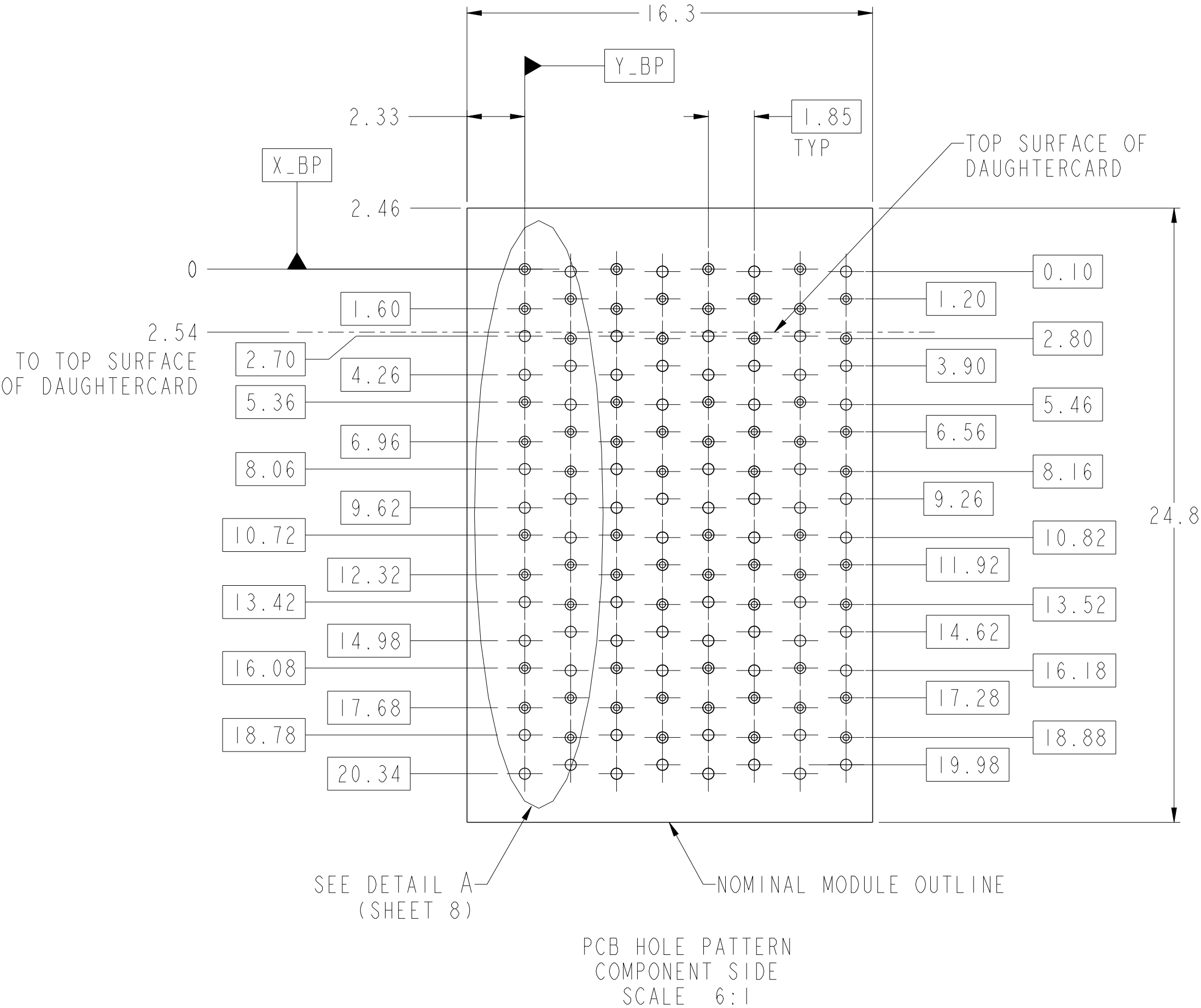
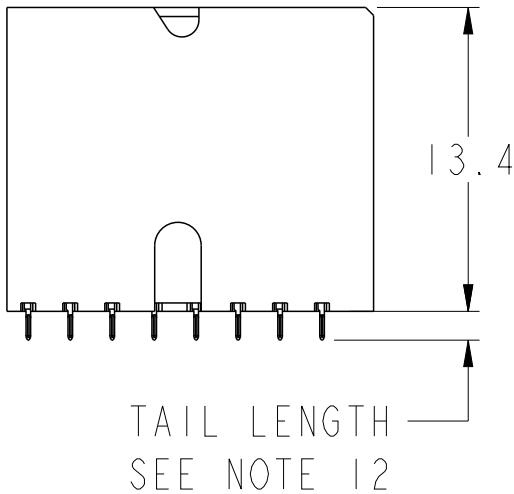
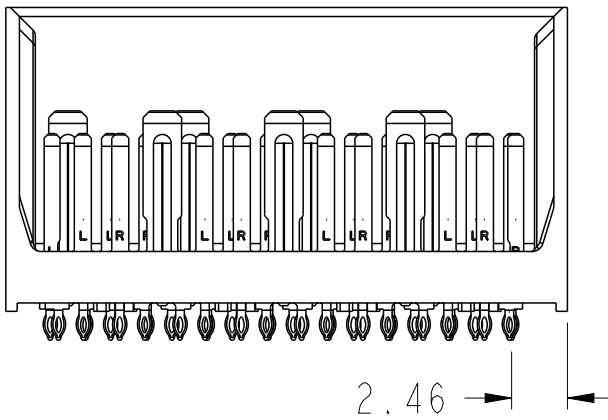
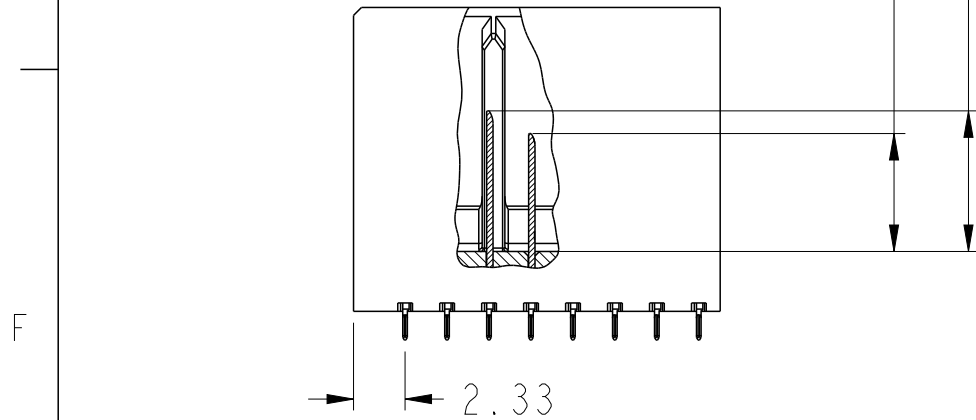
ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

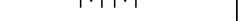
spec ref SEE NOTES				dr Jim Swain 2009/07/08		projection		size A2		scale 3:1			
tolerance std TOLERANCES UNLESS OTHERWISE SPECIFIED				eng Michael Song 2016/06/01						ecn no ELK-DG-24191-1			
ASME Y14.5				chr Heaven Cen 2016/06/08						rel level Released			
				appr Pei-Ming Zheng 2016/06/15		product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

LEFT WALL MODULE



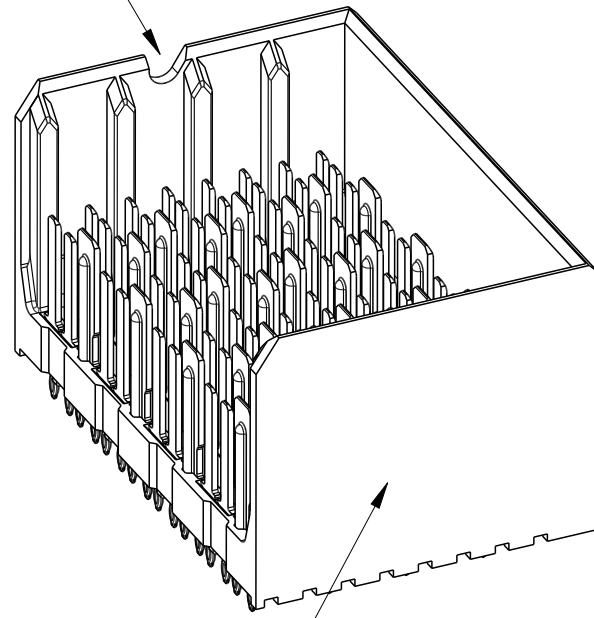
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE



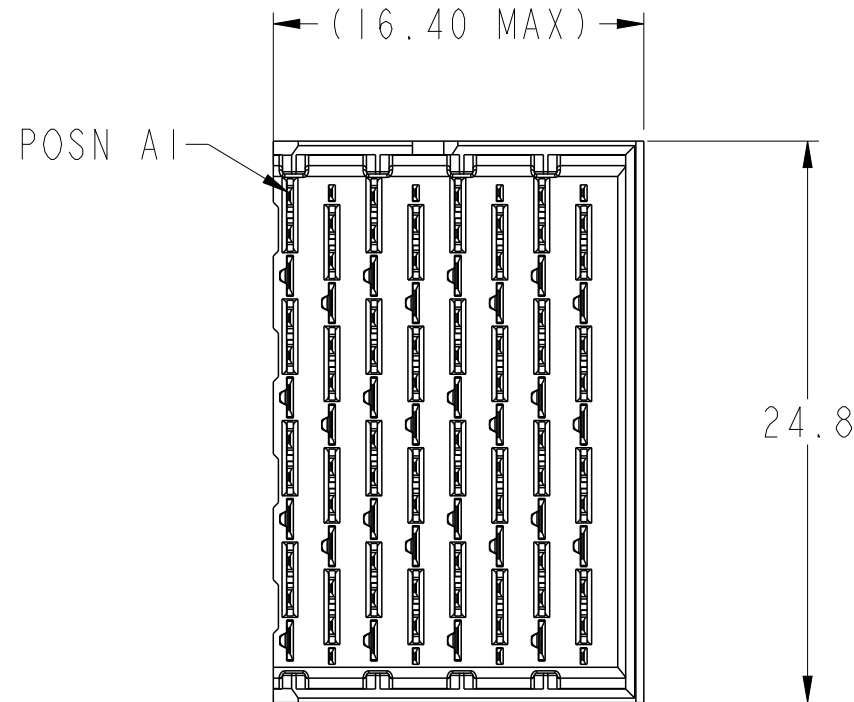
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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/01			ecn no	ELX-DG-24191-1					
ASME Y14.5				chr	Heaven Cen	2016/06/08			rel level	Released					
				appr	Pei-Ming Zheng	2016/06/15	product family		XCede						
surface	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												
		0.XXX	±0.050												
ASME Y14.5	angular	0°	±°		cat. no.	SEE P/N TREE		Product - Customer Drw				sheet 5 of 8			

RIGHT WALL MODULE

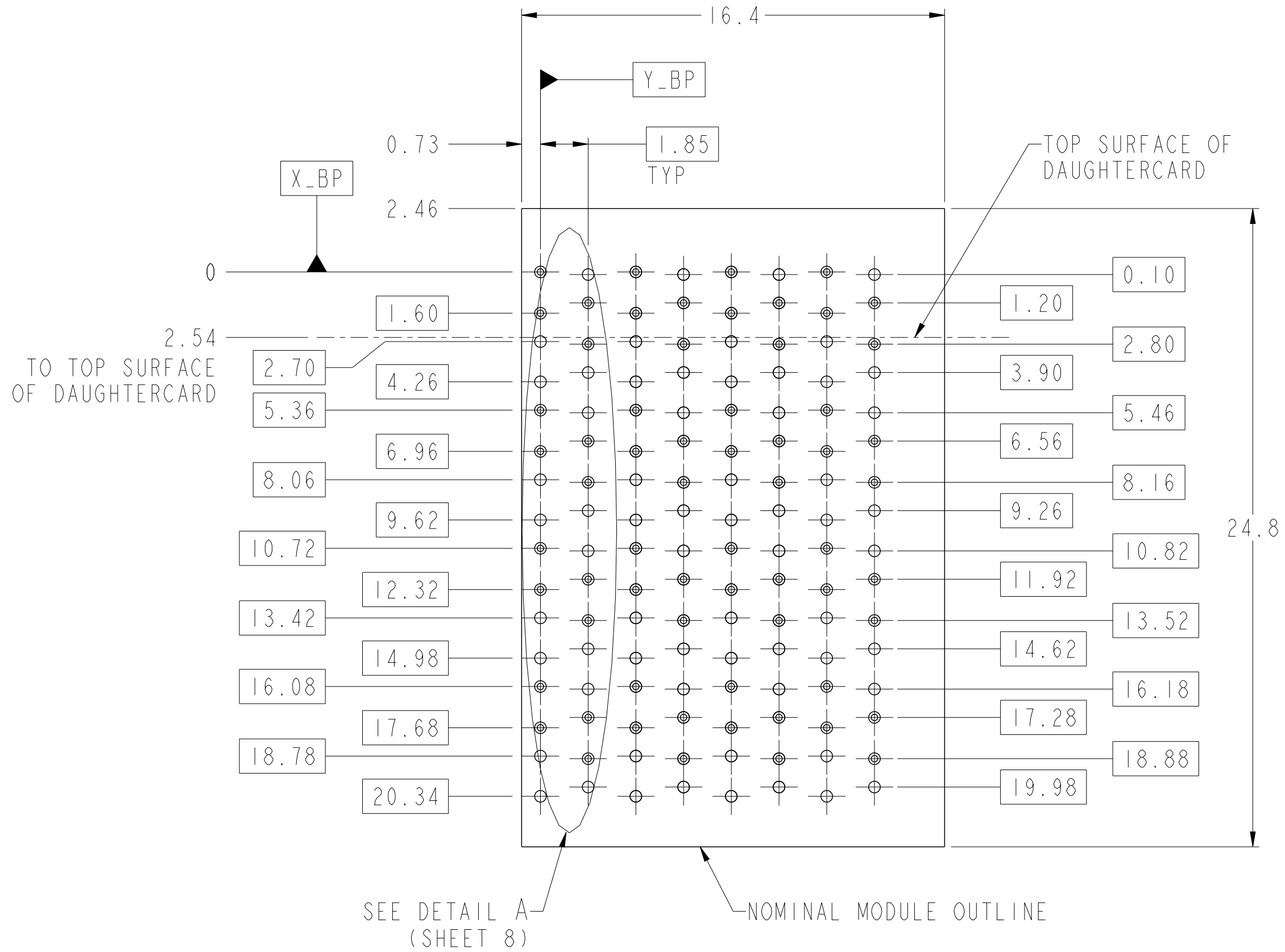
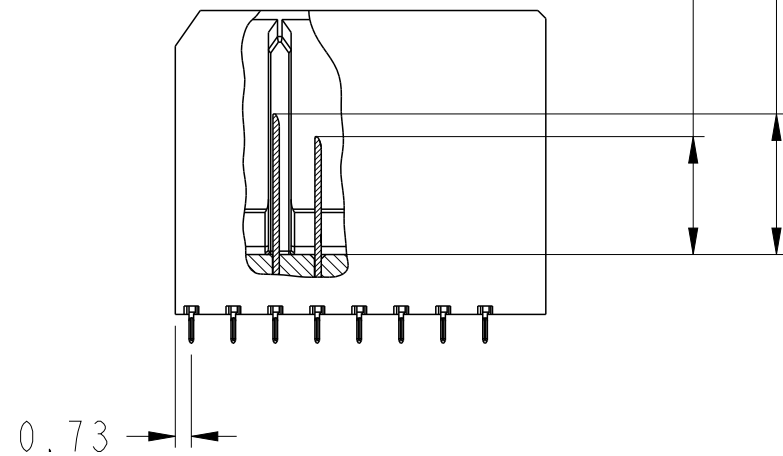
SEE NOTE 8



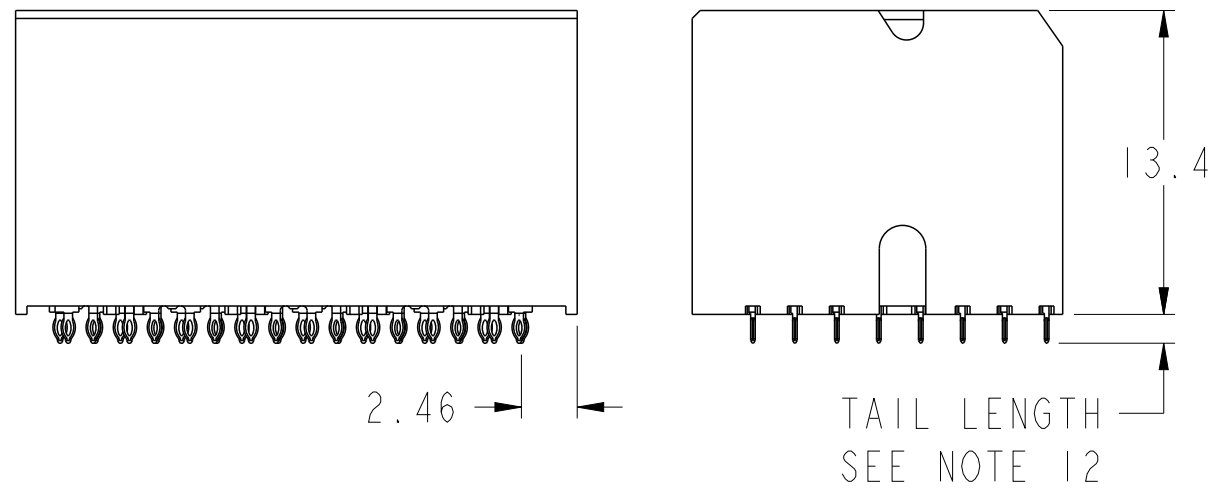
SEE NOTE 5



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



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1



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						rel level		Released					
				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																	
		0.XX		±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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FOUR WALL MODULE

SEE NOTE 8

SEE NOTE 5

2.54
TO TOP SURFACE
OF DAUGHTERCARD

SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

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

TAIL LENGTH
SEE NOTE 12

13.40

spec ref		SEE NOTES		dr	Jim Swain	2009/07/08			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			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, 8-COLUMN, 4-PAIR				dwg no	10091777		rev	G
		0.XX	±0.10											
		0.XXX	±0.050											
ASME Y14.5	angular	0°	±0°	cat. no.	-	Product - Customer Drw			sheet 7 of 8					

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Amphenol FCI

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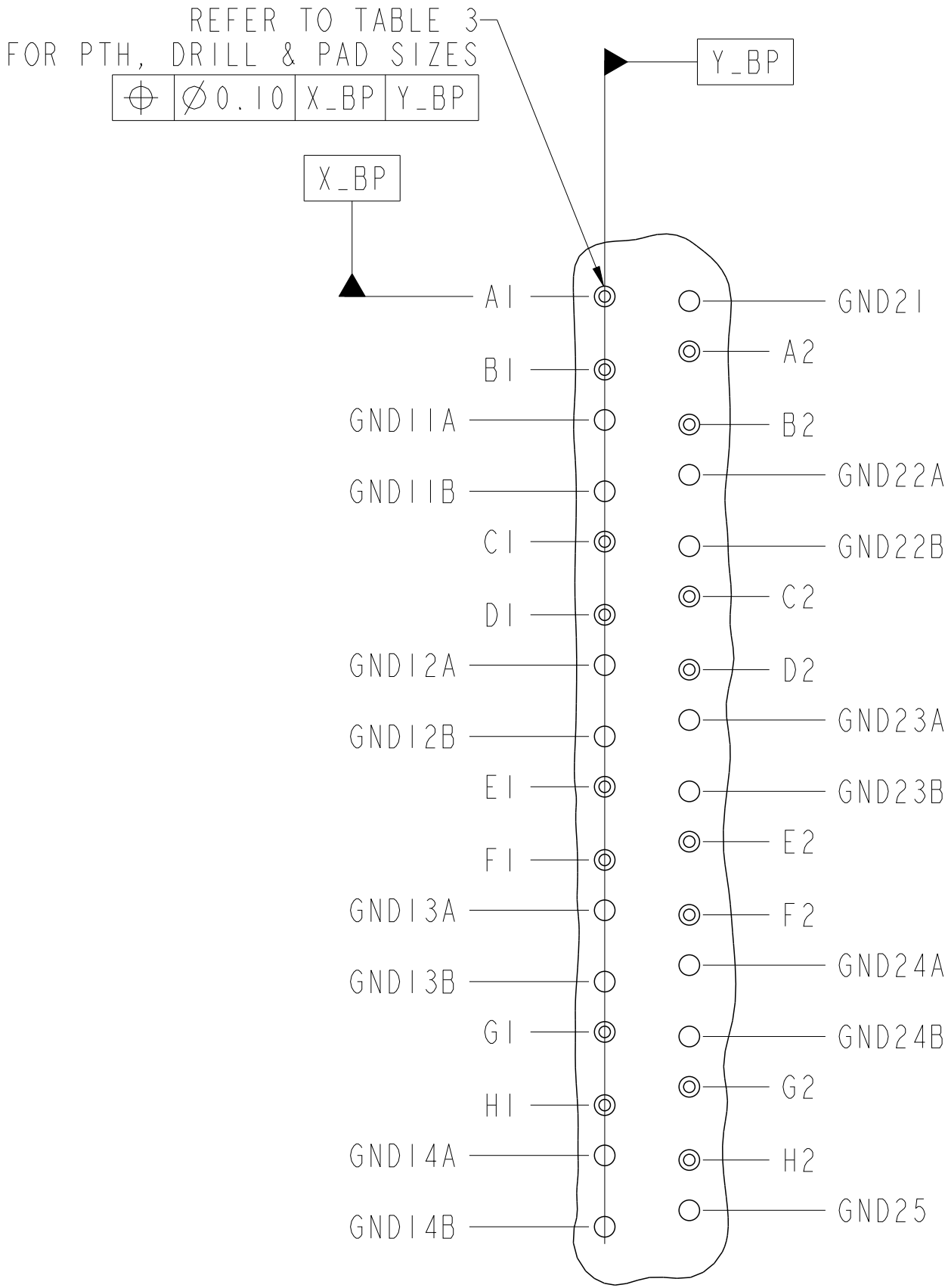
NOTES:

- 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		MM		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																									
				0.XXX		±0.050																									
ASME Y14.5				angular		0°		±°				cat. no.		-		Product - Customer Drw										sheet 8 of 8					

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FCI / Amphenol:

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