

1

2

3

4

5

6

7

8

10091777-X0E-X0XLFF

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

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

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)

FINISHED

GROUND

UNGROUND

PAD

DRILL (mm/in)

Ø2.35-2.55

Ø5.50

YES

2.58 / .1015

Ø2.35-2.55

N/A

NO

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

PRELIMINARY

spec ref

tolerance std

ASME Y14.5

surface

ASME Y14.5

SEE NOTES

TOLERANCES UNLESS OTHERWISE SPECIFIED

linear

angular

0.X

0.XX

0.XXX

0°

±0.2

±0.10

±0.050

±°

dr

eng

chr

appr

P S KUMAR

W. J. SWAIN

W. J. SWAIN

2009-07-04

2009-07-04

2009-07-04

projection

product family

XCede

rel level

In Work

MM

size

scale

A2

4:1

ecn no

rel level

In Work

10091777

3

FCI

www.fci.com

cat. no.

SEE P/N TREE

Product - Customer Drw

sheet 1 of 8

MODULE ASSEMBLY

VERTICAL HEADER, 8-COLUMN, 4-PAIR

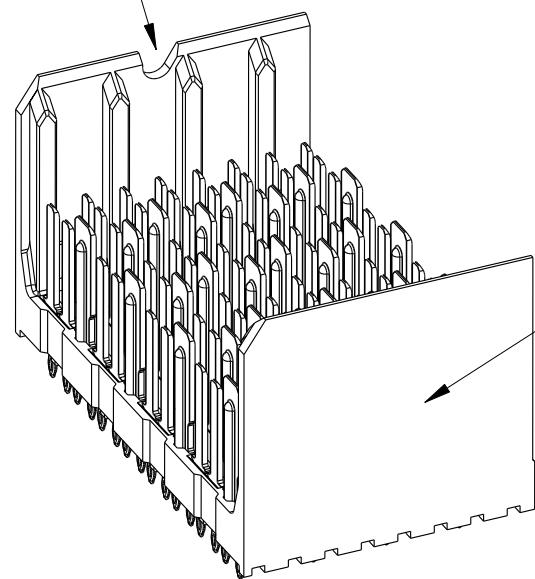
Copyright FCI.

FCI

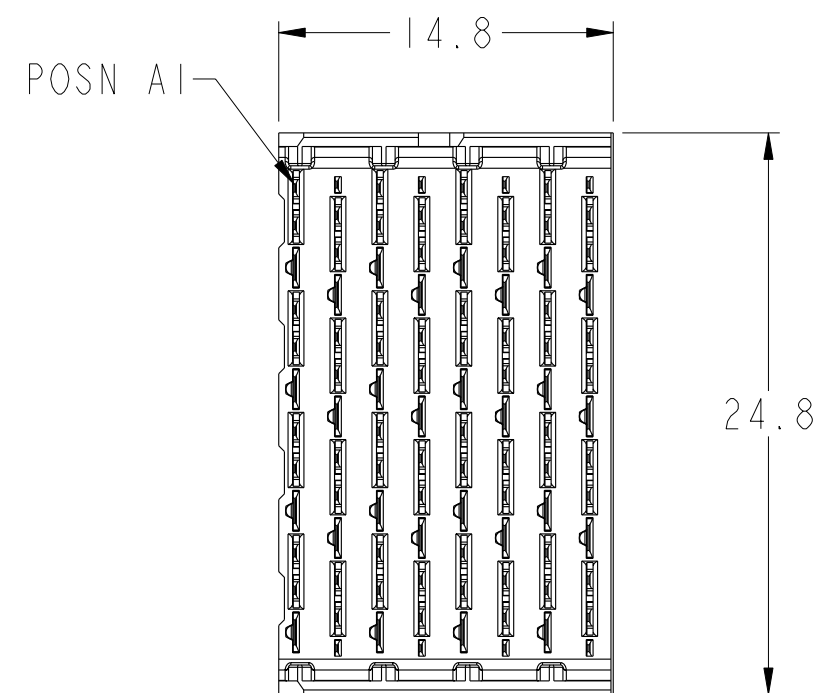
ProfE File - REV C - 2009-06-09

OPEN (2-WALL) MODULE

SEE NOTE 8



SEE NOTE 8



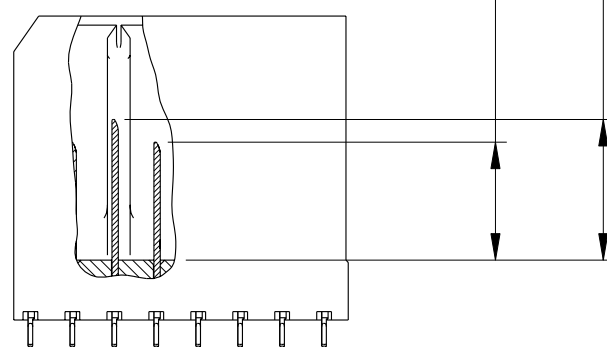
6.2 (WIDE GROUNDS)

5.2 (THIN END GROUNDS)

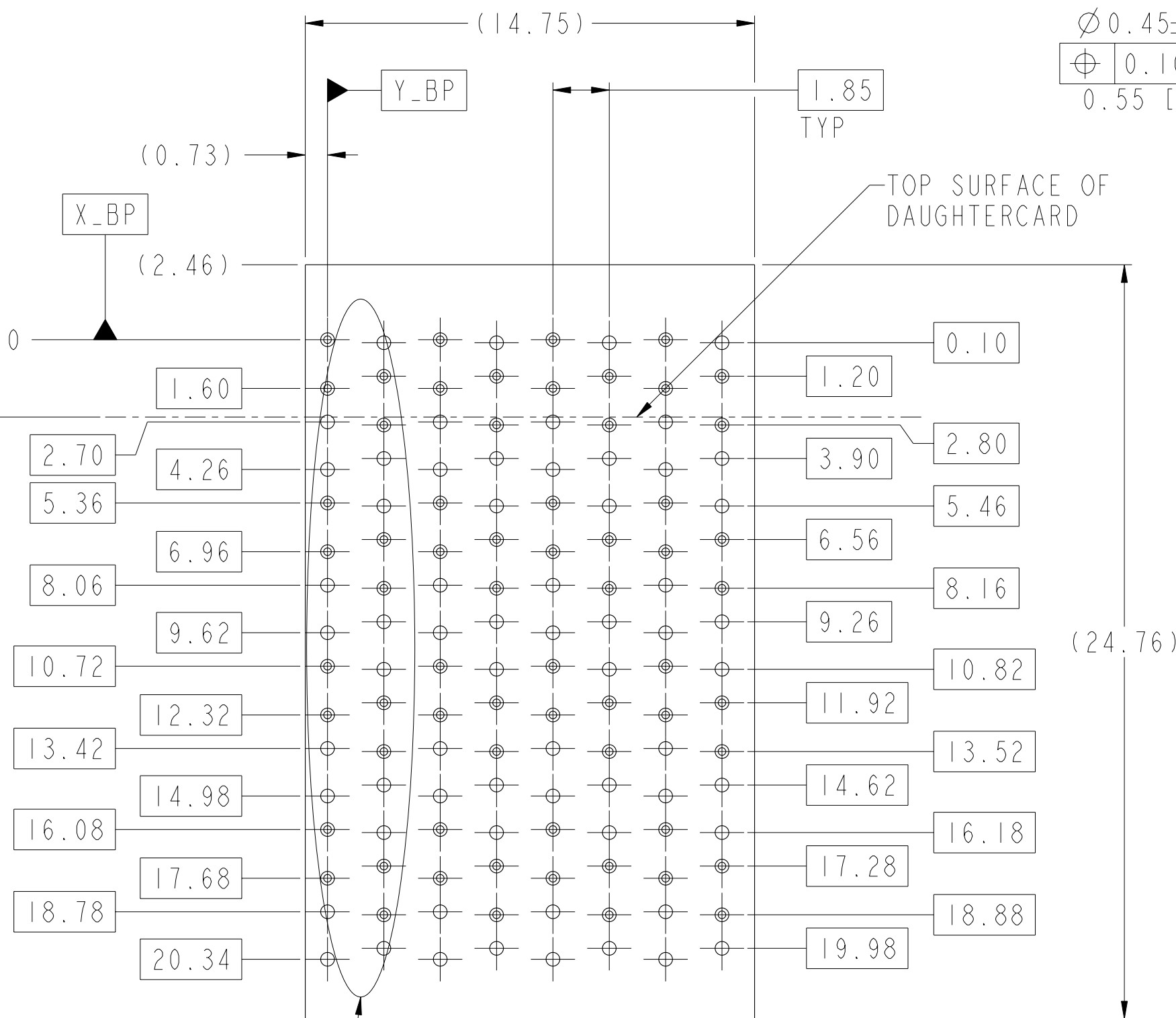
5.2 (3mm WIPE SIGNALS)

4.2 (2mm WIPE SIGNALS)

SEE P/N TREE



2.54
TO TOP SURFACE
OF DAUGHTERCARD

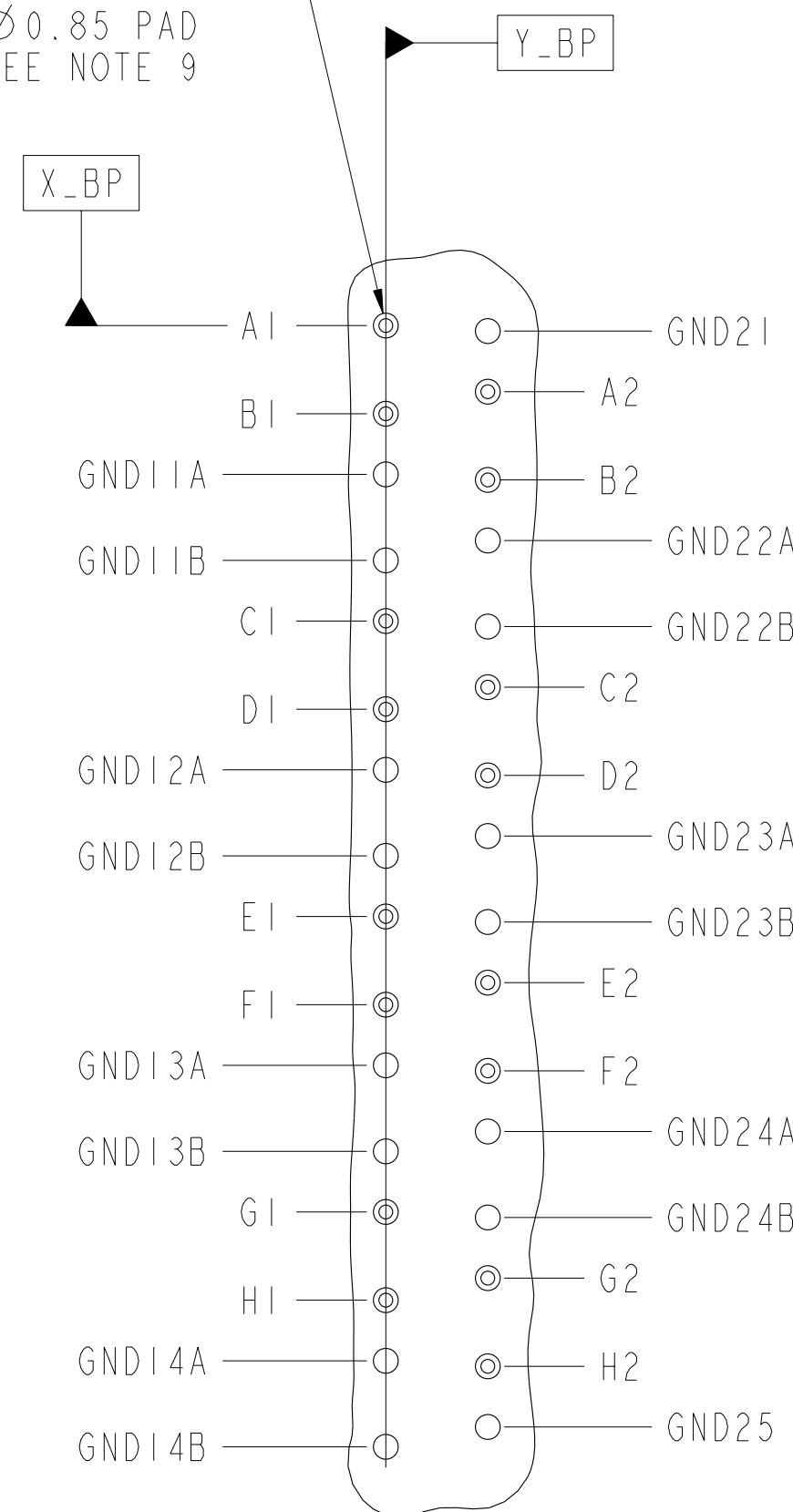


SEE DETAIL A

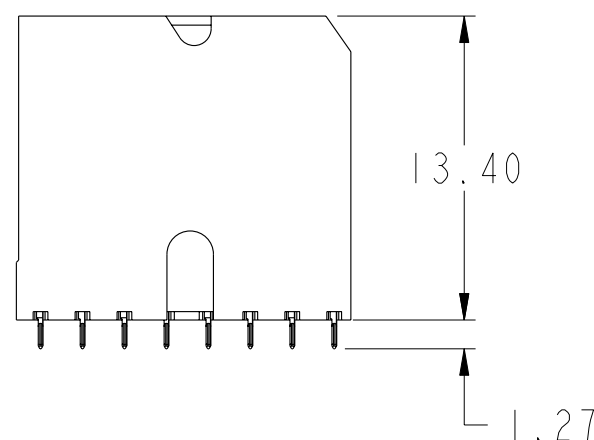
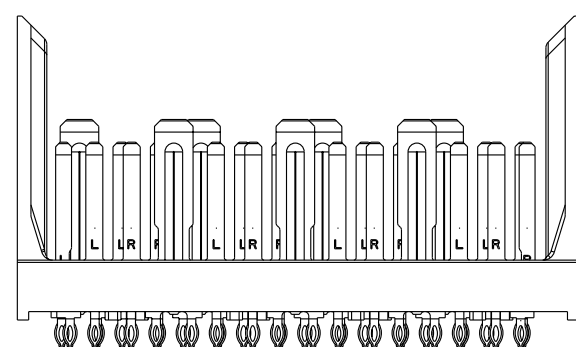
NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

$\varnothing 0.45 \pm 0.05$ PTH TYP
 $\varnothing 0.10$ A Y_BP X_BP
0.55 [0.0217"] DRILL
 $\varnothing 0.85$ PAD
SEE NOTE 9



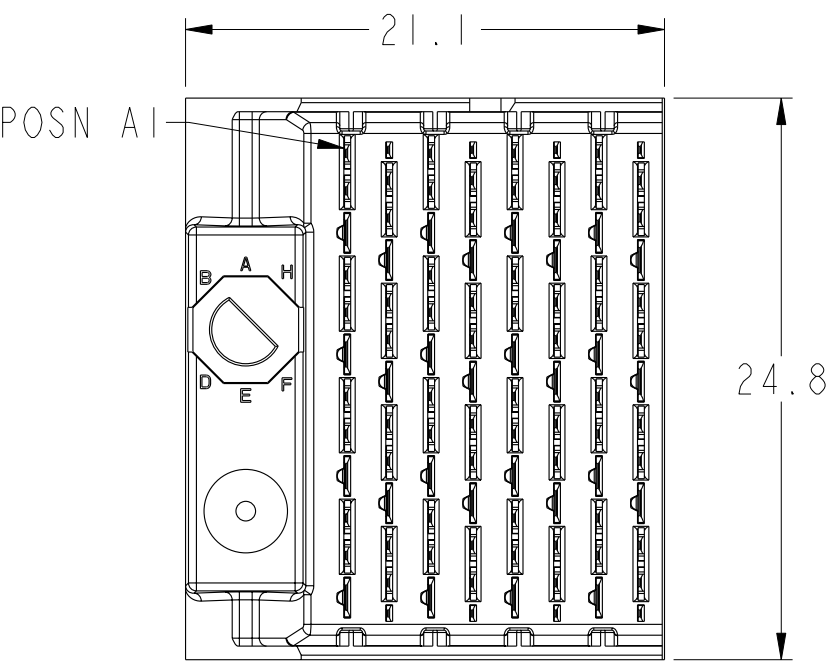
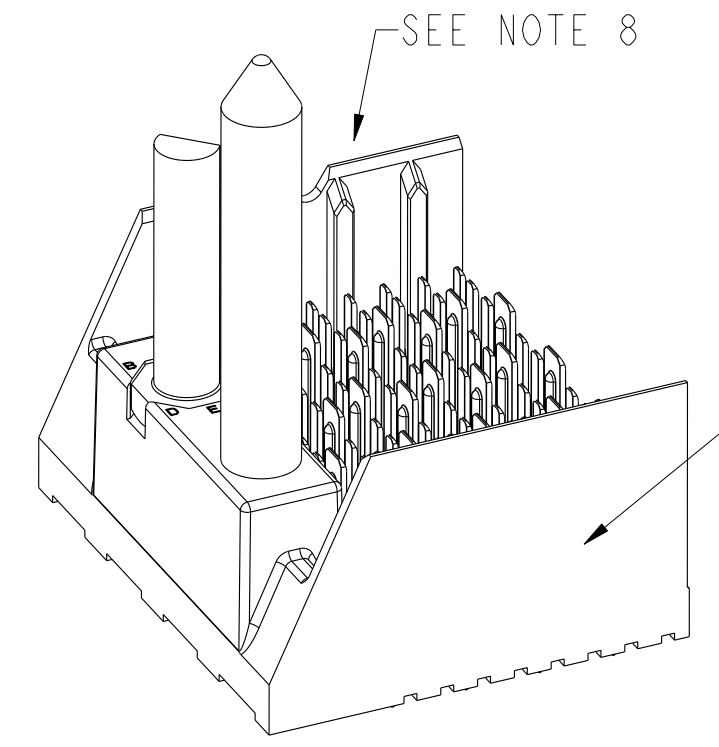
DETAIL A
SCALE 8:1



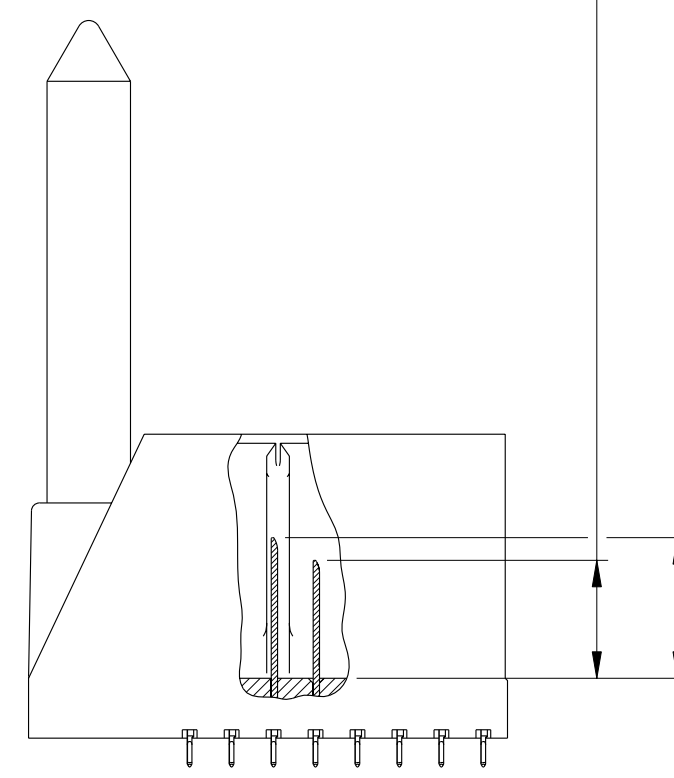
spec ref		SEE NOTES		dr		P S KUMAR		2009-07-04		projection		MM		size		scale			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		W. J. SWAIN		2009-07-04						A2		4:1			
ASME Y14.5				chr		W. J. SWAIN		2009-07-04						ecn no		rel level		In Work	
				appr										product family		XCede			
surface		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10091777		rev	
✓		0.XX		±0.10															
		0.XXX		±0.050															
ASME Y14.5		angular		0°		±0°		www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 2 of 8		3	

PRELIMINARY

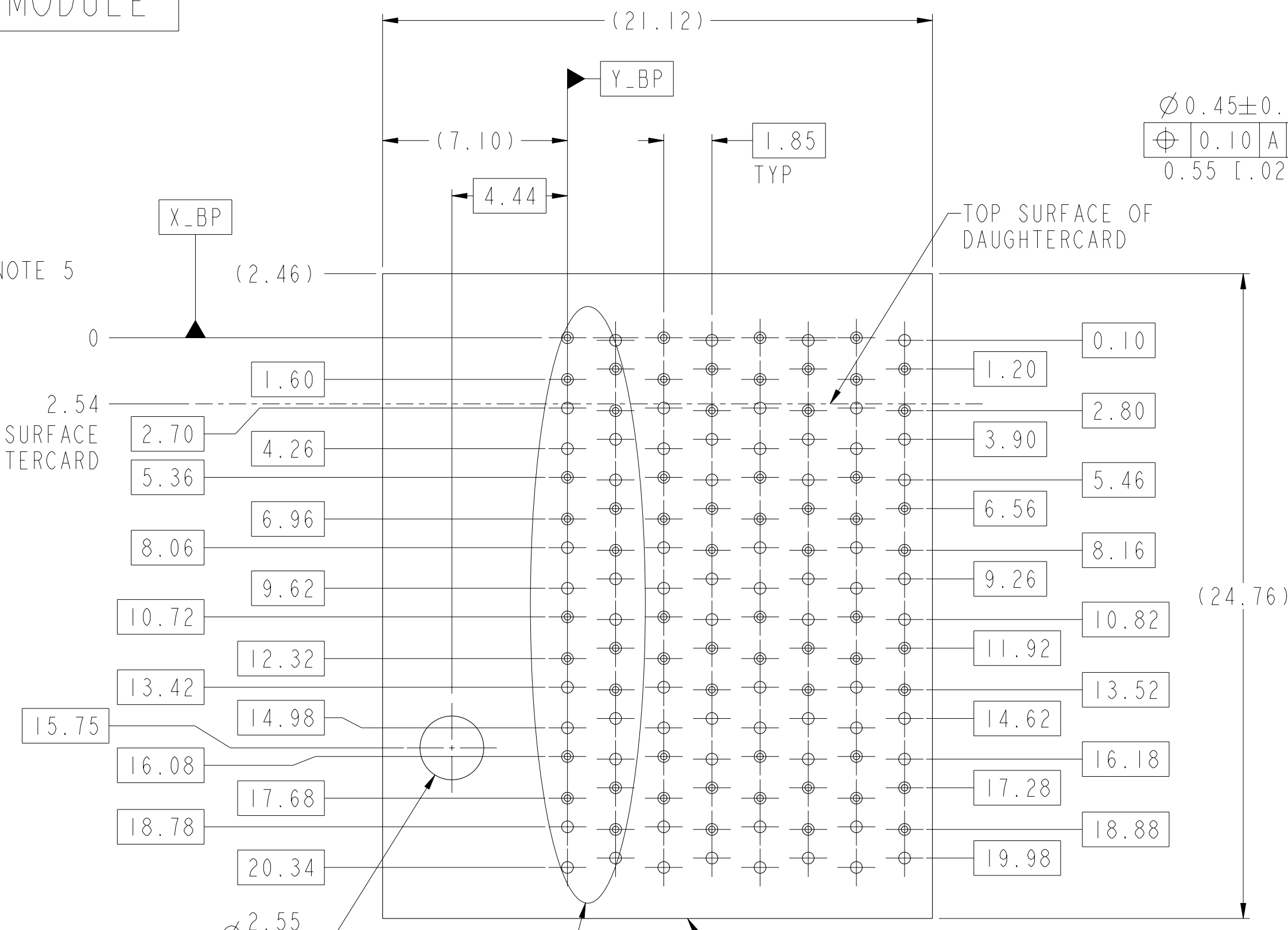
LEFT POLARIZING/GUIDE MODULE



6.2 (WIDE GROUNDS)
5.2 (THIN END GROUNDS)
5.2 (3mm WIPE SIGNALS)
4.2 (2mm WIPE SIGNALS)
SEE P/N TREE



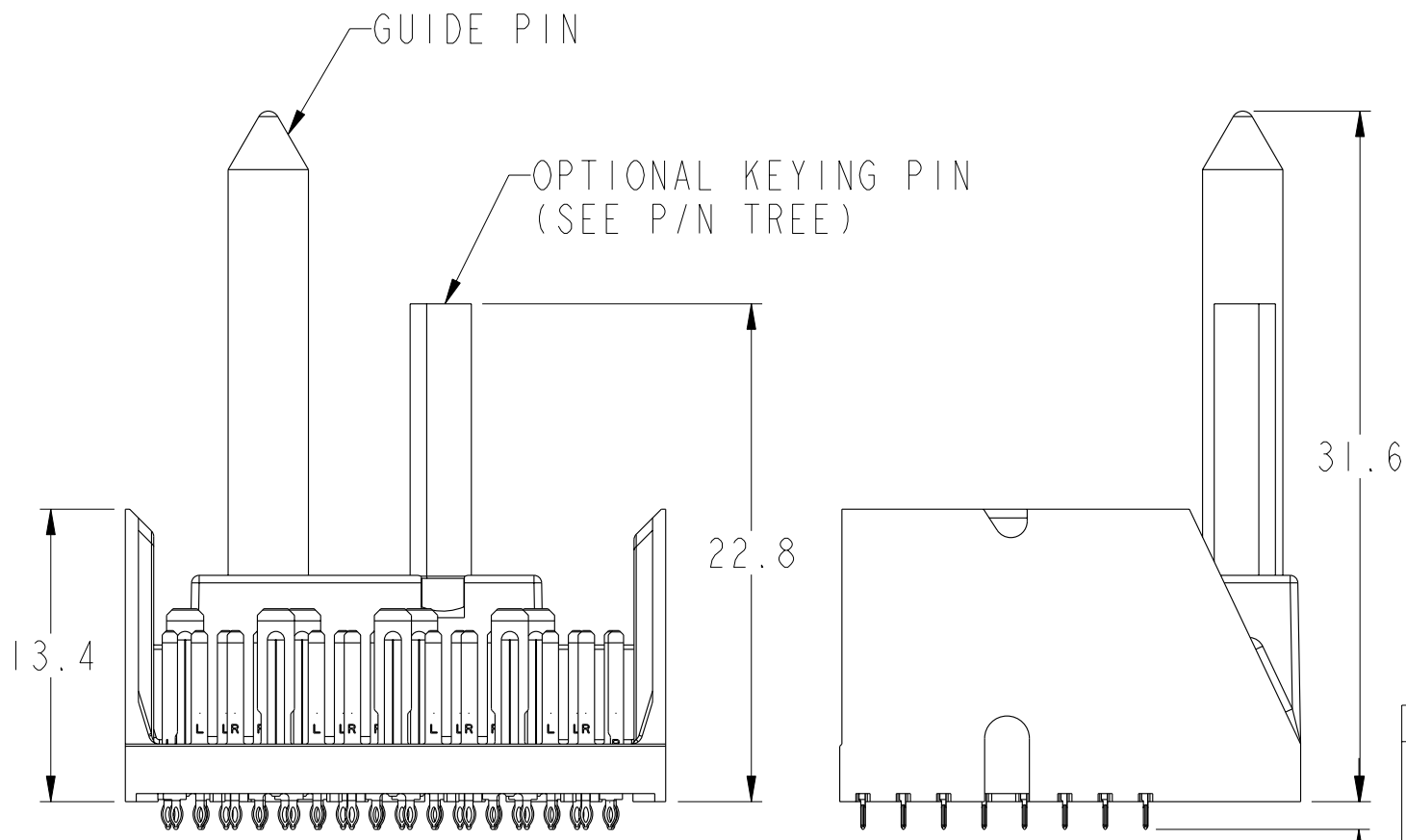
SEE NOTE 5
TO TOP SURFACE
OF DAUGHTERCARD



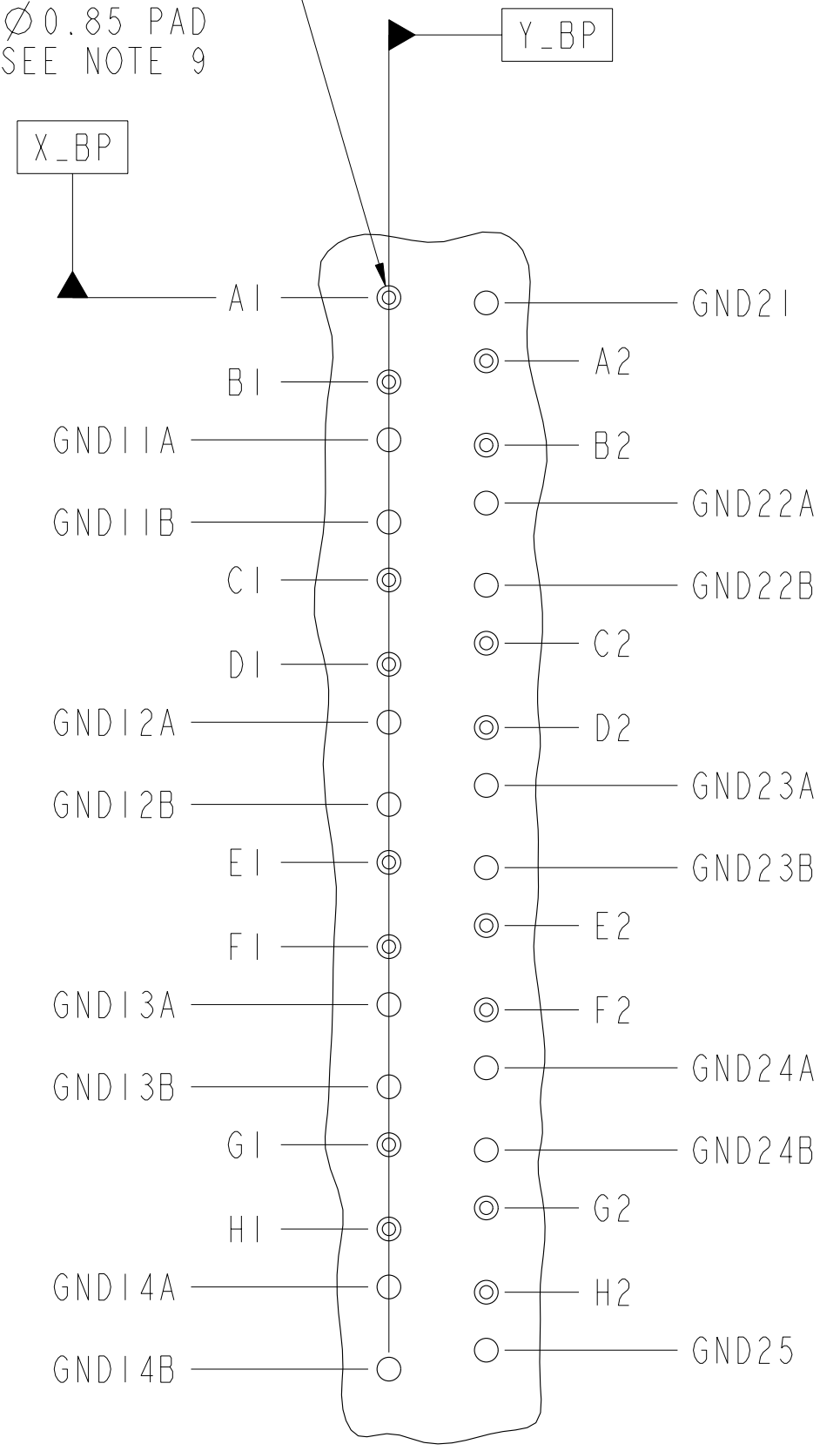
SEE NOTE 11 & TABLE 1

SEE DETAIL A

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1



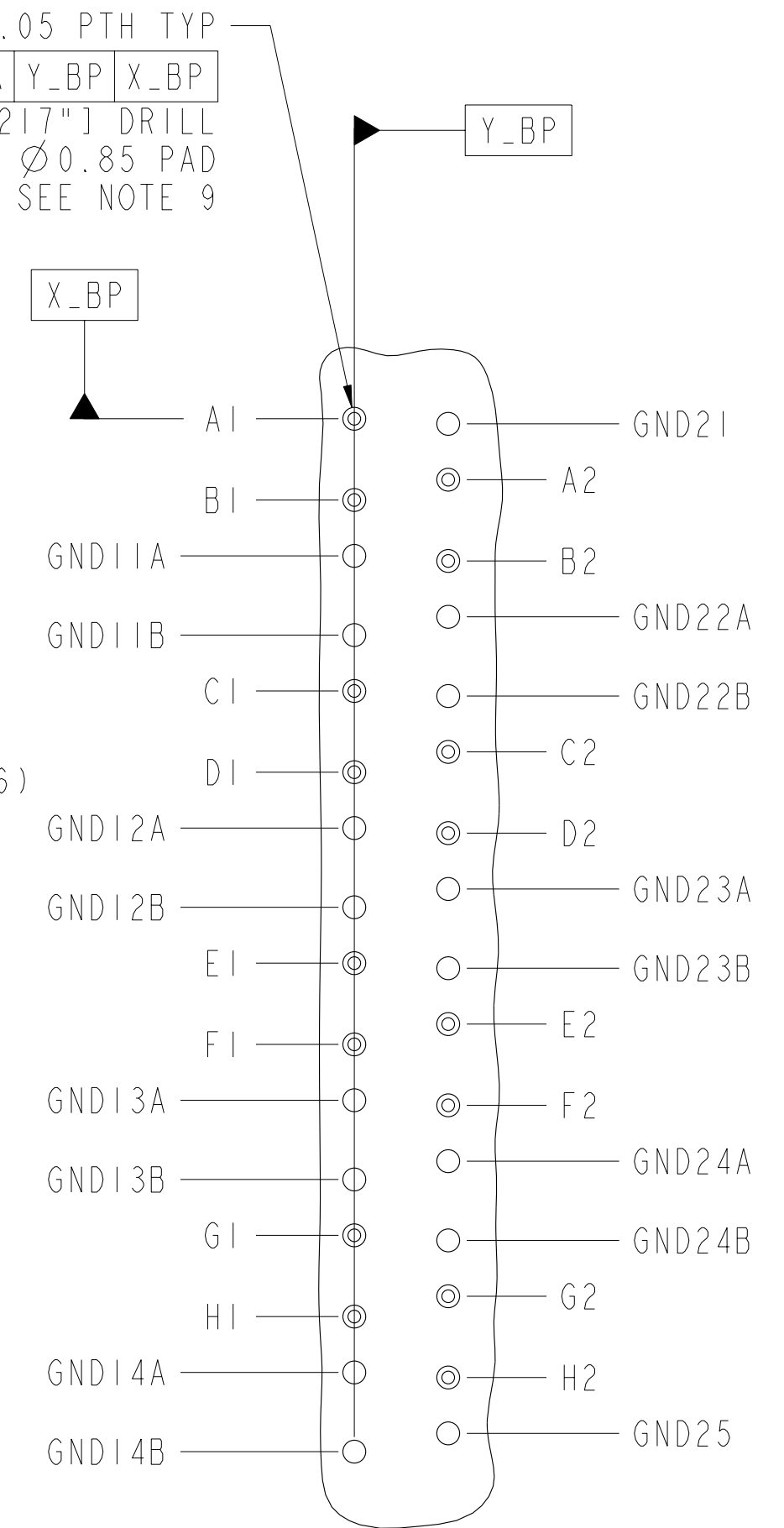
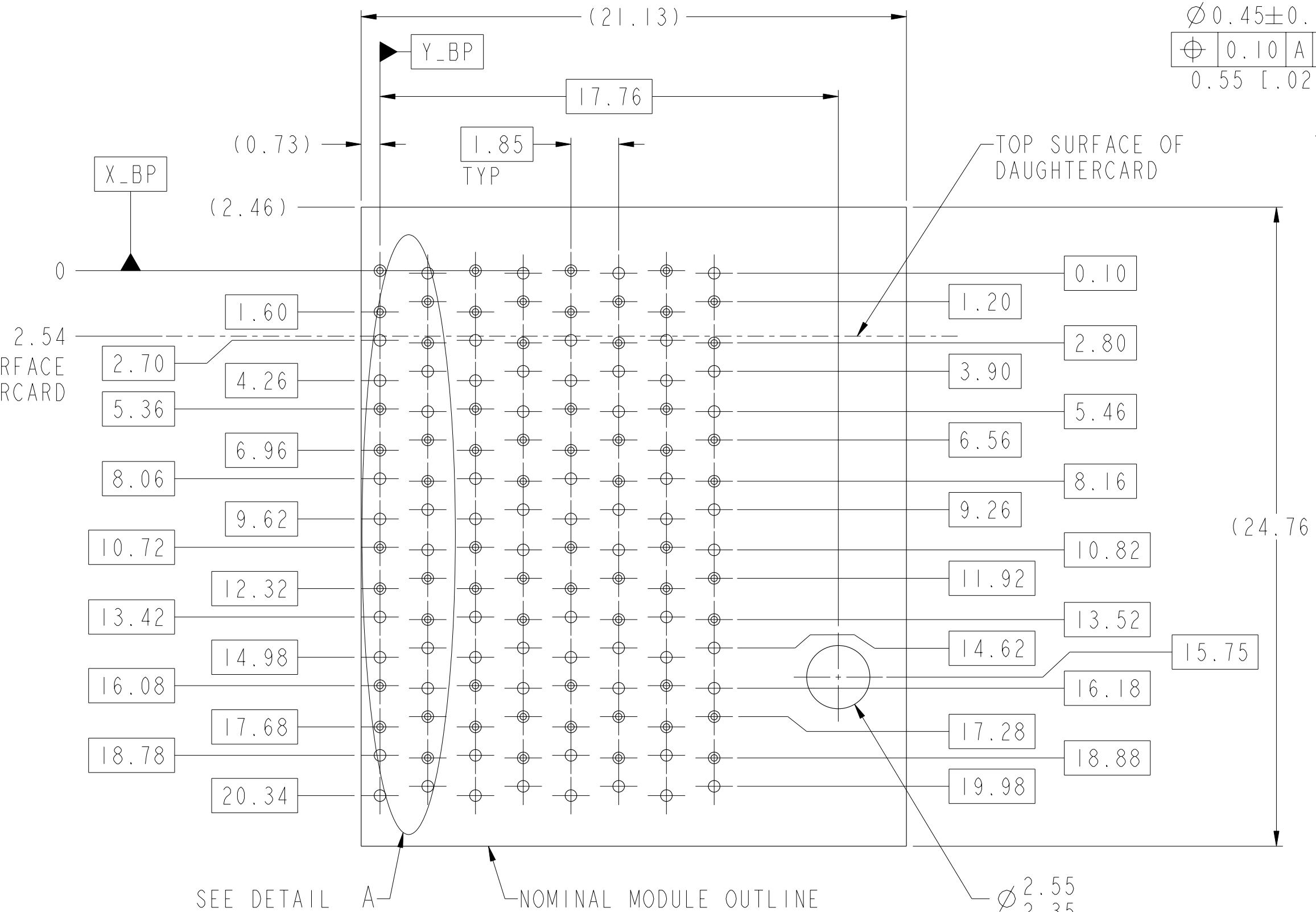
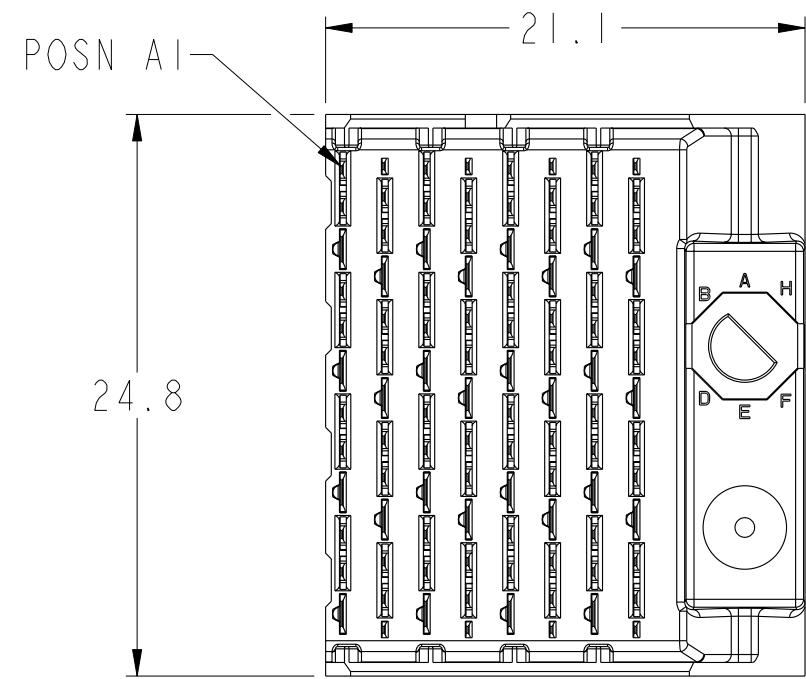
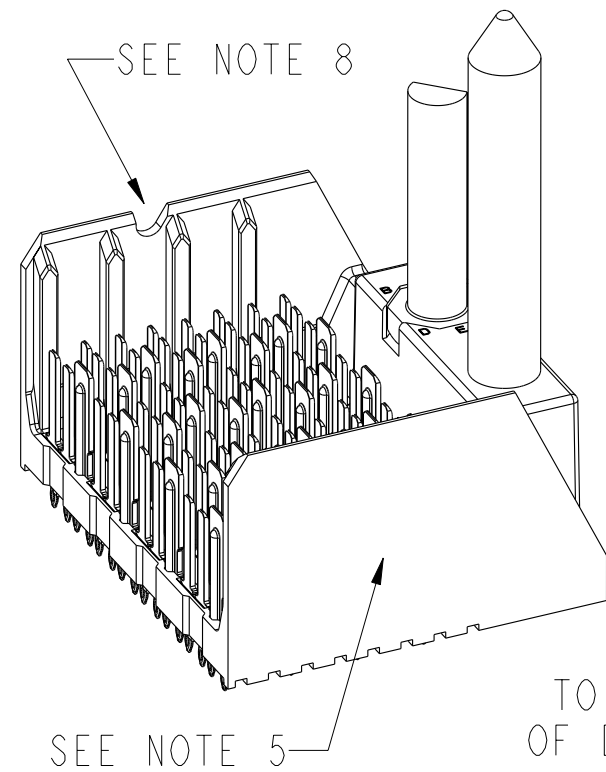
$\varnothing 0.45 \pm 0.05$ PTH TYP
 $\varnothing 0.10$ A Y_BP X_BP
0.55 [0.0217"] DRILL
 $\varnothing 0.85$ PAD
SEE NOTE 9



DETAIL A
SCALE 8:1

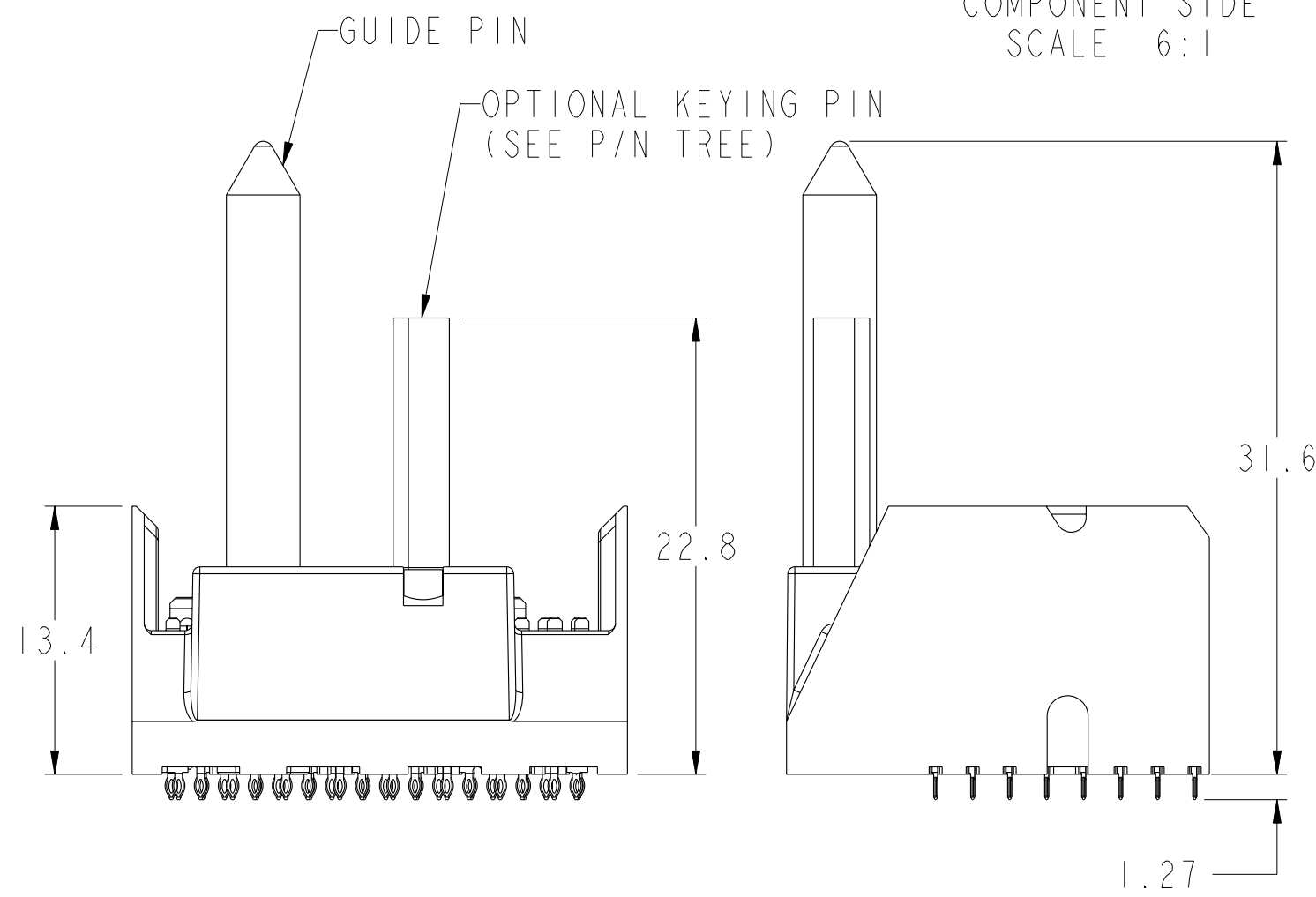
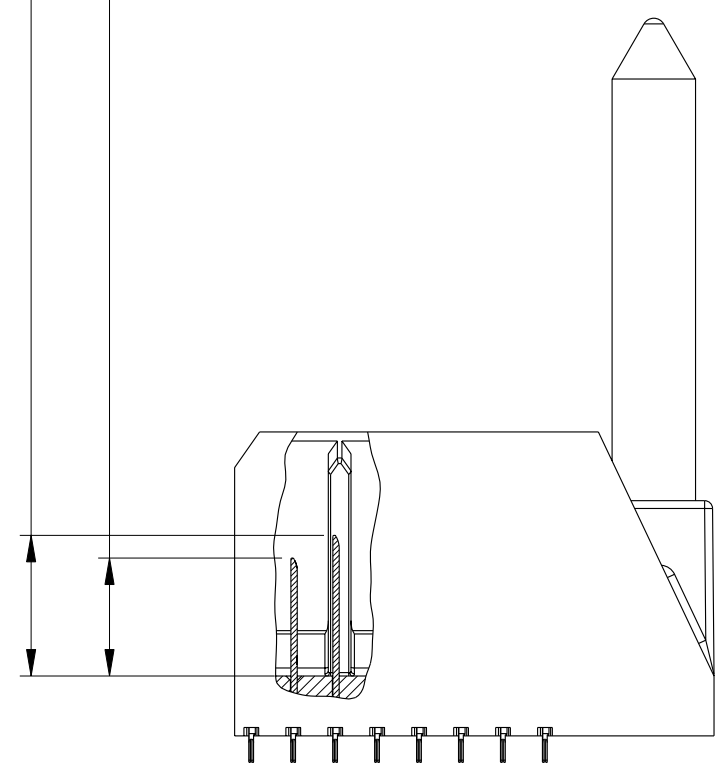
spec ref		SEE NOTES			dr		P S KUMAR		2009-07-04		projection		MM		size		A2		scale		4:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		W. J. SWAIN		2009-07-04						ecn no							
ASME Y14.5					chr		W. J. SWAIN		2009-07-04						rel level		In Work		rev			
					appr																	
surface		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10091777		3				
		0.XX		±0.10																		
		0.XXX		±0.050																		
ASME Y14.5		angular		0°		±°		www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 3 of 8						

RIGHT POLARIZING/GUIDE MODULE



DETAIL A
SCALE 8:1

6.2 (WIDE GROUNDS)
5.2 (THIN END GROUNDS)
5.2 (3mm WIPE SIGNALS)
4.2 (2mm WIPE SIGNALS)
SEE P/N TREE

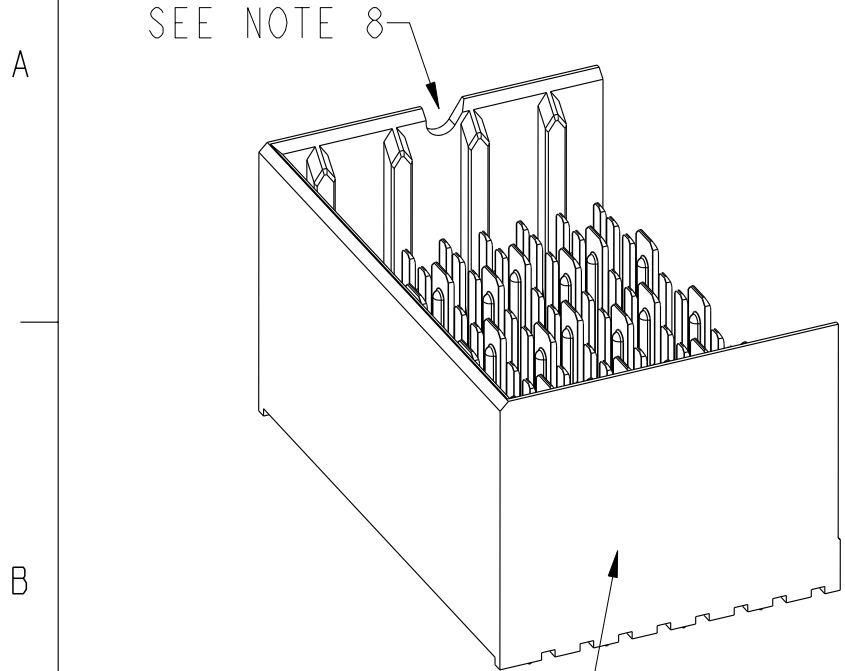


spec ref		SEE NOTES		dr	P S KUMAR	2009-07-04			size	A2	scale	4:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	W. J. SWAIN	2009-07-04			ecn no	rel level	In Work		
ASME Y14.5				chr	W. J. SWAIN	2009-07-04							
				appr			product family	XCede					
surface	linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 4-PAIR			dwg no	10091777		rev	3
		0.XX	±0.10										
		0.XXX	±0.050										
ASME Y14.5	angular	0°	± 0°	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 4 of 8			

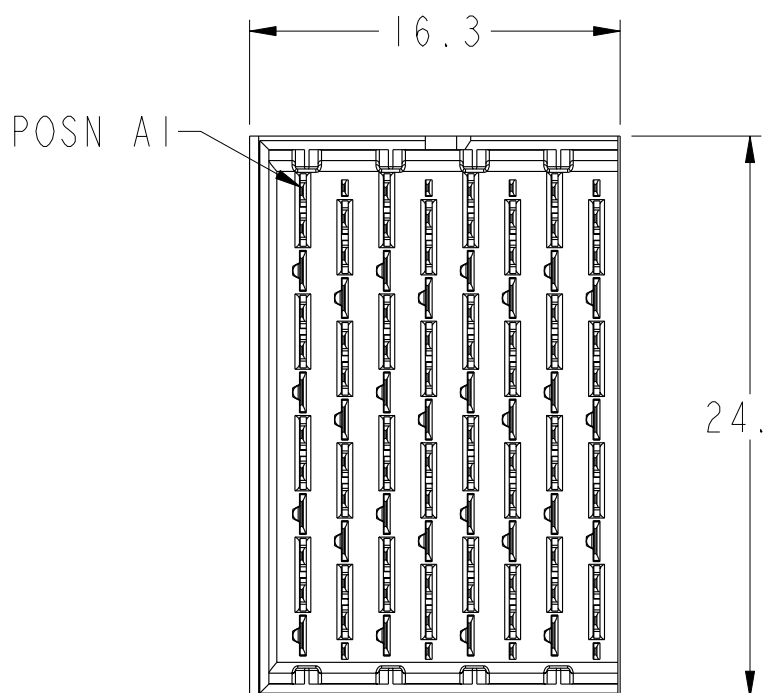
PRELIMINARY

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LEFT WALL MODULE

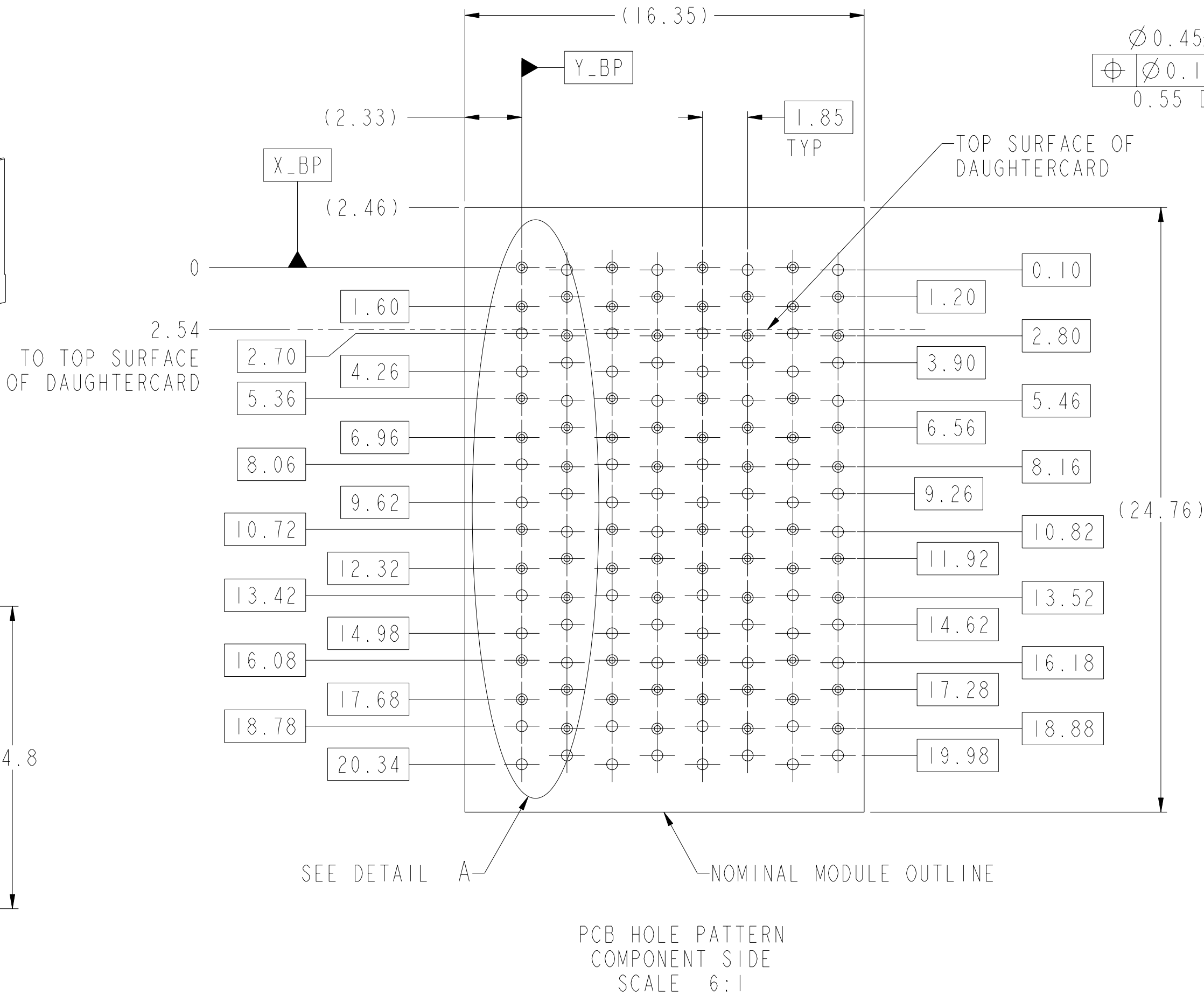
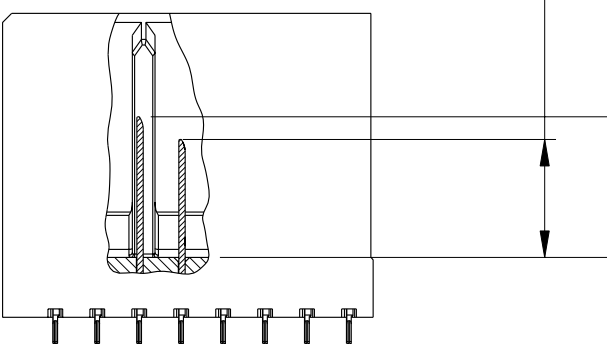


SEE NOTE 5



6.2 (WIDE GROUNDS)

5.2 (THIN END GROUNDS)
5.2 (3mm WIPE SIGNALS)
4.2 (2mm WIPE SIGNALS)
SEE P/N TREE



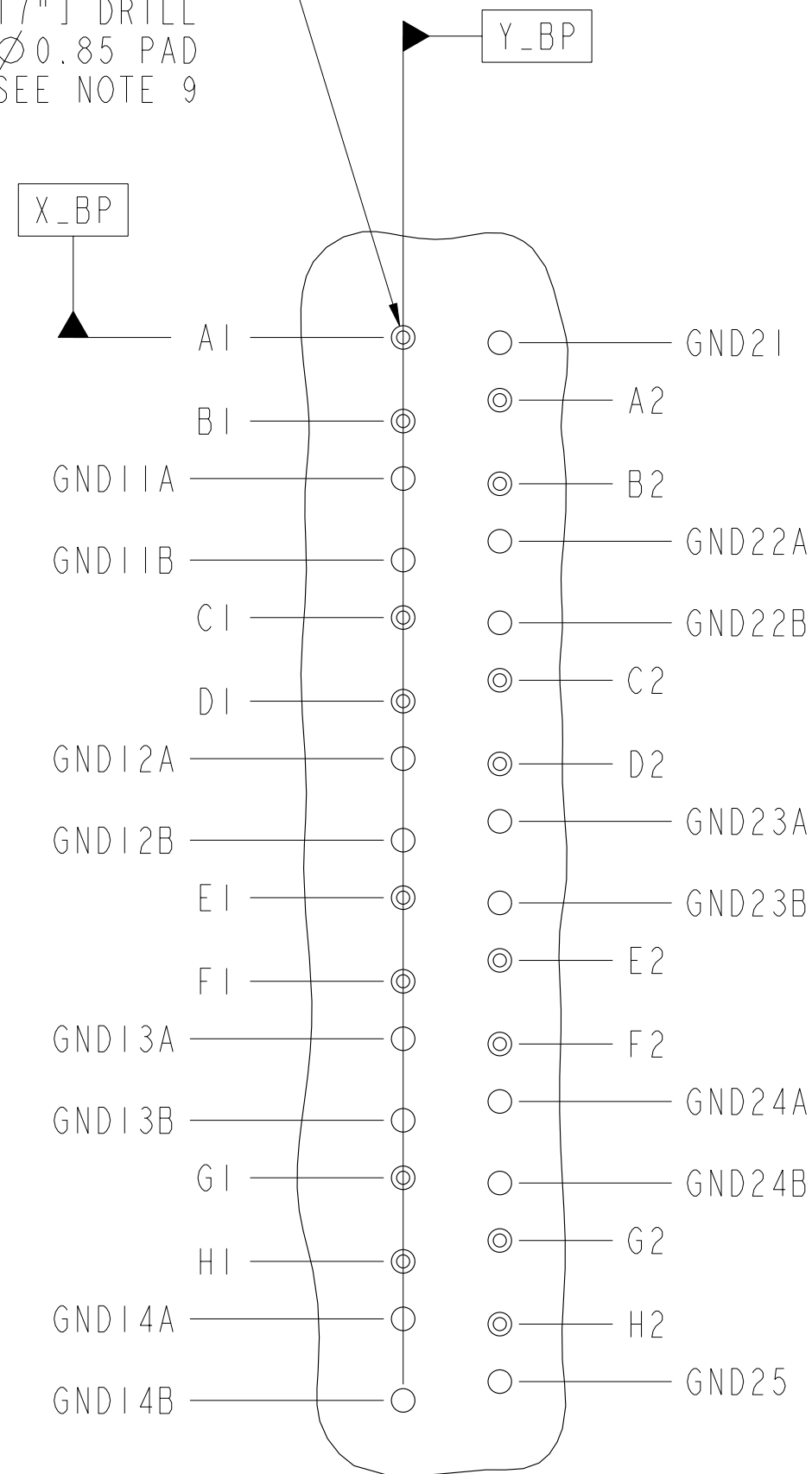
SEE DETAIL A—NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

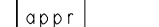
$\varnothing 0.45 \pm 0.05$ PTH TYP

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

0.55 [.0217"] DRILL
 $\varnothing 0.85$ PAD
E OF SEE NOTE 9



DETAIL A
SCALE 8:1

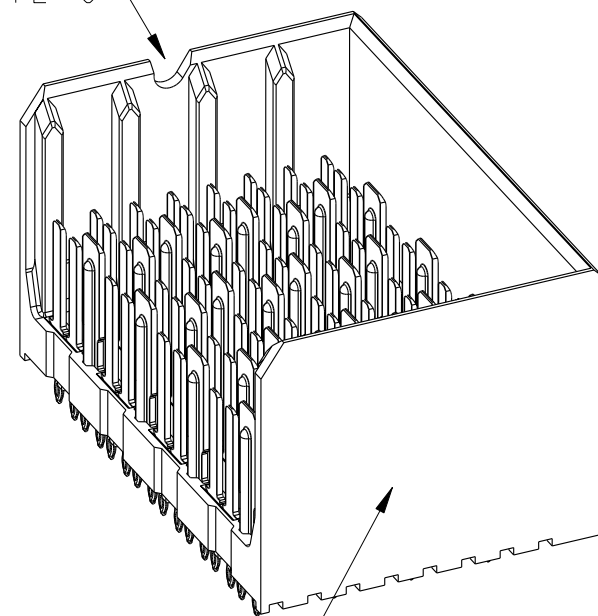
spec ref		SEE NOTES		dr		P S KUMAR		2009-07-04		projection		MM		size		scale			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		W. J. SWAIN		2009-07-04						A2		4:1			
ASME Y14.5				chr		W. J. SWAIN		2009-07-04						ecn no		rel level		In Work	
				appr						product family				XCede					
surface 		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10091777		rev	
				0.XX		±0.10													
				0.XXX		±0.050													
ASME Y14.5		angular		0°		±0°		www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw				sheet 5 of 8	

PRELIMINARY

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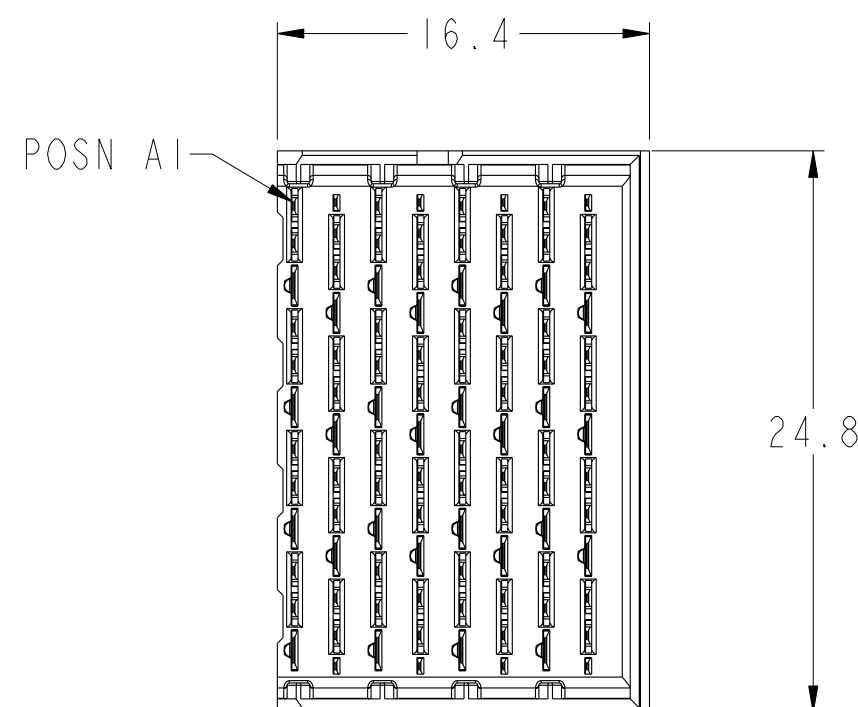
RIGHT WALL MODULE

SEE NOTE 8



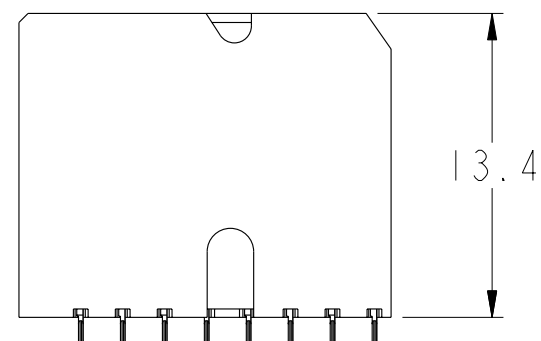
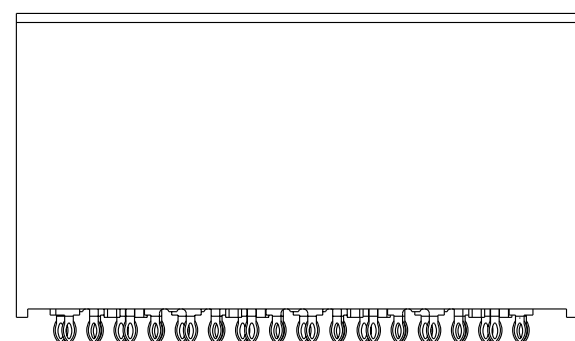
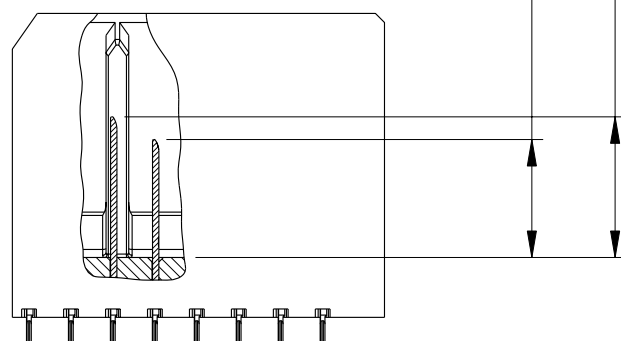
SEE NOTE 5

TO TOP SURFACE OF DAUGHTERCARD



6.2 (WIDE GROUNDS)

5.2 (THIN END GROUNDS)
5.2 (3mm WIPE SIGNALS)
4.2 (2mm WIPE SIGNALS)
SEE P/N TREE



1.27

SEE DETAIL A

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

(16.40)

Y_BP

(0.73)

(2.46)

1.85

TYP

TOP SURFACE OF DAUGHTERCARD

Ø0.45±0.05 PTH TYP

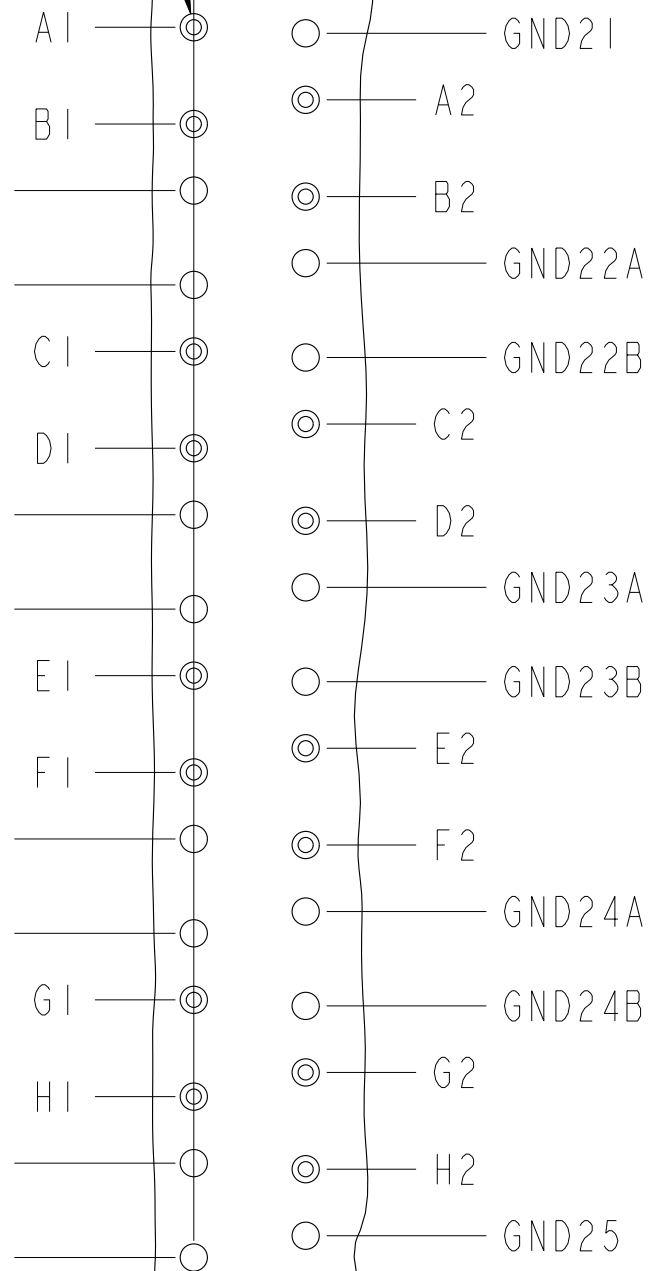
Ø0.10 A Y_BP X_BP

0.55 [0.0217"] DRILL

Ø0.85 PAD

SEE NOTE 9

X_BP



DETAIL A
SCALE 8:1

PRELIMINARY

spec ref	SEE NOTES	dr	P S KUMAR	2009-07-04	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	W. J. SWAIN	2009-07-04	chr	W. J. SWAIN	2009-07-04	ecn no		
surface	✓	appr			product family	XCode	rel level	In Work		
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	FCI	MODULE ASSEMBLY	VERTICAL HEADER, 8-COLUMN, 4-PAIR	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 6 of 8	rev	3
angular	0° ±°	www.fci.com								

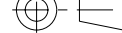
NOTES:

1. CONNECTOR MATERIALS
SHROUD: HIGH-TEMP THERMOPLASTIC, 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 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.
3. PRODUCT SPECIFICATION: GS-12-588 (PRELIMINARY)
4. APPLICATION SPECIFICATION: GS-20-121 (PRELIMINARY)
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.

PRELIMINARY

spec ref		SEE NOTES			dr	P S KUMAR	2009-07-04	projection	MM		size	A2	scale	4:1
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	W. J. SWAIN	2009-07-04		←	→	ecn no	rel level	In Work	
ASME Y14.5					chr	W. J. SWAIN	2009-07-04							
					appr									
								product family		XCede				
surface	√	linear	0.X	±0.2		title	MODULE ASSEMBLY	dwg no	10091777	rev	3			
			0.XX	±0.10										
			0.XXX	±0.050										
ASME Y14.5		angular	0°	±°	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw					sheet 8 of 8	