

10091767 - X 0 C - X 0 X L F

6-COLUMN DIFFERENTIAL SIGNAL

LEAD-FREE DESIGNATION ONLY WITH APPLICABLE PLATING CODES

LETTER	PEFORMANCE-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	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"]

	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

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

SEE NOTES

TOLERANCES UNLESS OTHERWISE SPECIFIED

dr

eng

chr

appr

W. J. SWAIN

W. J. SWAIN

W. J. SWAIN

2009-02-04

2009-02-04

2009-02-04

projection

MM

size

A2

scale

4:1

product family

XCede

rel level

In Work

surface

linear

0.X

±0.2

0.XX

±0.10

0.XXX

±0.050

angular

0°

±°

FCI

www.fci.com

title

MODULE ASSEMBLY

VERTICAL HEADER, 6-COLUMN, 4-PAIR

cat. no.

SEE P/N TREE

Product - Customer Drw

sheet 1 of 8

dwg no

10091767

rev

4

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										

FCI

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1

2

3

4

5

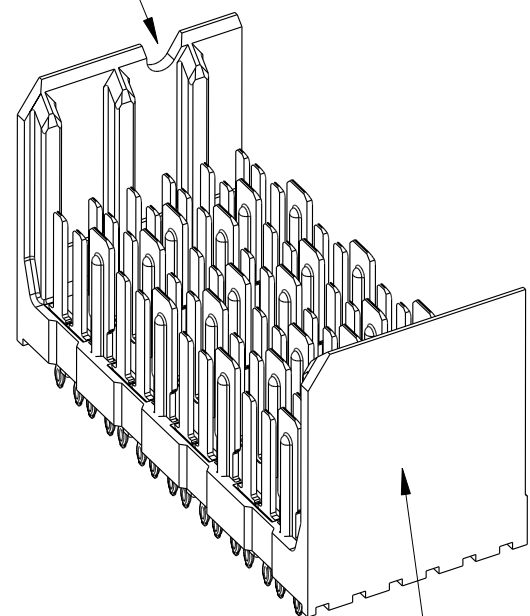
6

7

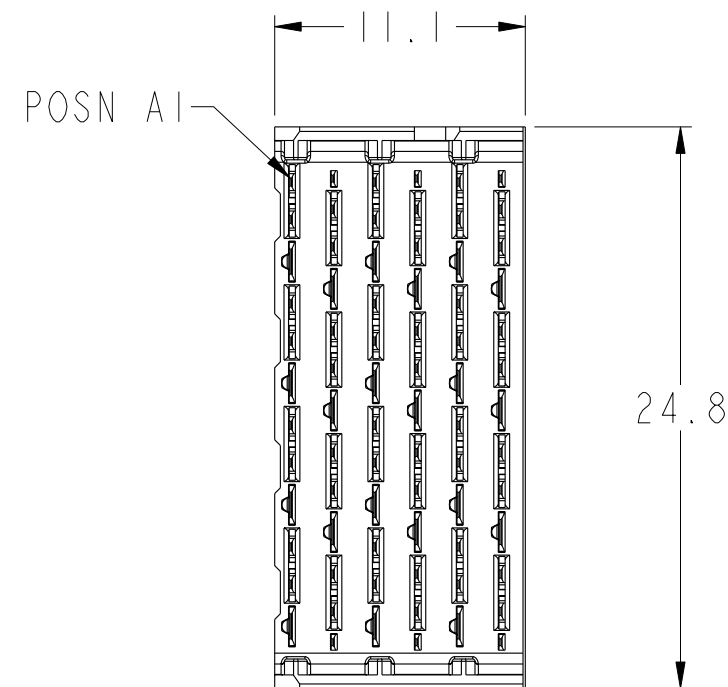
8

OPEN (2-WALL) MODULE

SEE NOTE 8



SEE NOTE 5



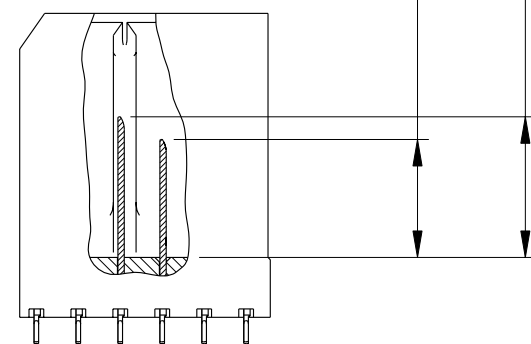
6.2 (WIDE GROUNDS)

5.2 (THIN END GROUNDS)

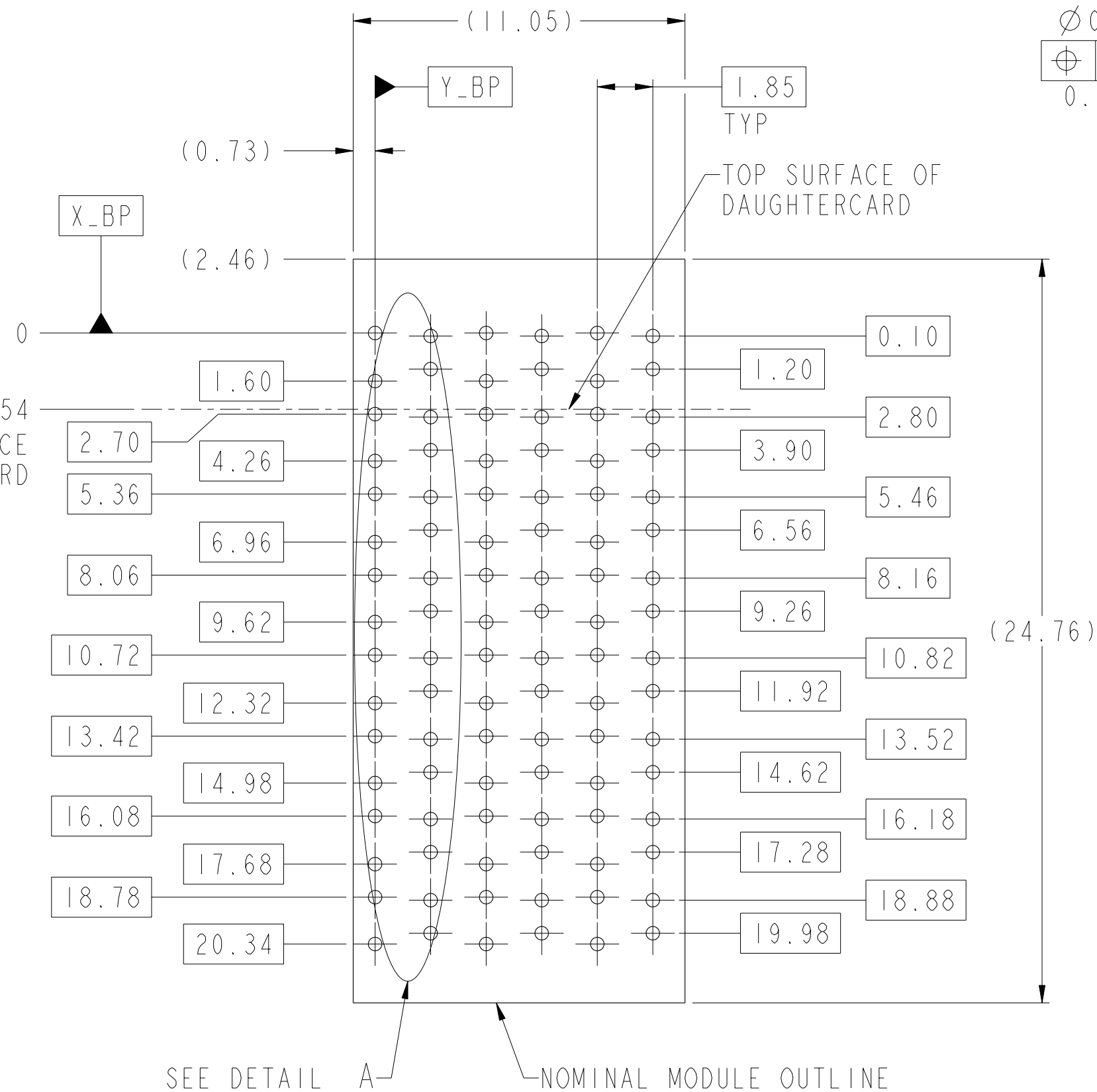
5.2 (3mm WIPE SIGNALS)

4.2 (2mm WIPE SIGNALS)

SEE P/N TREE



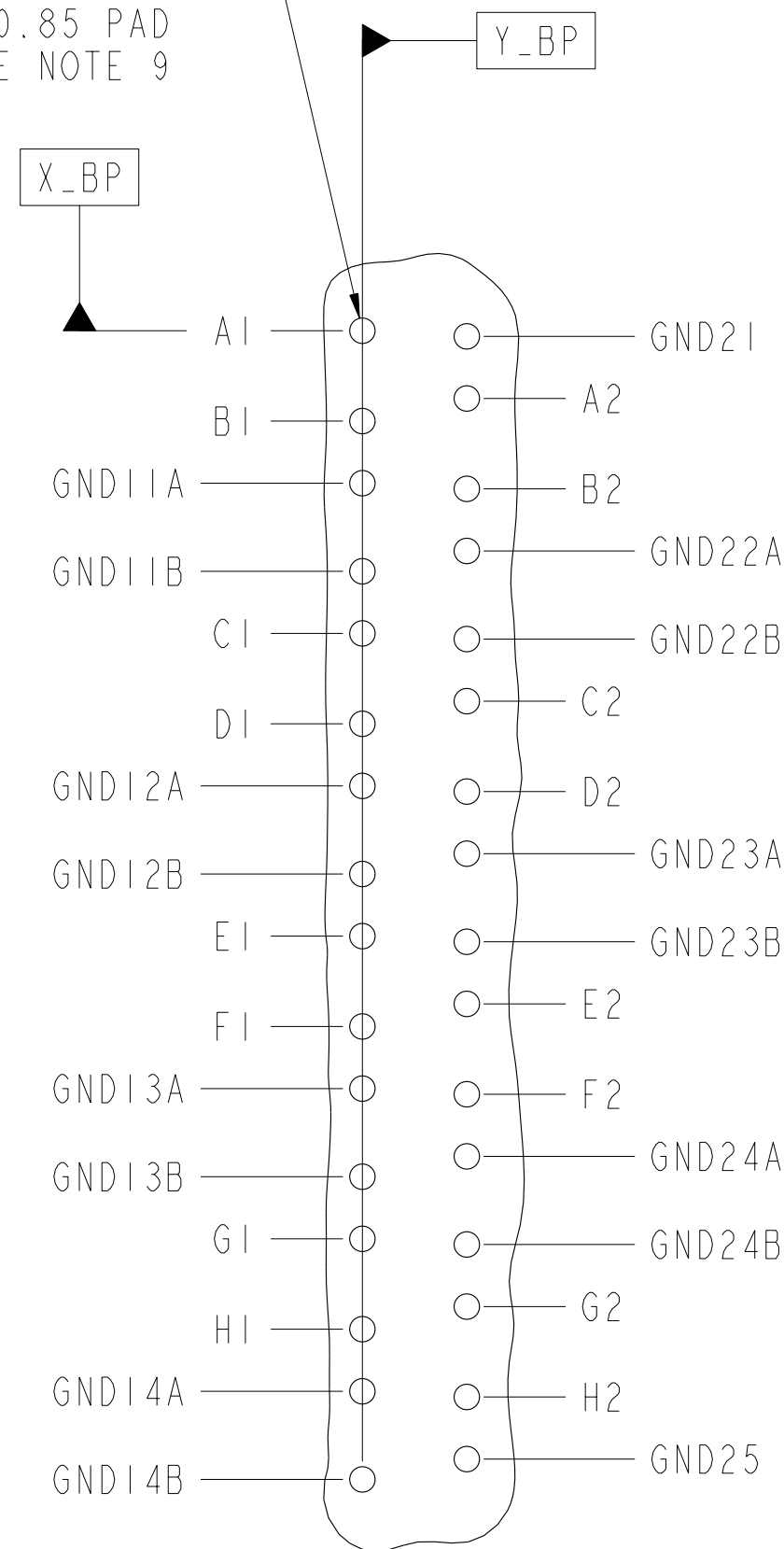
TO TOP SURFACE
OF DAUGHTERCARD



$\varnothing 0.45 \pm 0.05$ PTH TYP

$\varnothing$	0.10	A	Y_BP	X_BP
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 $0.55 [0.0217"]$ DRILL
 $\varnothing 0.85$ PAD
 SEE NOTE 9



DETAIL A
SCALE 8:1

spec ref		SEE NOTES		dr		W. J. SWAIN		2009-02-04		projection		MM		size		A2		scale		4:1					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		W. J. SWAIN		2009-02-04						ecn no		rel level		In Work							
ASME Y14.5				chr		W. J. SWAIN		2009-02-04						product family								XCede			
surface				appr						FCj		title		MODULE ASSEMBLY		dwg no		10091767		rev		4			
linear				0.X		±0.2		0.XX																±0.10	
				0.XXX		±0.050																			
ASME Y14.5		angular		0°		±0°		www.fcj.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 2 of 8									



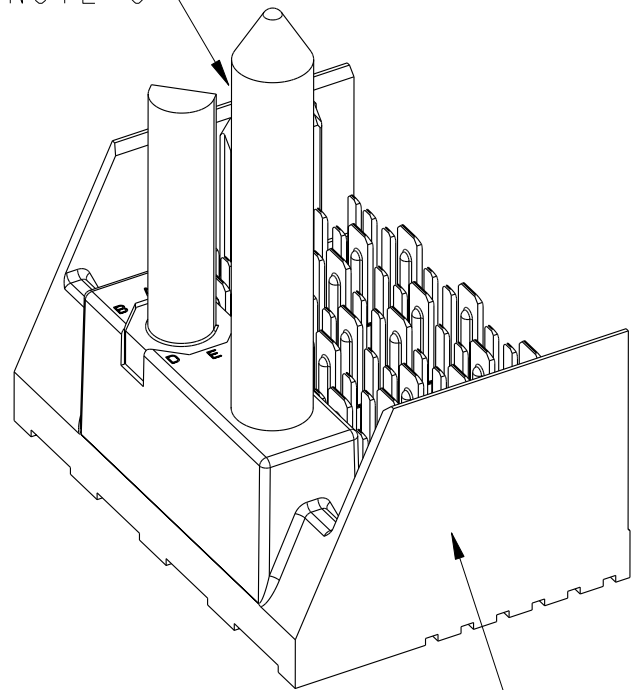
MODULE ASSEMBLY
VERTICAL HEADER, 6-COLUMN, 4-PAIR

cat. no. SEE P/N TREE
Product - Customer Drw
sheet 2 of 8

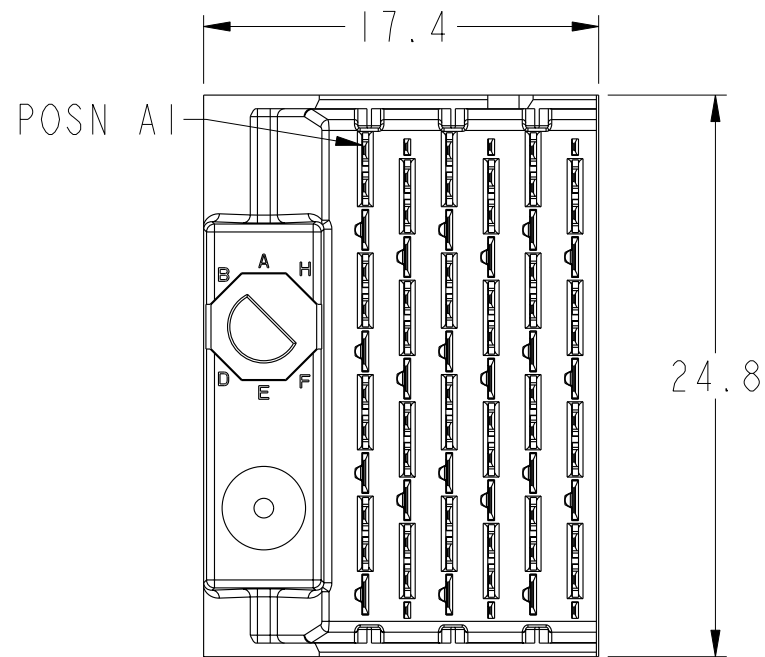
PRELIMINARY

LEFT POLARIZING/GUIDE MODULE

SEE NOTE 8



SEE NOTE 5



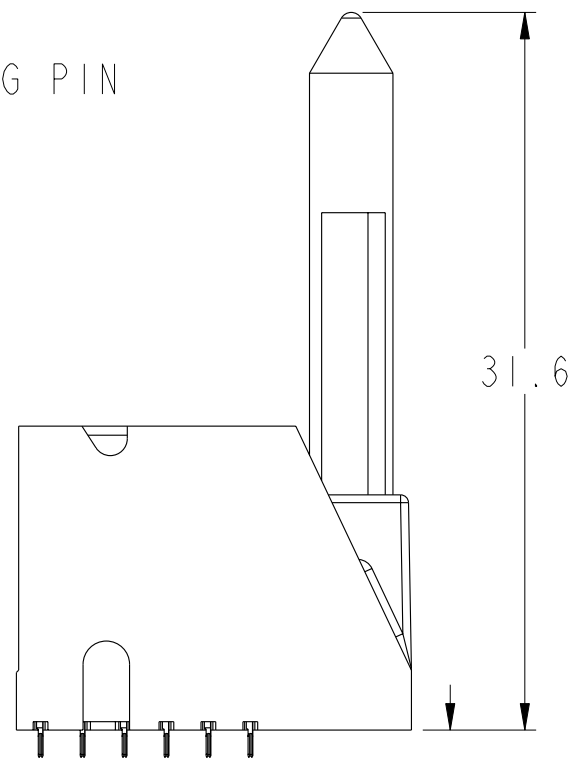
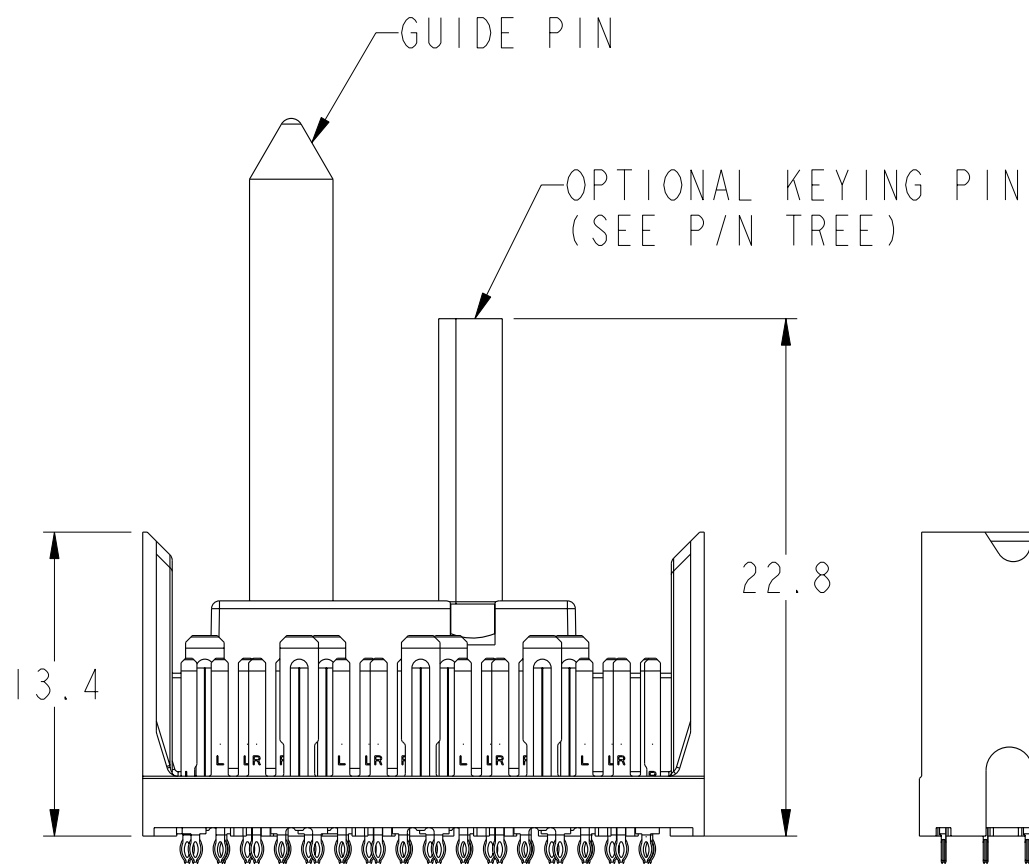
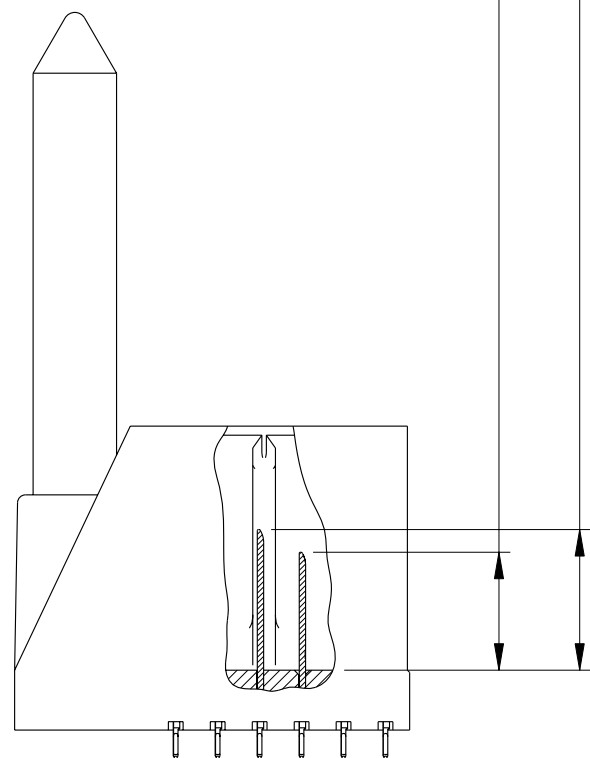
6.2 (WIDE GROUNDS)

5.2 (THIN END GROUNDS)

5.2 (3mm WIPE SIGNALS)

4.2 (2mm WIPE SIGNALS)

SEE P/N TREE



TO TOP SURFACE
OF DAUGHTERCARD

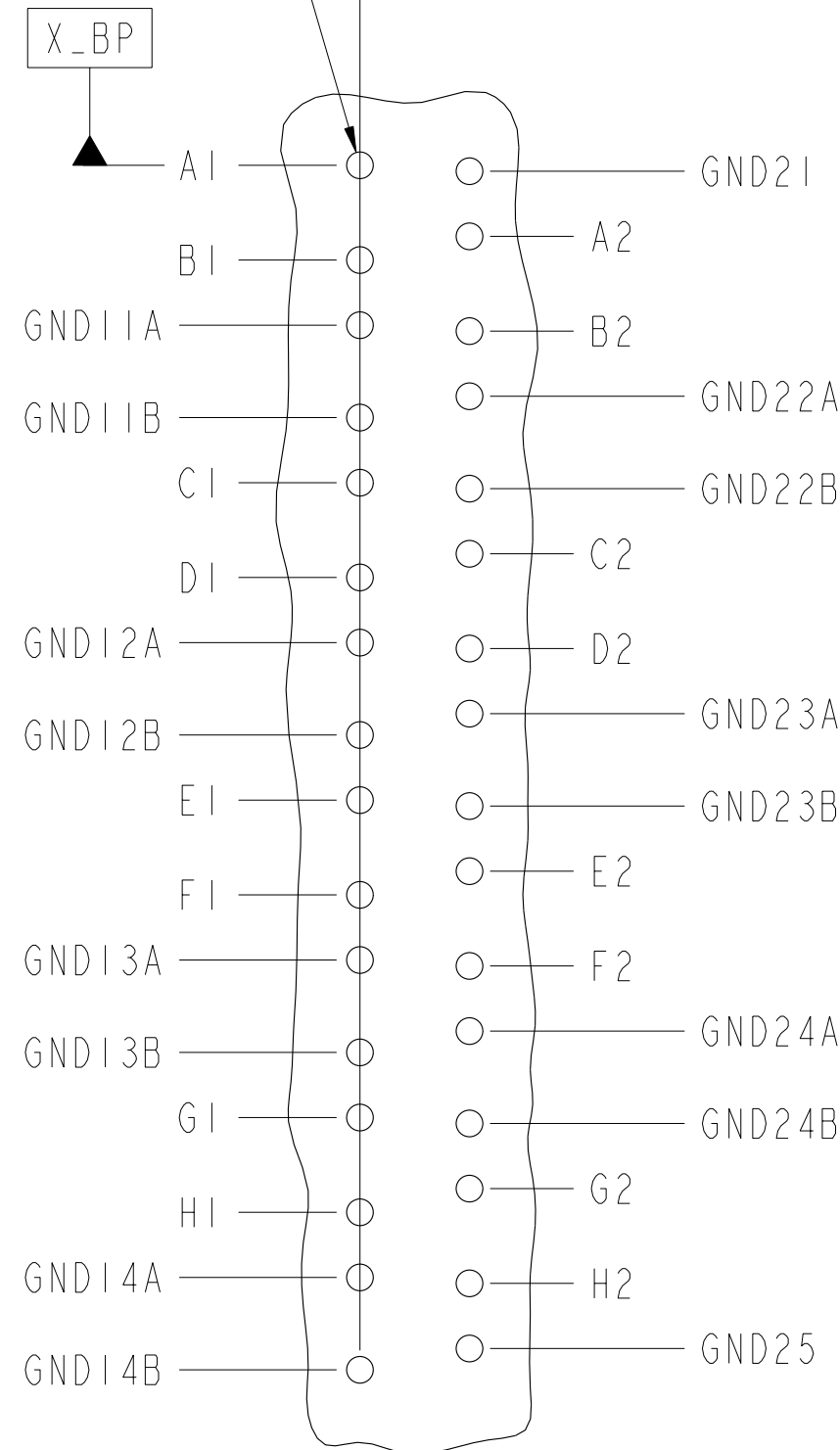
SEE NOTE 11 & TABLE 1

SEE DETAIL A

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

$\varnothing 0.45 \pm 0.05$ PTH TYP
 $\varnothing 0.10$ A Y_BP X_BP
0.55 [.0217"] DRILL
 $\varnothing 0.85$ PAD
SEE NOTE 9

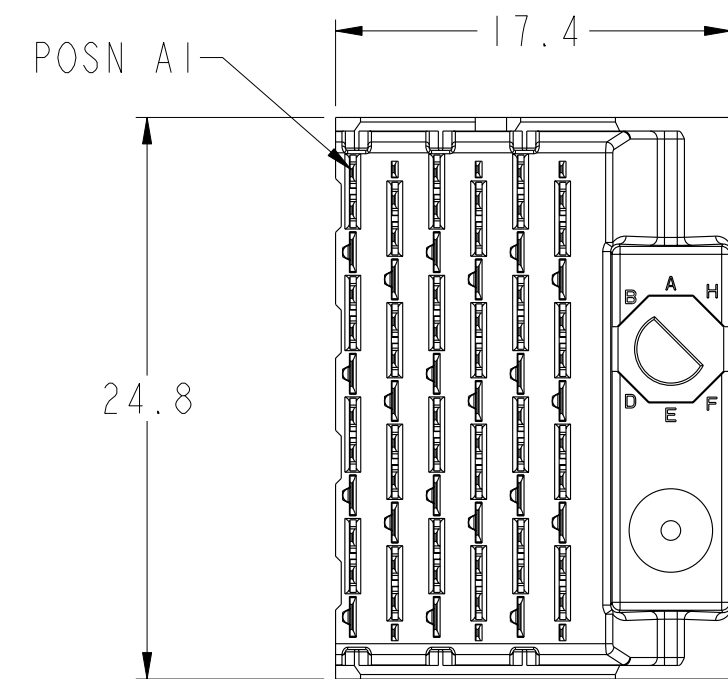
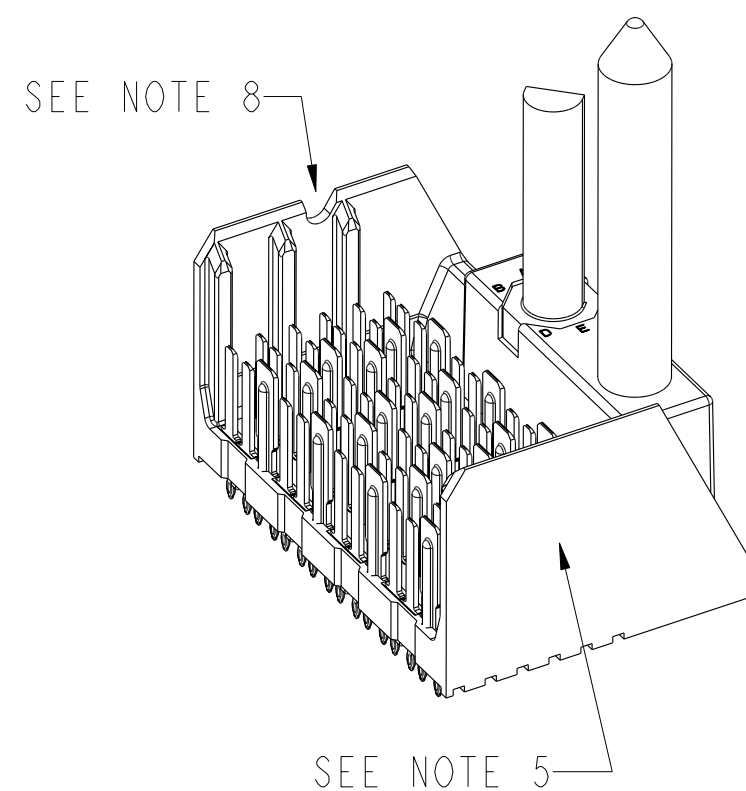


DETAIL A
SCALE 8:1

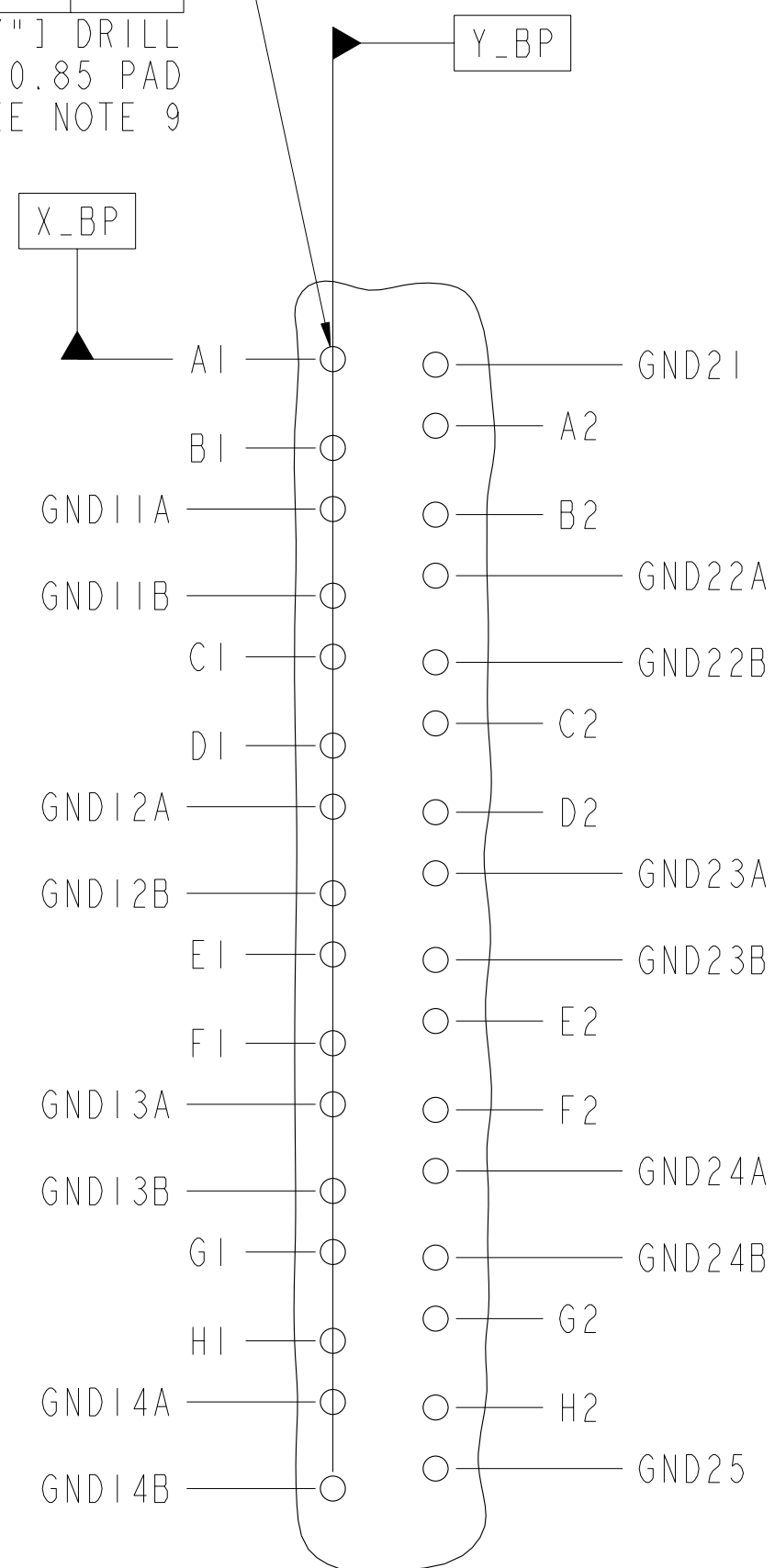
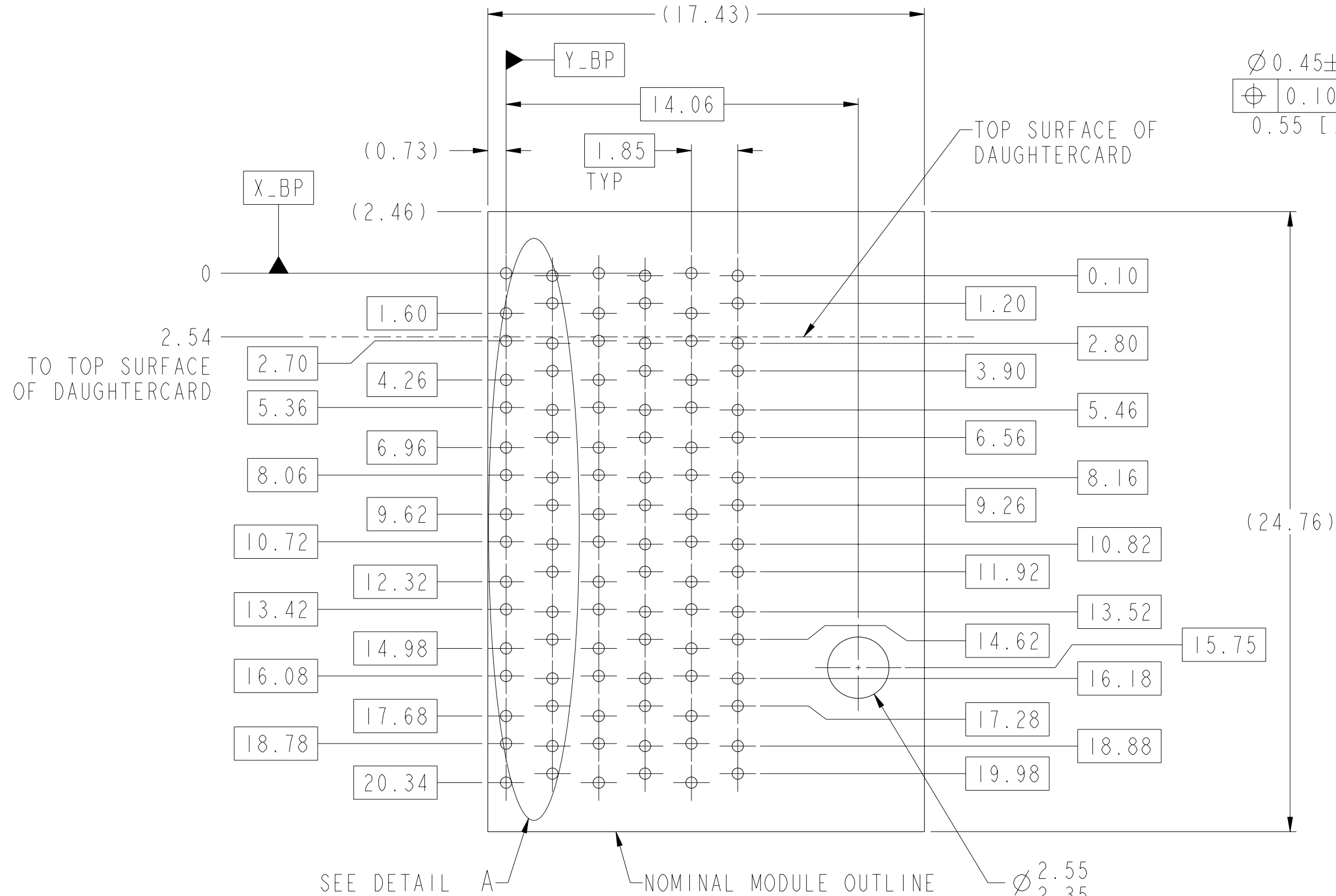
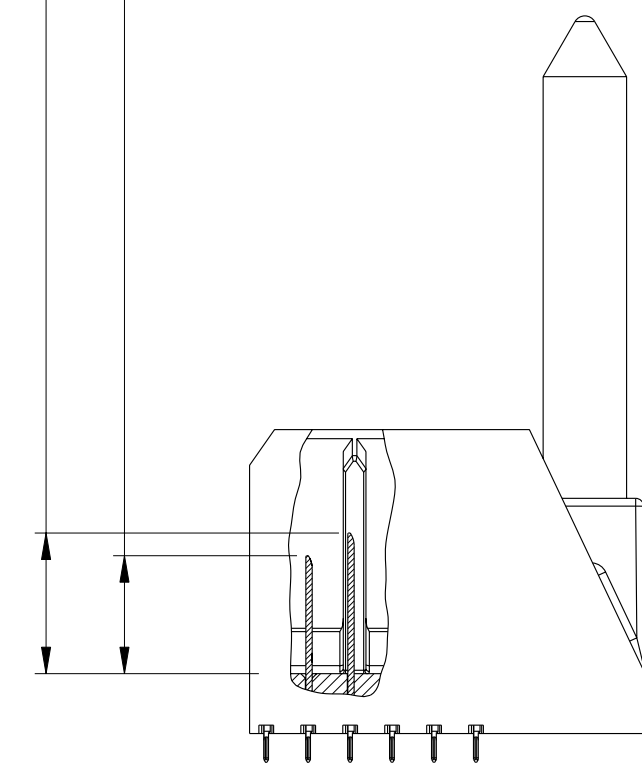
PRELIMINARY

spec ref	SEE NOTES	dr	W.J.SWAIN	2009-02-04	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	W.J.SWAIN	2009-02-04	chr	W.J.SWAIN	2009-02-04	ecn no		
ASME Y14.5		appr			product family	XCede	rel level	In Work		
surface	linear	0.X	± 0.2		FCI	MODULE ASSEMBLY	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 3 of 8
ASME Y14.5	angular	0.XX	± 0.10			VERTICAL HEADER, 6-COLUMN, 4-PAIR				
		0.XXX	± 0.050							
		0°	$\pm^\circ$							

RIGHT 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



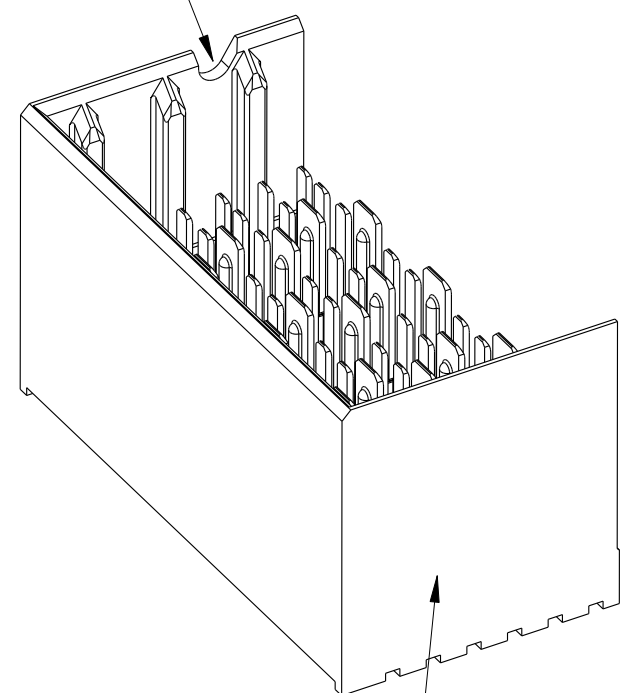
DETAIL A
SCALE 8:1

spec ref	SEE NOTES	dr	W.J.SWAIN	2009-02-04	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	W.J.SWAIN	2009-02-04	chr	W.J.SWAIN	2009-02-04	ecn no		
ASME Y14.5		appr			product family	XCede	rel level	In Work		
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5		FCI	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 4 of 8	rev	4	

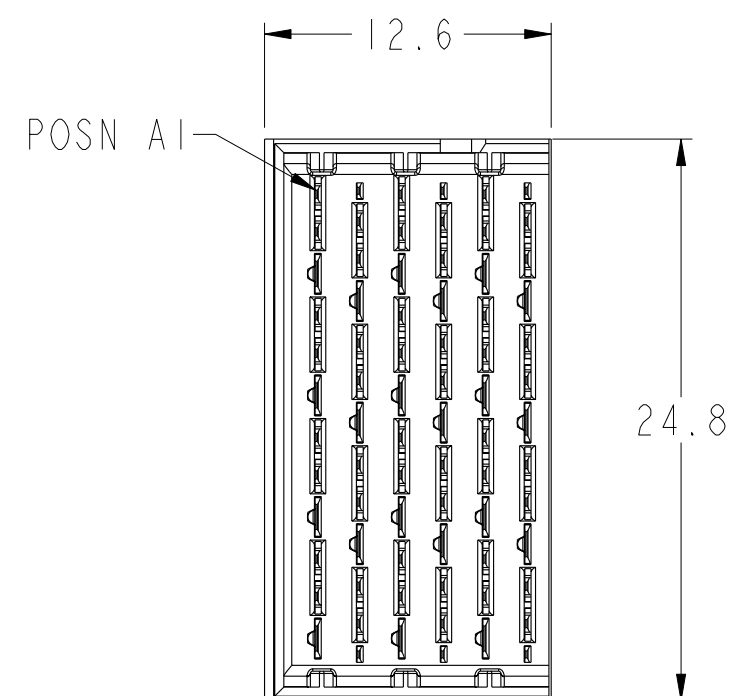
PRELIMINARY

LEFT WALL MODULE

SEE NOTE 8



SEE NOTE 5



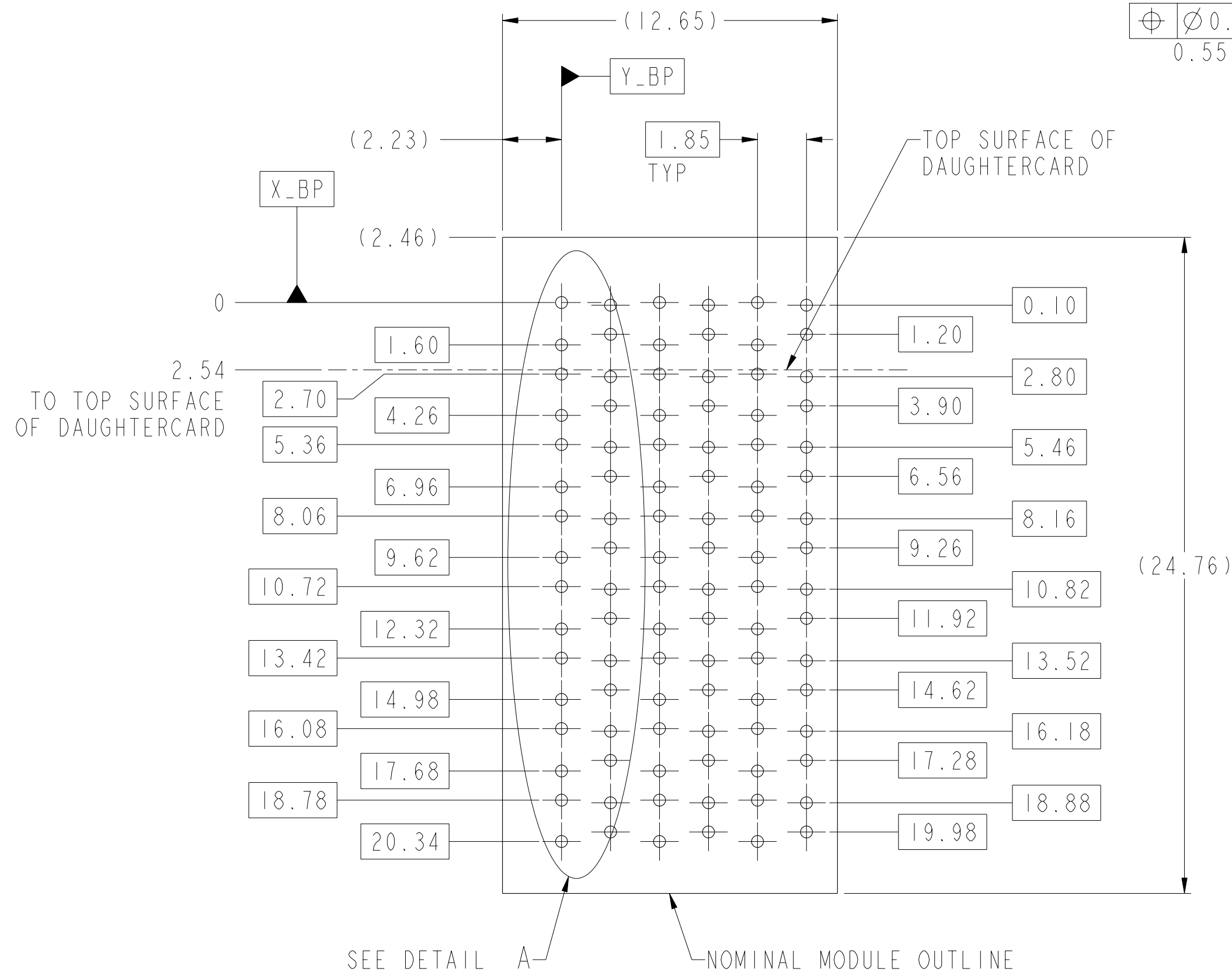
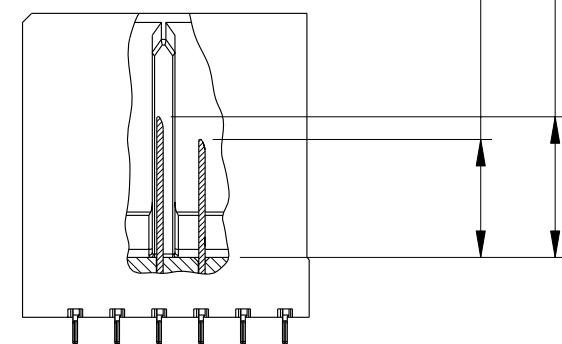
6.2 (WIDE GROUNDS)

5.2 (THIN END GROUNDS)

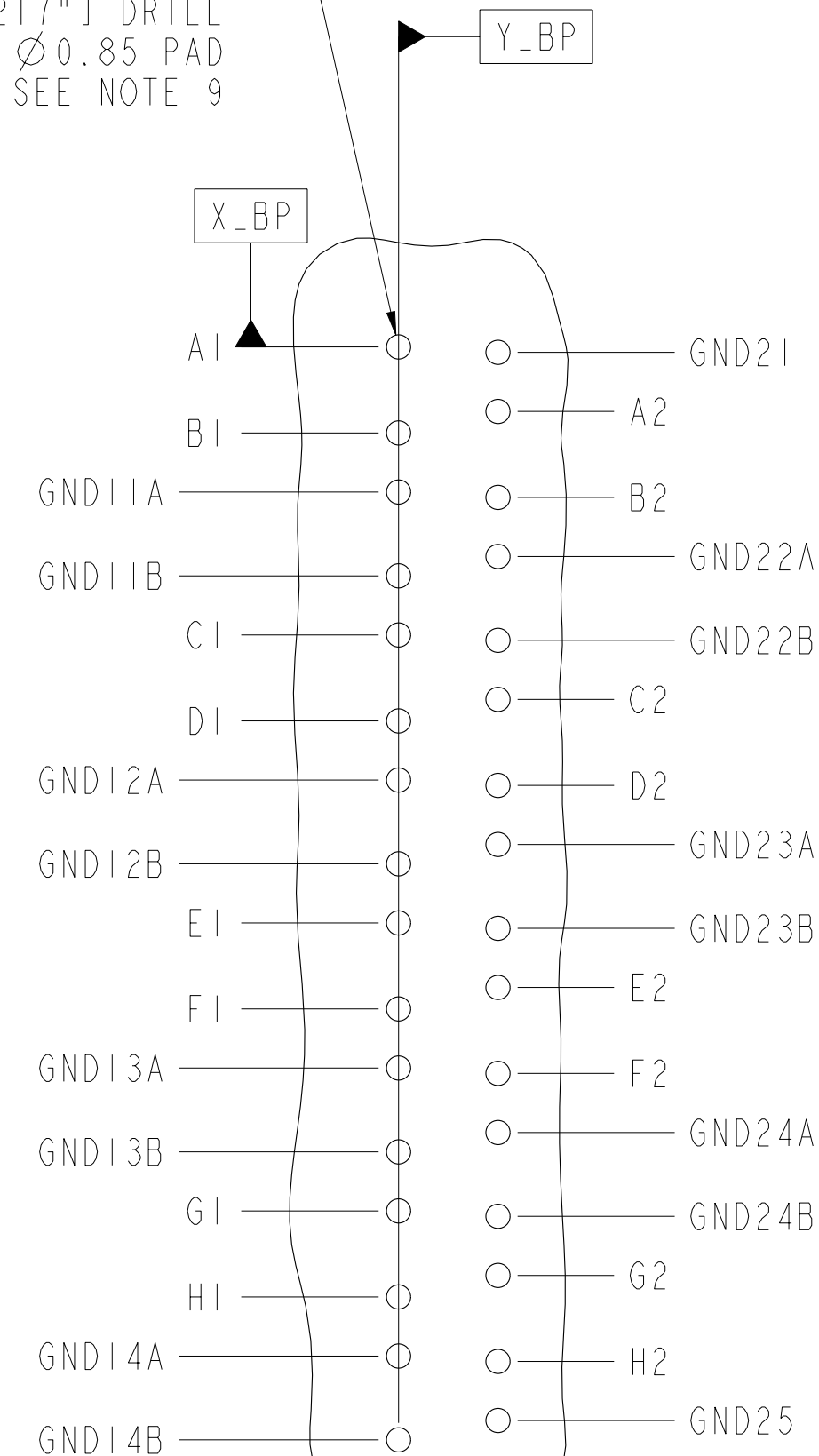
5.2 (3mm WIPE SIGNALS)

4.2 (2mm WIPE SIGNALS)

SEE P/N TREE

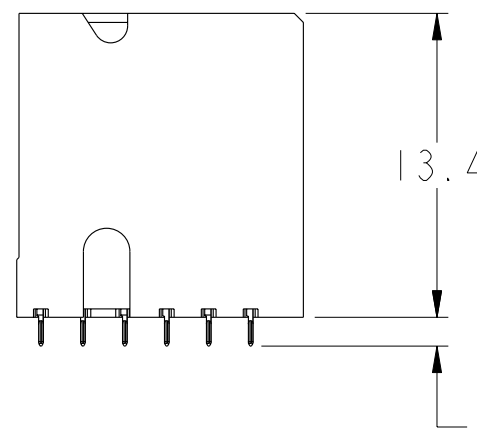
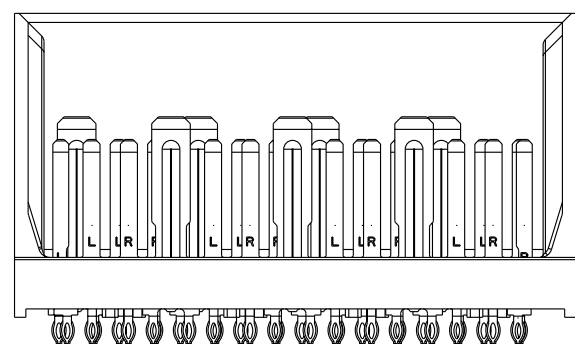


$\varnothing 0.45 \pm 0.05$ PTH TYP
 $\varnothing 0.10$ A Y_BP X_BP
 0.55 [0.0217"] DRILL
 $\varnothing 0.85$ PAD
 SEE NOTE 9



DETAIL A
SCALE 8:1

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

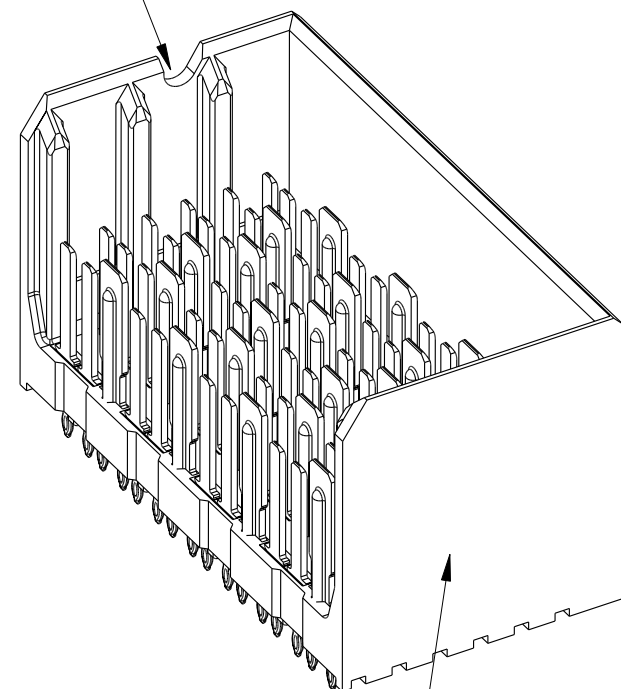


spec ref	SEE NOTES	dr	W. J. SWAIN	2009-02-04	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	W. J. SWAIN	2009-02-04	chr	W. J. SWAIN	2009-02-04	ecn no		
surface	✓	appr			product family	XCede	rel level	In Work		
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	angular	0° ±0°		cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 5 of 8		
title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 4-PAIR	dwg no	10091767	rev	4					

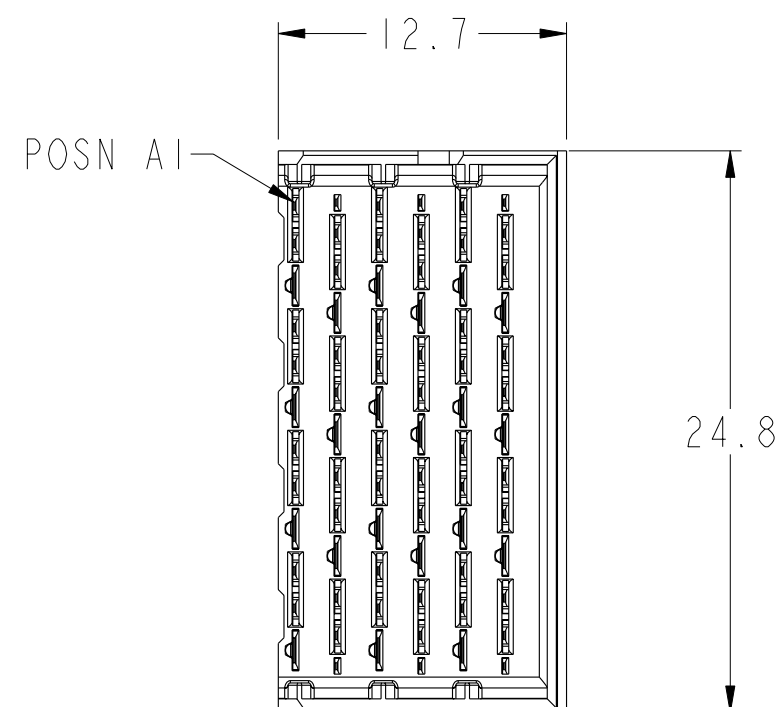
PRELIMINARY

RIGHT WALL MODULE

SEE NOTE 8

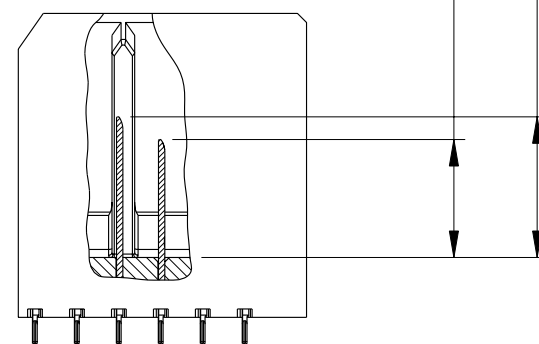


SEE NOTE 5

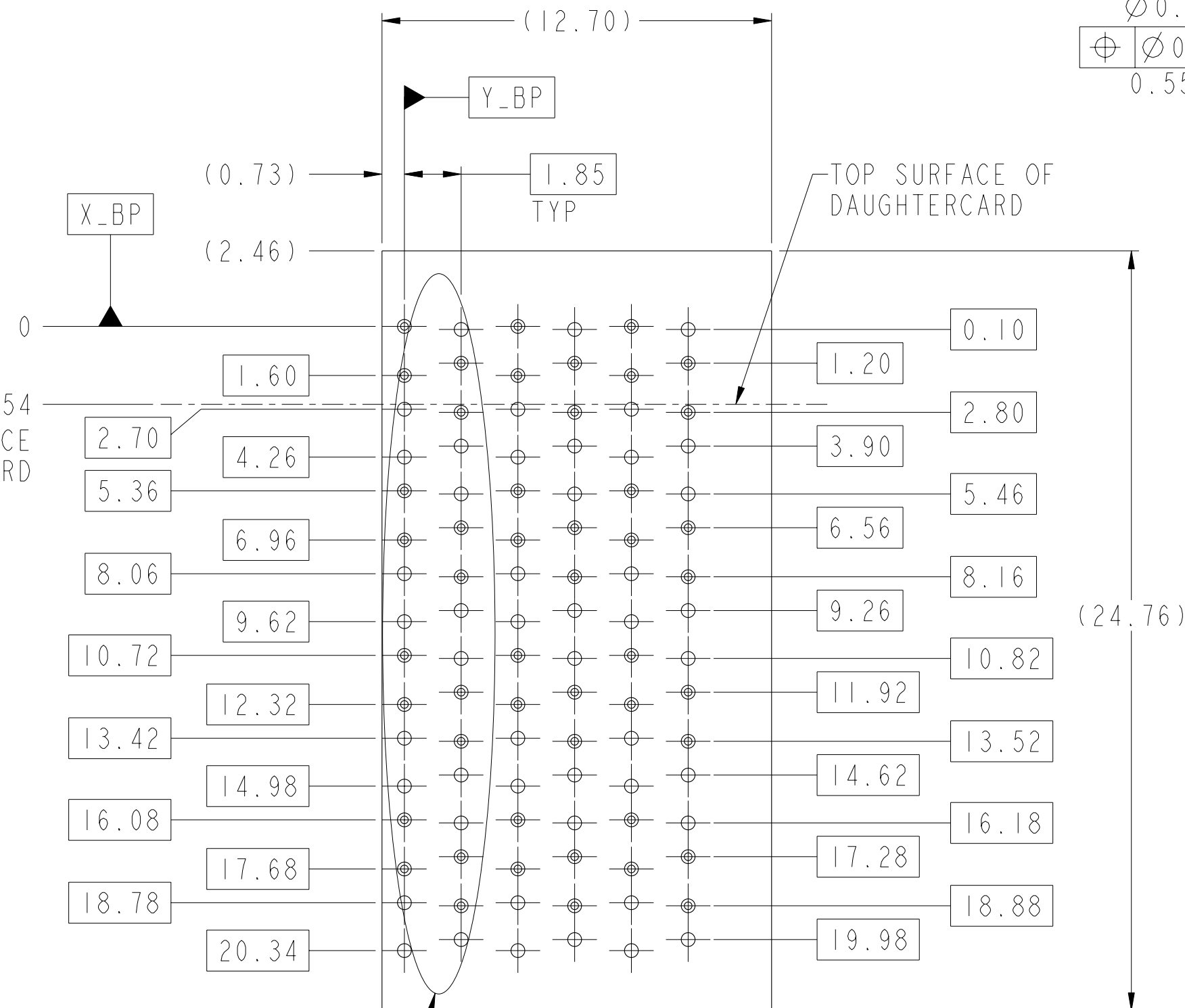


6.2 (WIDE GROUNDS)

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



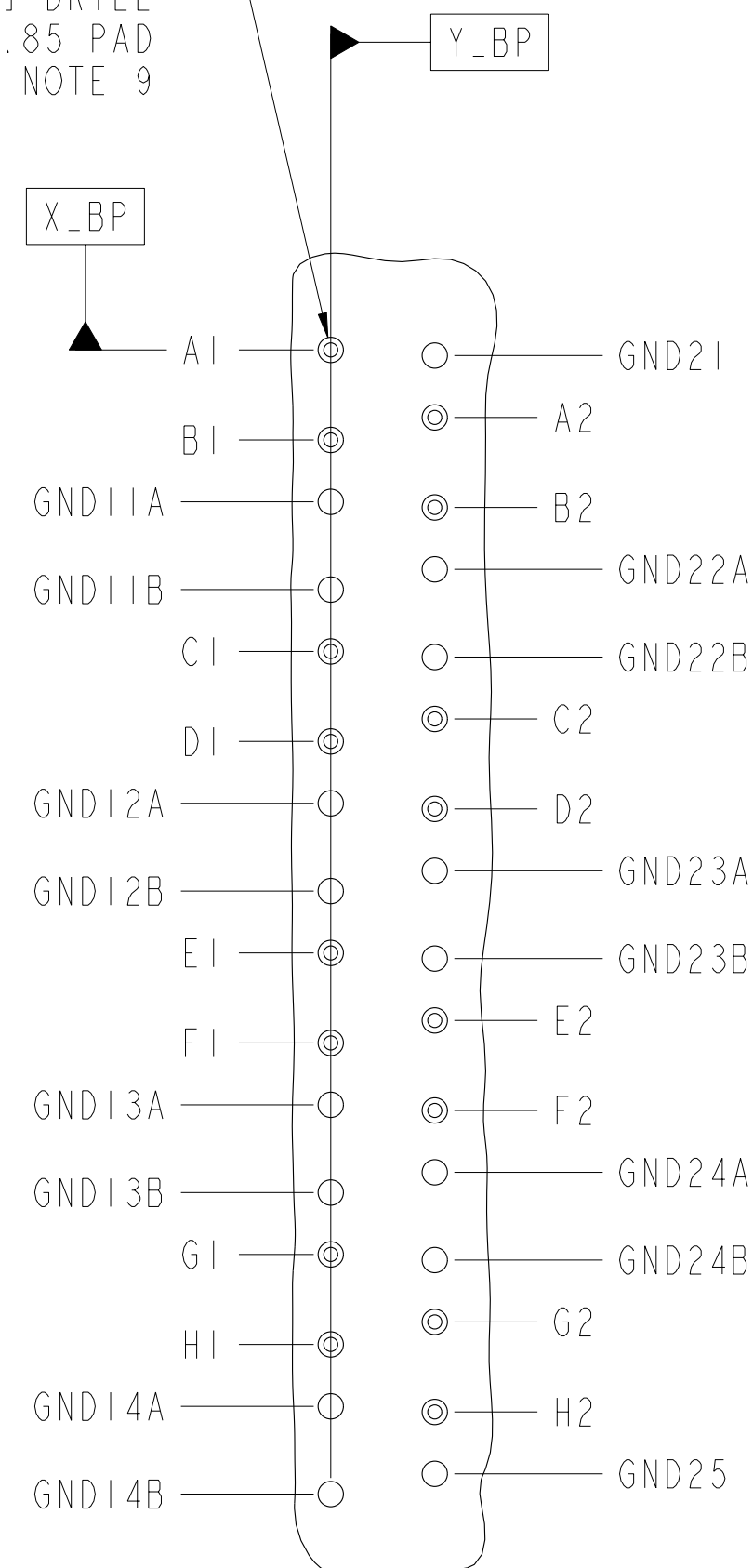
TO TOP SURFACE
OF DAUGHTERCARD



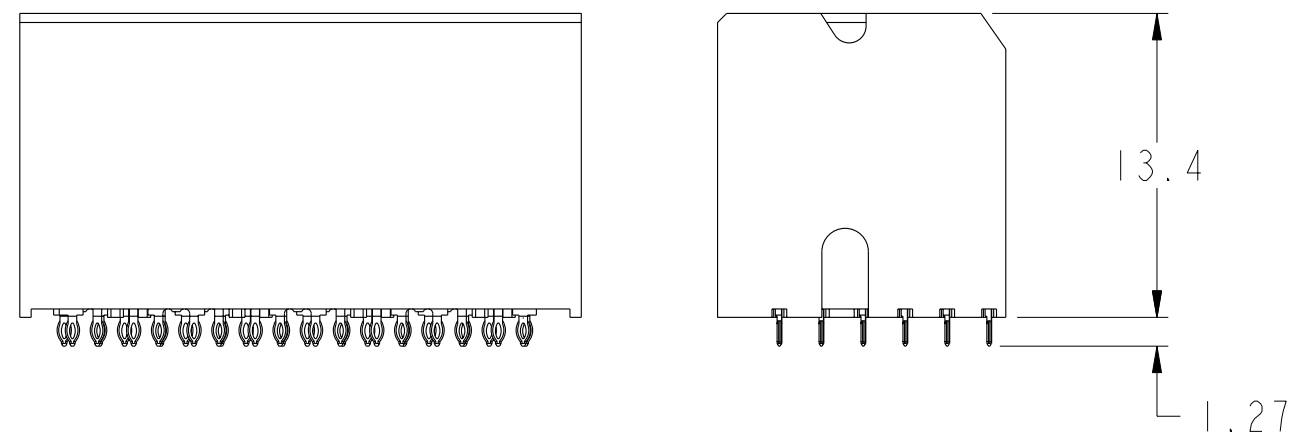
SEE DETAIL A

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



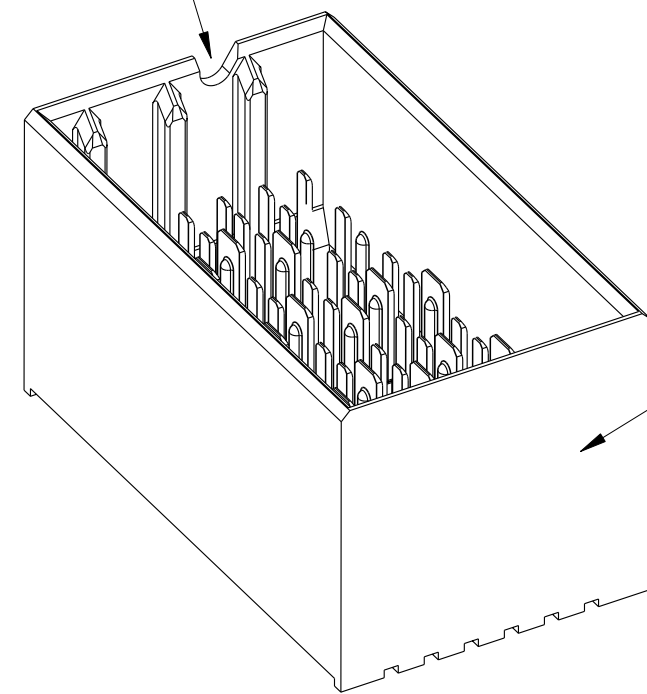
DETAIL A
SCALE 8:1



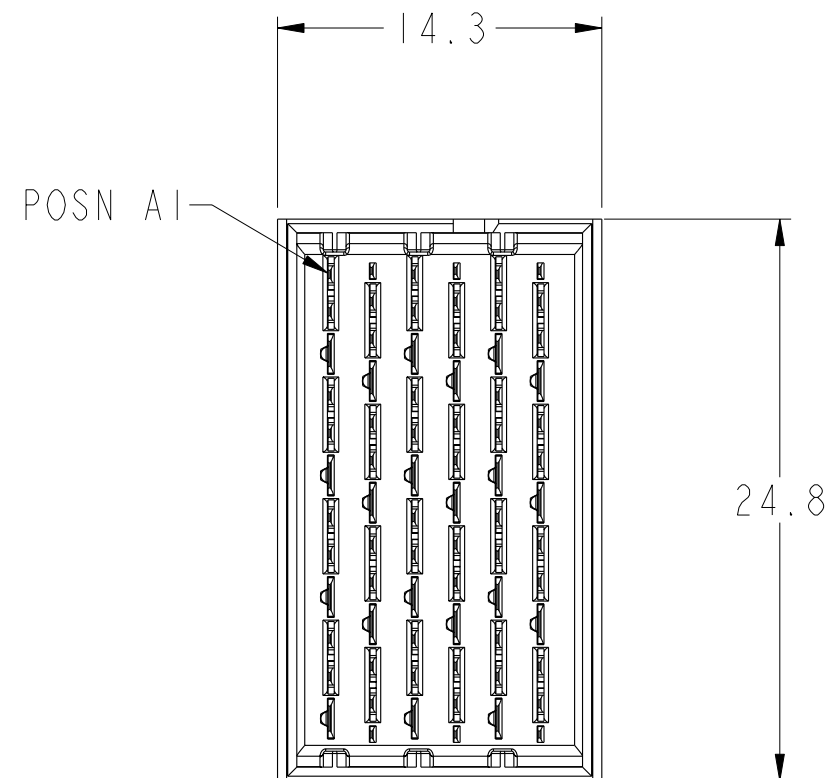
spec ref		SEE NOTES		dr		W.J.SWAIN		2009-02-04		projection		MM		size		scale	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		W.J.SWAIN		2009-02-04						A2		4:1	
ASME Y14.5				chr		W.J.SWAIN		2009-02-04						ecn no			
				appr						product family		XCede		rel level		In Work	
surface		✓		linear				title		MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 4-PAIR		dwg no		10091767		rev	
		0.X		±0.2													
		0.XX		±0.10													
ASME Y14.5		angular		0°		±°		www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 6 of 8	

PRELIMINARY

4-WALL MODULE



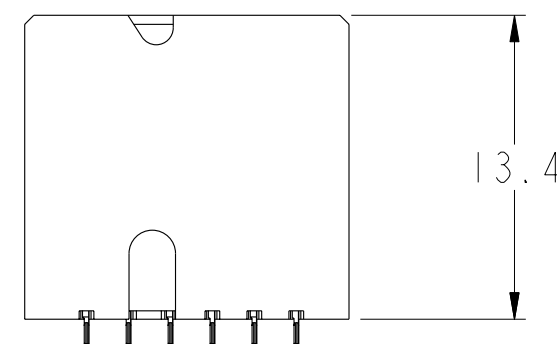
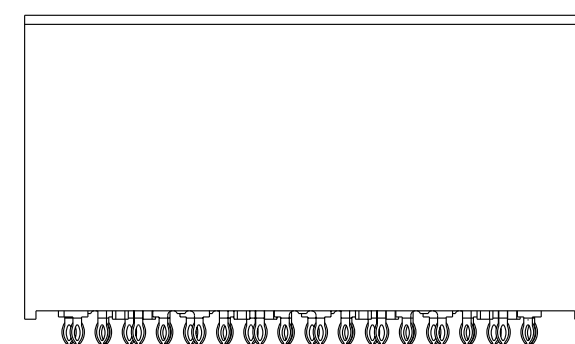
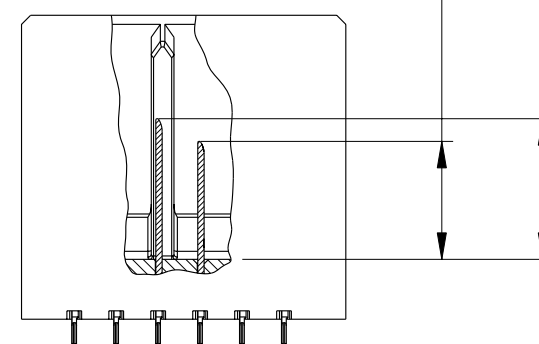
-SEE NOTE 5



2.54
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

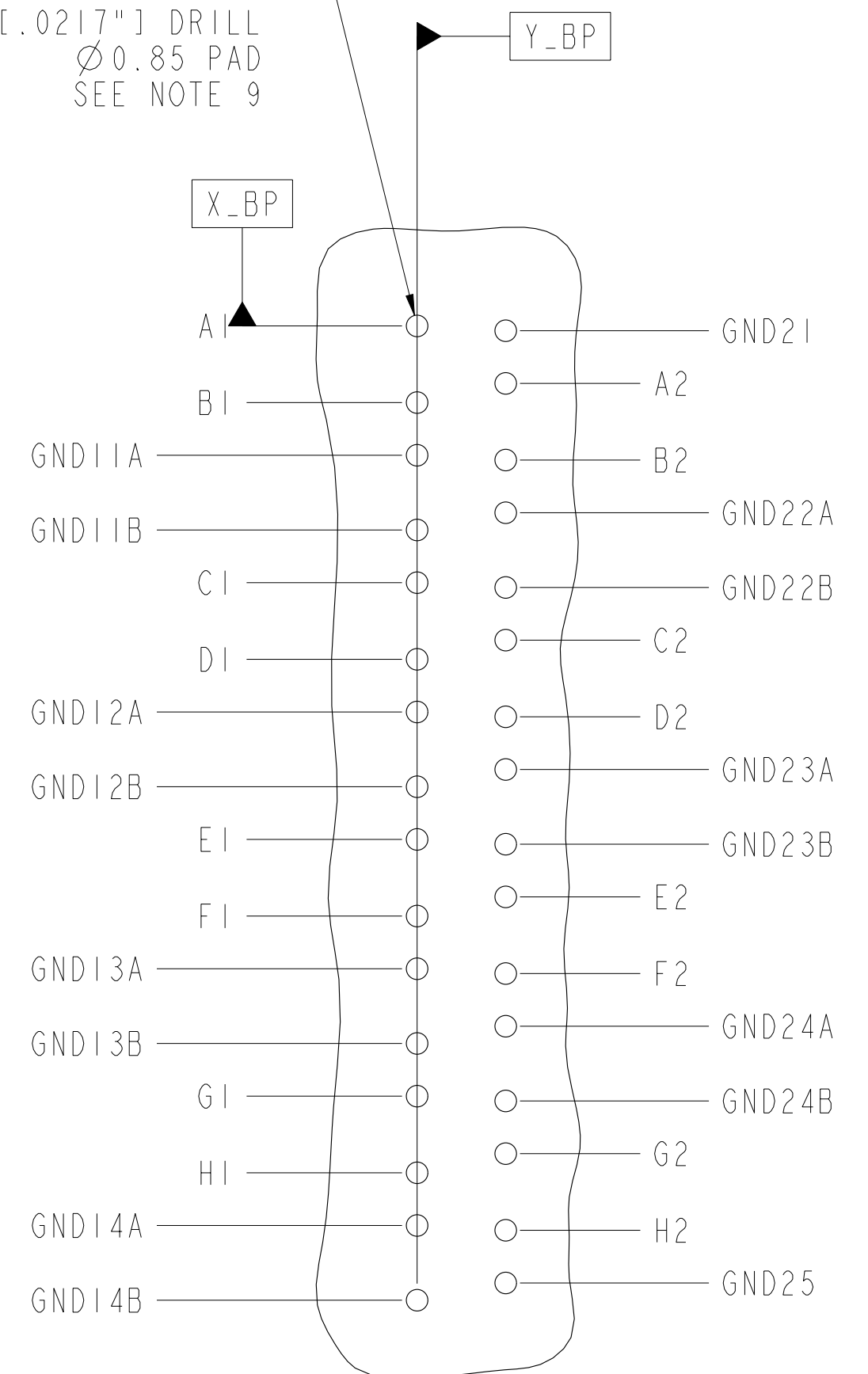


SEE DETAIL

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

$\varnothing 0.45 \pm 0.05$ PTH TYP
 0.55 [.0217"] DRILL
 $\varnothing 0.85$ PAD
 SEE NOTE 9



DETAIL A
SCALE 8:1

PRELIMINARY

spec ref		SEE NOTES				dr	W. J. SWAIN	2009-02-04	projection		MM		size	A2	scale	3:1
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	W. J. SWAIN	2009-02-04		product family	XCode	rel level	In Work			
ASME Y14.5						chr	W. J. SWAIN	2009-02-04					ecn no			
			appr													
surface			linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 4-PAIR				dwg no	10091767		rev	4
				0.XX	±0.10											
ASME Y14.5				0.XXX	±0.050											
		angular	0°	±0°		cat. no.	SEE P/N TREE	Product-	Customer	Drw	sheet 7 of 8					

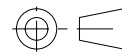
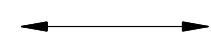
NOTES:

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		W.J.SWAIN		2009-02-04		projection		MM		size		A2		scale		4:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		W.J.SWAIN		2009-02-04						ecn no		rel level		In Work				
ASME Y14.5					chr		W.J.SWAIN		2009-02-04														
					appr																		
											product family		XCede										
surface				linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10091767		rev		4	
						0.XX		±0.10															
ASME Y14.5				angular		0°		±°															
					www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw				sheet 8 of 8								