

1 0 0 9 | 7 6 7 - X 0 C - X X X L F

6-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

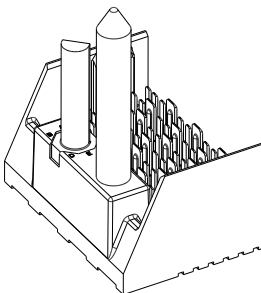
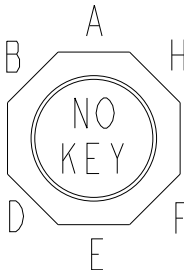
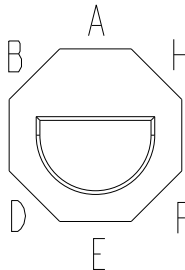
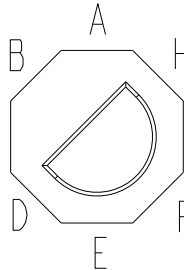
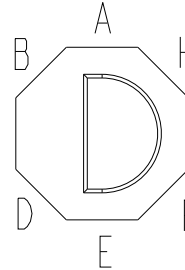
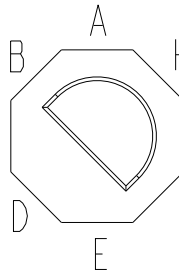
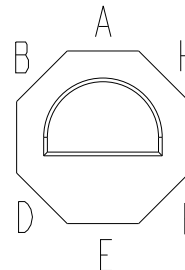
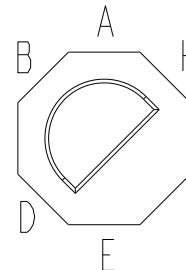
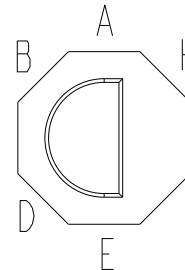
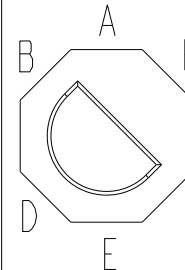
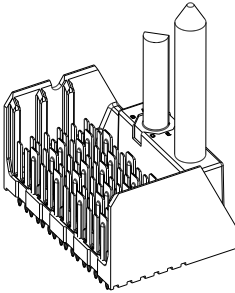
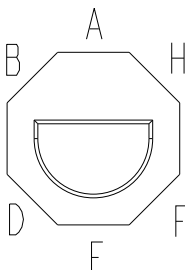
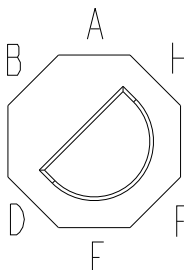
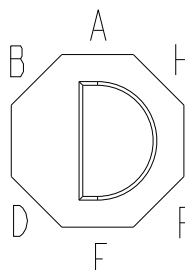
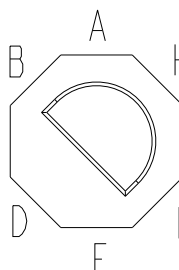
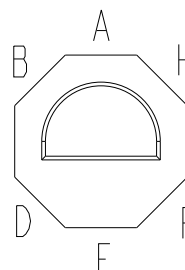
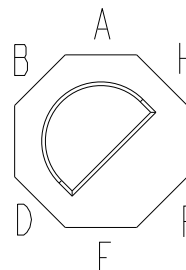
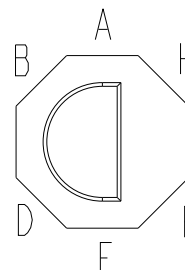
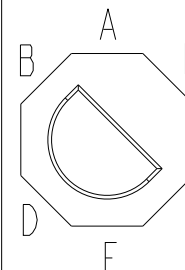
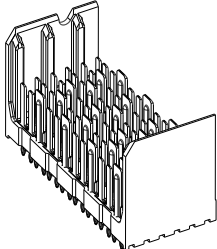
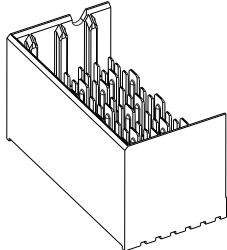
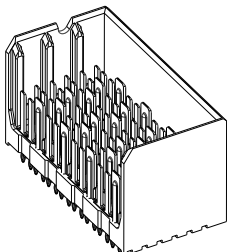
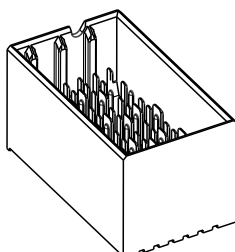
PIN STYLE, HEIGHT

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

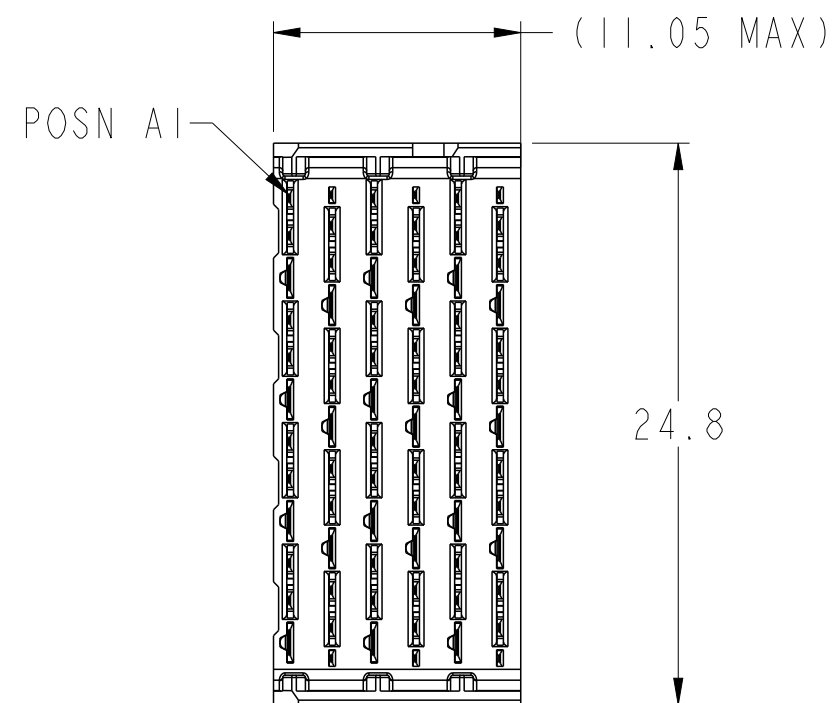
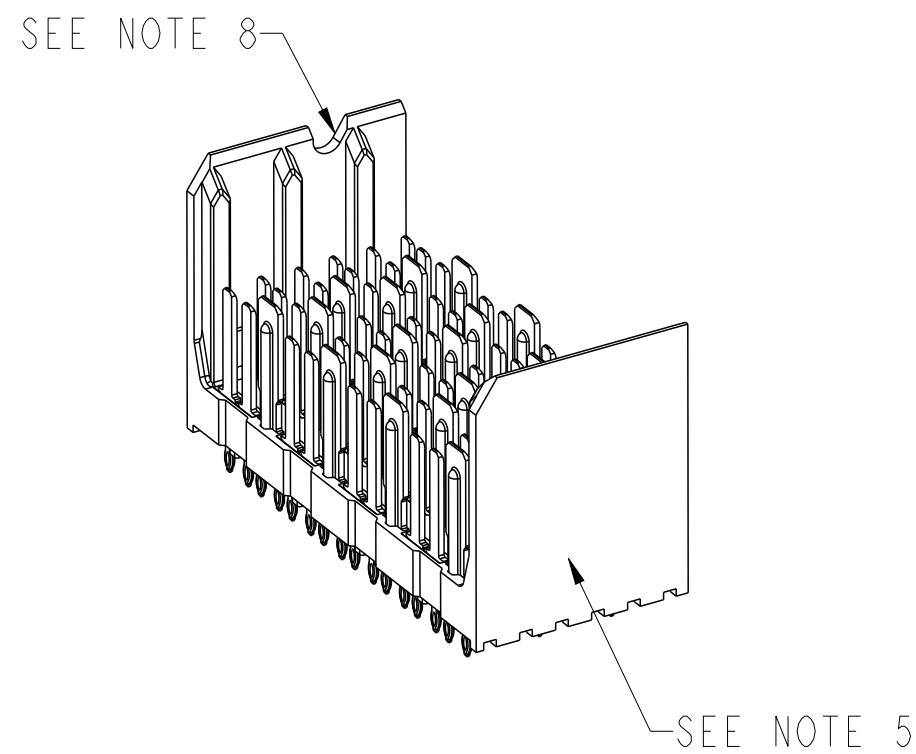
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Sandar Soe		2015/06/29						ecn no		ELX-S-21214-1						
ASME Y14.5					chr		-		-						product family		XCede						
		appr		Chen-Hong Tan		2015/09/30		Released															
surface		linear		0.X		±0.2				title		MODULE ASSEMBLY											
				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 1 of 8						
																10091767							
																F							

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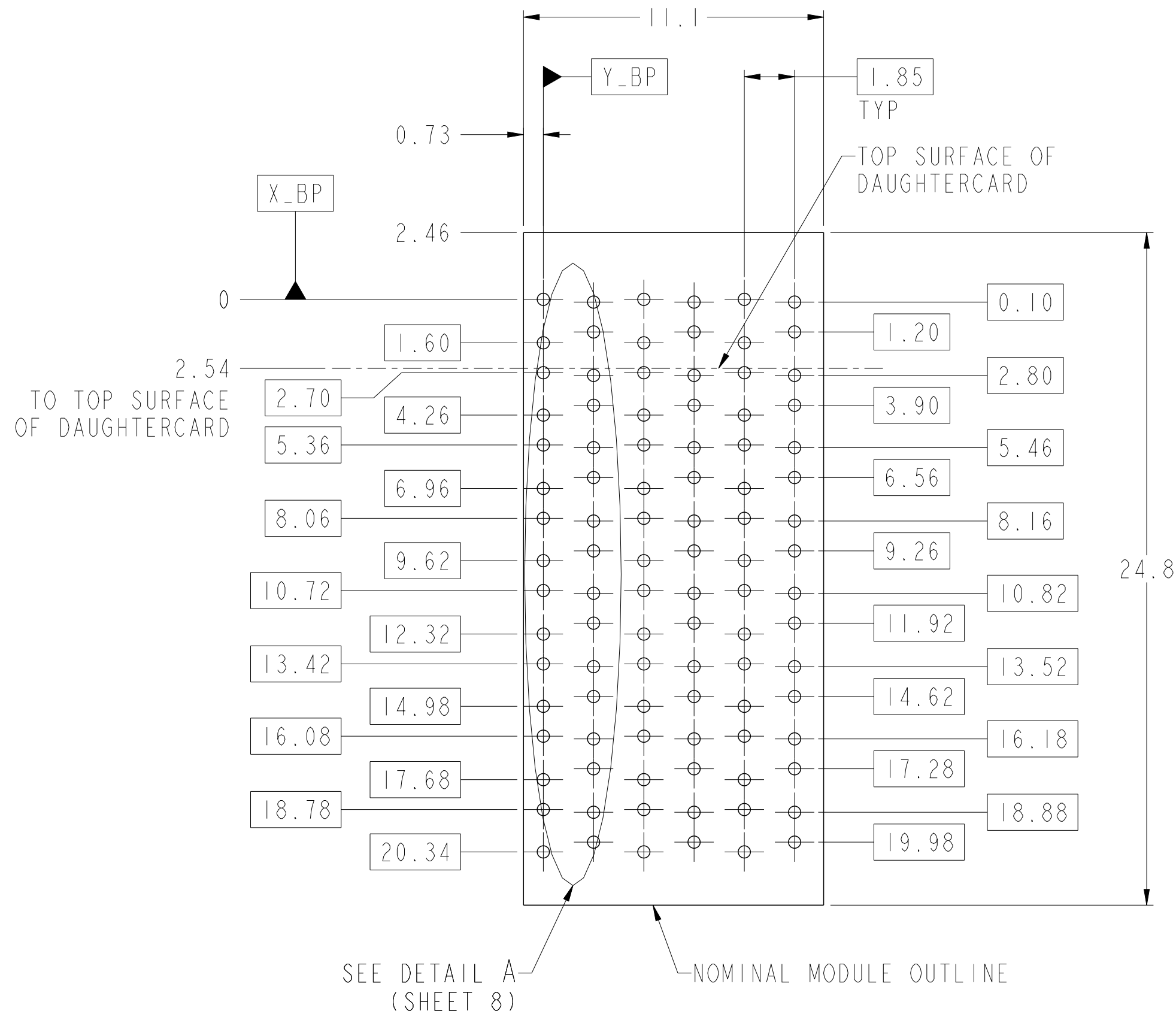
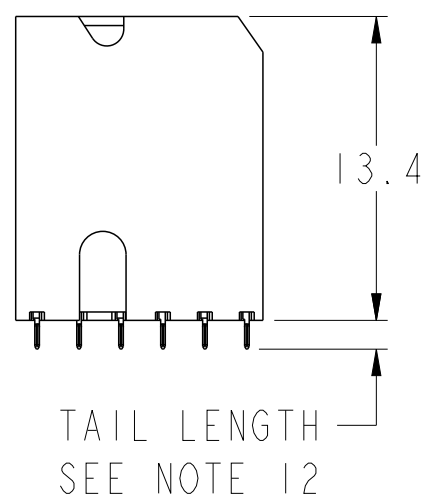
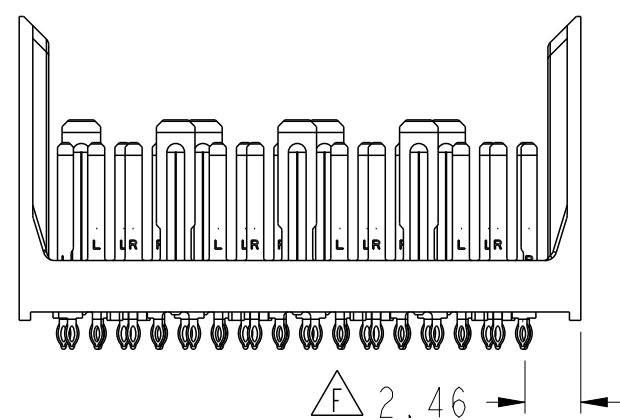
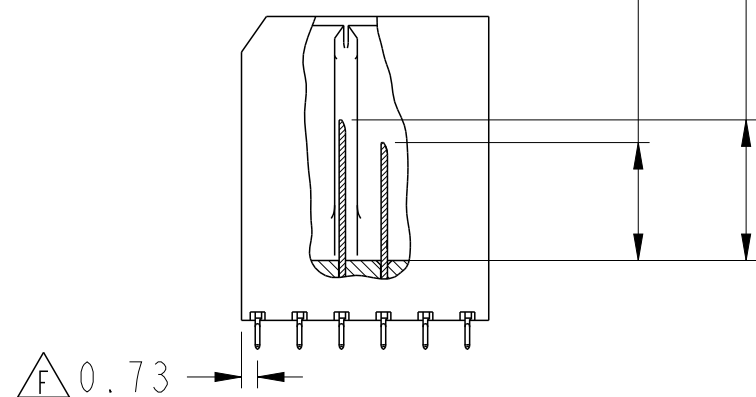
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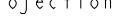
Printed: Sep 30, 2015

OPEN (2-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



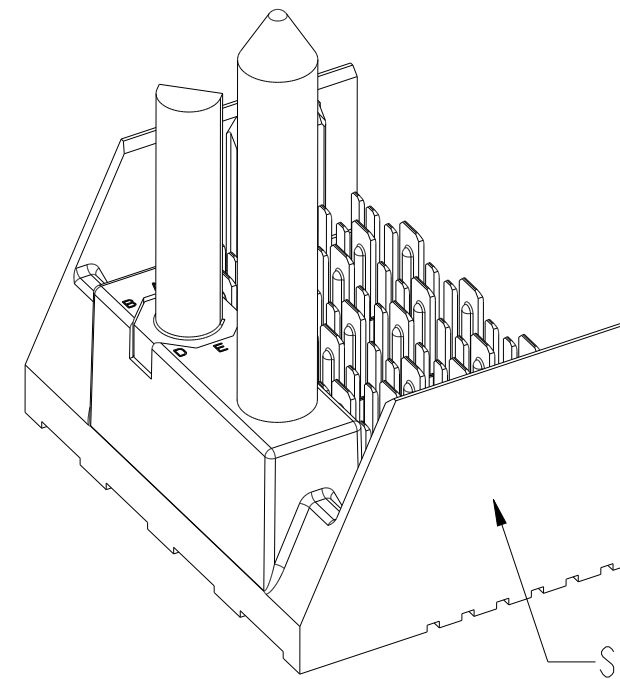
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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2015/06/29			ecn no	ELX-S-21214-1				
ASME Y14.5			chr	-	-			product family	XCede				
			appr	Chen-Hong Tan	2015/09/30			rel level	Released				
surface 	linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 4-PAIR			dwg no	10091767		rev	F
		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 2 of 8			

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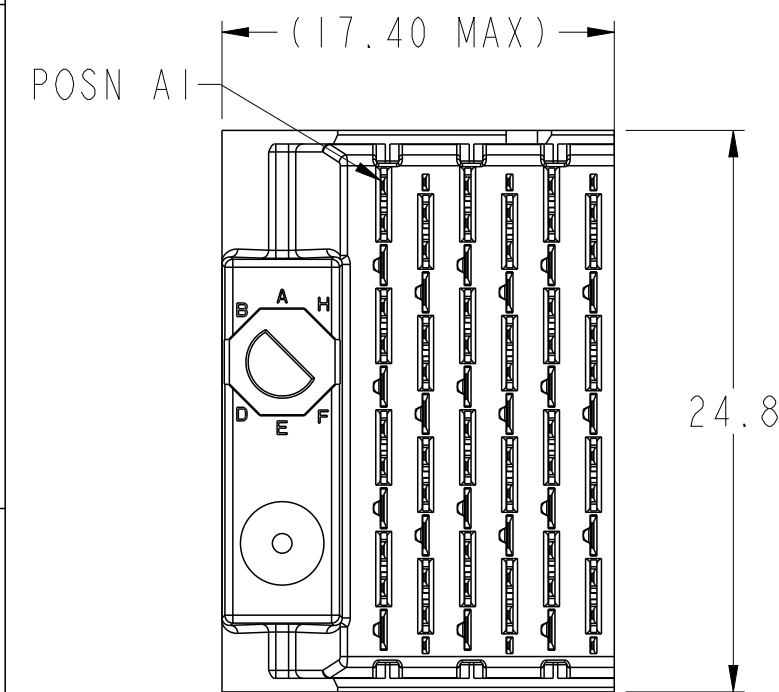
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Printed: Sep 30, 2015

LEFT POLARIZING/GUIDE MODULE



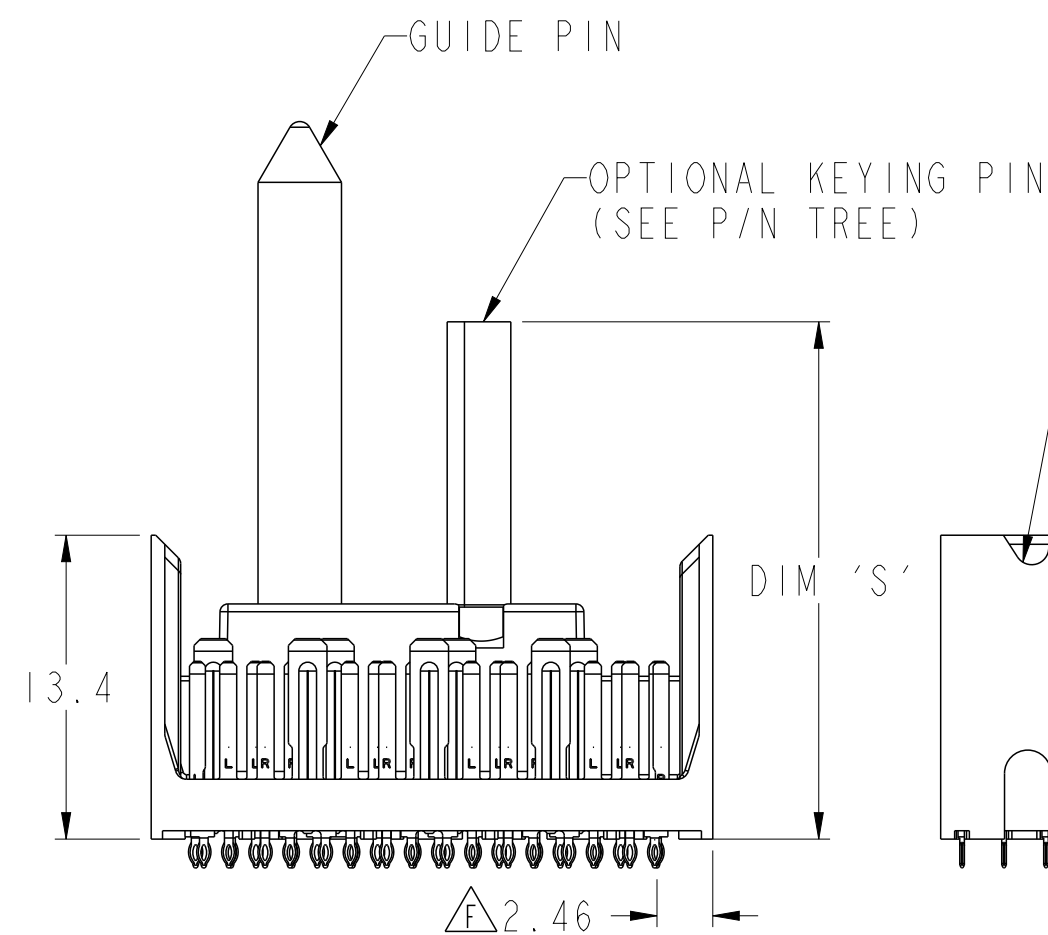
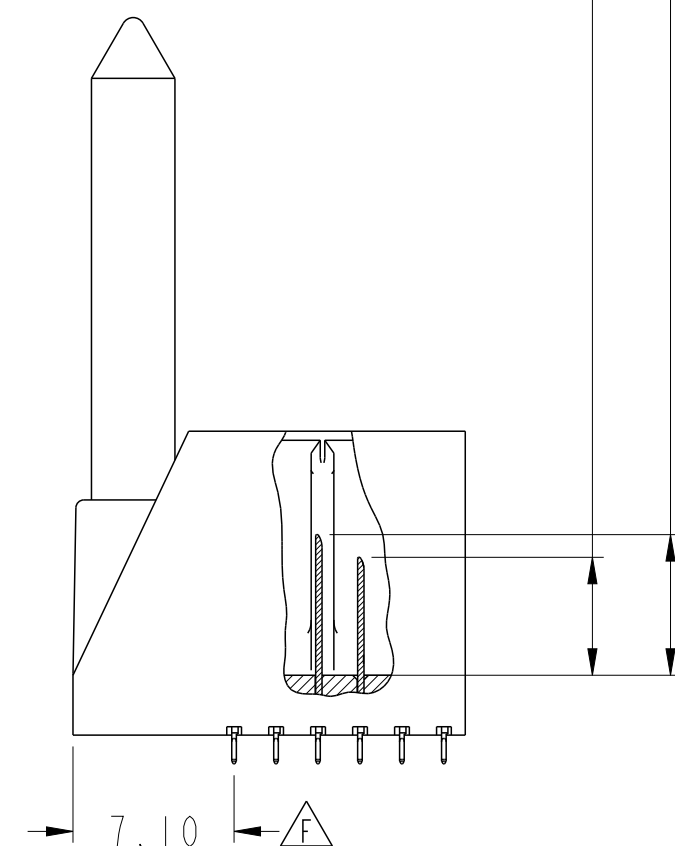
—SEE NOTE 5



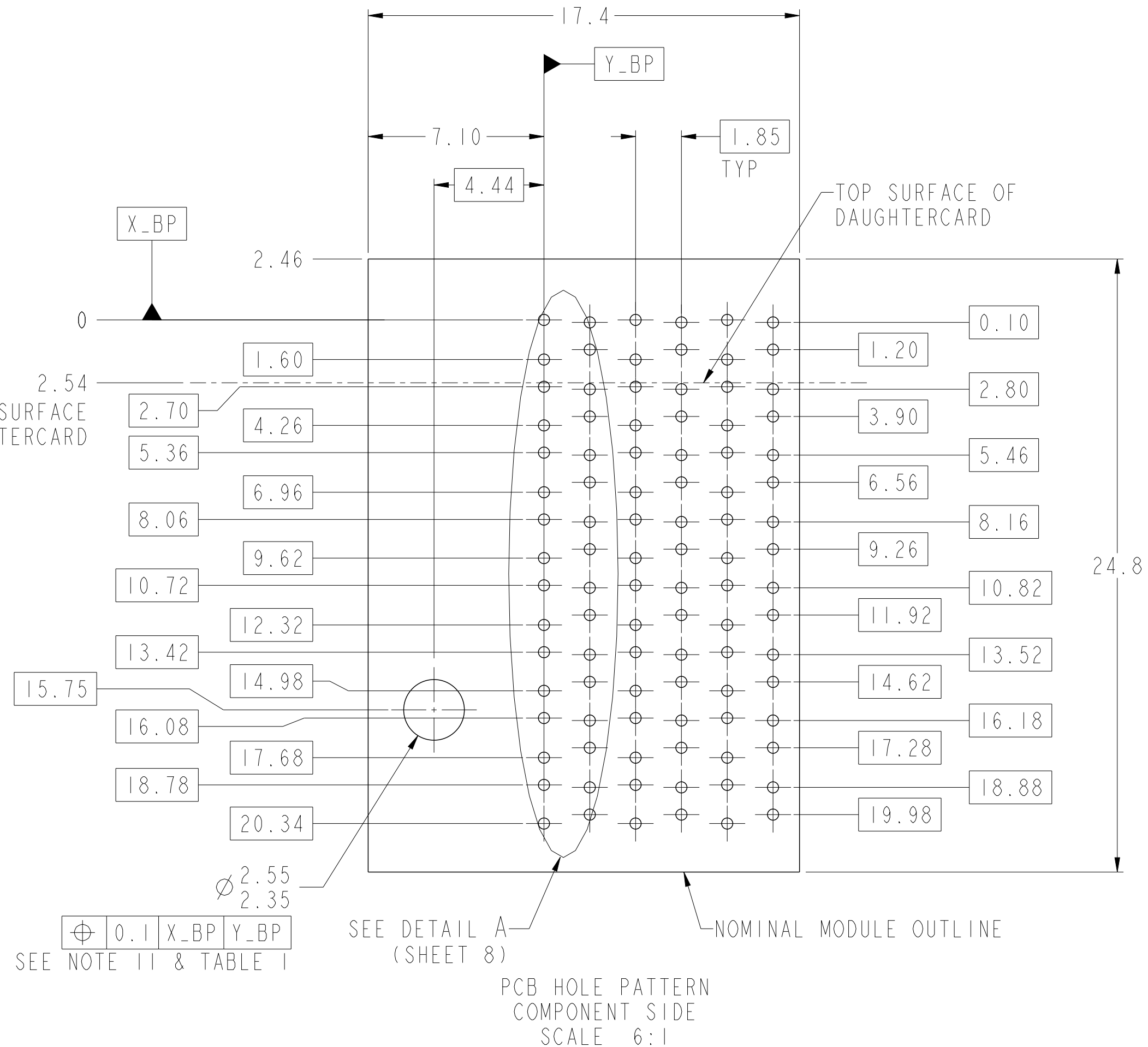
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6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
    5.2 (3MM WIPE SIGNALS)
    4.2 (2MM WIPE SIGNALS)
        SEE P/N TREE

```



TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

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		2009/03/02		projection		size A2		scale 4:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Sander Soe		2015/06/29						ecn no ELX-S-21214-1	
ASME Y14.5				chr -		-							
				appr Chen-Hong Tan		2015/09/30		product family		XCede		rel level Released	
surface		linear	0.X ±0.2			title MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 4-PAIR		dwg no 10091767		rev F			
			0.XX ±0.10										
			0.XXX ±0.050										
ASME Y14.5		angular	±	www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 3 of 8	

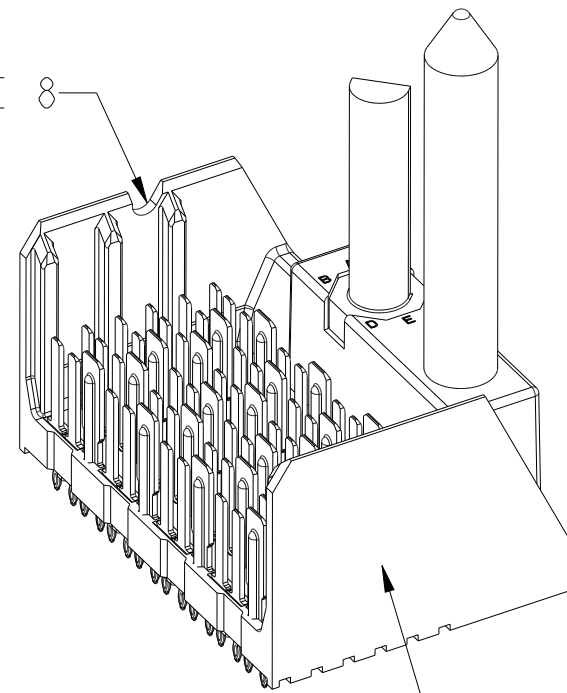
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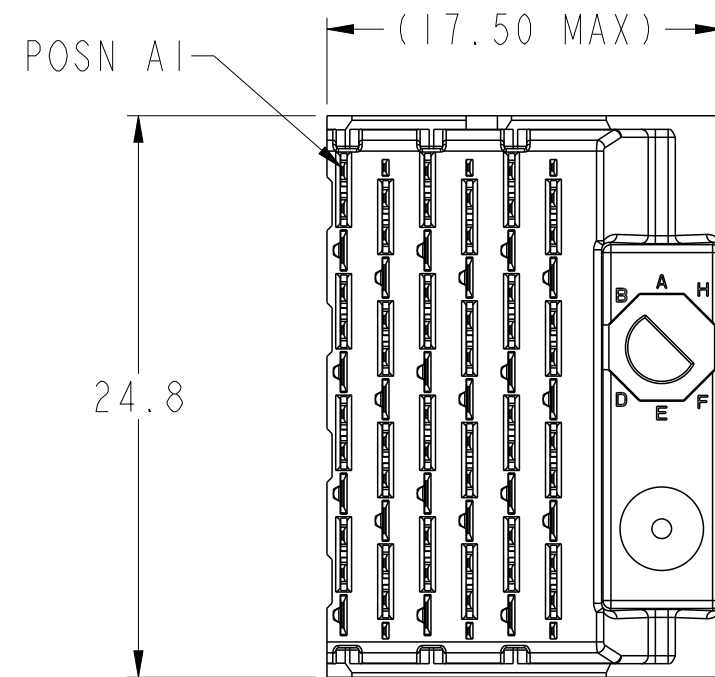
Printed: Sep 30, 2015

RIGHT POLARIZING/GUIDE MODULE

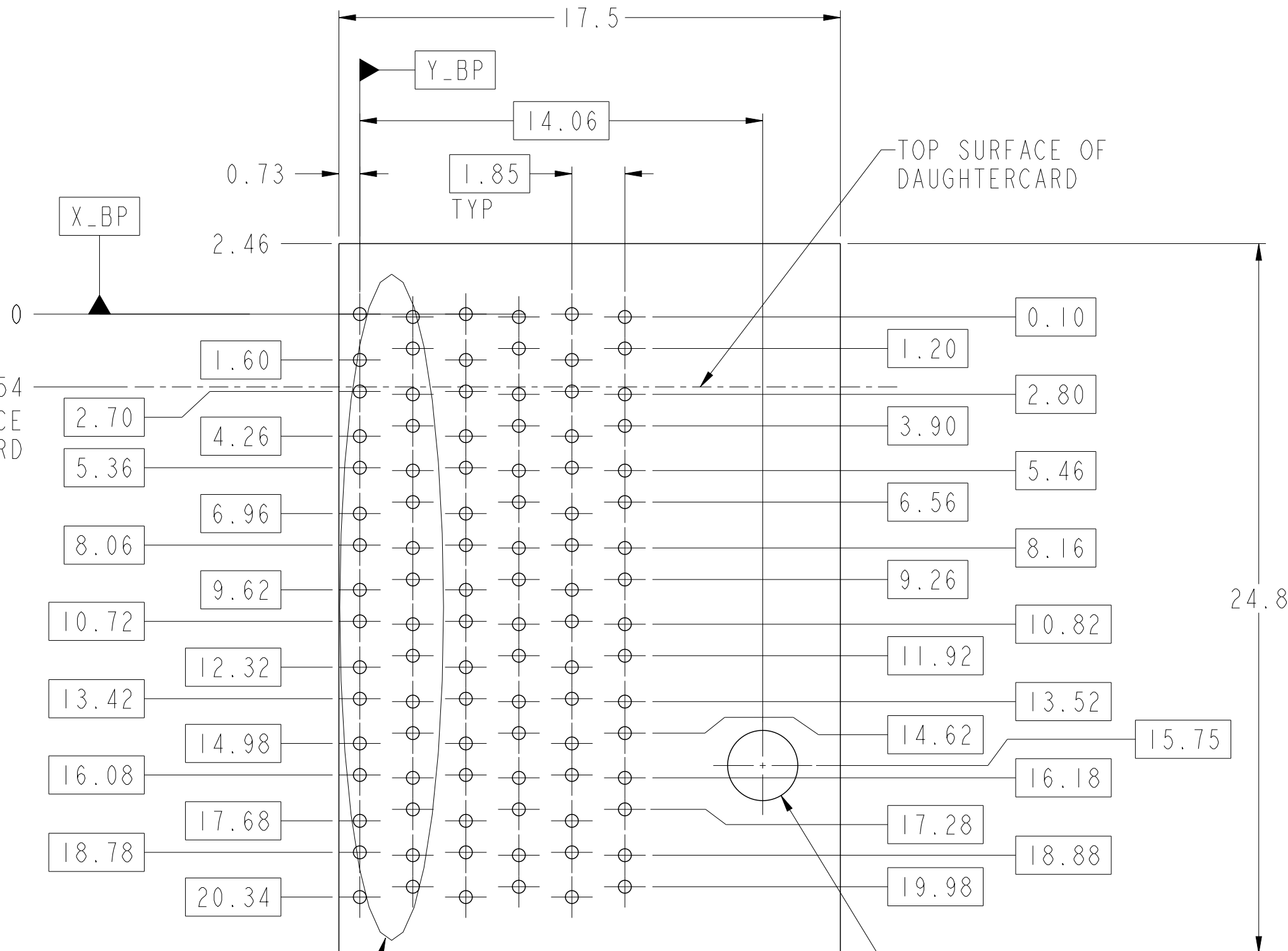
SEE NOTE 8



SEE NOTE 5



TO TOP SURFACE OF DAUGHTERCARD



SEE DETAIL A (SHEET 8)

NOMINAL MODULE OUTLINE

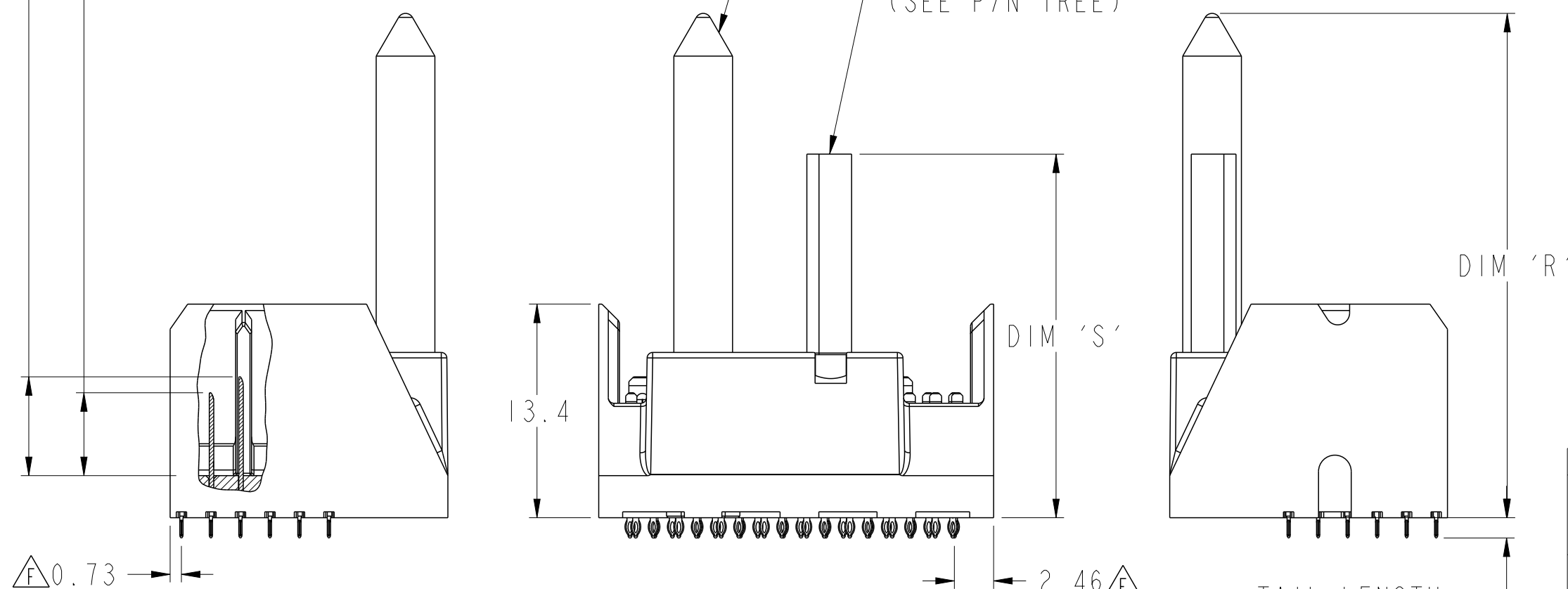
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

Ø 2.55
2.35
Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

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

GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)



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	2009/03/02	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Sandar Soe	2015/06/29	chr	-	ecm no	ELX-S-21214-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2015/09/30	product family	XCede	rel level	Released	rev	F
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 4 of 8	dwg no	10091767	rev	F

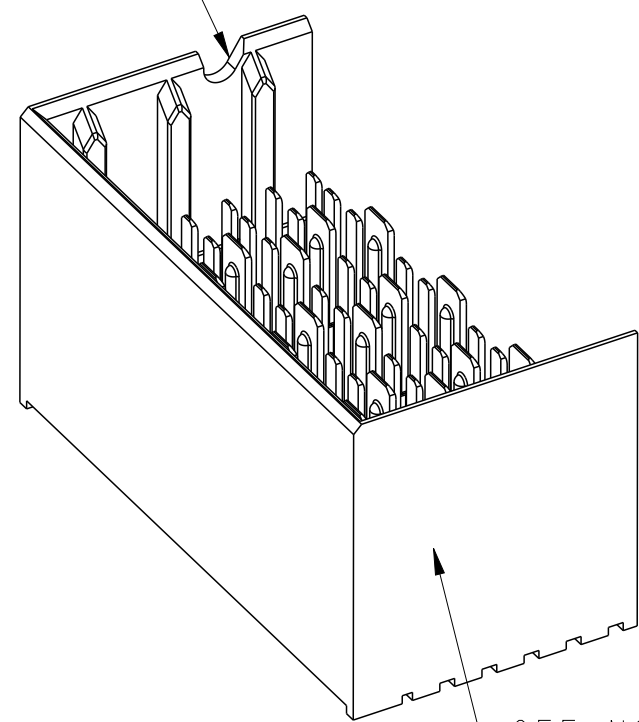
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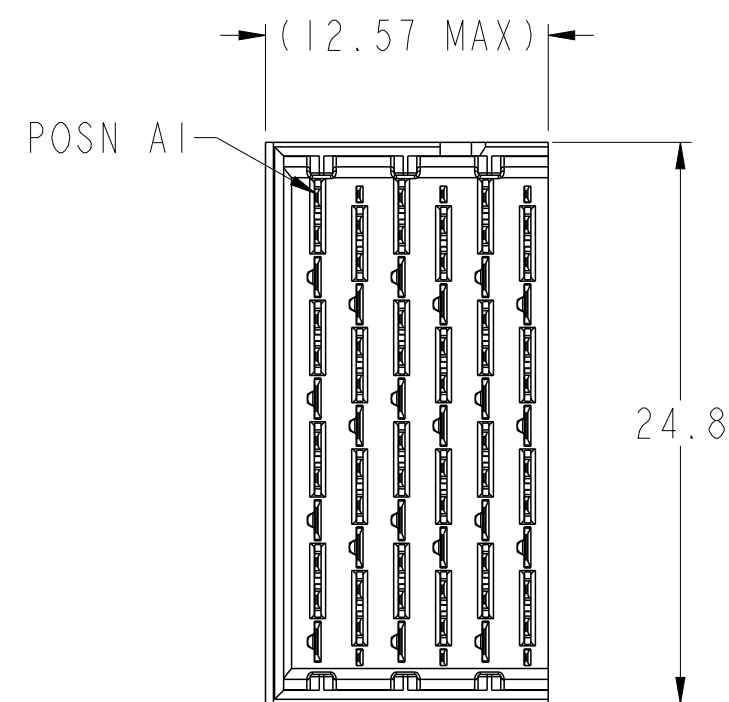
Printed: Sep 30, 2015

LEFT WALL MODULE

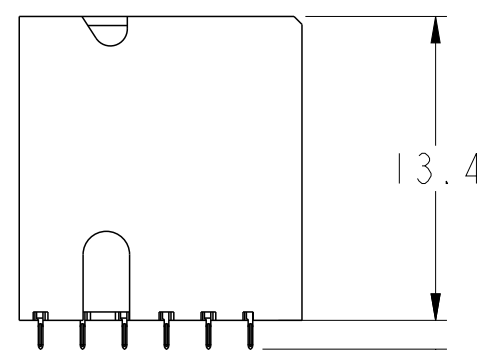
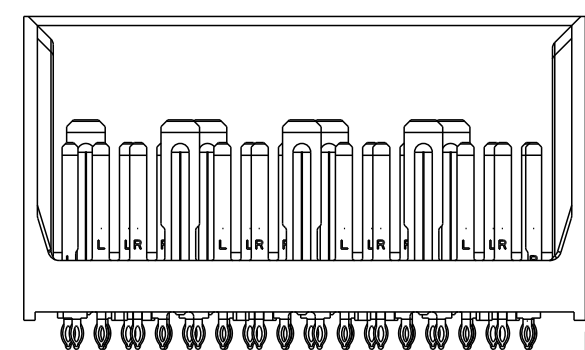
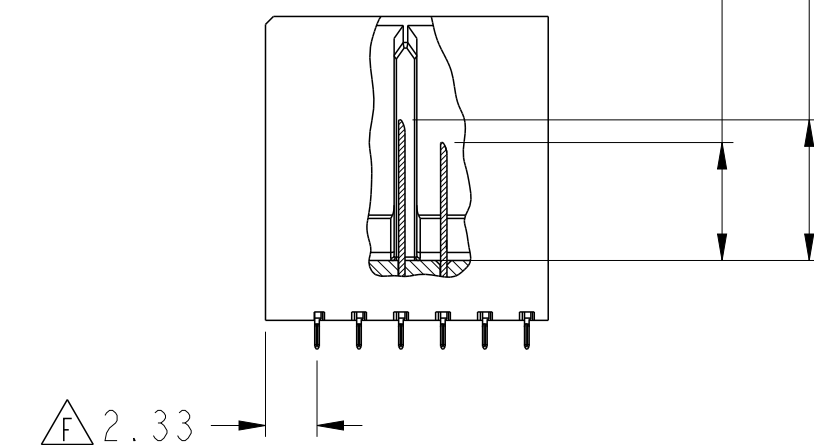
SEE NOTE 8



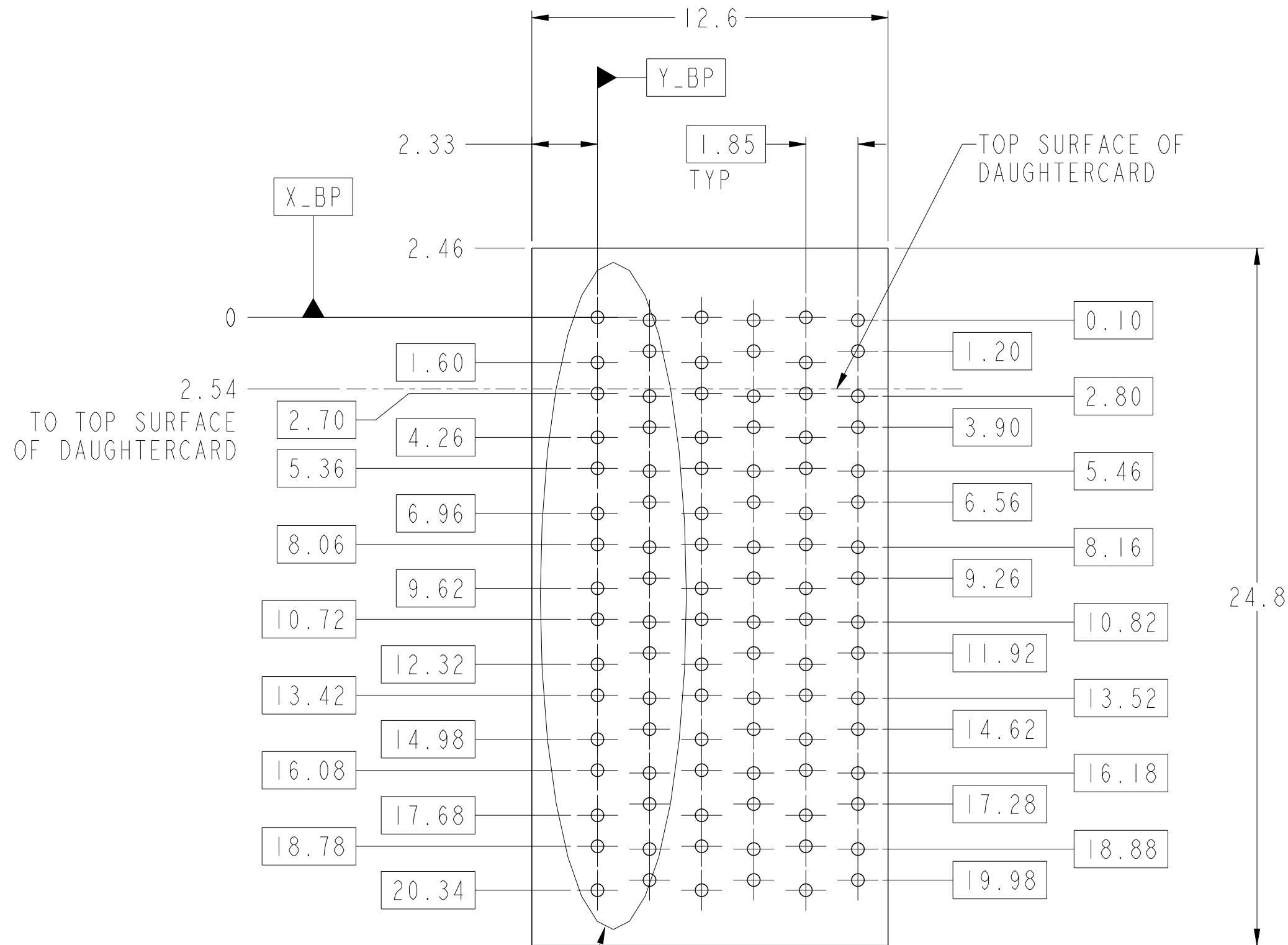
SEE NOTE 5



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

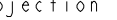
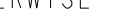


TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES		dr	Jim Swain	2009/03/02	projection			size	scale	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2015/06/29	ecn no			A2	4:1	
ASME Y14.5			chr	-	-	product family	XCede	rel level	Released		
			appr	Chen-Hong Tan	2015/09/30						
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°	±0.050	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 5 of 8		F	

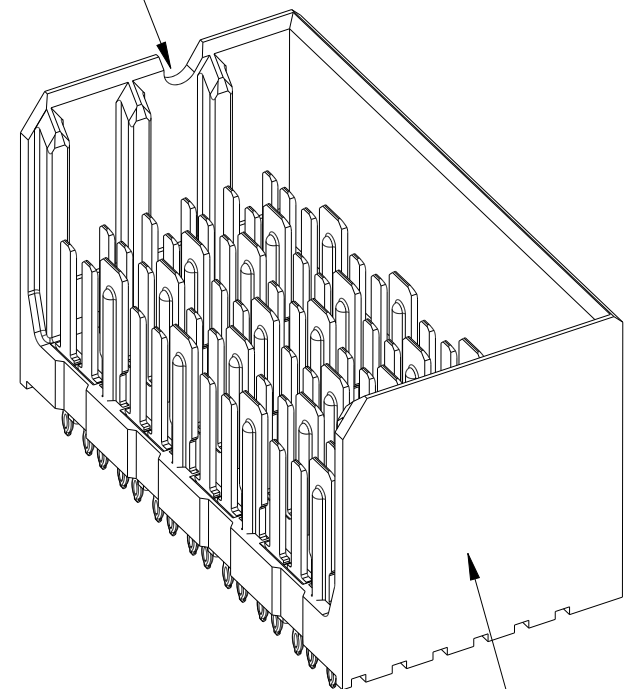
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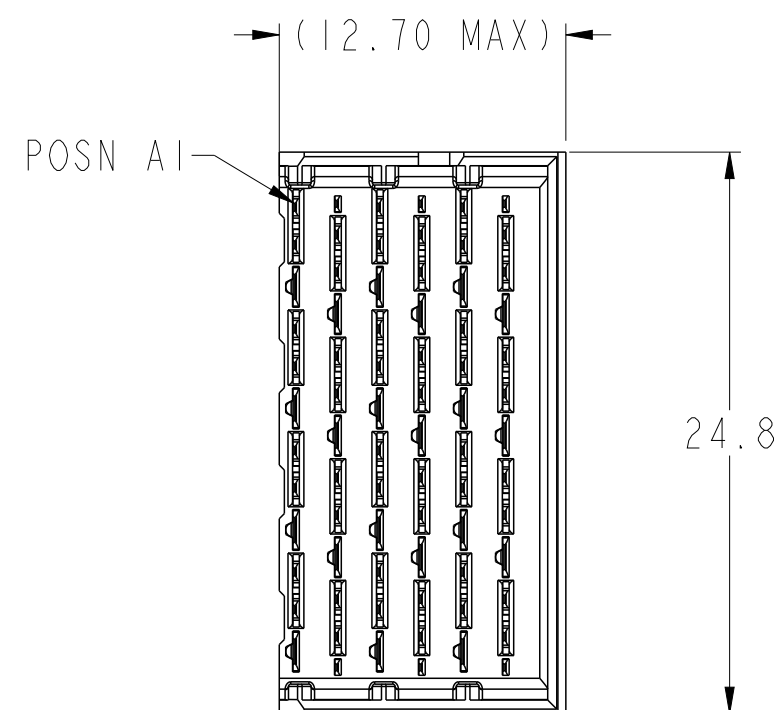
Printed: Sep 30, 2015

RIGHT WALL MODULE

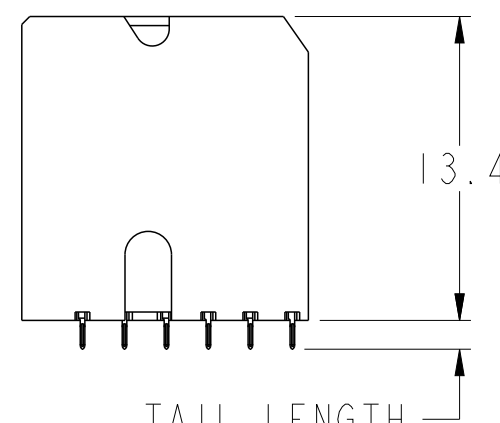
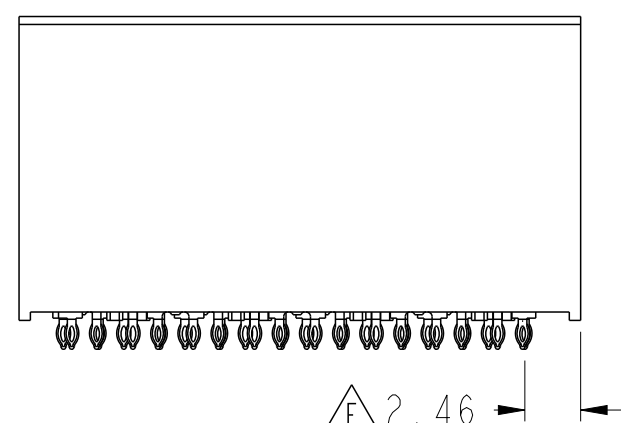
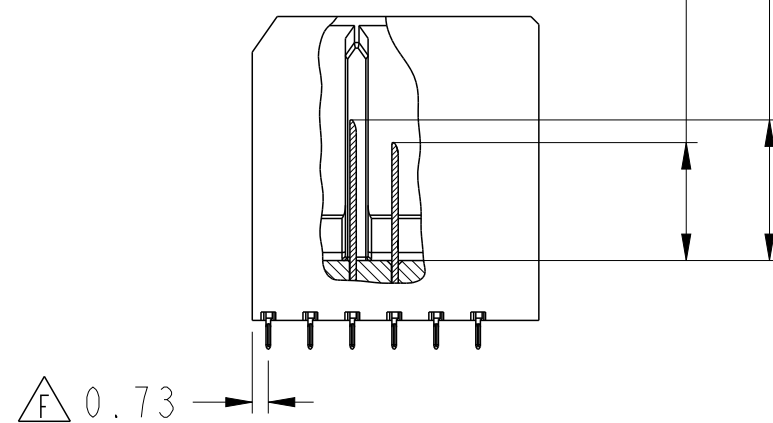
SEE NOTE 8



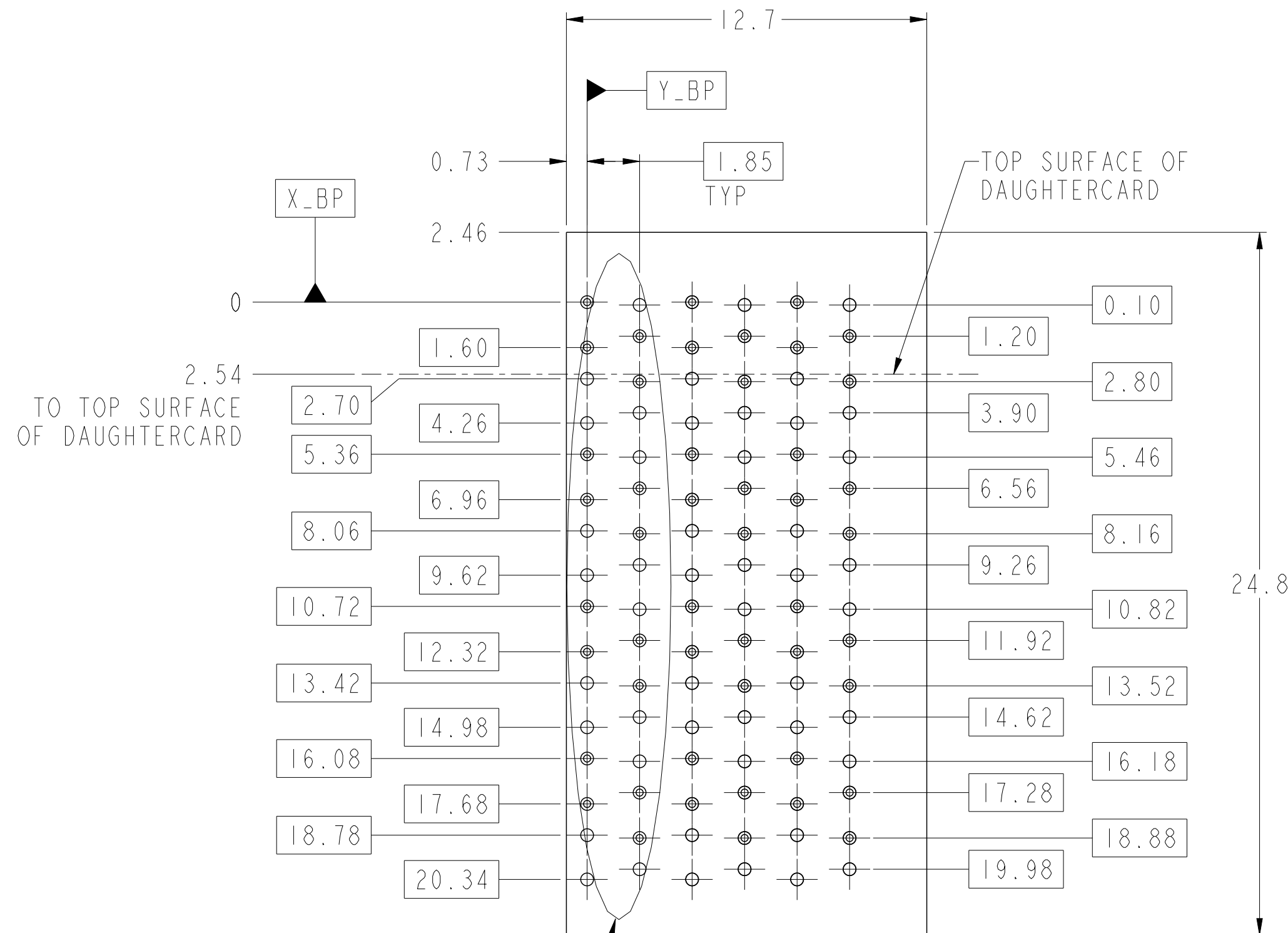
SEE NOTE 5



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

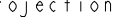
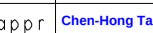


TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES		dr	Jim Swain	2009/03/02	projection		MM		size	scale
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Sandar Soe	2015/06/29	ecn no					ELX-S-21214-1	4:1
ASME Y14.5		chr	-	-	product family	XCede	rel level	Released			
		appr	Chen-Hong Tan	2015/09/30							
surface 	linear	0.X	±0.2		title	MODULE ASSEMBLY	dwg no	10091767	rev	F	
		0.XX	±0.10								
ASME Y14.5	angular	0°	±0.050								www.fci.com

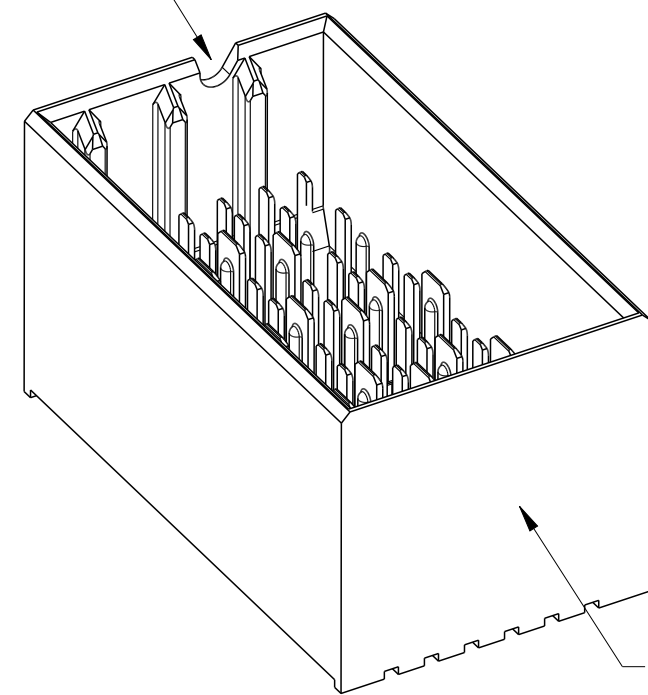
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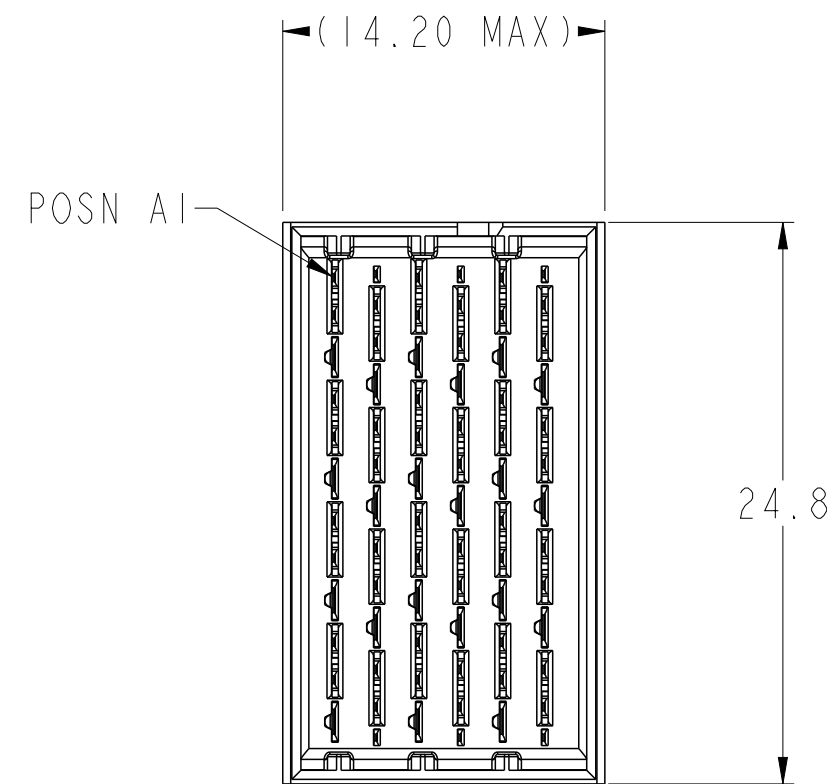
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4-WALL MODULE

SEE NOTE 8

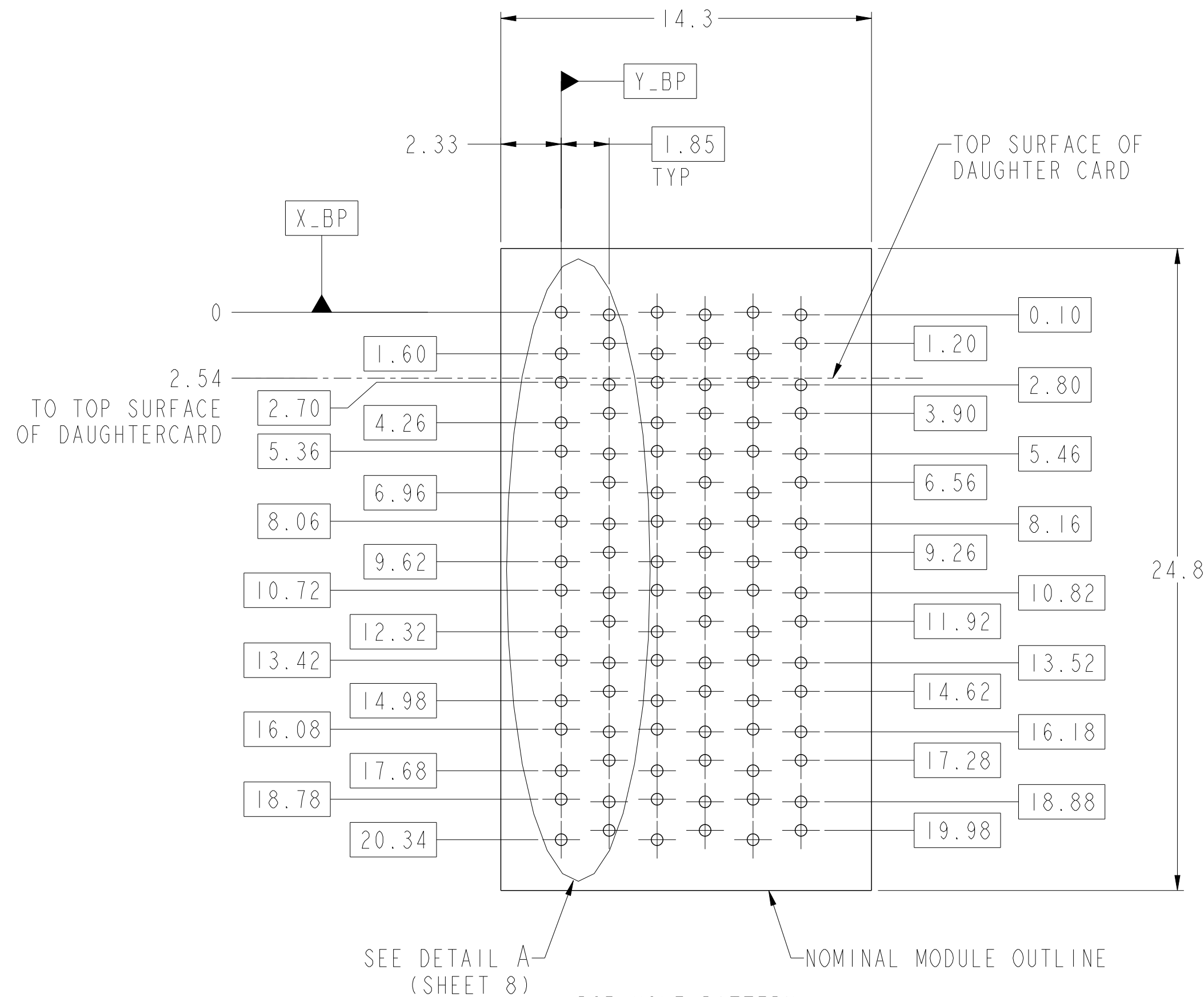
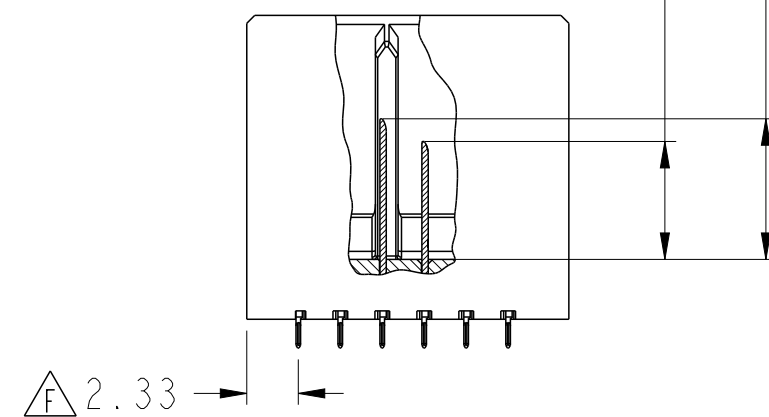


SEE NOTE 5



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

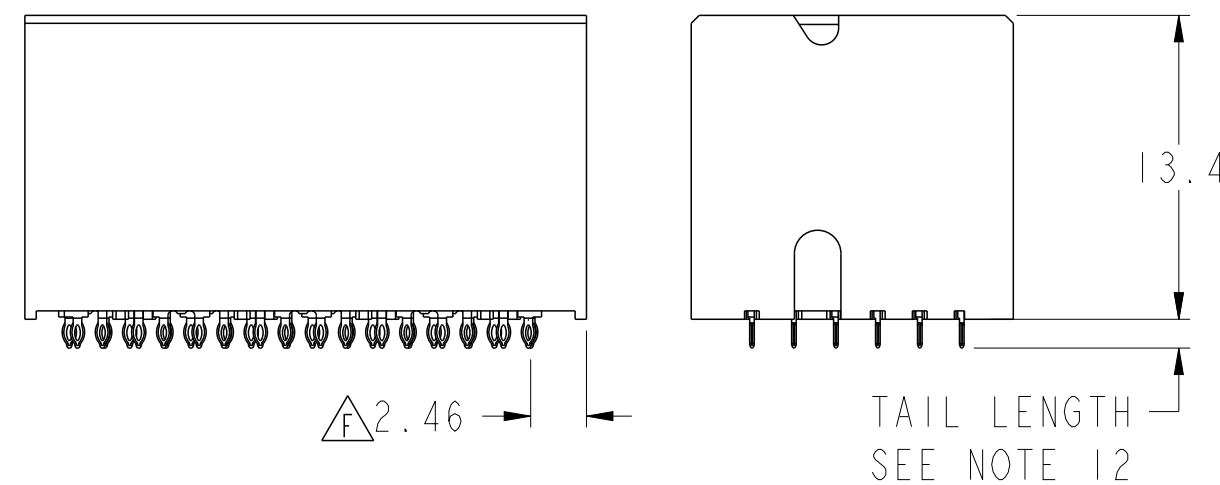
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)
SEE P/N TREE



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE



spec ref	SEE NOTES	dr	Jim Swain	2009/03/02	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Sandar Soe	2015/06/29	chr	-	ecm no	ELX-S-21214-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2015/09/30	product family	XCede	rel level	Released	rev	F
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 7 of 8				

PDS: Rev :F

STATUS:Released

Printed: Sep 30, 2015

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 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
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 Ø0.55[0.0217"]COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR Ø0.45[0.0177"]COMPLIANT PIN DRILL
13. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

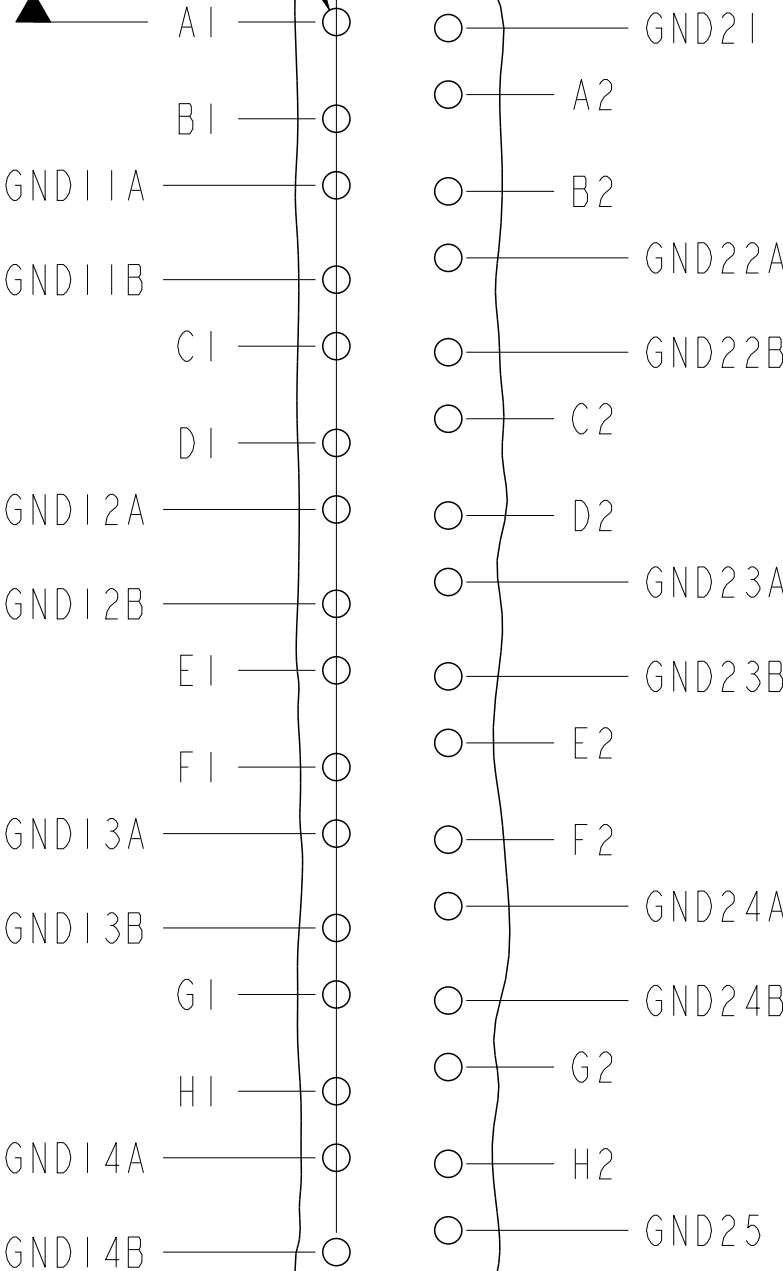
COMPLIANT PIN DRILL	PTH	PAD
Ø0.55 [0.0217"]	Ø0.45±0.05	Ø0.85
Ø0.45 [0.0177"]	Ø0.36±0.05	Ø0.75

REFER TO TABLE 3 FOR PTH, DRILL & PAD SIZES

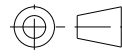
	Ø0.10	X_BP	Y_BP
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X_BP

Y_BP



DETAIL A
SCALE 8:1

spec ref	SEE NOTES	dr	Jim Swain	2009/03/02	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Sandar Soe	2015/06/29			ecn no	ELX-S-21214-1		
ASME Y14.5		chr	-	-	product family	XCede	rel level	Released		
		appr	Chen-Hong Tan	2015/09/30						
surface	linear	0.X	±0.2		FCI	title	MODULE ASSEMBLY	dwg no	10091767	rev
		0.XX	±0.10				VERTICAL HEADER, 6-COLUMN, 4-PAIR			F
ASME Y14.5	angular	0°	±°		www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 8 of 8	