

1 0 0 9 | 8 3 6 - X 0 J - X X X L F

4-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

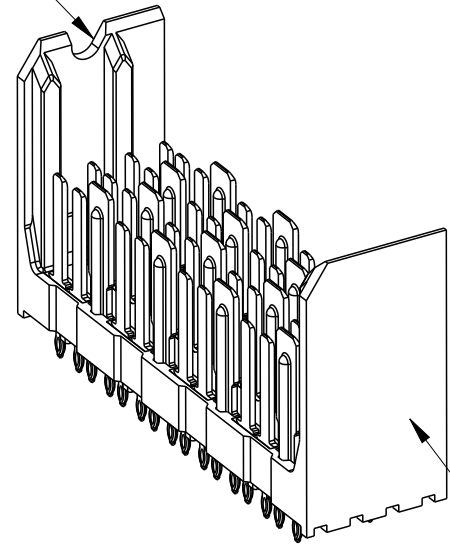
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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

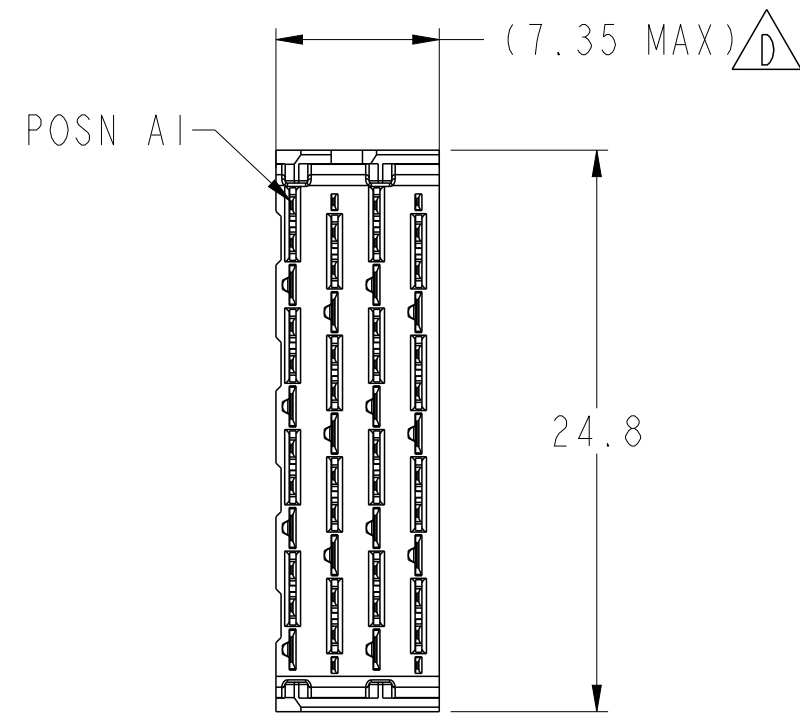
spec ref		SEE NOTES		dr		Jim Swain		2010/04/12		projection		size		scale							
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Roger Ng		2011/10/06						A2		4:1					
ASME Y14.5				chr		-		-						ecn no		ELX-S-006600-1					
				appr		Chen-Hong Tan		2011/10/07						product family		XCode		Released			
surface				linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10091836		rev	
				0.XX		±0.10															
ASME Y14.5		angular		0°		±°															

OPEN (2-WALL) MODULE

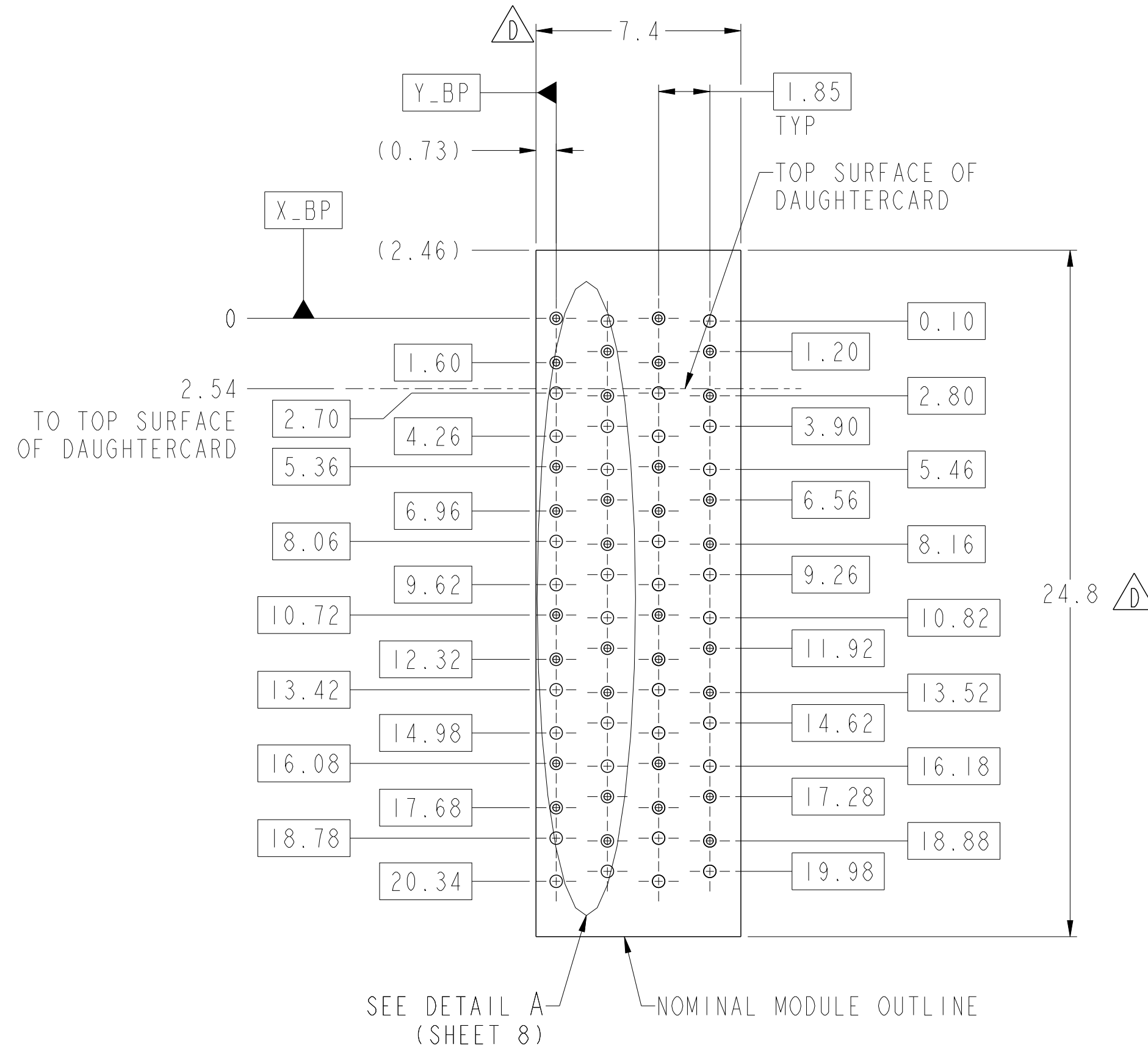
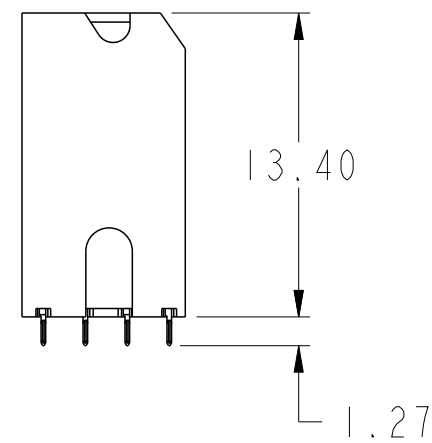
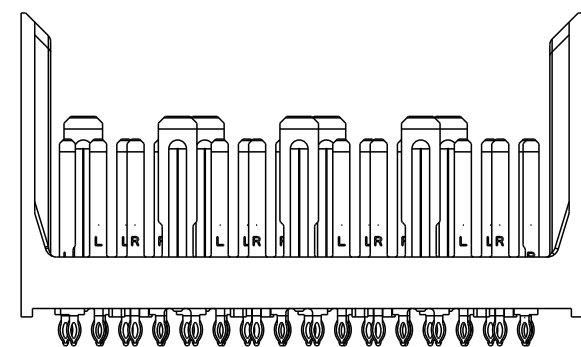
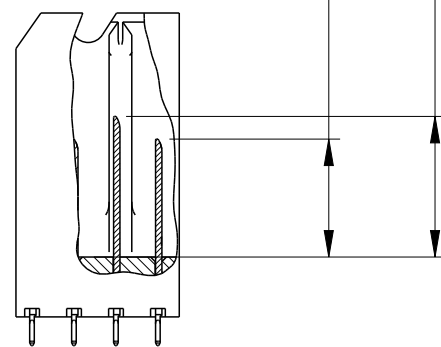
SEE NOTE 8



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



SEE DETAIL A (SHEET 8)

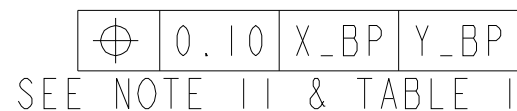
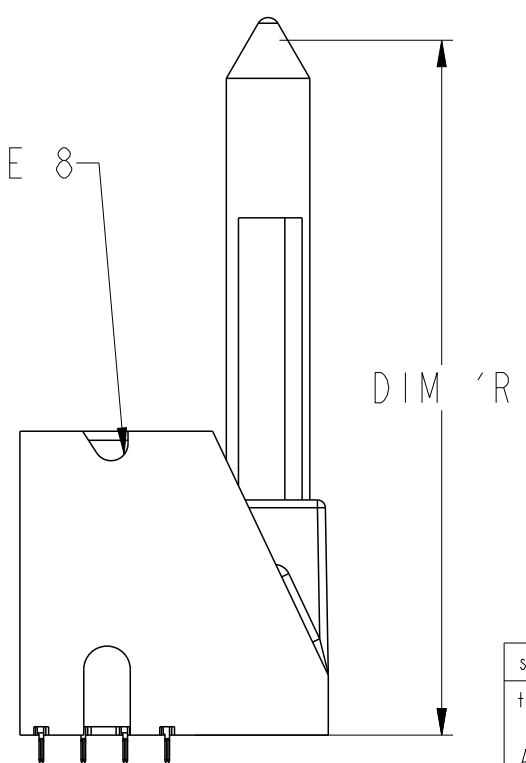
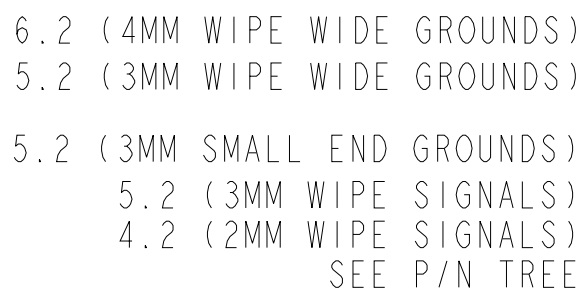
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES	dr	Jim Swain	2010/04/12	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/06	chr	-	ecn no	ELX-S-006600-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/10/07	product family	XCede	rel level	Released	rev	D
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 2 of 8	rev	D		

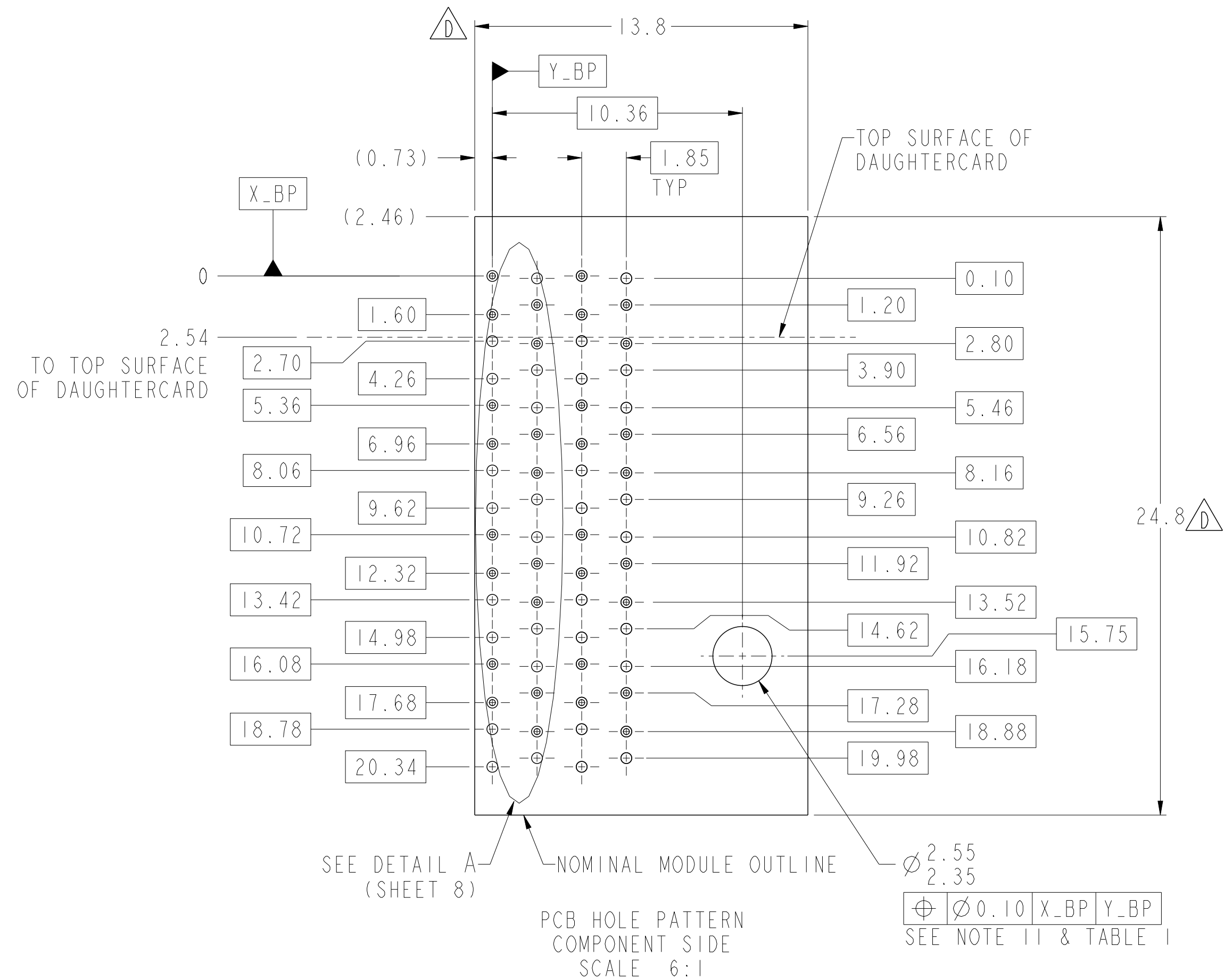
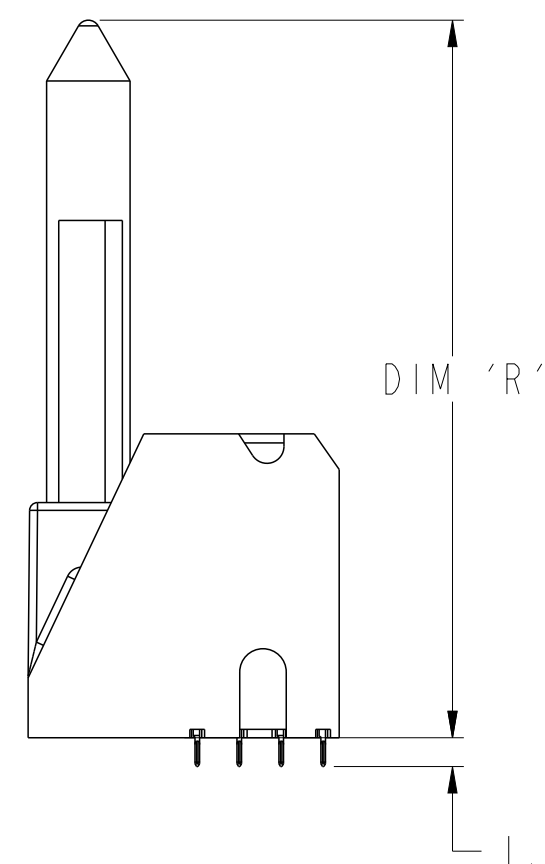
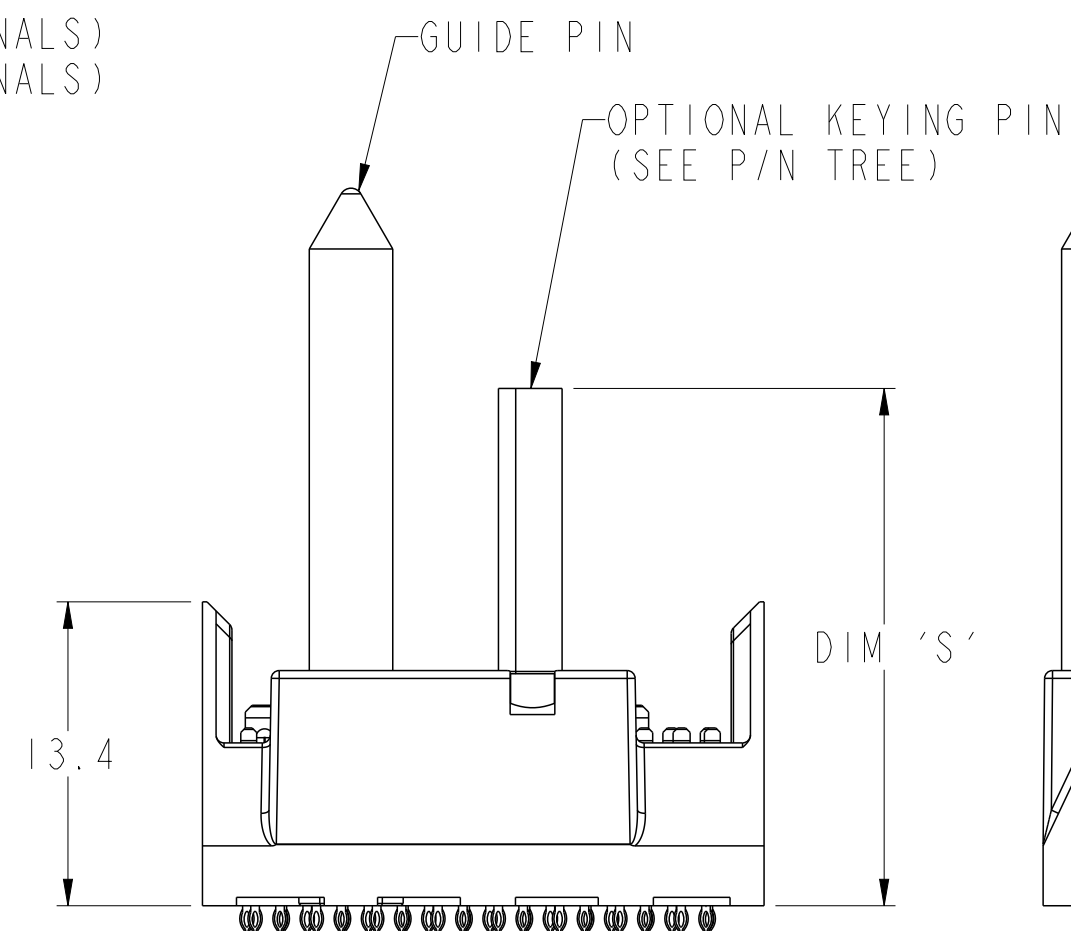
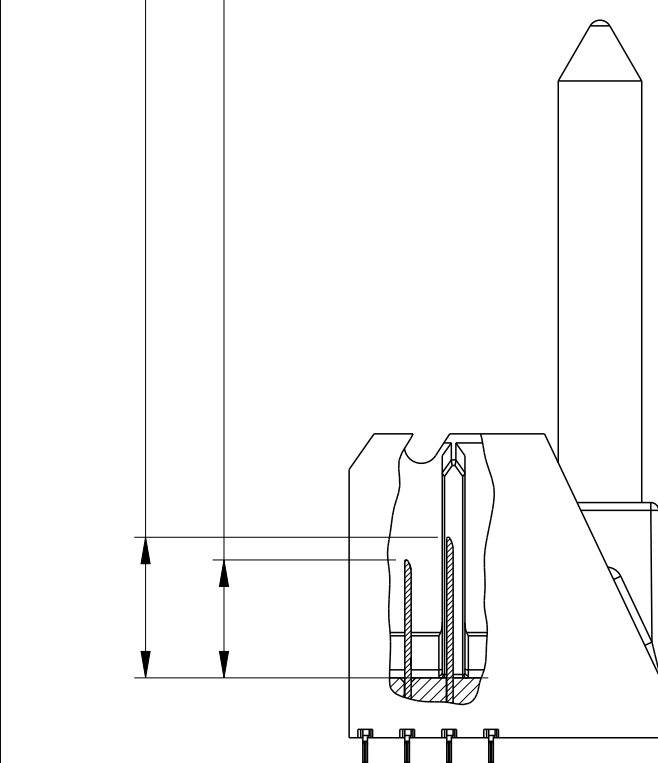
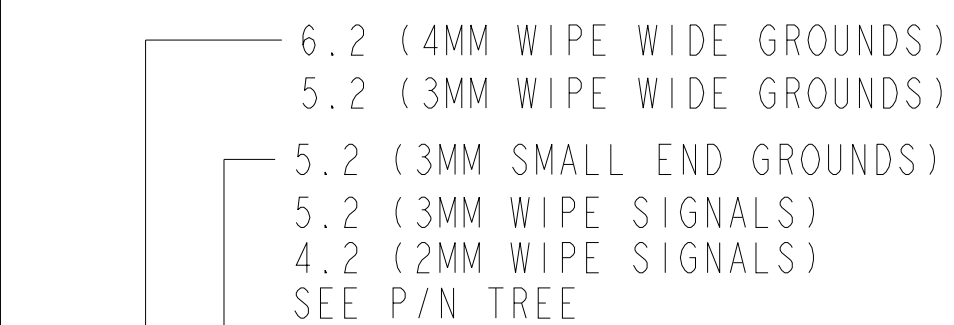
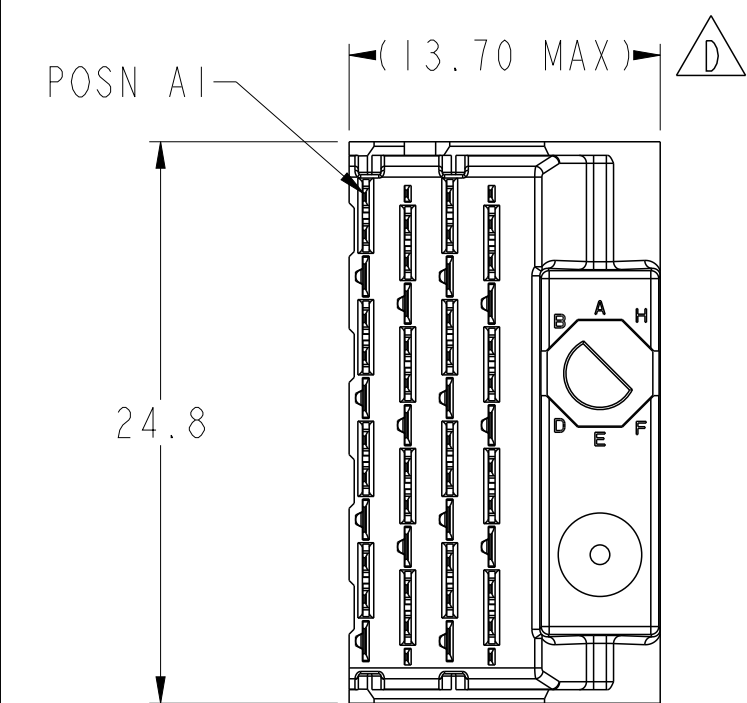
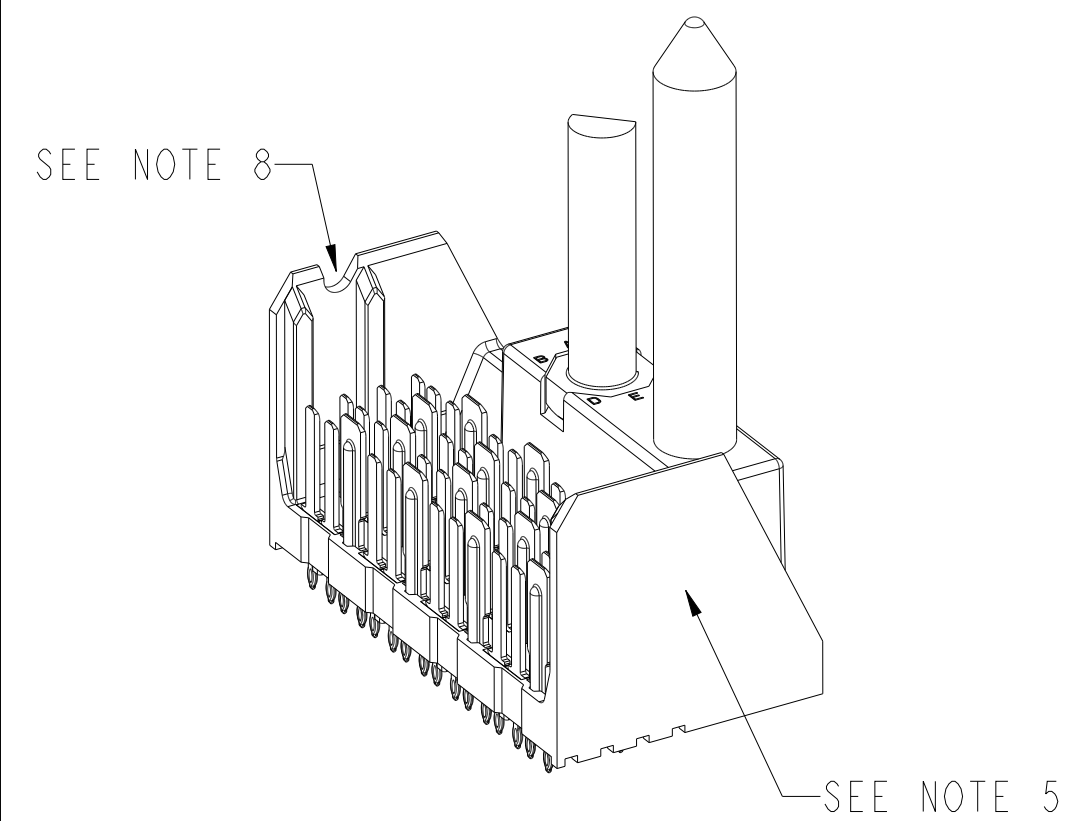
PDS: Rev :D

STATUS:Released

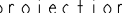
Printed: Oct 07, 2011



RIGHT POLARIZING/GUIDE MODULE

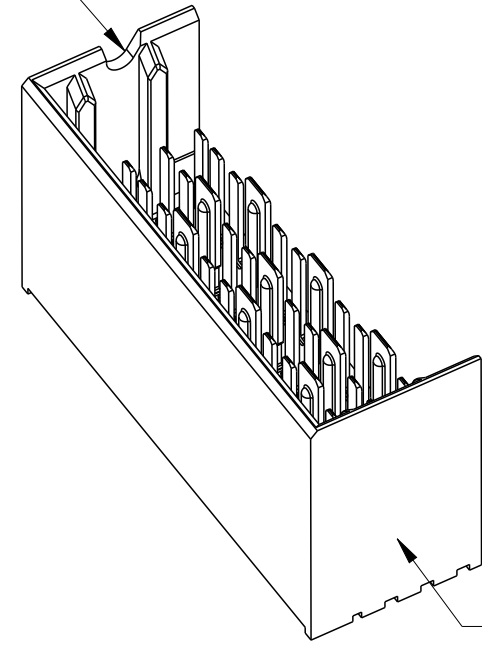


ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN	POLARIZING KEY
	DIM 'R'	DIM 'S'
-X 0 X	31.6mm	22.8mm
-X 4 X	25.7mm	20.0mm

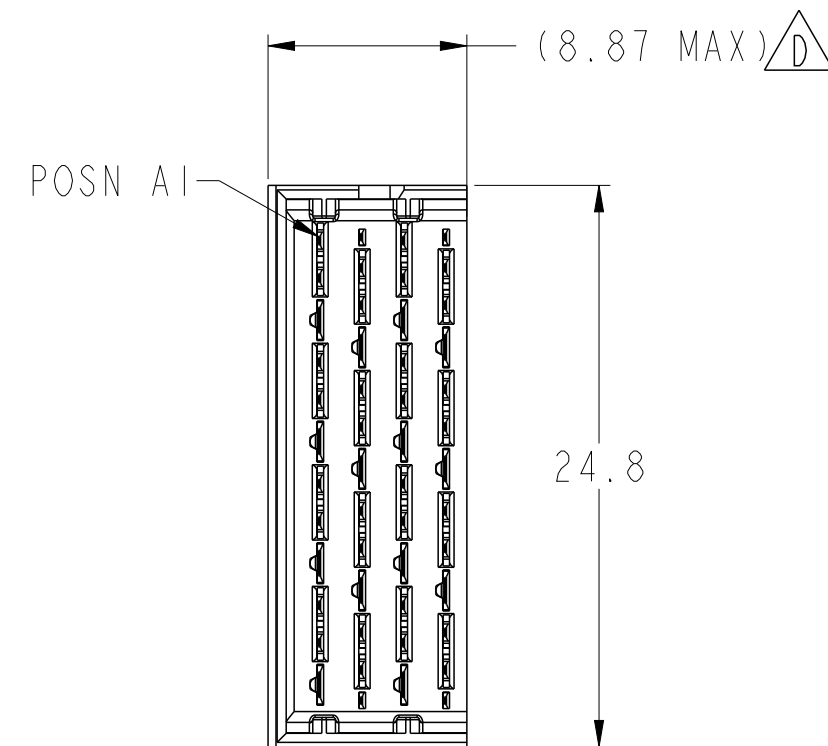
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Roger Ng		2011/10/06						ecn no		ELX-S-006600-1							
ASME Y14.5				chr		-		-						XCode		Released							
				appr		Chen-Hong Tan		2011/10/07		product family				rel level									
surface		linear		0.X		±0.2				title MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 4-PAIR		dwg no 10091836		rev D				cat. no. SEE P/N TREE		Product - Customer Drw		sheet 4 of 8	
		0.XX		±0.10																			
		0.XXX		±0.050																			
ASME Y14.5		angular		0°		+°		www.fci.com															

LEFT WALL MODULE

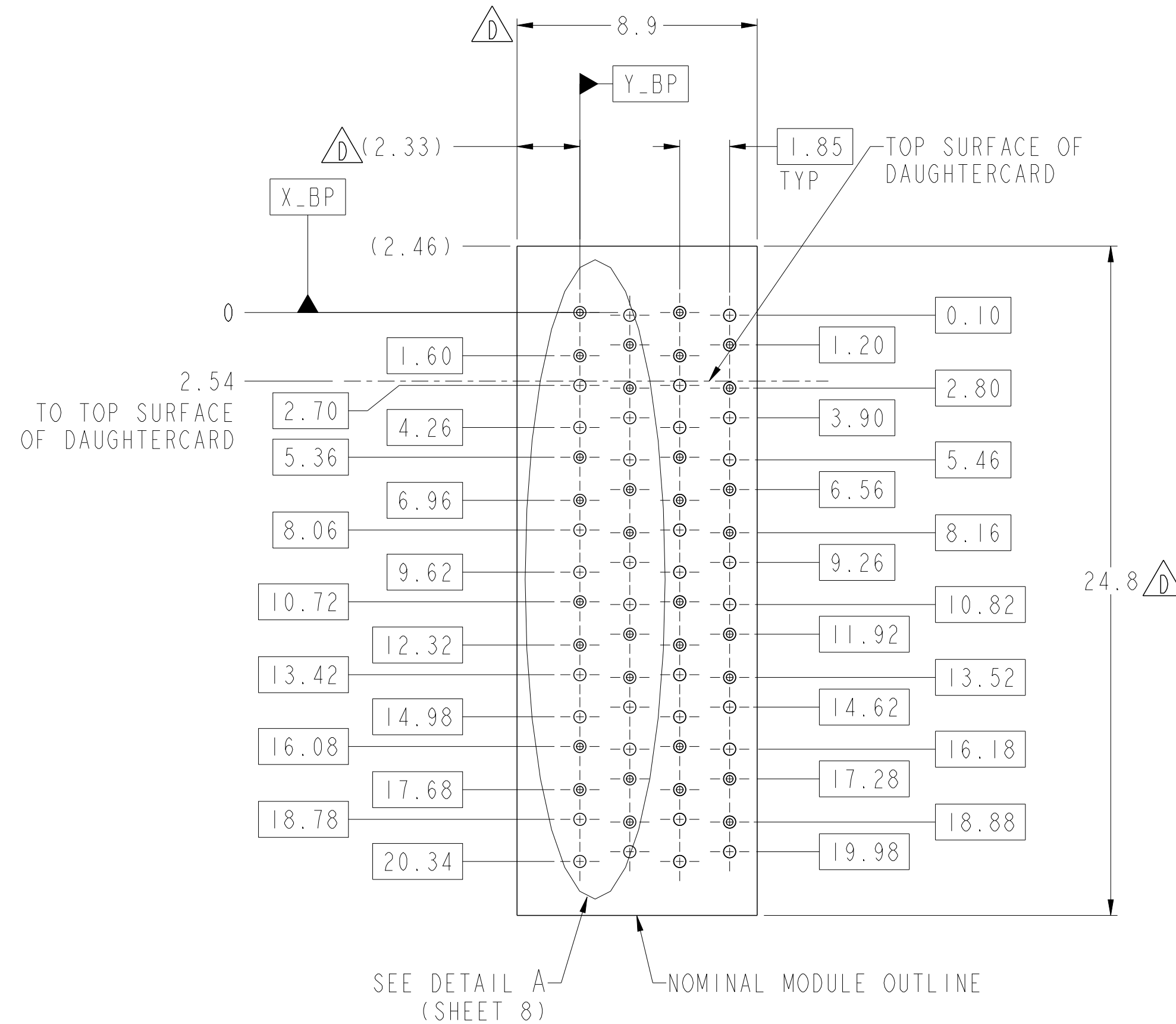
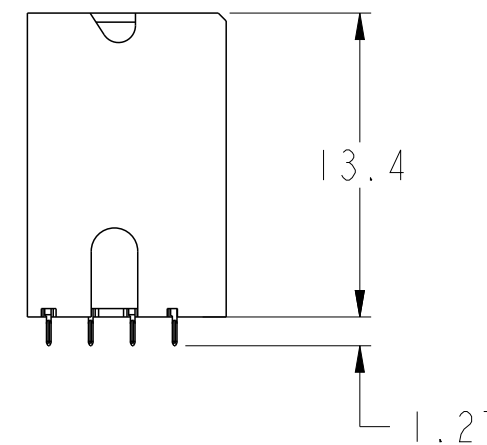
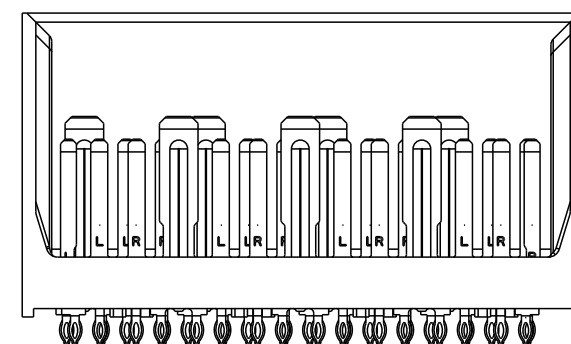
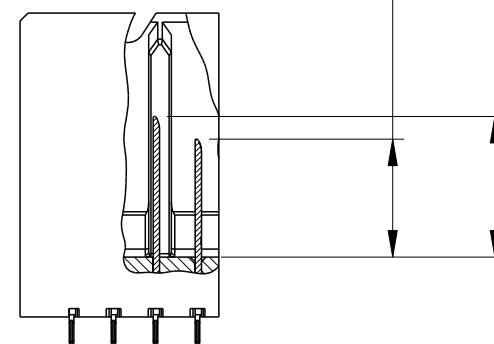
SEE NOTE 8



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



spec ref	SEE NOTES	dr	Jim Swain	2010/04/12	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/06	chr	-	ecn no	ELX-S-006600-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/10/07	product family	XCede	rel level	Released		
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 5 of 8	rev	D	

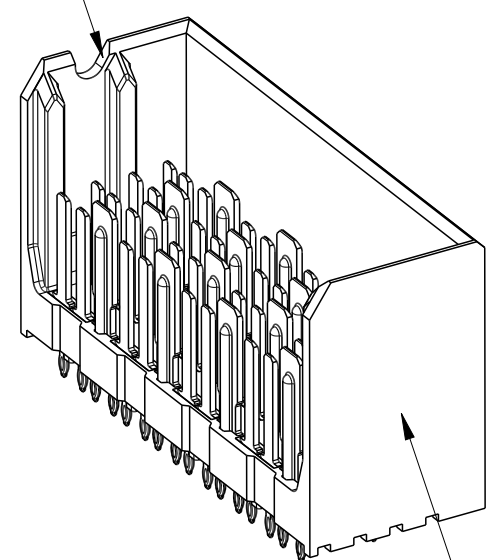
PDS: Rev :D

STATUS:Released

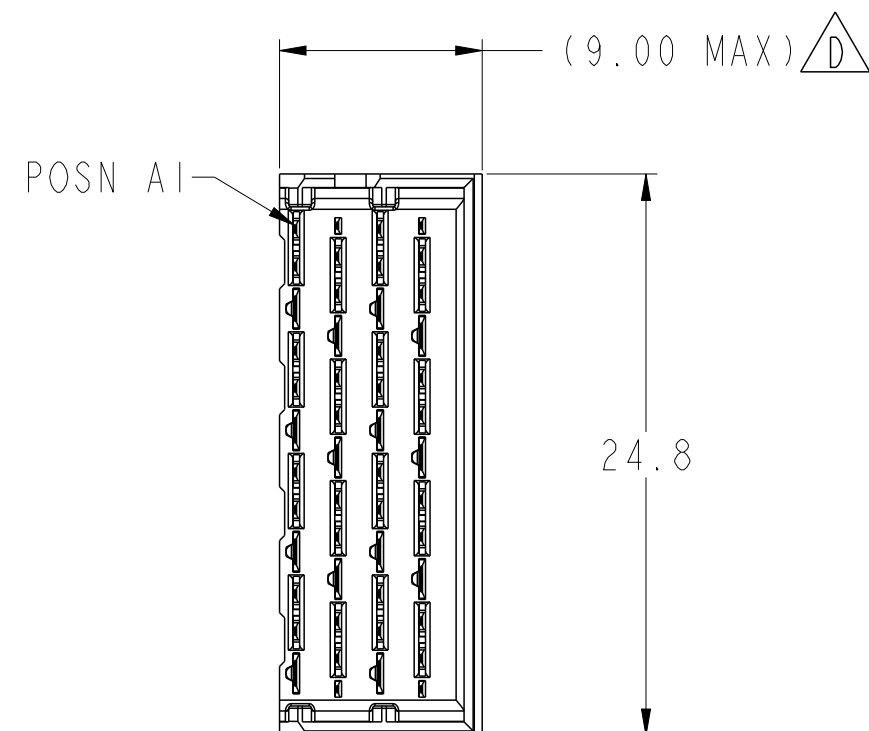
Printed: Oct 07, 2011

RIGHT WALL MODULE

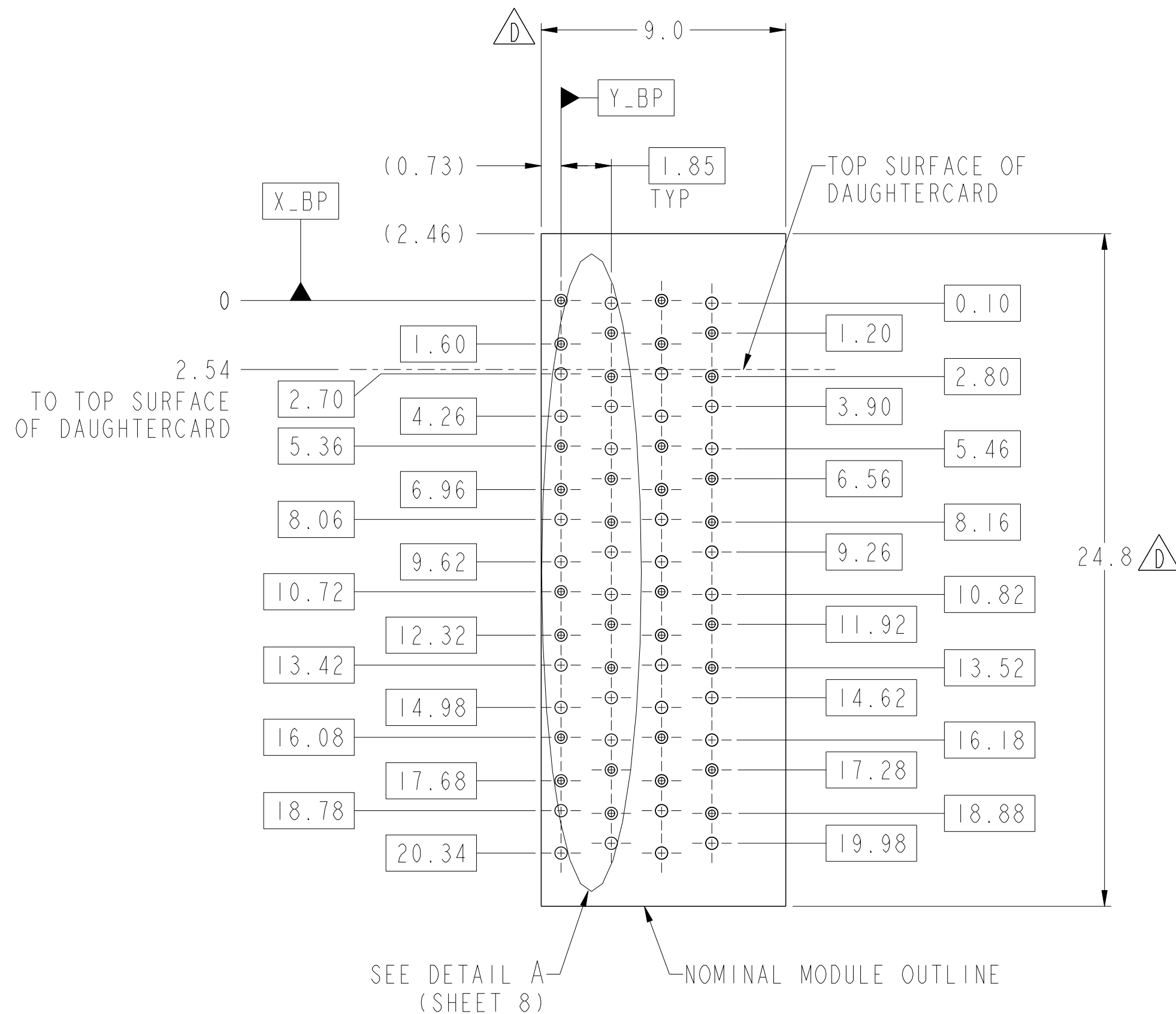
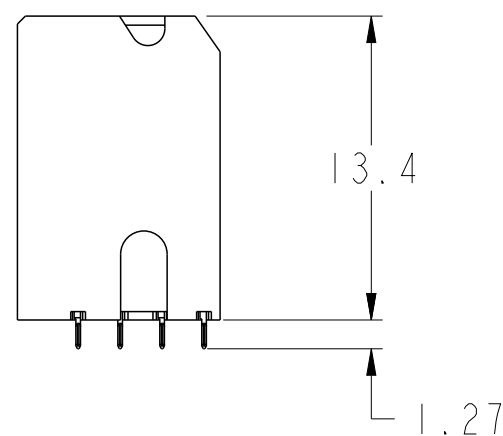
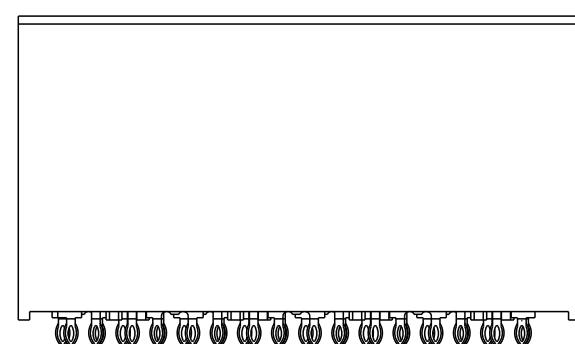
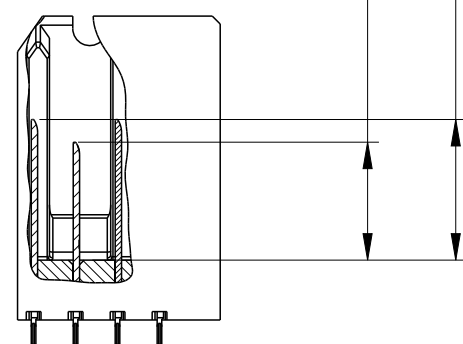
SEE NOTE 8



SEE NOTE 5



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



spec ref	SEE NOTES	dr	Jim Swain	2010/04/12	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/06	chr	-	ecn no	ELX-S-006600-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/10/07	product family	XCede	rel level	Released		
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 6 of 8				

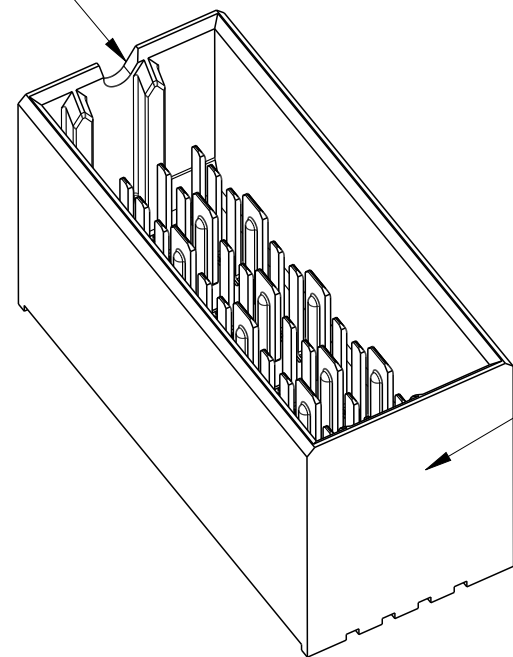
PDS: Rev :D

STATUS:Released

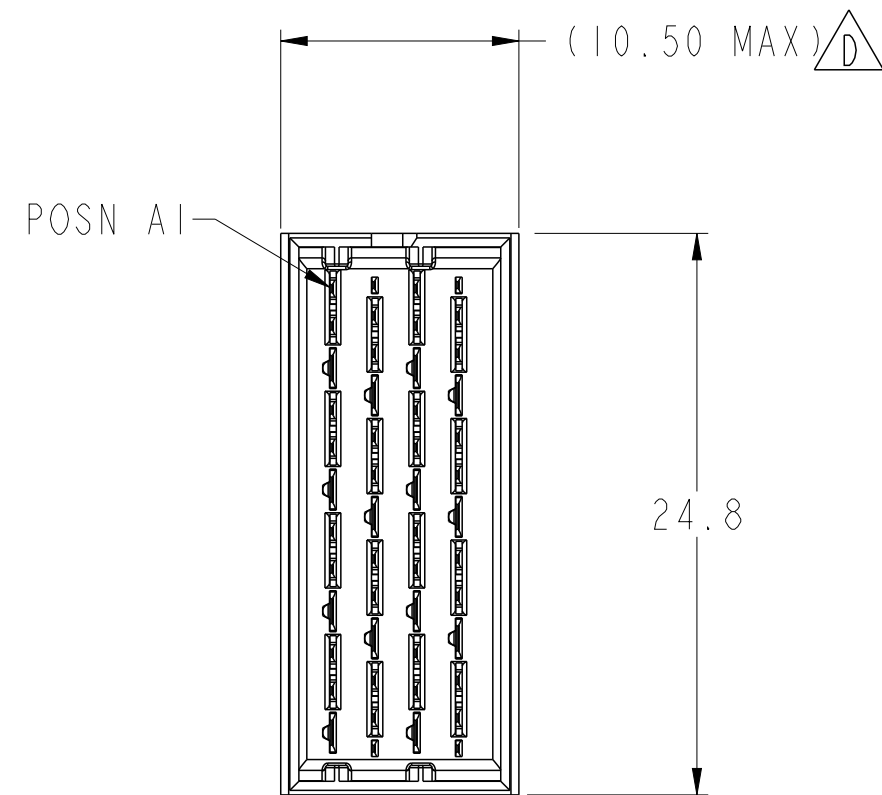
Printed: Oct 07, 2011

4-WALL MODULE

SEE NOTE 8

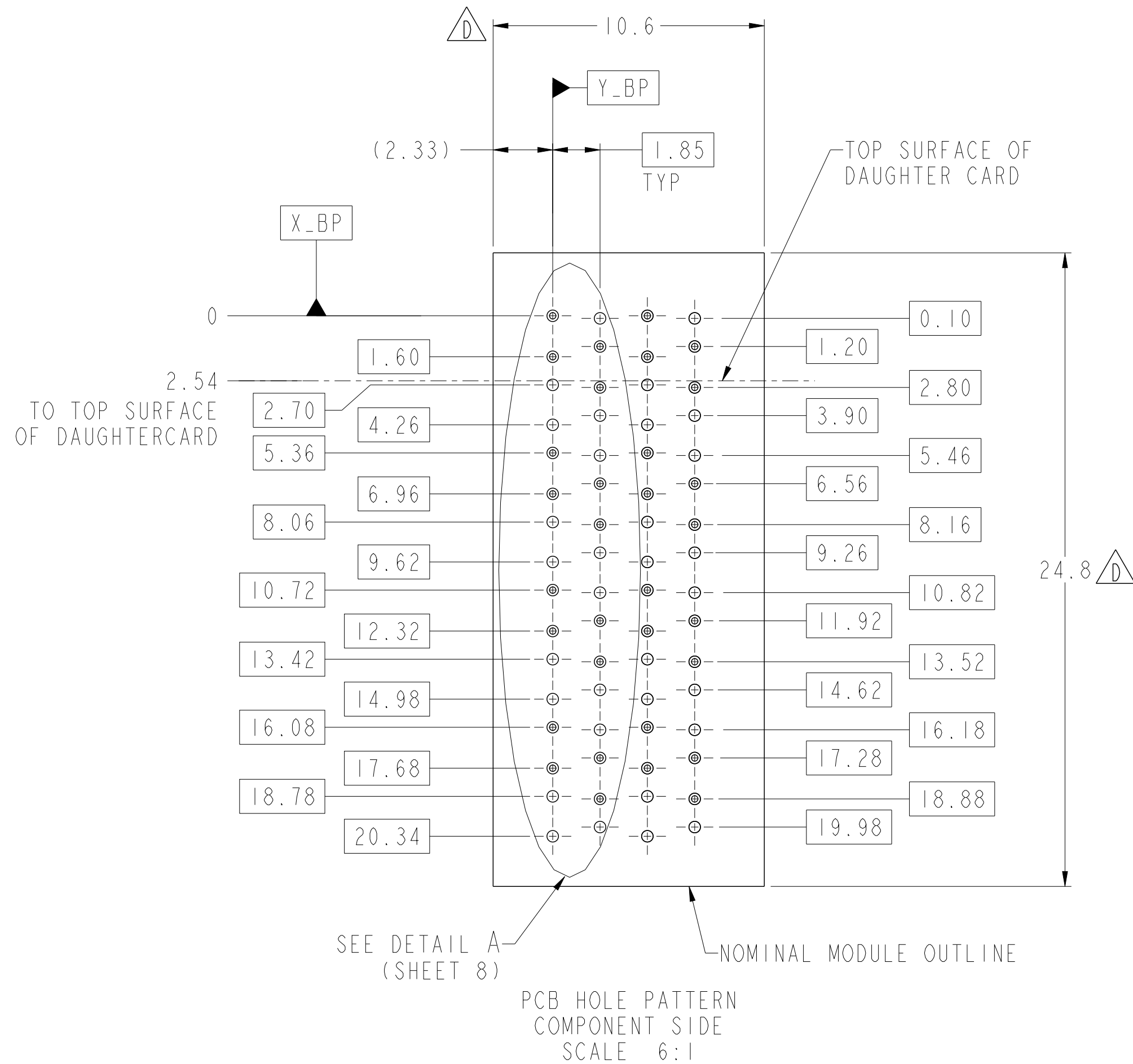
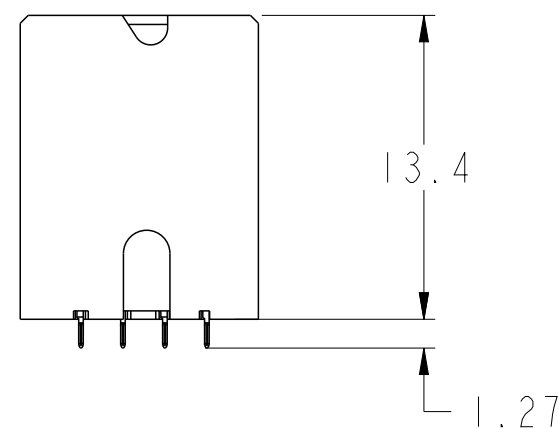
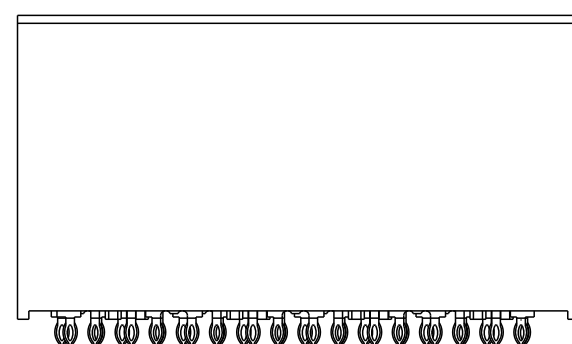
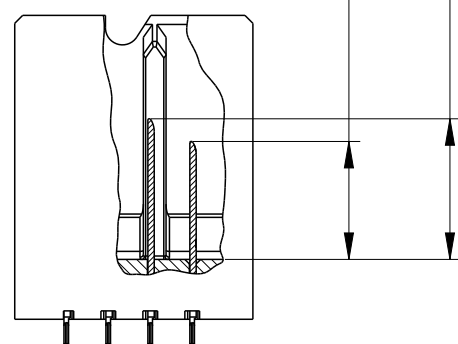


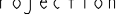
SEE NOTE 5



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



spec ref		SEE NOTES			dr		Jim Swain		2010/04/12		projection		size		scale						
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Roger Ng		2011/10/06				A2		3:1						
ASME Y14.5					chr		-		-				ecn no		ELX-S-006600-1						
					appr		Chen-Hong Tan		2011/10/07		product family		XCede		rel level						
															Released						
surface				linear		0.X		±0.2				title		MODULE ASSEMBLY VERTICAL HEADER, 4-COLUMN, 4-PAIR		dwg no		10091836		rev	
				0.XX		±0.10															
				0.XXX		±0.050															
ASME Y14.5		angular		0°		±°															

PDS: Rev :D

STATUS:Released

Printed: Oct 07, 2011



NOTES:

- CONNECTOR MATERIALS
SHROUD: HIGH-TEMP THERMOPLASTIC, GRAY, UL94V-0
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
- CONTACT PLATING:

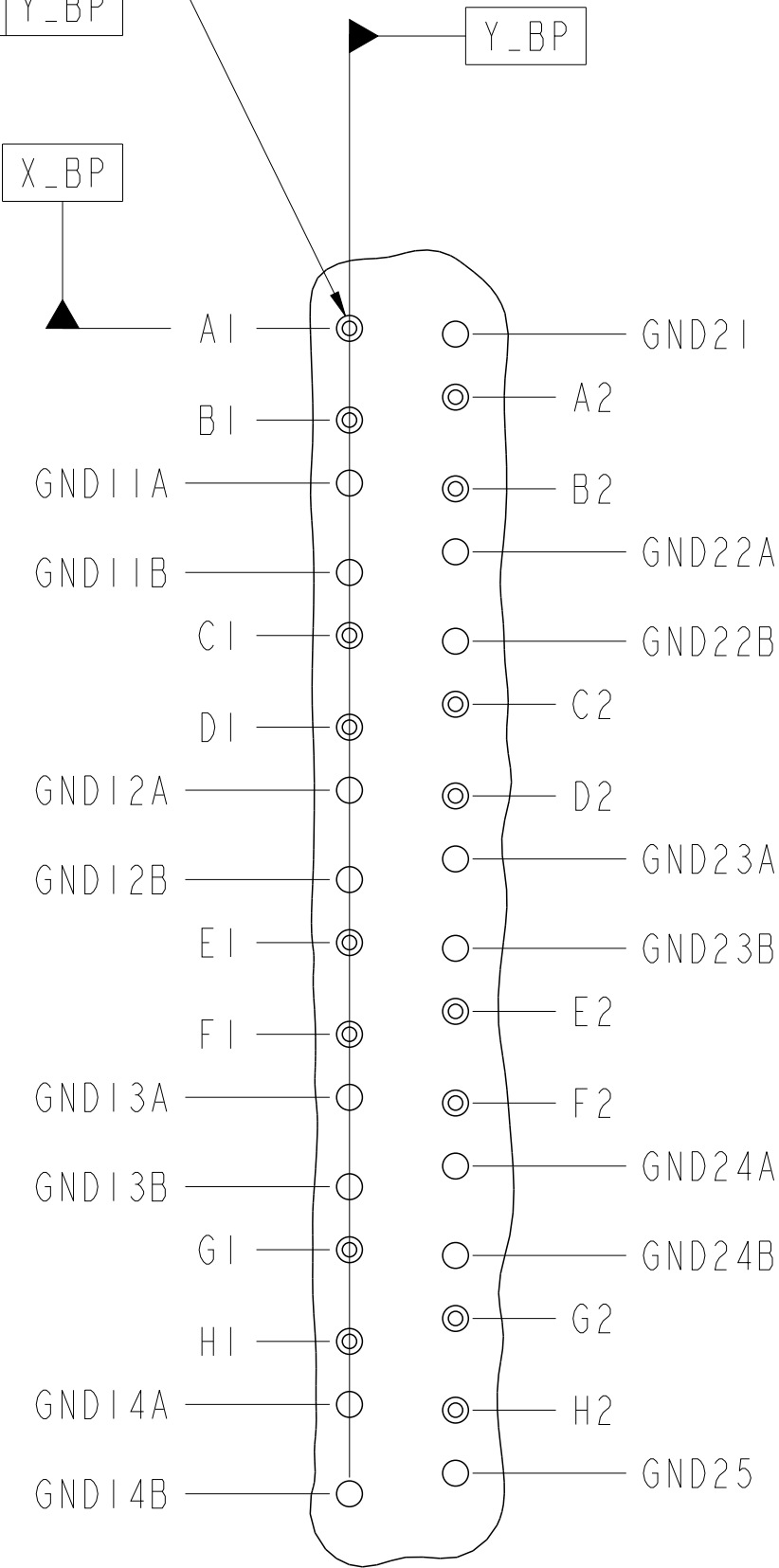
SEPARABLE INTERFACE: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-588, INCLUDING THE TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE (CO) OR UNCONTROLLED ENVIRONMENT (UE) TEST SEQUENCE AS NOTED IN P/N TREE.

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.
- A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE THAT HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

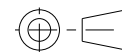
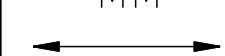
TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL		
COMPLIANT PIN DRILL	PTH	PAD
Ø0.55 [0.0217"]	Ø0.45±0.05	Ø0.85
Ø0.45 [0.0177"]	Ø0.36±0.05	Ø0.75

SEE TABLE 3 FOR PTH, DRILL & PAD SIZES

	Ø0.10	X_BP	Y_BP
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DETAIL A
SCALE 8:1

spec ref	SEE NOTES				dr	Jim Swain	2010/04/12			size	A2	scale	4:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	Roger Ng	2011/10/06			ecn no	ELX-S-006600-1				
ASME Y14.5					chr	-	-			product family			XCode	rel level	Released
		appr	Chen-Hong Tan			2011/10/07									
	linear		0.X	±0.2		title	MODULE ASSEMBLY				dwg no	10091836		rev	D
			0.XX	±0.10											
		ASME Y14.5		0.XXX											
		angular	0°	±°			www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 8 of 8		