10119187 - X 0 J - X X X LF

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	GUIDE PIN STYLE, HEIGHT
0	STANDARD GUIDE PIN MACHINED, 31.6mm
4	STANDARD GUIDE PIN MACHINED, 25.7mm

NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	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"]

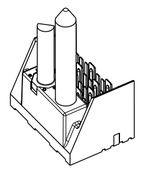
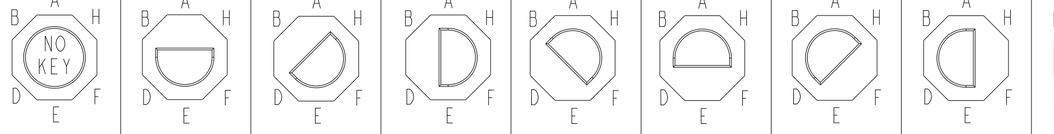
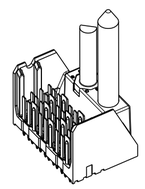
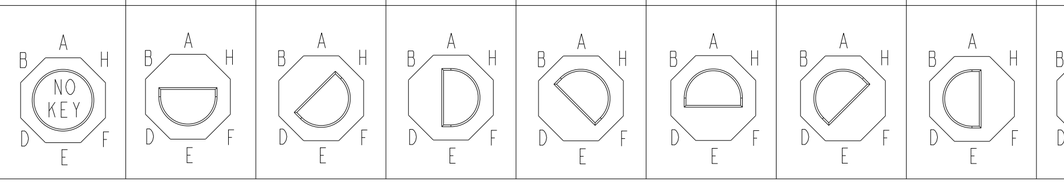
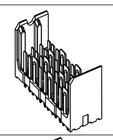
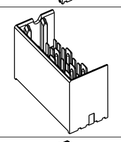
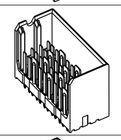
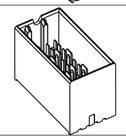
MODULE DESCRIPTION	LETTER DESIGNATION REPRESENTED IN DASH NUMBER									BASE MODULE
LEFT POLARIZING GUIDANCE MODULE (SEE SHEET 3)	J	A	B	C	D	E	F	G	H	
										
RIGHT POLARIZING GUIDANCE MODULE (SEE SHEET 4)	Y	P	Q	R	S	T	U	V	W	
										
OPEN MODULE (TWO WALL) (SEE SHEET 2)	0 (ZERO)									
LEFT WALL MODULE (SEE SHEET 5)	L									
RIGHT WALL MODULE (SEE SHEET 6)	M									
FOUR WALL MODULE (SEE SHEET 7)	I (ONE)									

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" PHILIPS PANHEAD W/SQ CONICAL WASHER	1.60 - 5.00
10091790-003LF	#2.56 X .500" PHILIPS PANHEAD W/SQ CONICAL WASHER	5.00 - 10.00

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spec ref	-		dr	Roger Ng	2011/11/22	projection	MM
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02		
			chr	-	-		
			appr	Chen-Hong Tan	2014/12/10	product family	XCEDE
surface ASME Y14.5	linear	0.X ±0.2	FCI	title	MODULE ASSEMBLY	dwg no	10119187
		0.XX ±0.10			VERTICAL HEADER 4 COLUMN, 3 PAIR		
		0.XXX ±0.050					
	angular	0° ±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 1 of 8

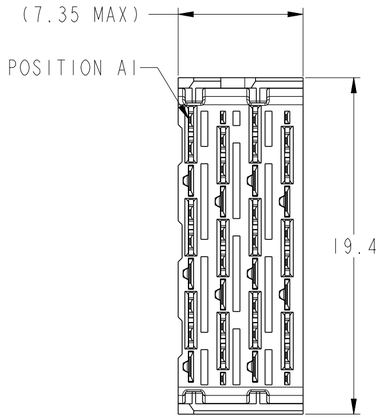
size	scale	rev
A2	4:1	B

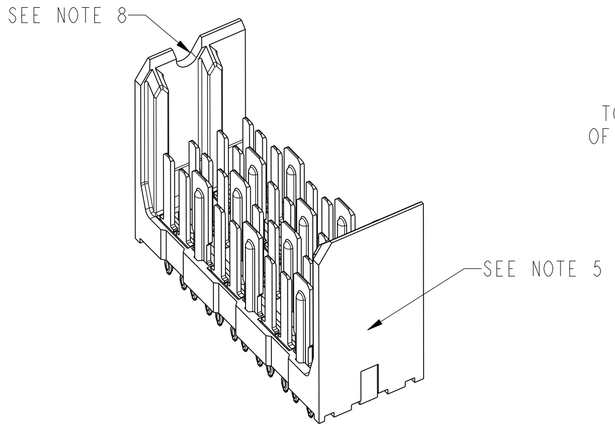
ecn no ELX-S-18843-1
rel level Released

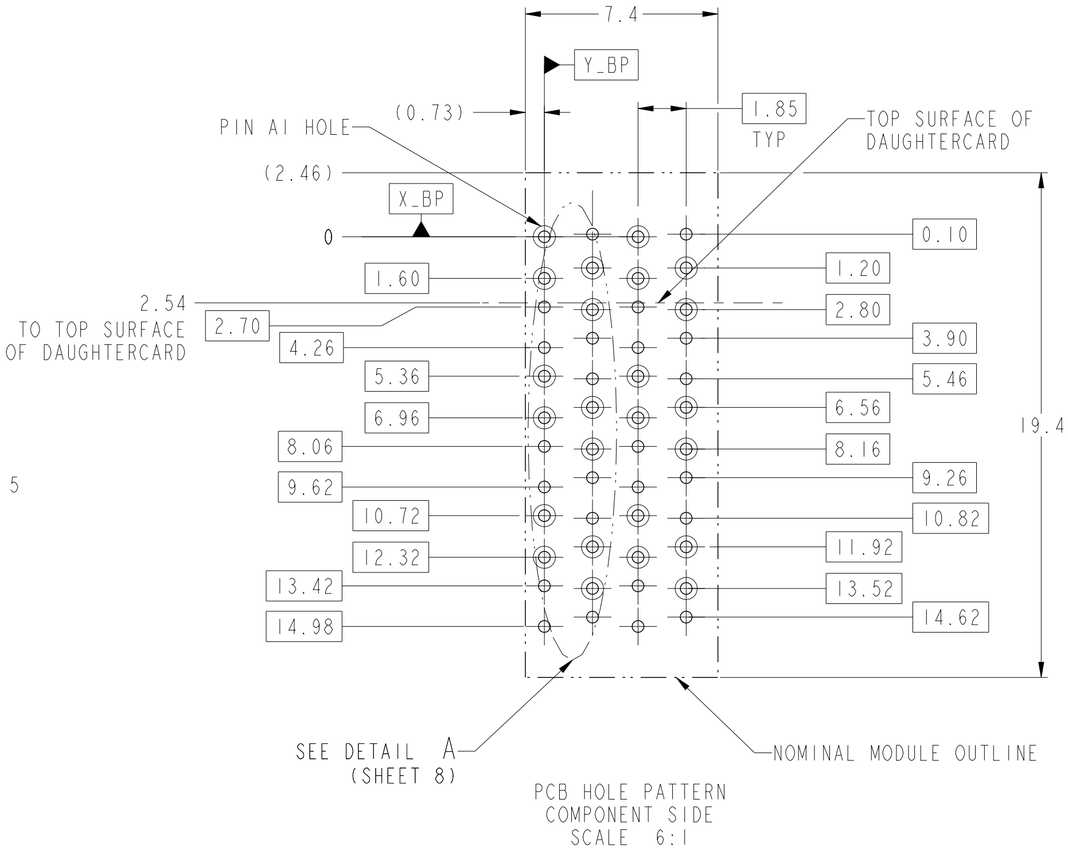
Pro/E File - REV C - 2009-06-09

PDS: Rev :B STATUS: Released Printed: Dec 10, 2014

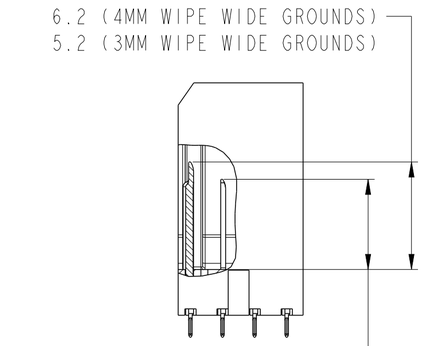
OPEN (2- WALL) MODULE

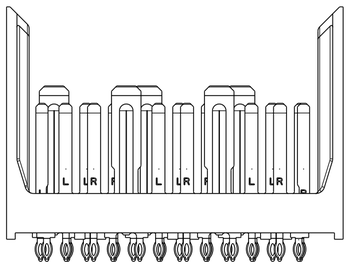


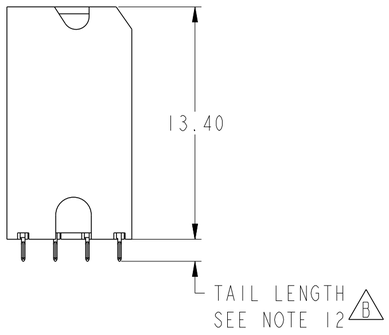




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1







spec ref	-		dr	Roger Ng	2011/11/22	projection	MM	size A2 / scale 4:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02			ecn no ELX-S-18843-1
			chr	-	-			
			appr	Chen-Hong Tan	2014/12/10	product family	XCEDE	rel level Released
surface ASME Y14.5	linear	0.X ±0.2	FCI www.fci.com	title	MODULE ASSEMBLY			dwg no 10119187 / rev B
		0.XX ±0.10			VERTICAL HEADER 4 COLUMN, 3 PAIR			
		0.XXX ±0.050		cat. no.	-	Product - Customer Drw		sheet 2 of 8
	angular	0° ±2°						

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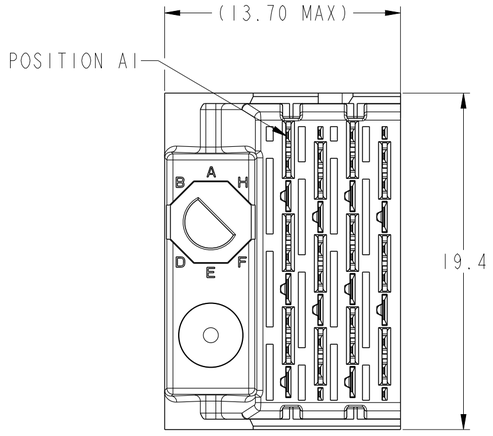
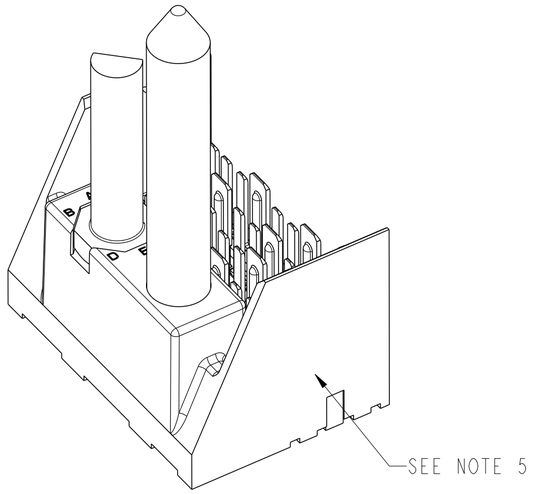
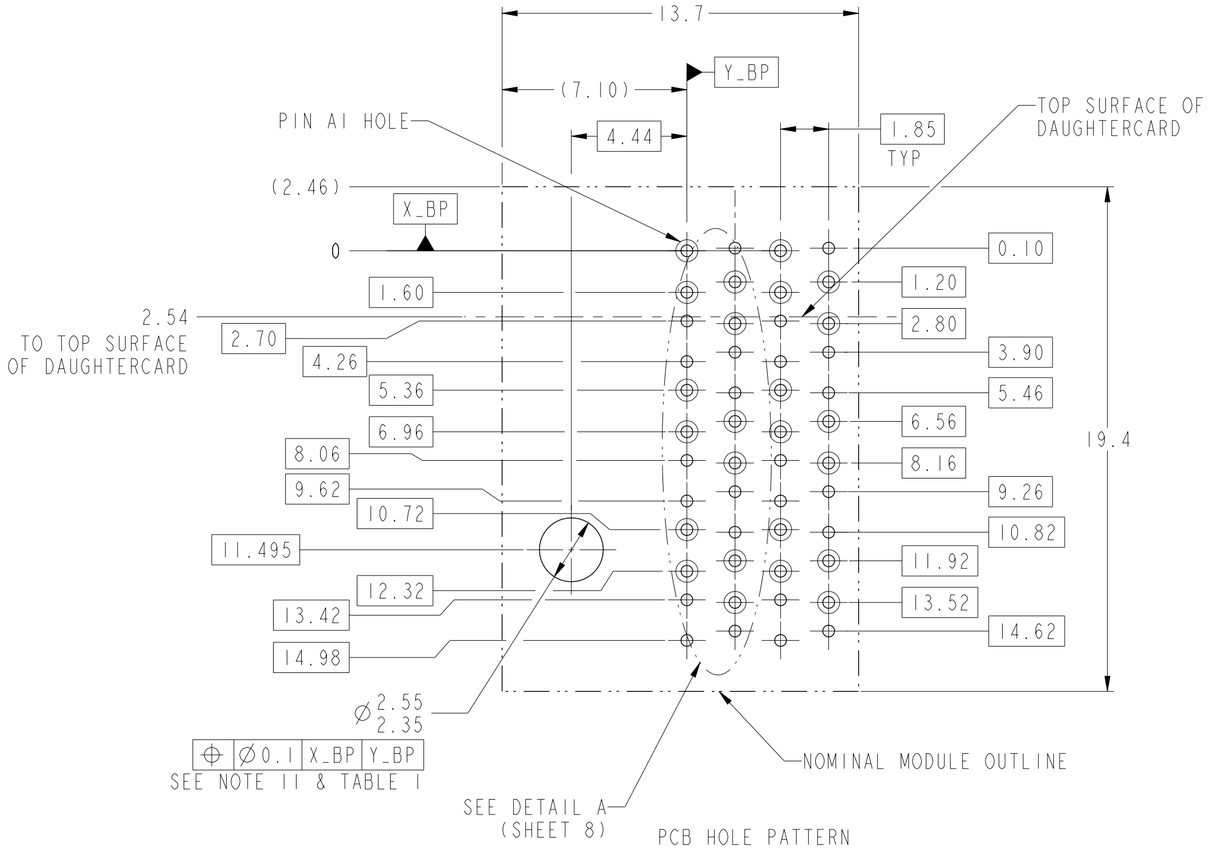
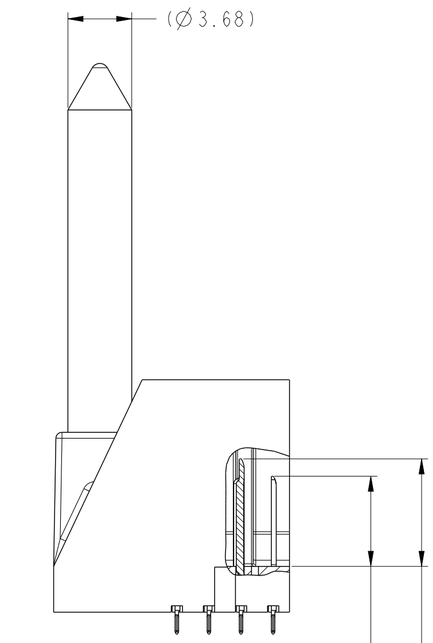
LEFT POLARIZING/GUIDE MODULE

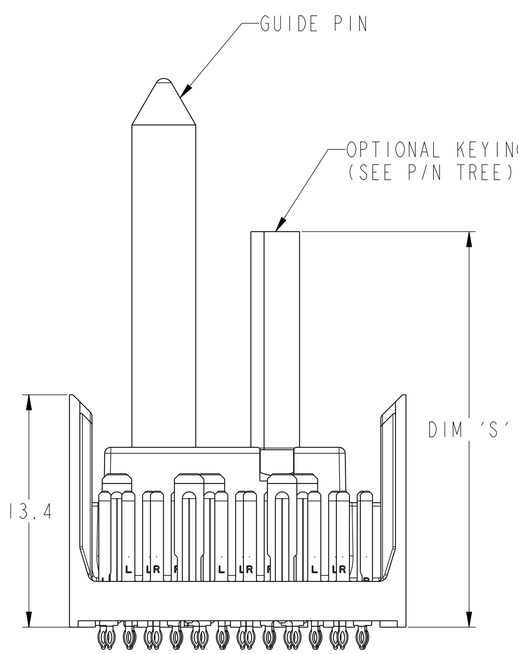


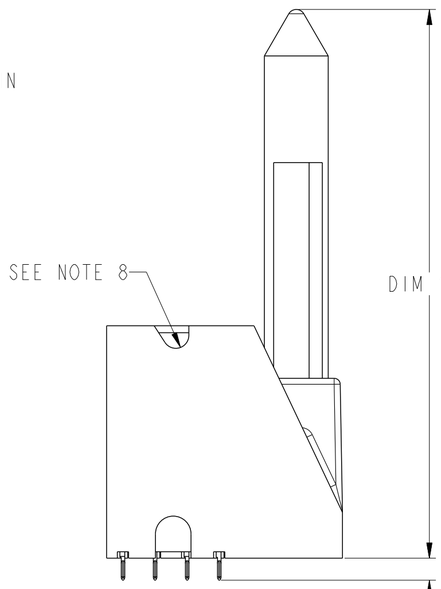




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1







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

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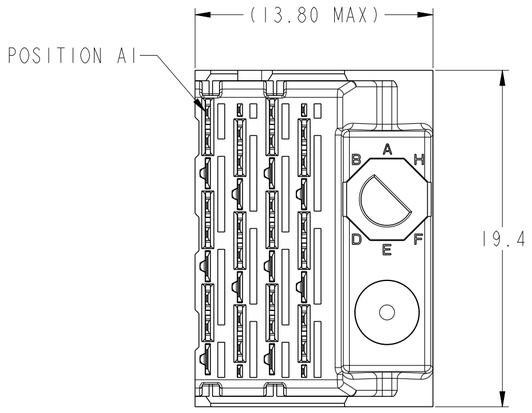
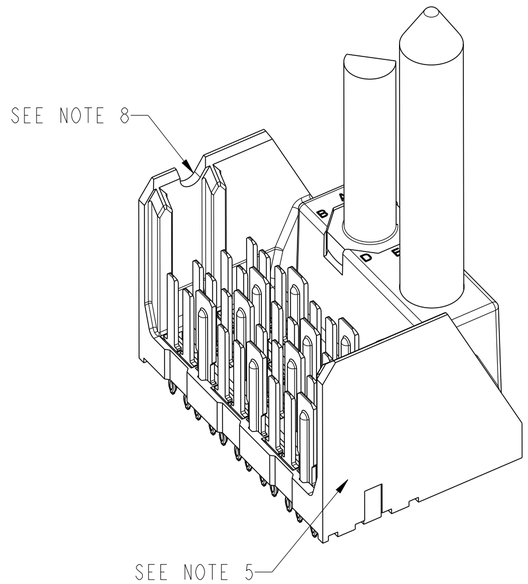
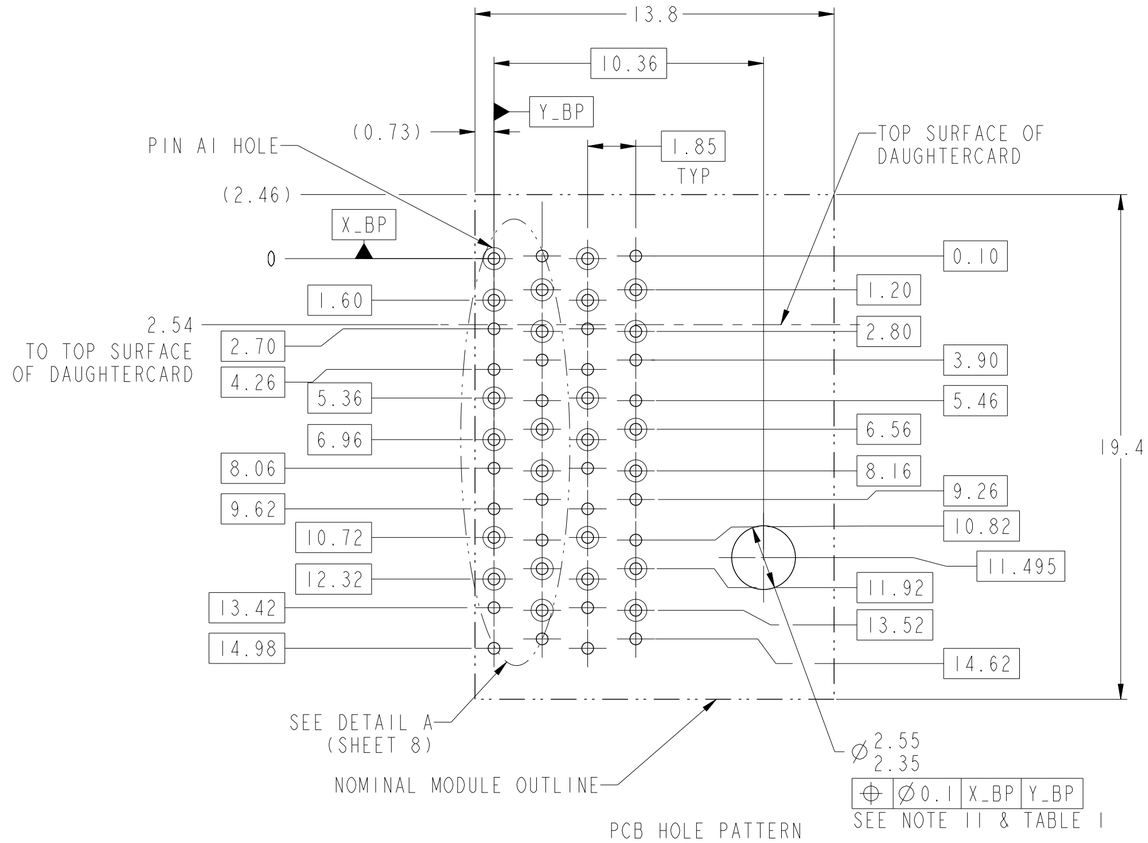
spec ref	-		dr	Roger Ng	2011/11/22	projection	MM
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02		
			chr	-	-		
			appr	Chen-Hong Tan	2014/12/10	product family	XCEDE
surface ASME Y14.5	linear	0.X	±0.2	FCI www.fci.com	title	MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR	
		0.XX	±0.10				
		0.XXX	±0.050				
	angular	0°	±2°				

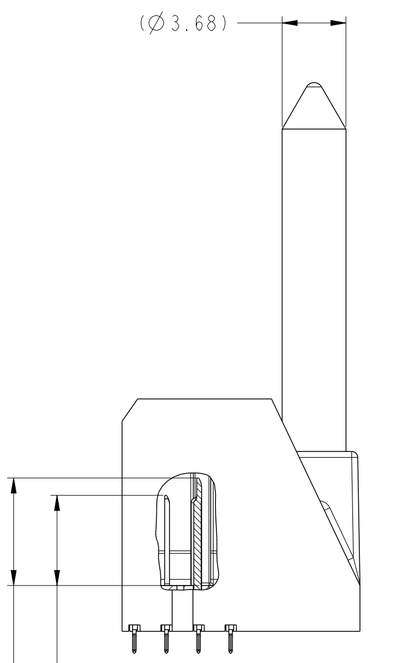
size	scale				
A2	4:1				
ecn no	ELX-S-18843-1				
rel level	Released				
dwg no	10119187	rev	B		
cat. no.	-	Product - Customer Drw		sheet 3 of 8	

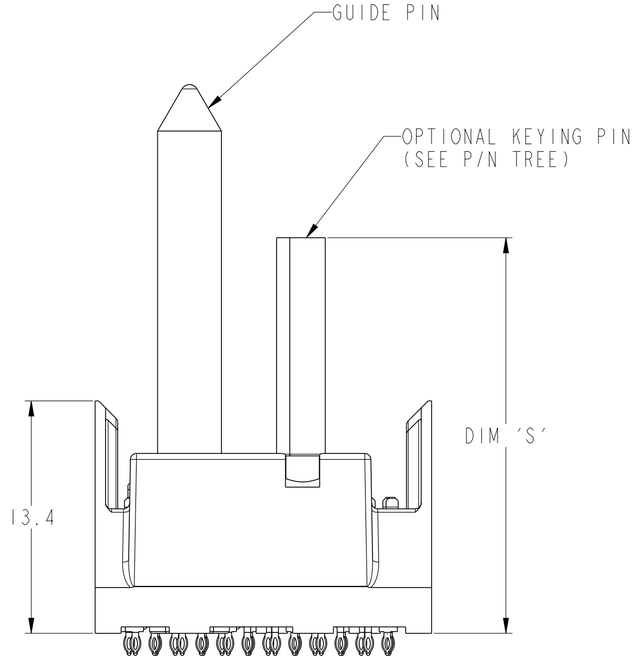
RIGHT POLARIZING/GUIDE MODULE

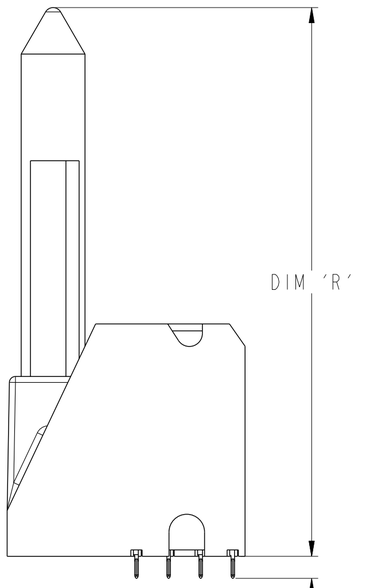












ASSEMBLY BASE CONFIGURATION END DASH NO.	GUIDE PIN DIM 'R'	POLARIZING KEY DIM 'S'
-X0X	31.6mm	22.8mm
-X4X	25.7mm	20.0mm

spec ref	-		dr	Roger Ng	2011/11/22	projection	MM
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02		
			chr	-	-		
			appr	Chen-Hong Tan	2014/12/10	product family	XCEDE
surface ASME Y14.5	linear	0.X ±0.2	FCI www.fci.com	title	MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR	dwg no	10119187
		0.XX ±0.10					rev B
		0.XXX ±0.050		cat. no.	-	Product - Customer Drw	
	angular	0° ±2°					sheet 4 of 8

size A2 | scale 4:1 | ecn no ELX-S-18843-1 | rel level Released

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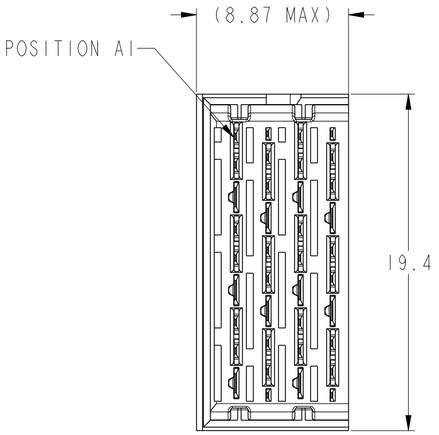
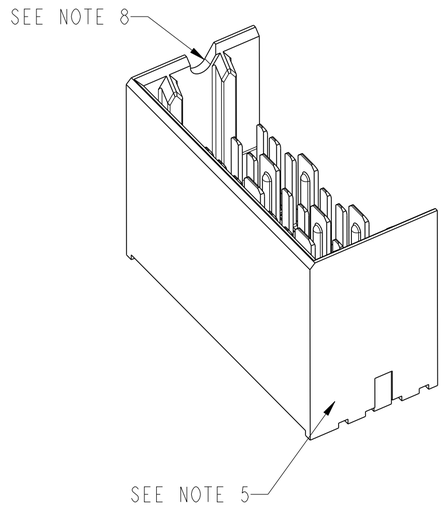
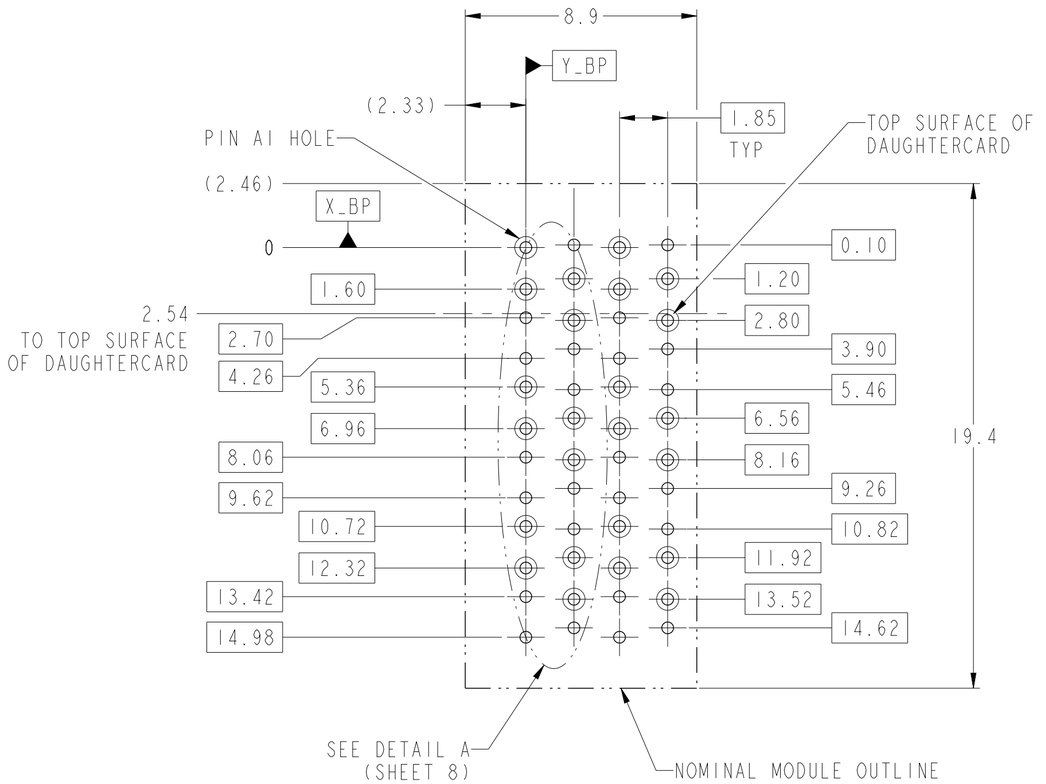
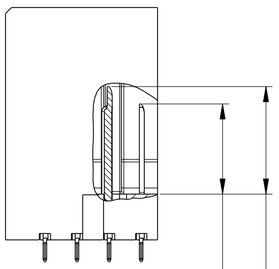
LEFT WALL MODULE

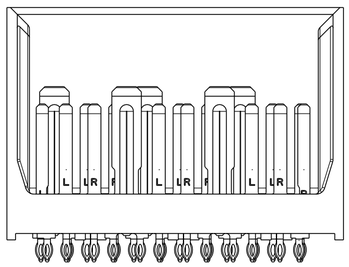


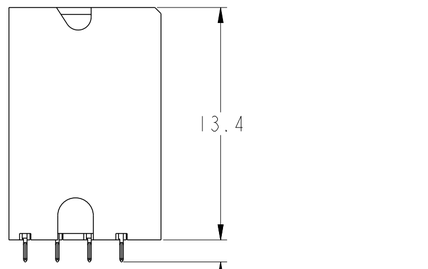




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1







spec ref	-		dr	Roger Ng	2011/11/22	projection	MM	size A2 / scale 4:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02			ecn no ELX-S-18843-1
			chr	-	-			
			appr	Chen-Hong Tan	2014/12/10	product family XCEDE		rel level Released
surface ASME Y14.5	linear	0.X ±0.2	FCI www.fci.com	title MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR			dwg no 10119187	rev B
		0.XX ±0.10						
		0.XXX ±0.050						
	angular	0° ±2°		cat. no. -		Product - Customer Drw		sheet 5 of 8

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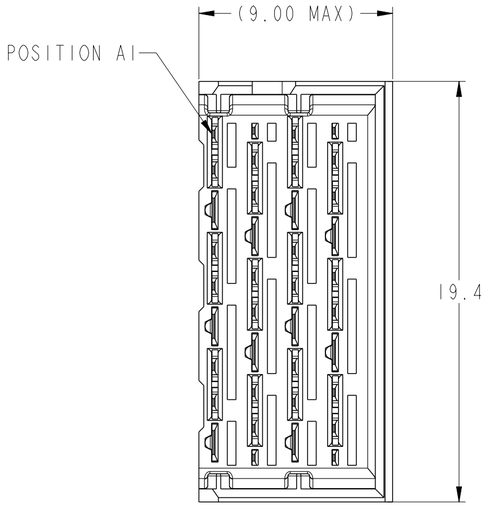
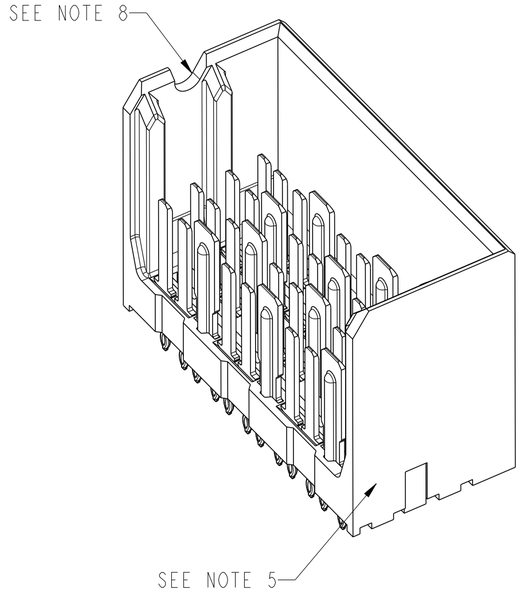
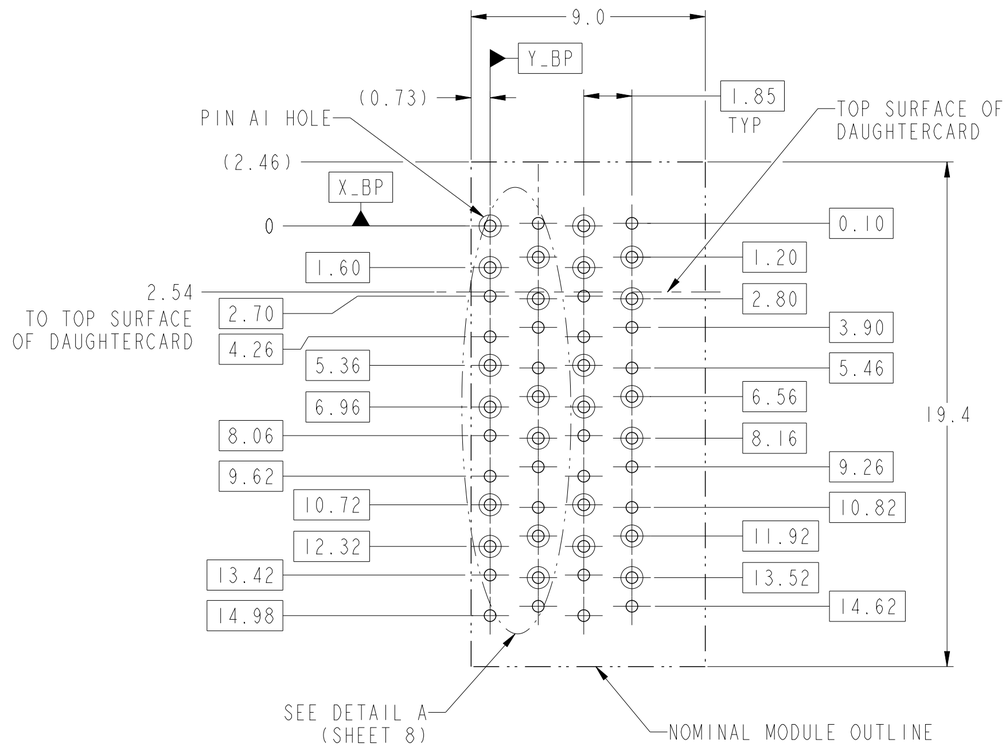
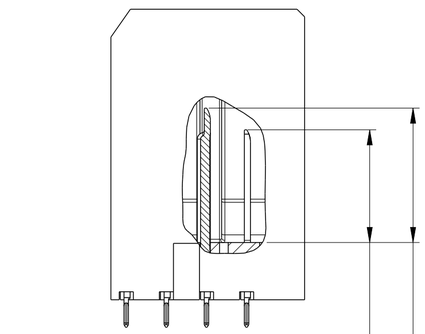
RIGHT WALL MODULE

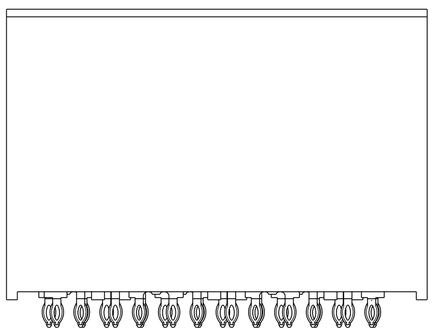


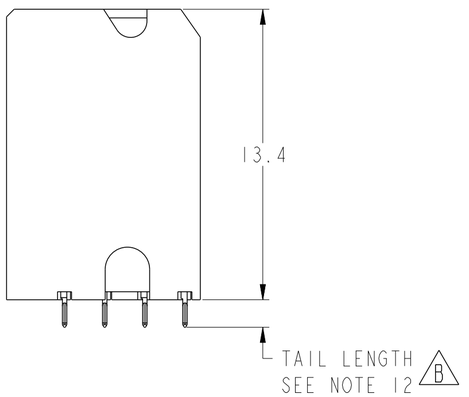




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1







spec ref -			dr	Roger Ng	2011/11/22	projection	MM	size A2 / scale 4:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02			ecn no ELX-S-18843-1
			chr	-	-			
			appr	Chen-Hong Tan	2014/12/10	product family XCEDE		rel level Released
surface ASME Y14.5	linear	0.X ±0.2	FCI	www.fci.com	title	MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR		dwg no 10119187 / rev B
		0.XX ±0.10						
		0.XXX ±0.050						
	angular	0° ±2°			cat. no. -	Product - Customer Drw		sheet 6 of 8

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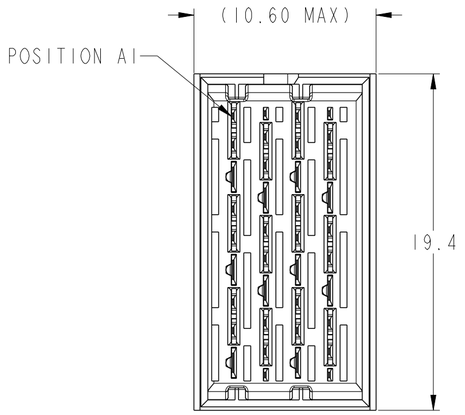
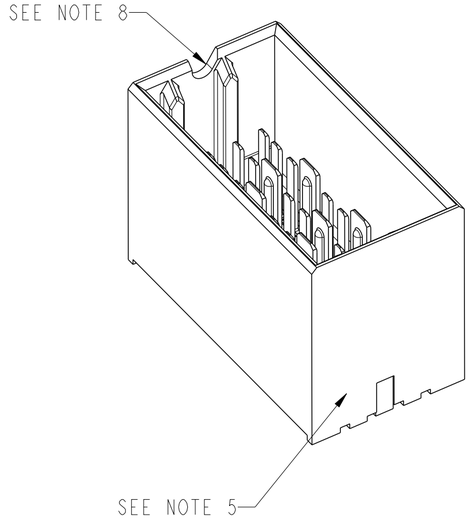
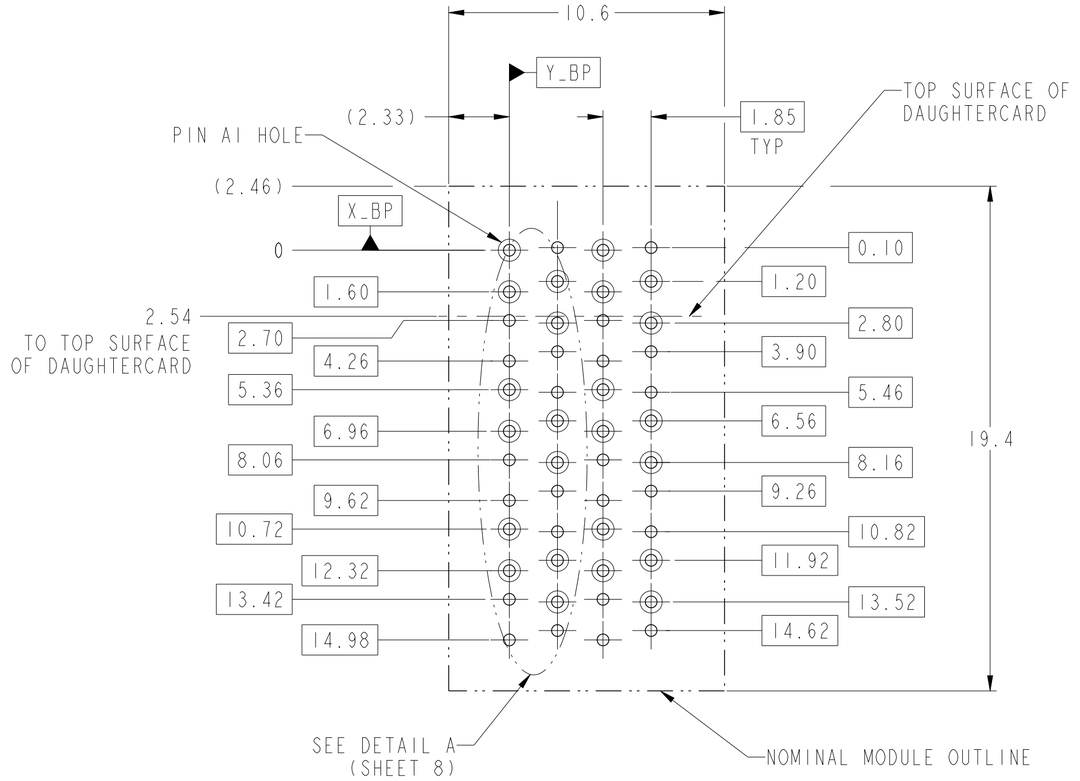
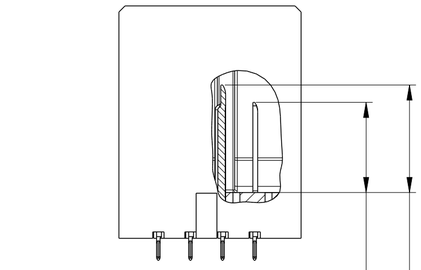
FOUR WALL MODULE

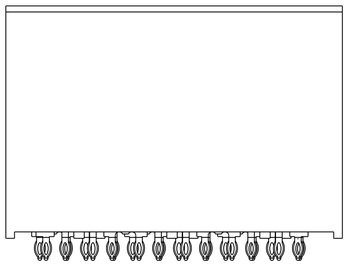


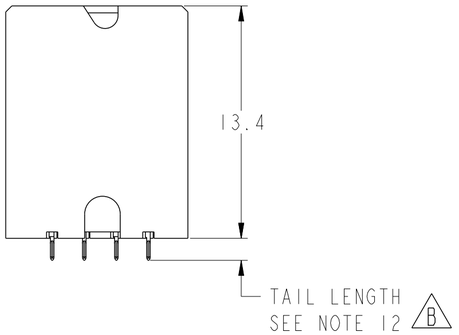




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1







spec ref	-		dr	Roger Ng	2011/11/22	projection	MM	size A2 / scale 4:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02			ecn no ELX-S-18843-1
			chr	-	-			
			appr	Chen-Hong Tan	2014/12/10	product family XCEDE		rel level Released
surface ASME Y14.5	linear	0.X ±0.2	FCI www.fci.com			title MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR		dwg no 10119187 / rev B
		0.XX ±0.10						
		0.XXX ±0.050						
	angular	0° ±2°				cat. no. -	Product - Customer Drw	sheet 7 of 8

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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.

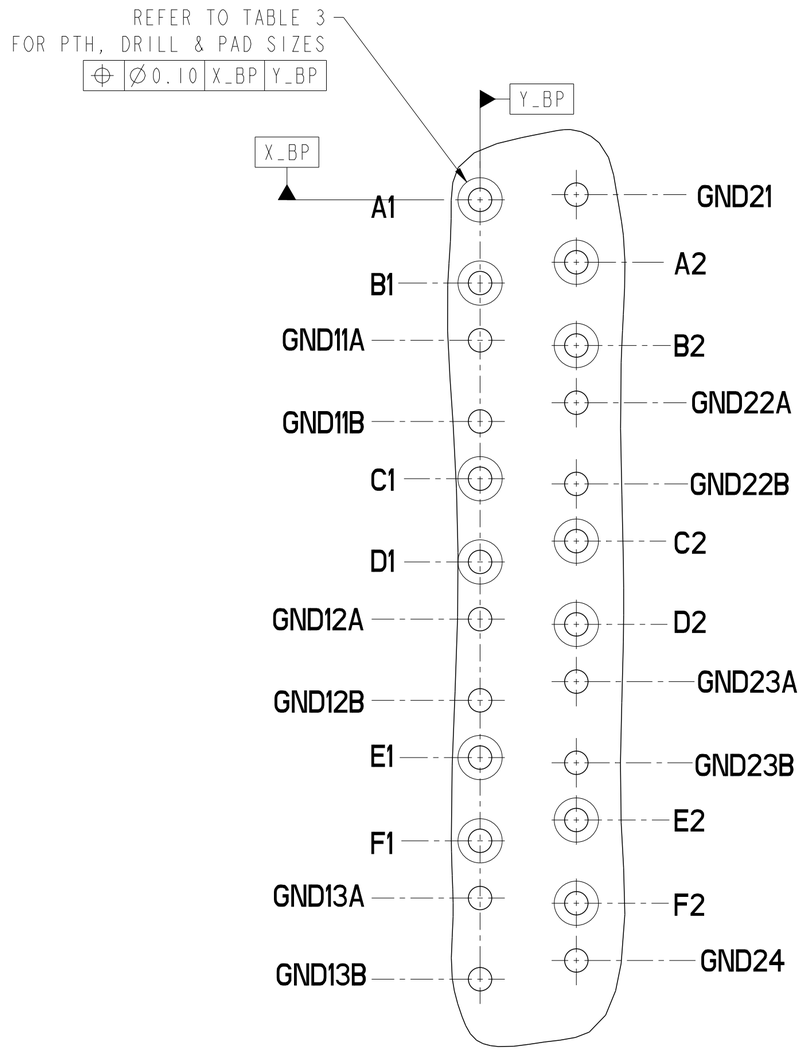
(11.) OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE-PIN SUPPORT. SEE TABLE 1 ON SHEET 1 FOR ADDITIONAL DETAILS.

(B) (12.) TAIL LENGTH=1.3mm FOR ∅0.55[0.0217"]COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR ∅0.45[0.0177"]COMPLIANT PIN DRILL

13. A (B) 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
∅0.55 [0.0217"]	∅0.45±0.05	∅0.85
∅0.45 [0.0177"]	∅0.36±0.05	∅0.75



DETAIL A
SCALE 12:1

spec ref	-		dr	Roger Ng	2011/11/22	projection	MM	size A2	scale 4:1
tolerance std - ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Sandar Soe	2014/10/02				
			chr	-	-			ecn no	ELX-S-18843-1
			appr	Chen-Hong Tan	2014/12/10	product family	XCEDE	rel level	Released
surface ASME Y14.5	linear	0.X ±0.2	FCI www.fci.com	title	MODULE ASSEMBLY VERTICAL HEADER 4 COLUMN, 3 PAIR			dwg no 10119187	rev B
		0.XX ±0.10							
		0.XXX ±0.050							
	angular	0° ±2°		cat. no.	-	Product - Customer Drw		sheet 8 of 8	

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