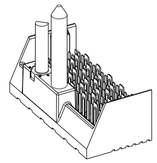
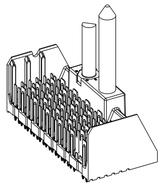
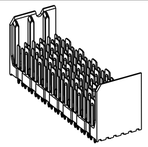
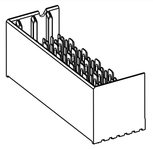
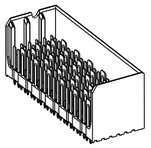
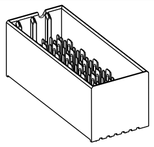
10104997 - X 0 C - X 0 X L F

- 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

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	∅0.55 [0.0217"]
2	3	4	∅0.55 [0.0217"]
3	2	4	∅0.45 [0.0177"]
4	3	4	∅0.45 [0.0177"]
5	2	3	∅0.55 [0.0217"]
6	3	3	∅0.55 [0.0217"]
7	2	3	∅0.45 [0.0177"]
8	3	3	∅0.45 [0.0177"]

TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)

	GROUNDED	UNGROUNDED
FINISHED	∅2.35-2.55	∅2.35-2.55
PAD	∅5.50	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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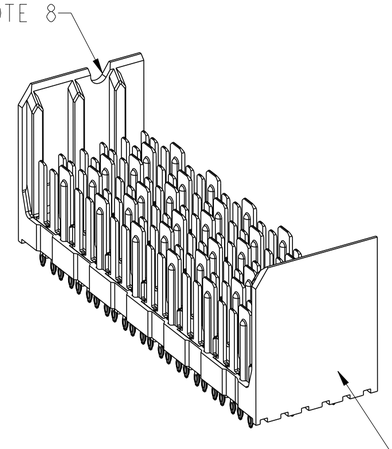
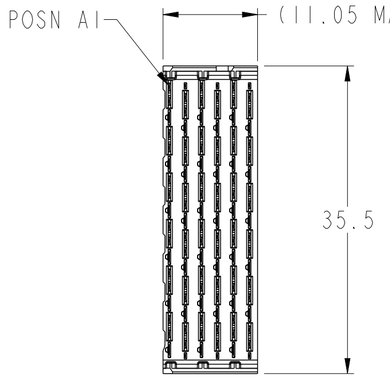
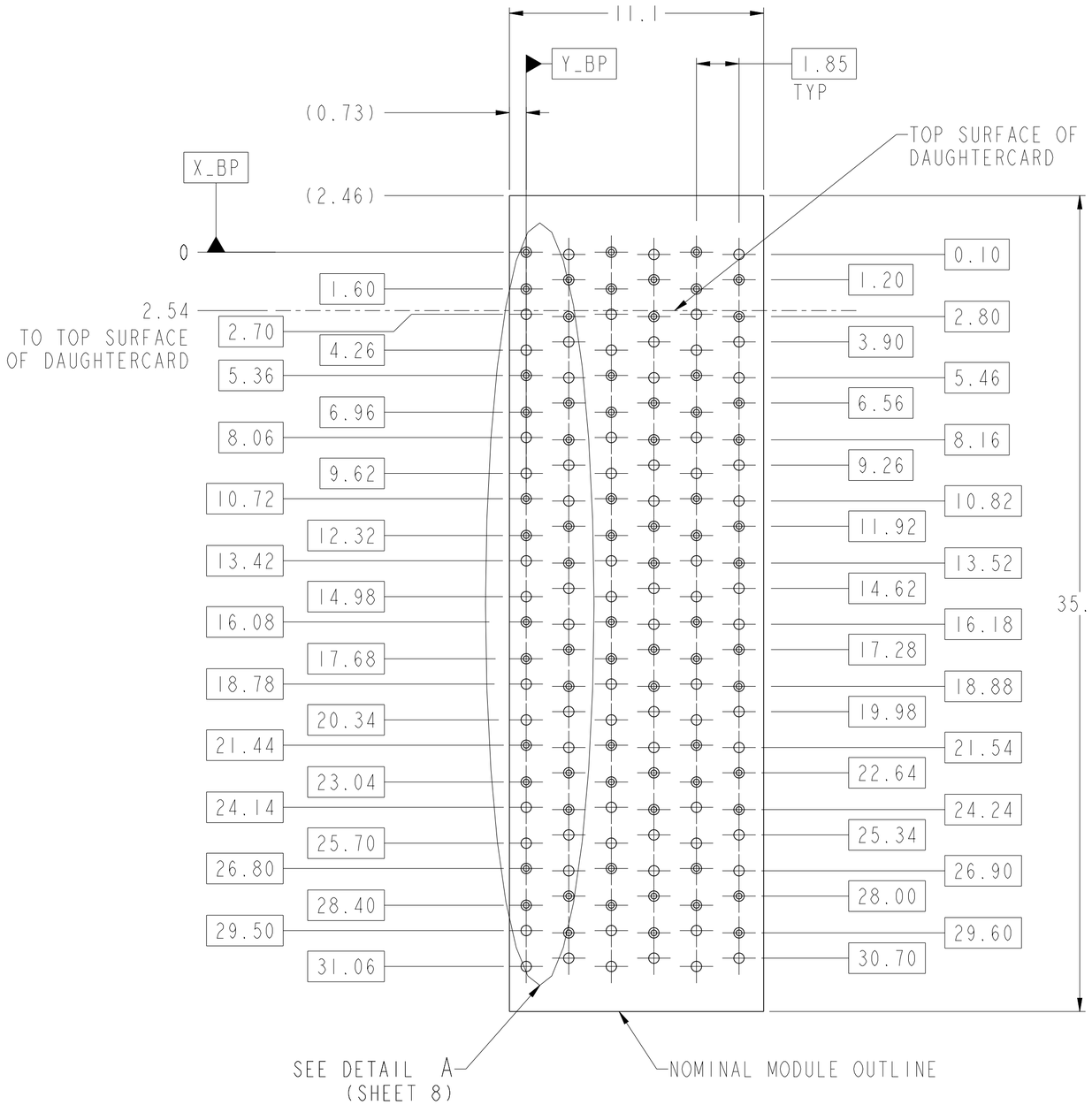
spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/23	projection	MM
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Sandar Soe	2014/10/02		
		chr	-	-		
		appr	Chen-Hong Tan	2014/12/10		

size A2	scale 4:1						
ecn no ELX-S-18843-1							
product family XCede	rel level Released						
surface ASME Y14.5	linear	0.X	±0.2	FCI www.fci.com	title MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR	dwg no 10104997	rev E
		0.XX	±0.10				
		0.XXX	±0.050				
	angular	0°	±°	cat. no. SEE P/N TREE	Product - Customer Drw	sheet 1 of 8	

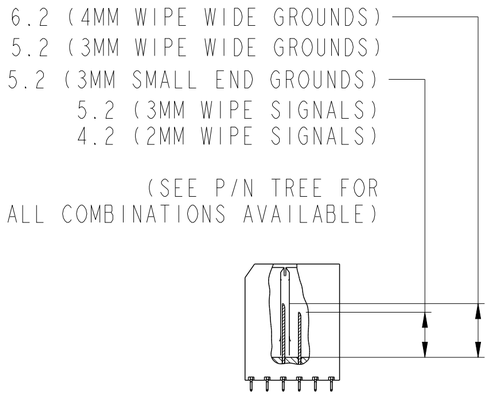
OPEN (2-WALL) MODULE

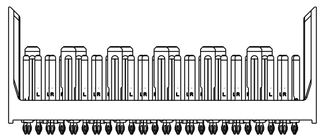


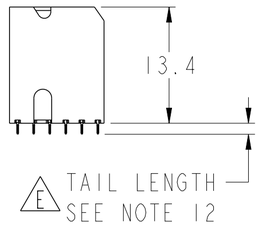




PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1







spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/23	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	dwg no	10104997
		0.XX ±0.10			VERTICAL HEADER, 6-COLUMN, 6-PAIR		
		0.XXX ±0.050		cat. no.	SEE P/N TREE	Product - Customer Drw	
	angular	0° ±°					

size	scale	rev
A2	4:1	E

ecn no ELX-S-18843-1
rel level **Released**
sheet 2 of 8

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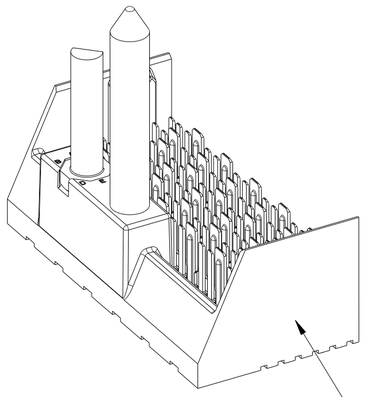
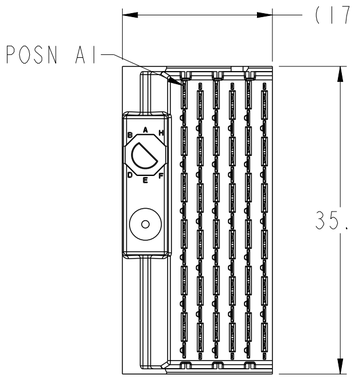
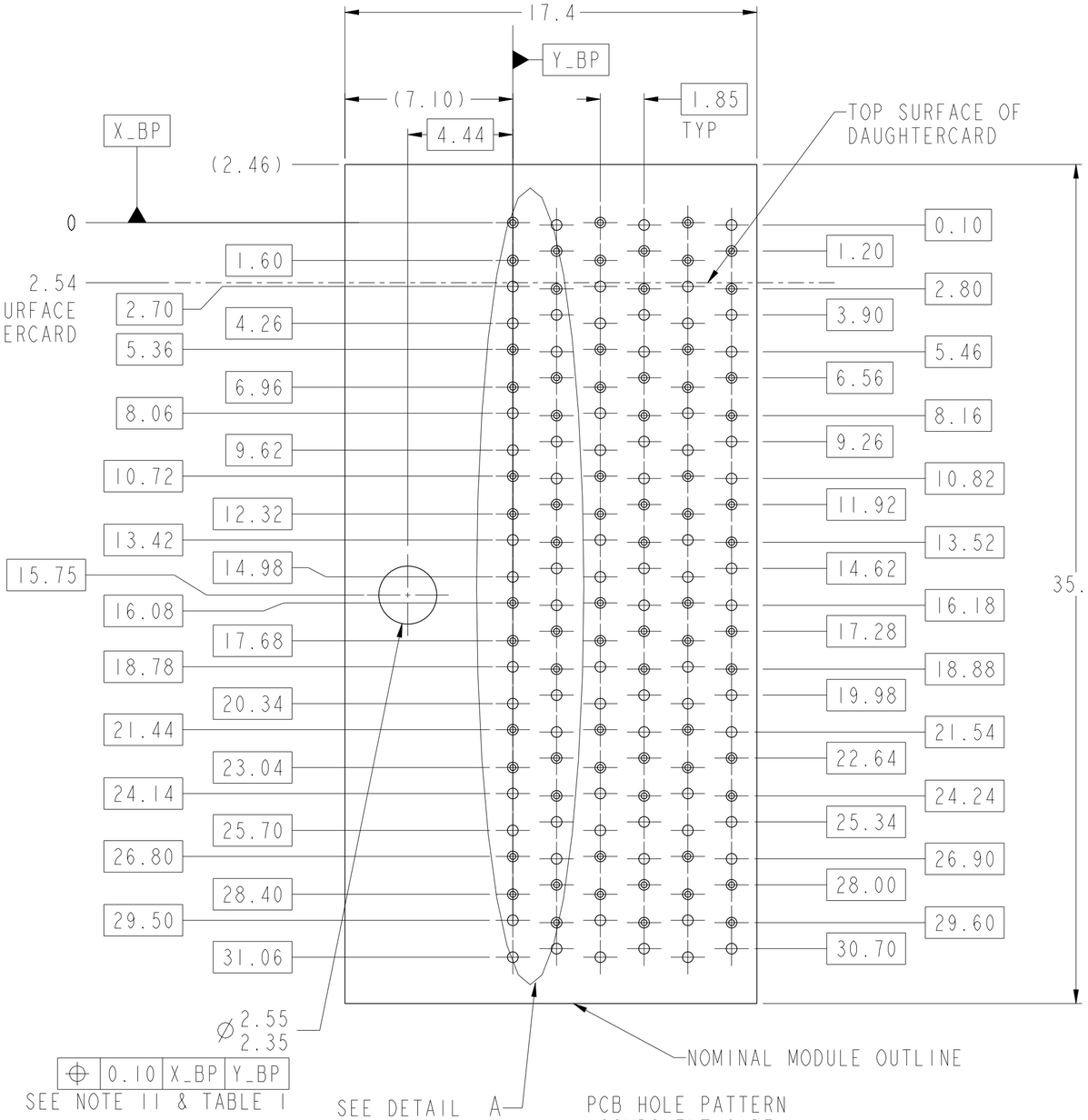
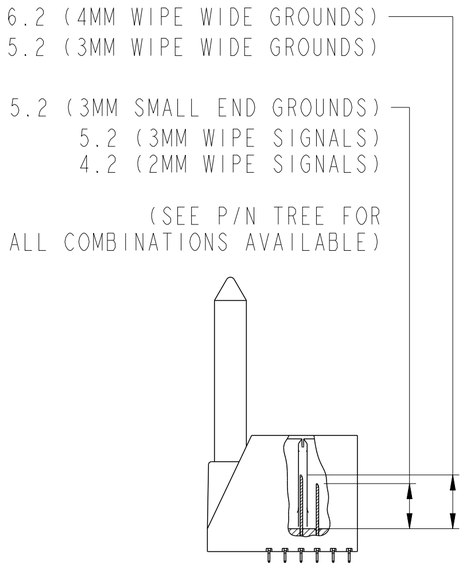
LEFT POLARIZING/GUIDE MODULE

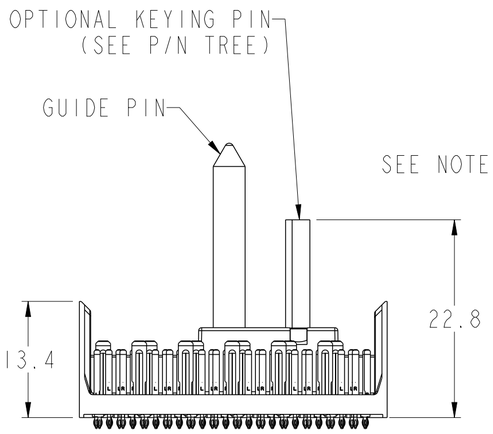


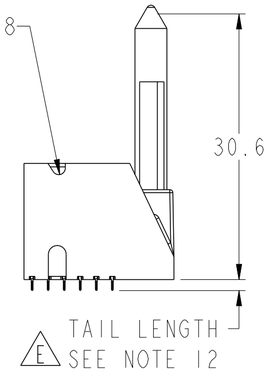
SEE NOTE 5











spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	projection MM
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Sandar Soe	2014/10/02	size A2 / scale 4:1
				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, 6-COLUMN, 6-PAIR		dwg no 10104997 / rev E
		0.XX	±0.10				
		0.XXX	±0.050				
	angular	0°	± °	www.fci.com	cat. no. SEE P/N TREE	Product - Customer Drw	sheet 3 of 8

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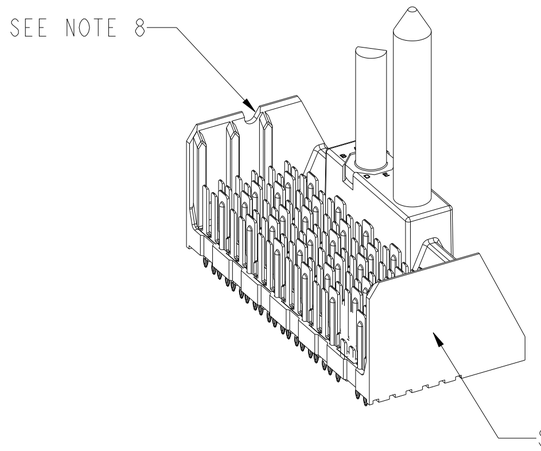
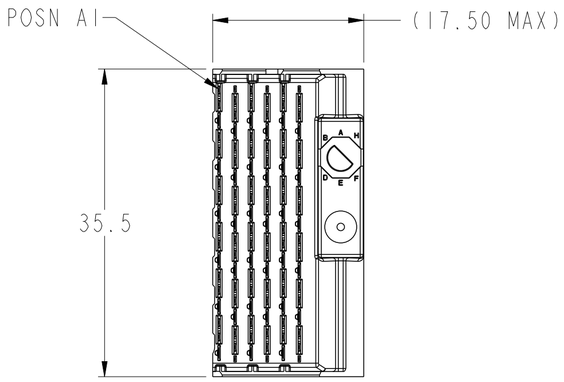
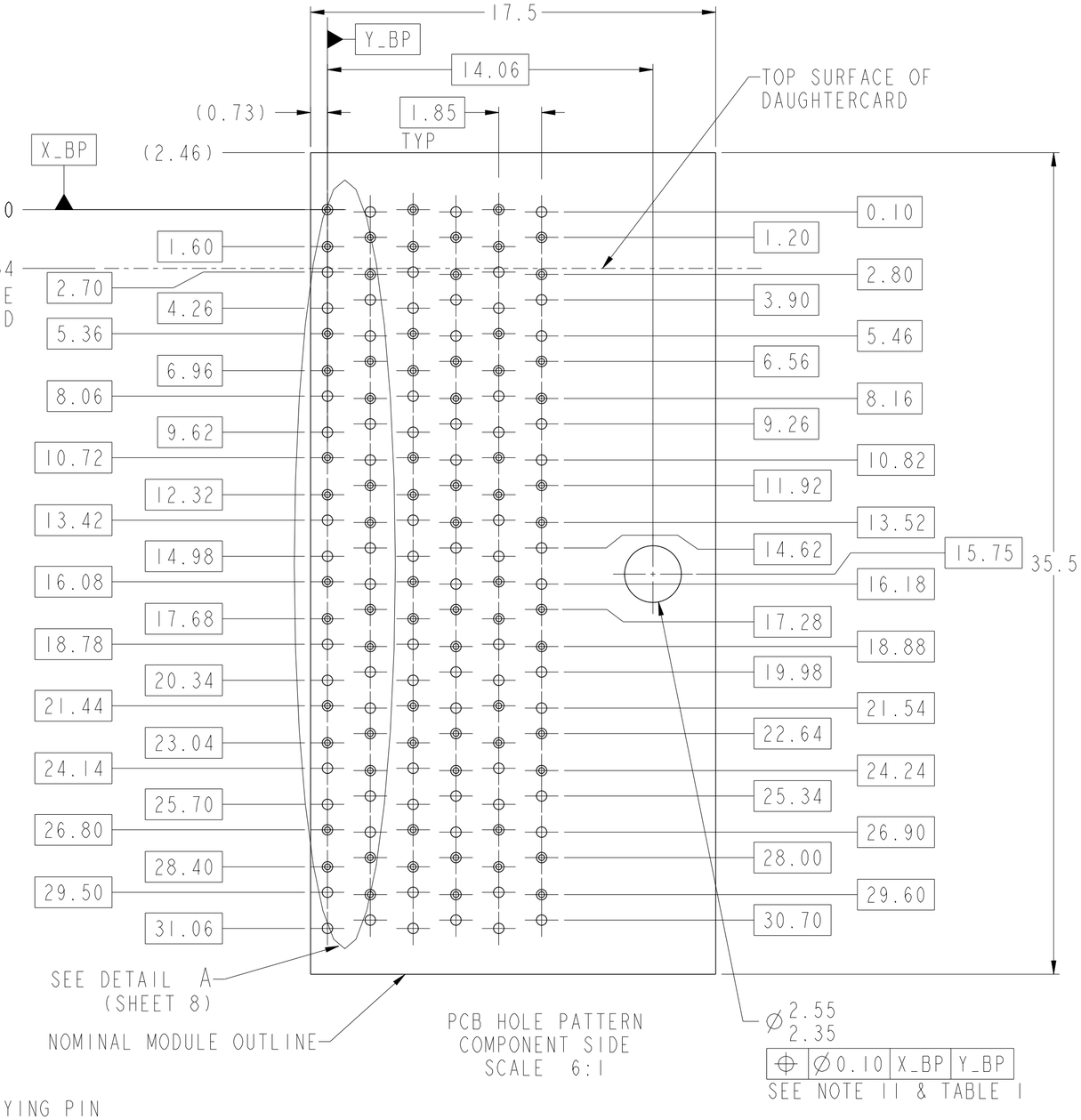
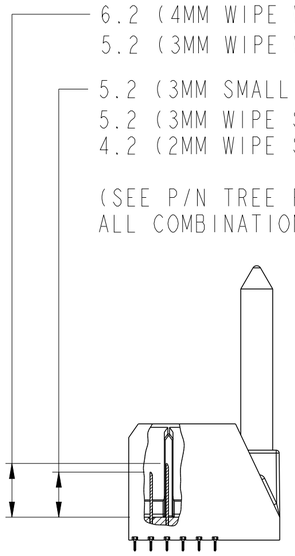
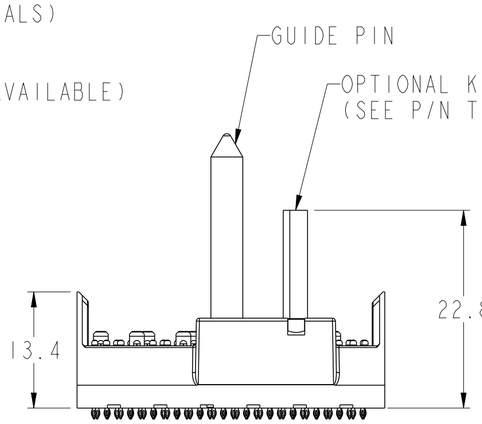
RIGHT POLARIZING/GUIDE MODULE

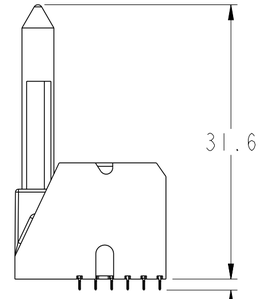












spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	projection MM	size A2	scale 4:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Sandar Soe	2014/10/02		ecn no	ELX-S-18843-1
				chr	-	-			
				appr	Chen-Hong Tan	2014/12/10	product family XCede	rel level	Released
surface - ASME Y14.5	linear	0.X	±0.2	FCI www.fci.com	title MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR		dwg no 10104997	rev E	
		0.XX	±0.10						
		0.XXX	±0.050						
	angular	0°	± °		cat. no. SEE P/N TREE	Product - Customer Drw		sheet 4 of 8	

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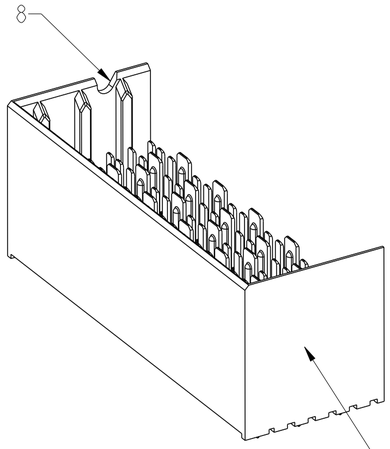
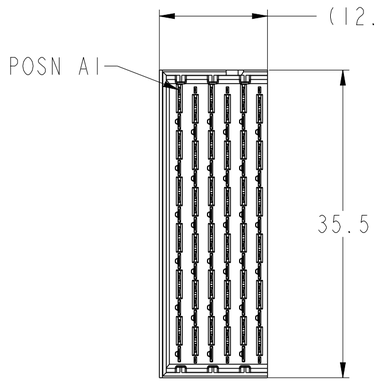
LEFT WALL MODULE

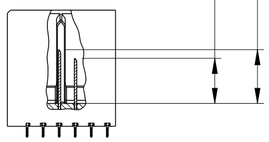


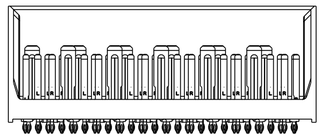


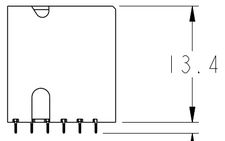
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

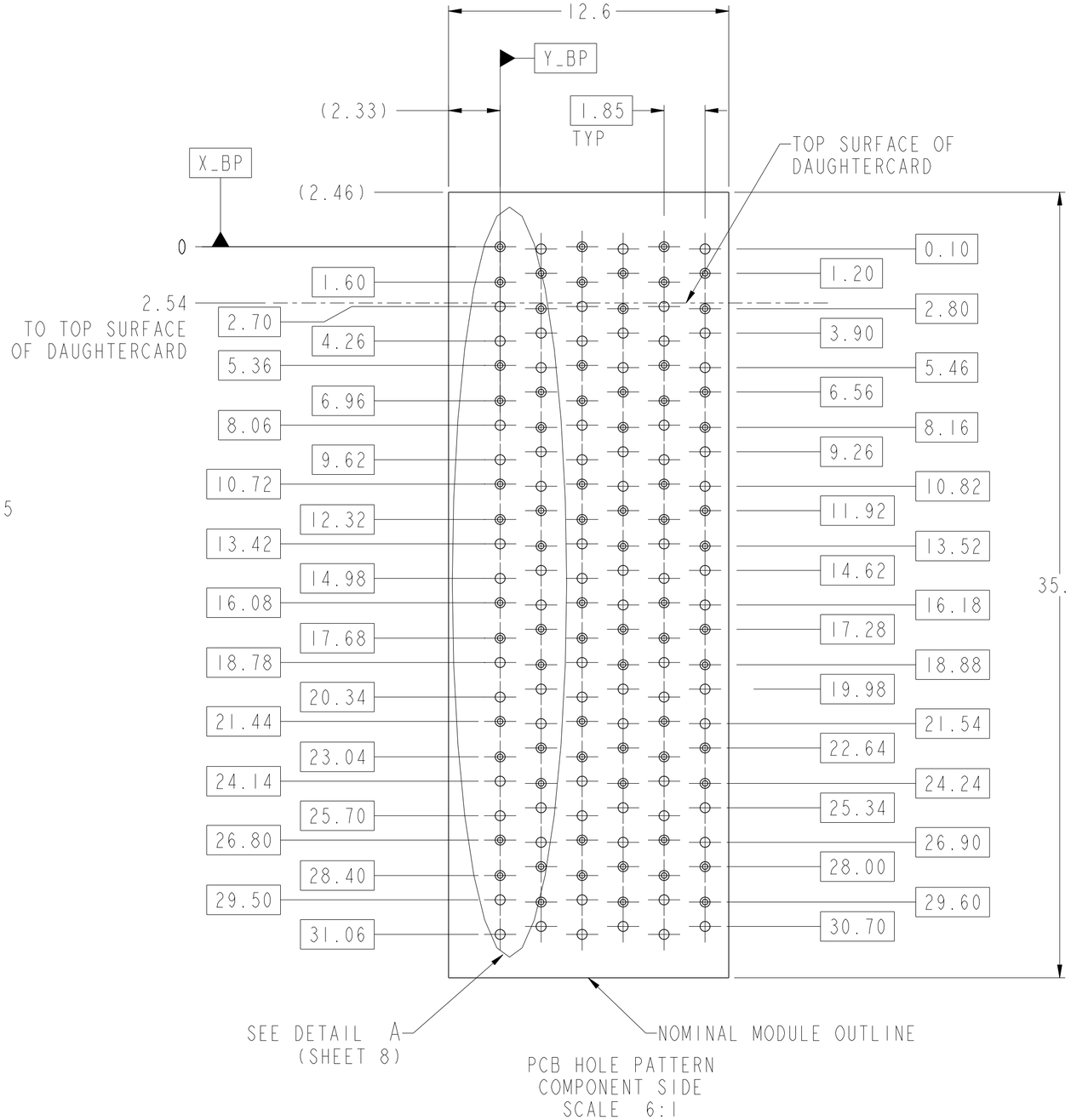
(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)







TAIL LENGTH
SEE NOTE 12



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	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	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR	dwg no	10104997	rev E
		0.XX	±0.10						
		0.XXX	±0.050						
	angular	0°	± °	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw		sheet 5 of 8

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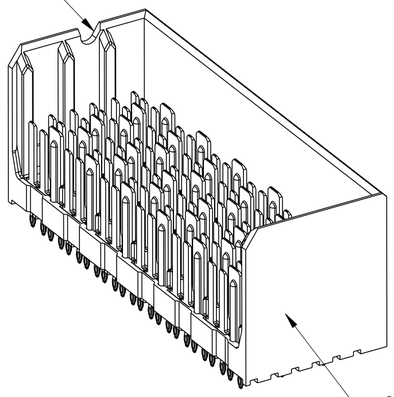
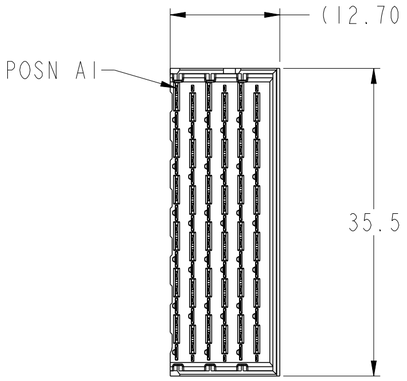
RIGHT WALL MODULE

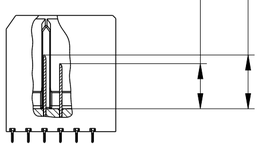


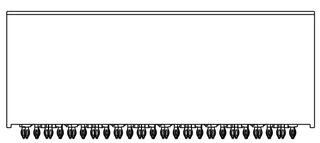


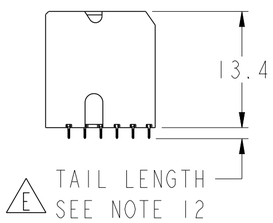
SCALE 2:1

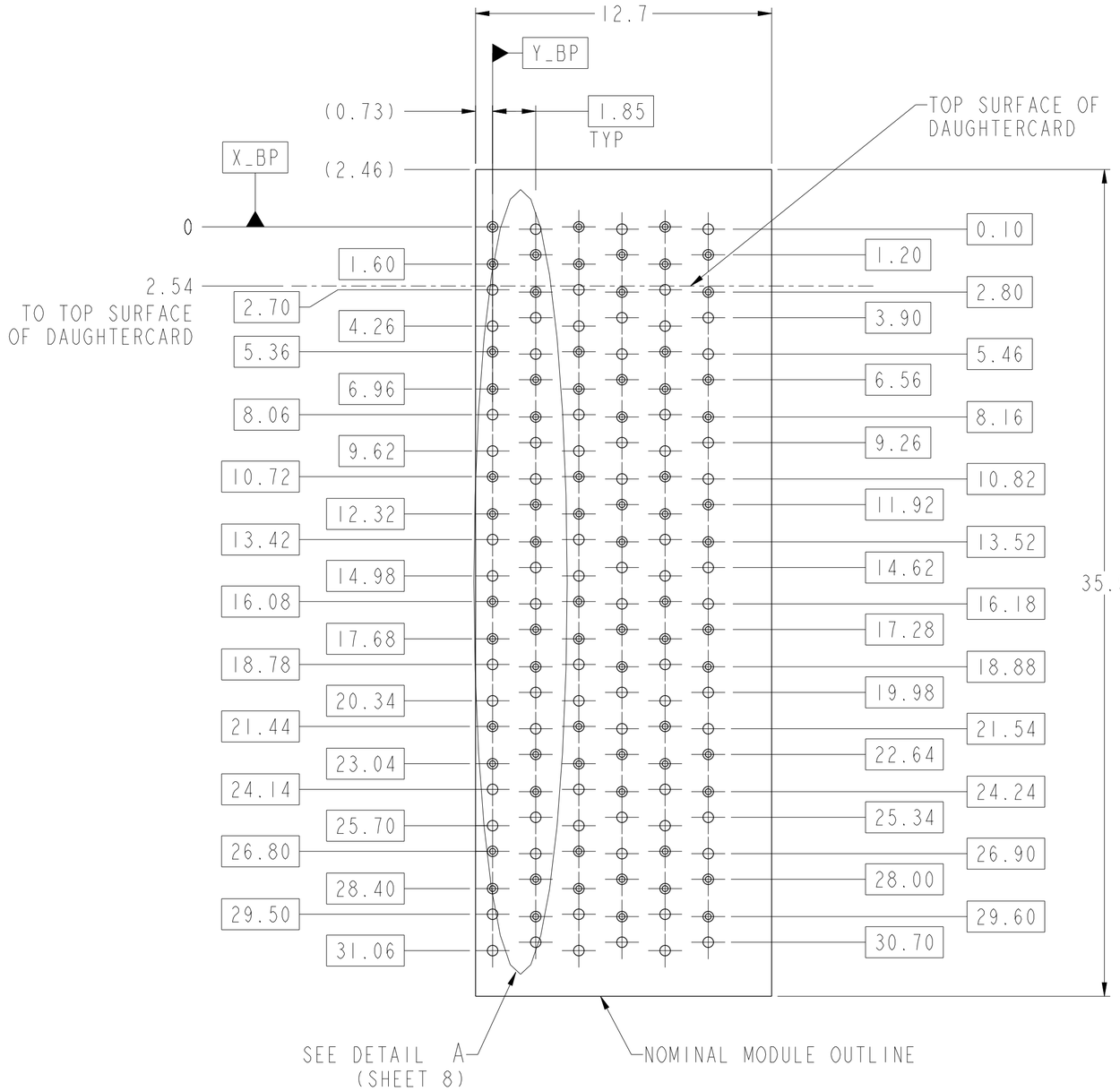
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)









PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	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	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR			dwg no	10104997	rev	E
		0.XX	±0.10							
		0.XXX	±0.050							
	angular	0°	± °	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw		sheet 6 of 8	

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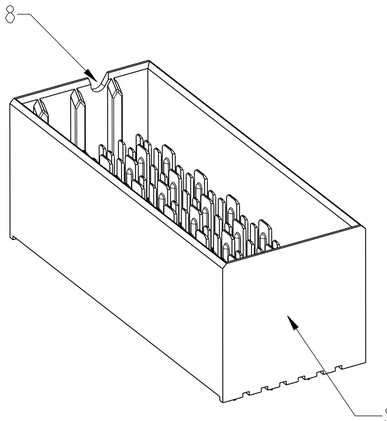
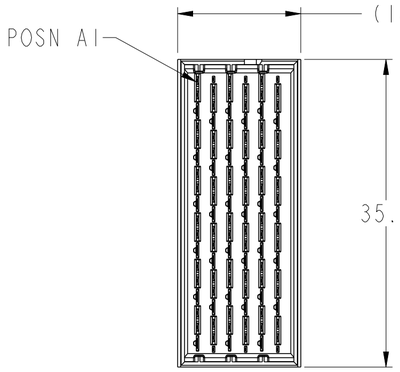
FOUR WALL MODULE

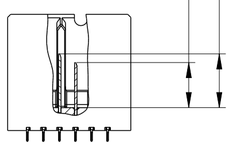


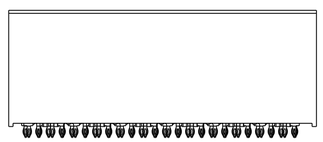


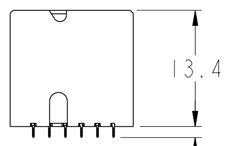
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

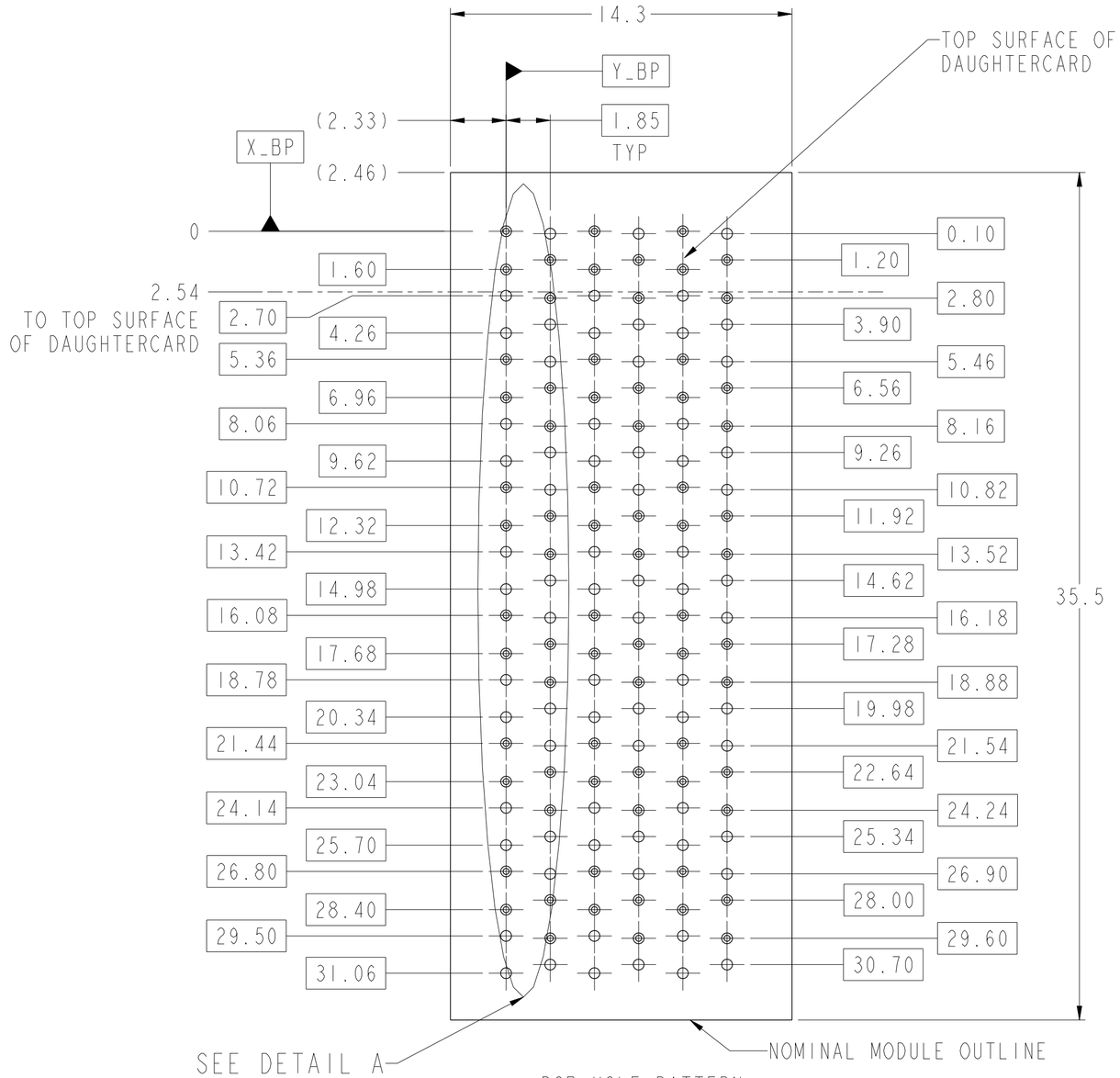
(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)







E TAIL LENGTH
SEE NOTE 12



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	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, 6-COLUMN, 6-PAIR		dwg no 10104997		rev E
		0.XX	±0.10						
		0.XXX	±0.050						
	angular	0°	± °	www.fci.com	cat. no. SEE P/N TREE	Product - Customer Drw			sheet 7 of 8

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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

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 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, OR TIN-LEAD ALLOY OVER NICKEL. 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.

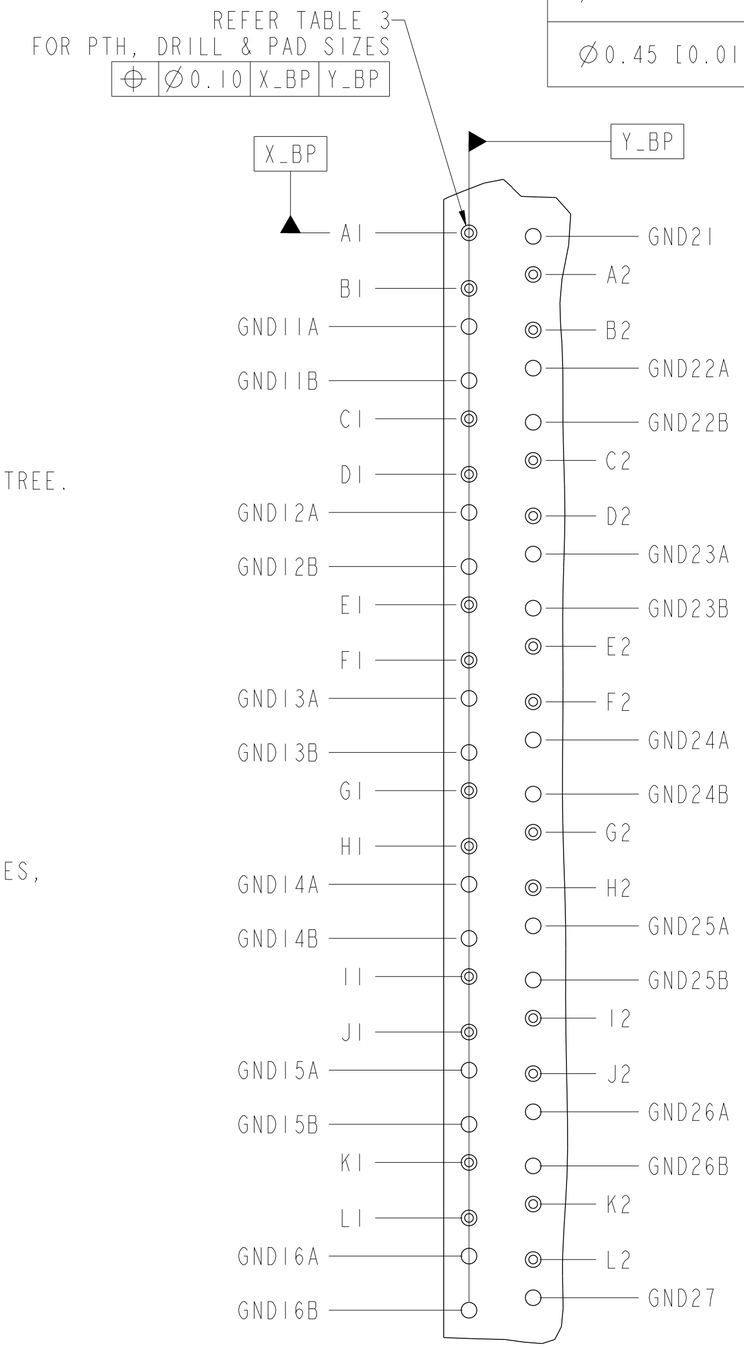
9. SEE APPLICATION SPECIFICATION FOR ROUTING GUIDELINES, ADDITIONAL PTH GUIDELINES, MATED DIMENSIONS, GUIDE PN SELECTION, ETC.

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.

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



spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23	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, 6-COLUMN, 6-PAIR		dwg no 10104997		rev E
		0.XX	±0.10						
		0.XXX	±0.050						
	angular	0°	± °	cat. no. SEE P/N TREE	Product - Customer Drw		sheet 8 of 8		

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