

10104997 - X0C - X0XL 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

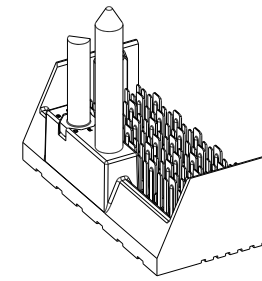
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

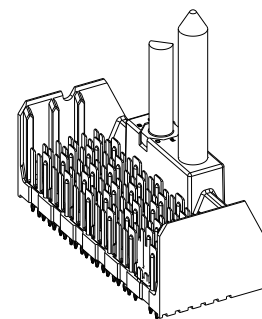
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T

U

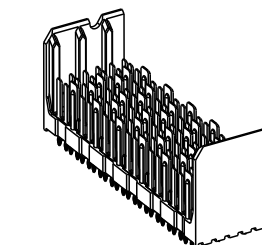
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W



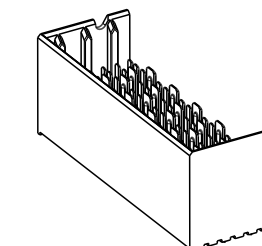
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



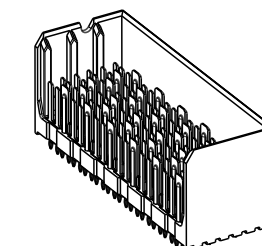
LEFT WALL
MODULE
(SEE SHEET 5)

L



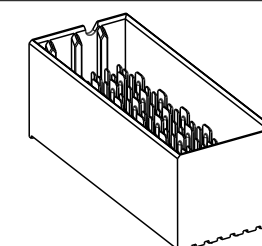
RIGHT WALL
MODULE
(SEE SHEET 6)

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

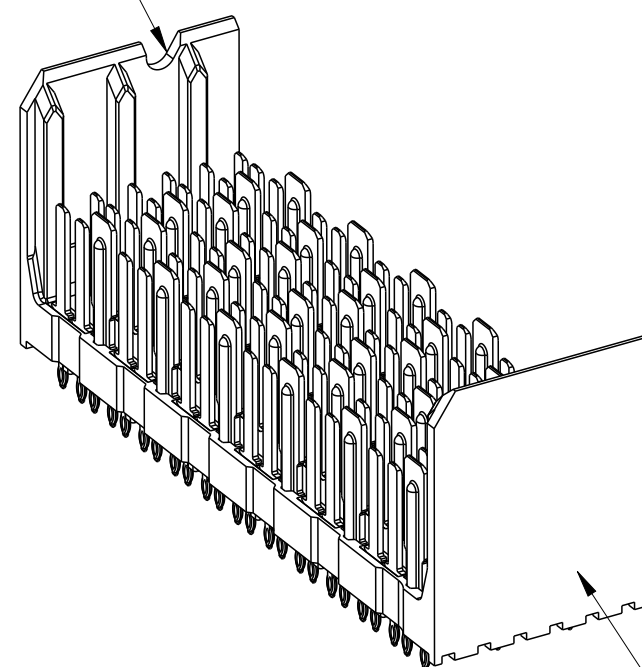
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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

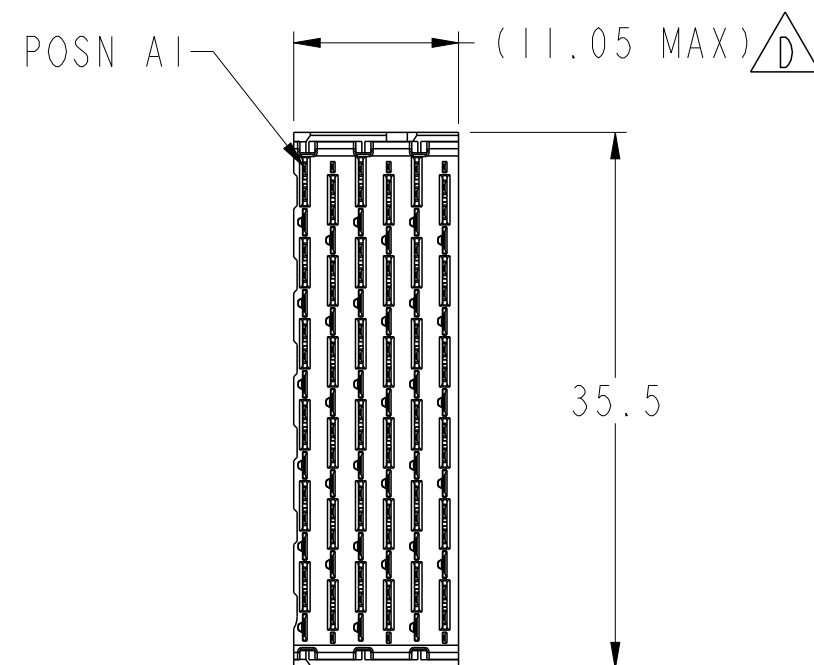
spec ref		SEE NOTES		dr		Kok-Hoe Lee		2010/06/23		projection		MM		size		A2		scale		4:1										
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Roger Ng		2011/10/06						ecn no		ELX-S-006346-1														
ASME Y14.5				chr		-		-						rel level		Released														
				appr		Chen-Hong Tan		2011/10/06						product family		XCode														
surface			linear		0.X		±0.2				title		MODULE ASSEMBLY						dwg no		10104997						rev		D	
			0.XX		±0.10																									
ASME Y14.5			0.XXX		±0.050																									
		angular		0°		±0°		www.fci.com		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 1 of 8														

OPEN (2-WALL) MODULE

SEE NOTE 8

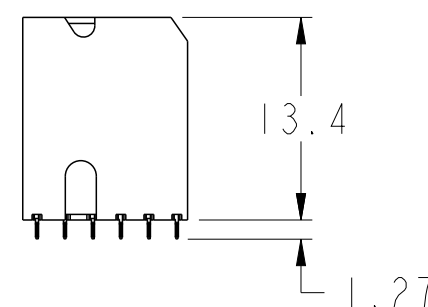
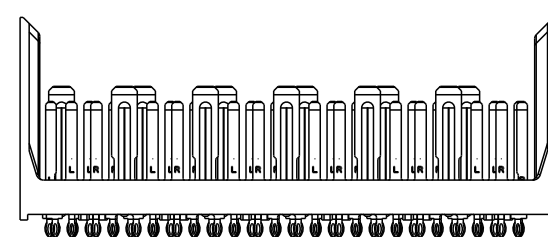
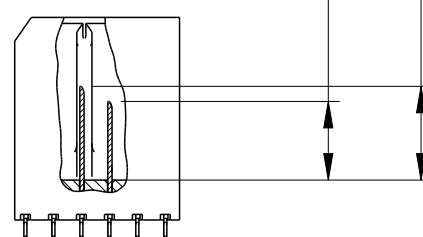


SEE NOTE 5



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 FOR ALL COMBINATIONS AVAILABLE)



X_BP

(0.73)

(2.46)

2.54

TO TOP SURFACE OF DAUGHTERCARD

2.70

5.36

8.06

10.72

13.42

16.08

18.78

21.44

24.14

26.80

29.50

1.60

4.26

6.96

9.62

12.32

14.98

17.68

20.34

23.04

25.70

28.40

31.06

Y_BP

1.85
TYP

TOP SURFACE OF DAUGHTERCARD

0.10

2.80

5.46

8.16

10.82

13.52

16.18

18.88

21.54

24.24

26.90

29.60

1.20

3.90

6.56

9.26

11.92

14.62

17.28

19.98

22.64

25.34

28.00

30.70

35.5

SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

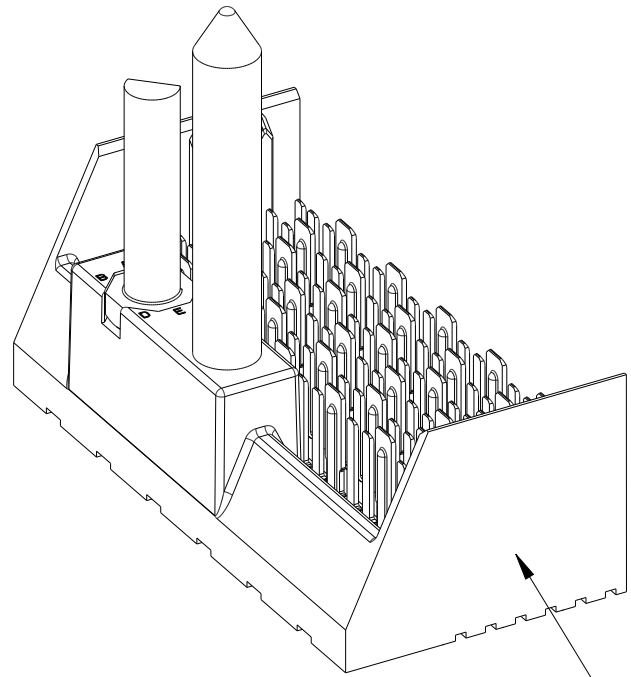
spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/23	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/06	chr	-	ecm no	ELX-S-006346-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/10/06	product family	XCede	rel level	Released		
surface	linear	0.X	±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 2 of 8		

PDS: Rev :D

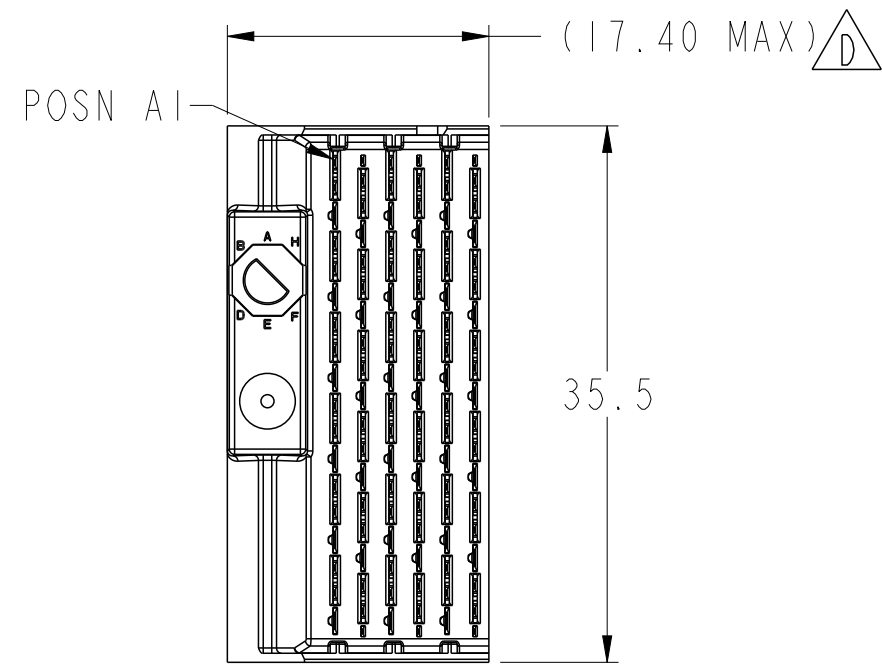
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Printed: Oct 06, 2011

LEFT POLARIZING/GUIDE MODULE



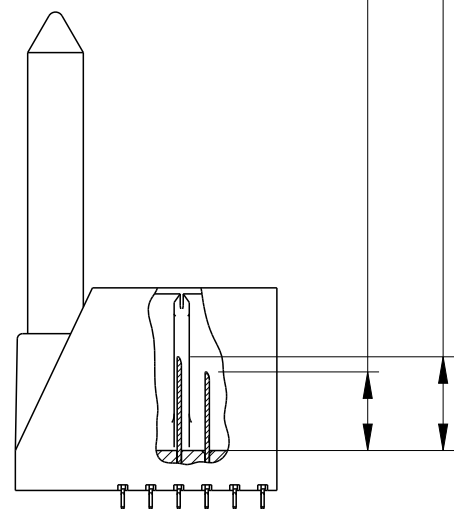
—SEE NOTE 5



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

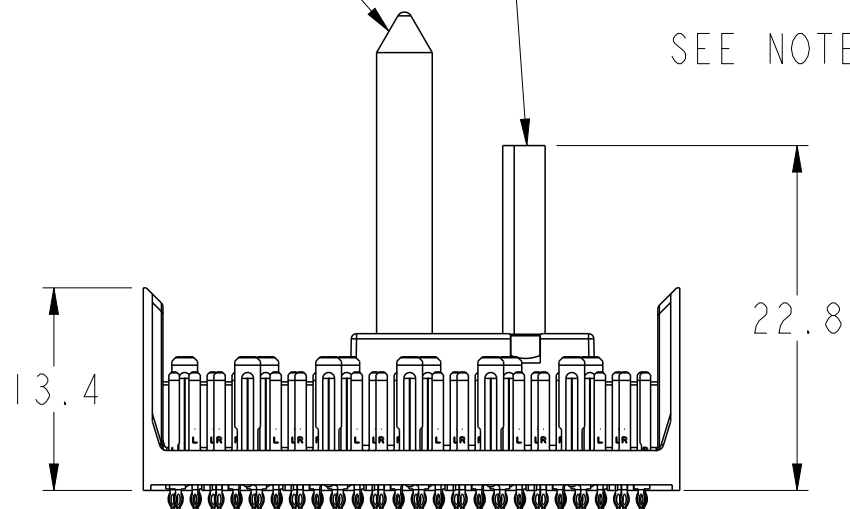
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)

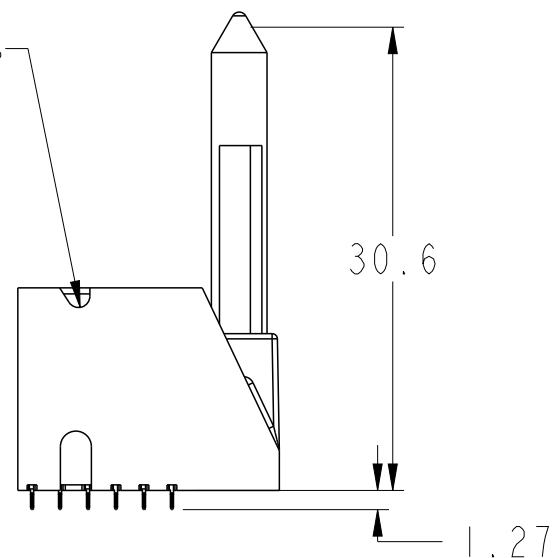


OPTIONAL KEYING PIN—
(SEE P/N TREE)

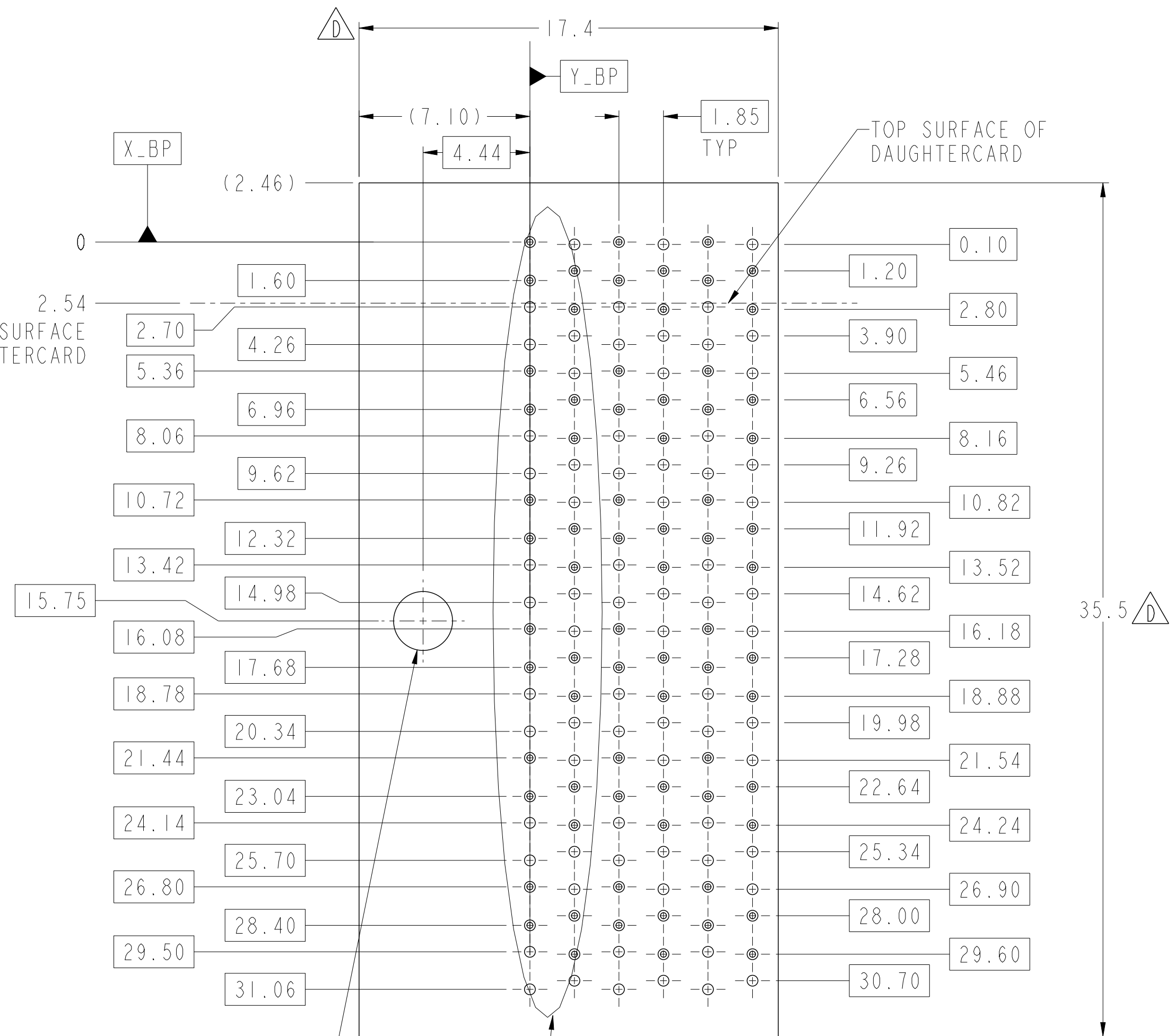
GUIDE PIN-



SEE NOTE 8-



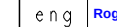
1.27



NOMINAL MODULE OUTLINE

SEE DETAIL A
(SHEET 8)

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		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Roger Ng		2011/10/06						ecn no		ELX-S-006346-1							
ASME Y14.5				chr		-		-								product family		XCode		rel level		Released	
		linear		0.X		±0.2				title		MODULE ASSEMBLY		dwg no		10104997		rev		D			
																						0.XX	
		ASME Y14.5		angular		0°																±	
				0.0XX		±0.050						VERTICAL HEADER, 6-COLUMN, 6-PAIR											

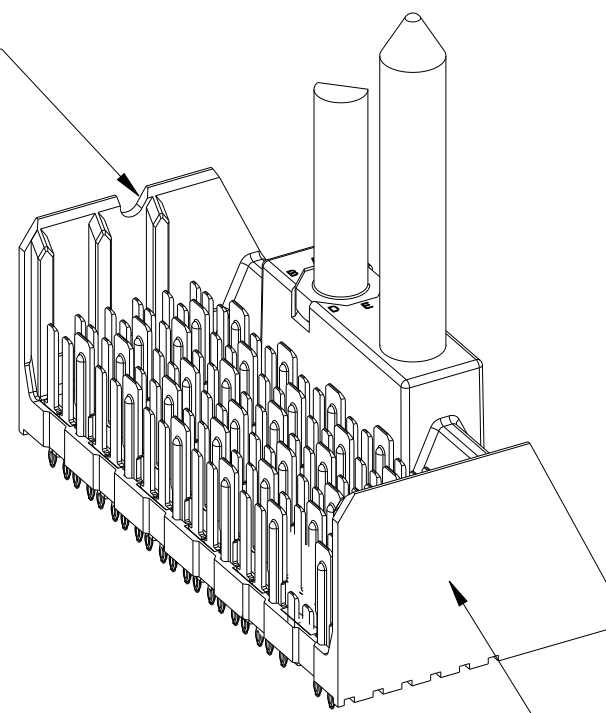
PDS: Rev :D

STATUS: Released

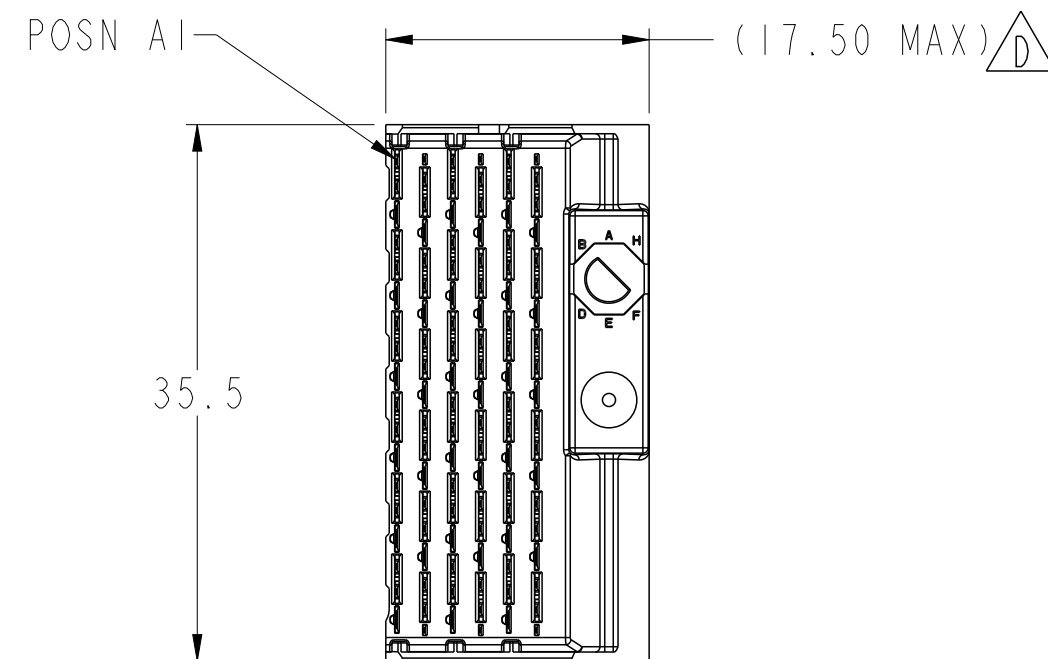
Printed: Oct 06, 2011

RIGHT POLARIZING/GUIDE MODULE

SEE NOTE 8



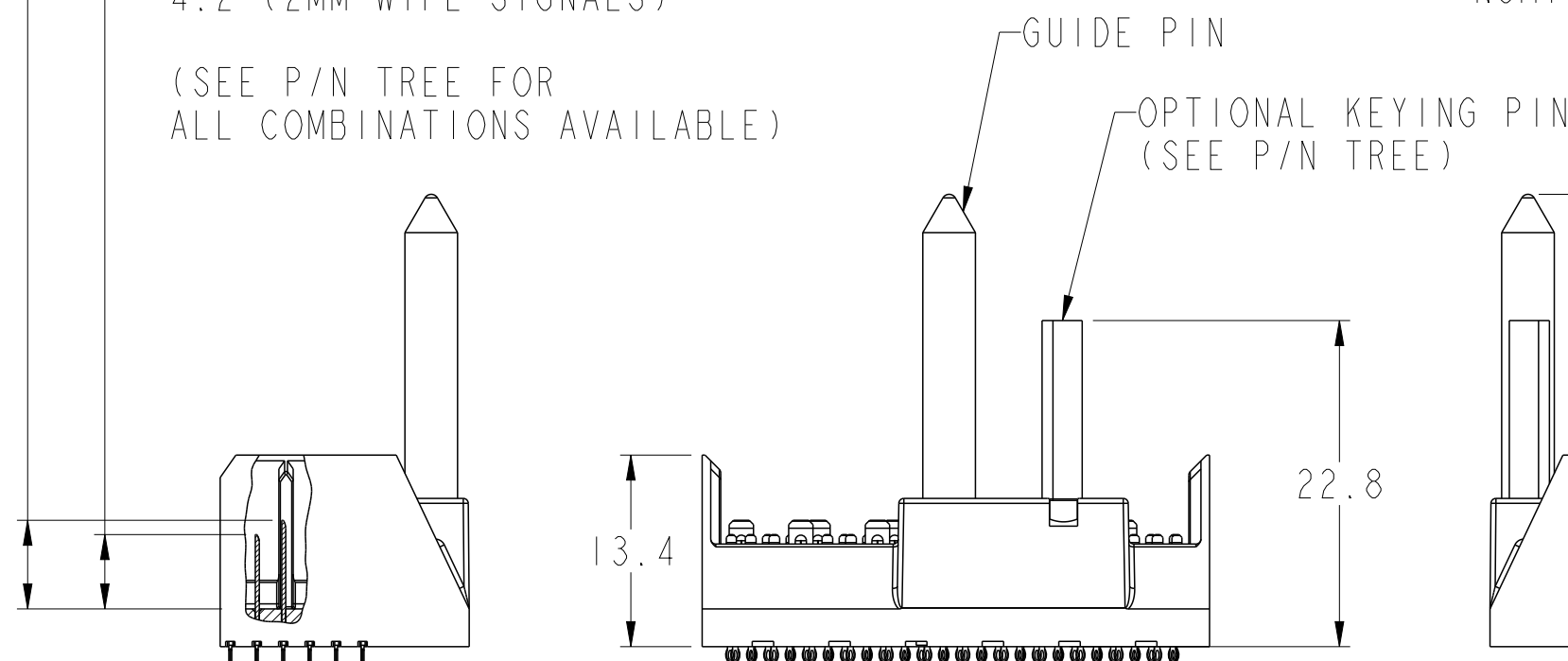
SEE NOTE 5



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 FOR
ALL COMBINATIONS AVAILABLE)



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

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/23	projection	MM	size	A2	scale	4:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/06	chr	-	ecn no	ELX-S-006346-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2011/10/06	product family	XCede	rel level			
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	rev	D		

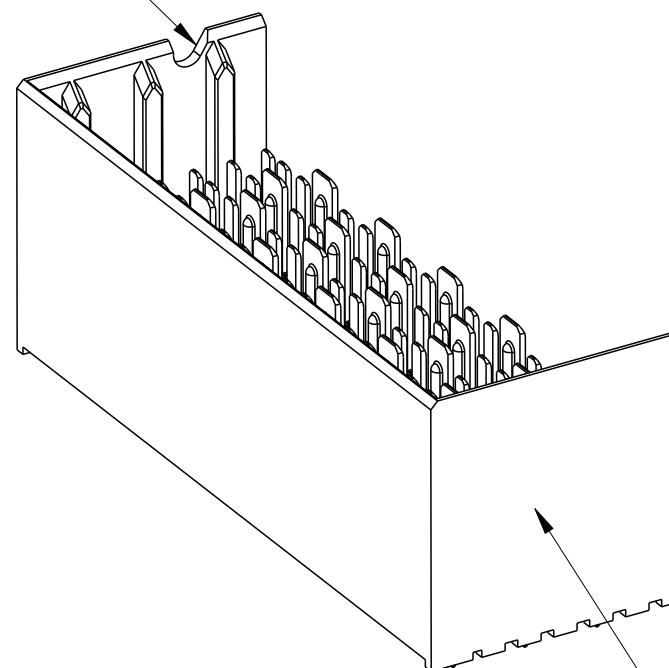
PDS: Rev D

STATUS: Released

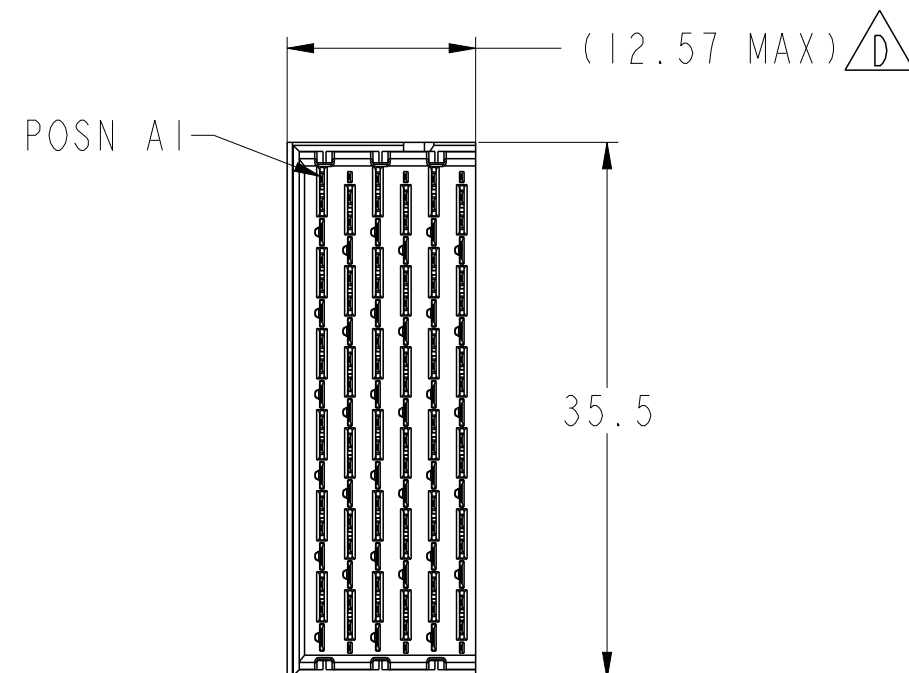
Printed: Oct 06, 2011

LEFT WALL MODULE

SEE NOTE 8

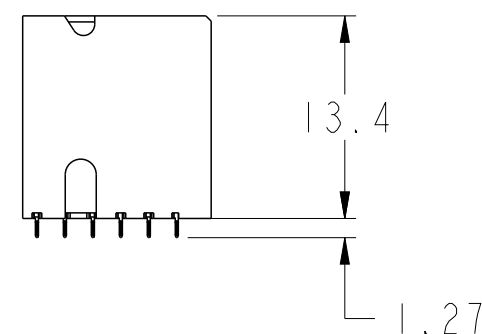
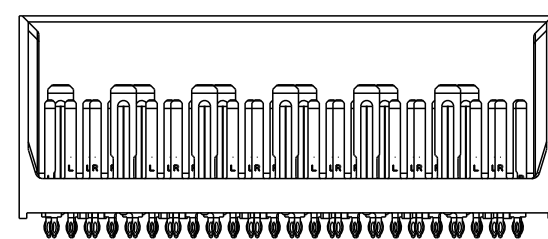
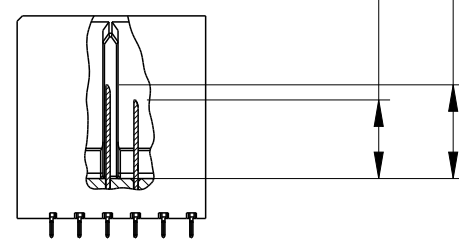


SEE NOTE 5

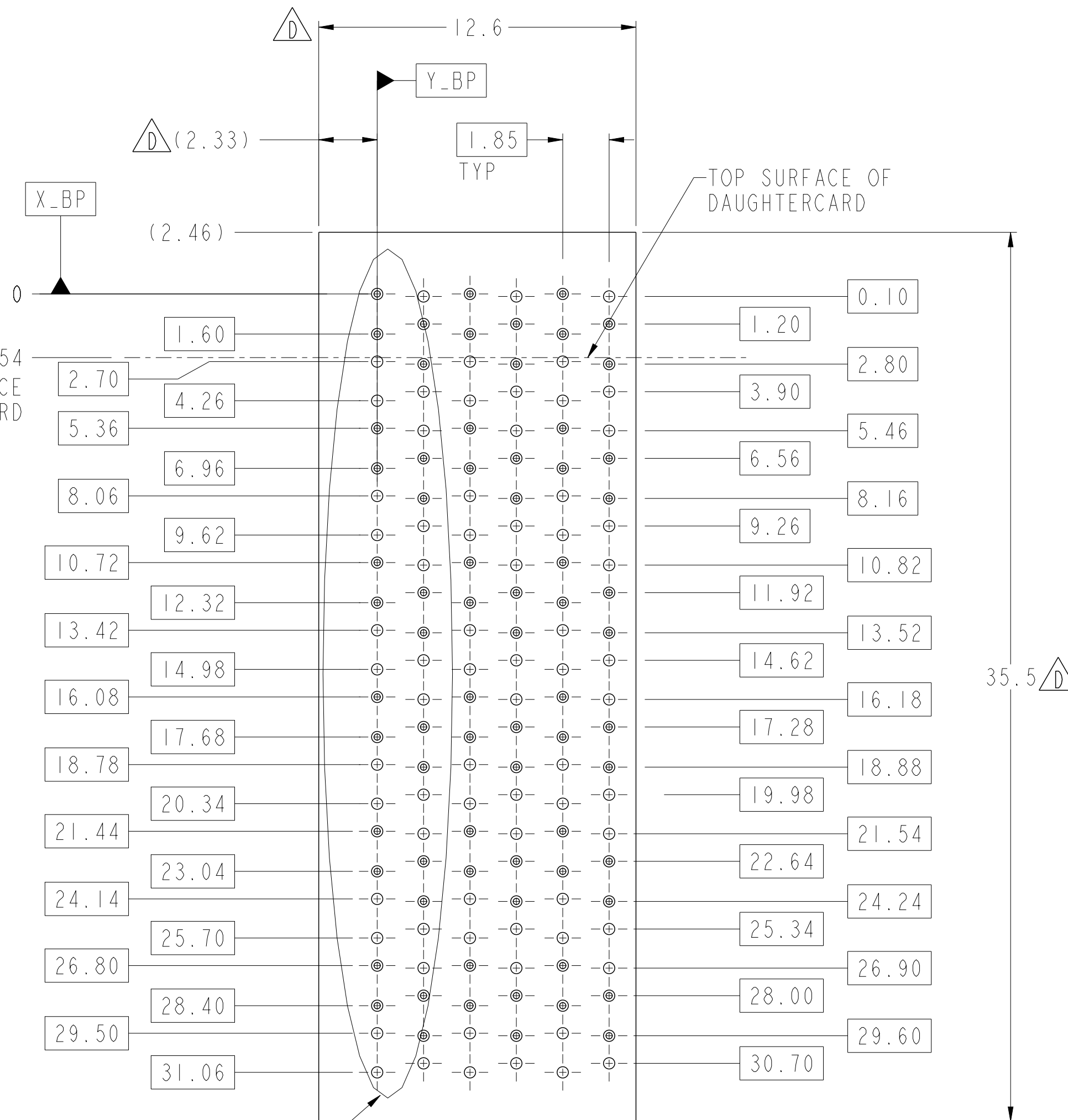


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



2.54
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/23	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Roger Ng	2011/10/06	chr	-	ecn no	ELX-S-006346-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2011/10/06	product family	XCede	dwg no	10104997	rev	D
linear	0.X ±0.2 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		

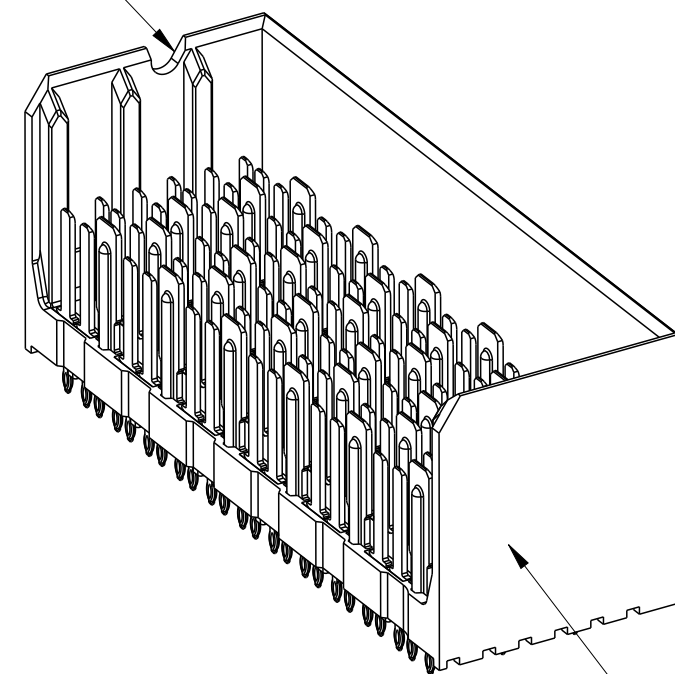
PDS: Rev :D

STATUS:Released

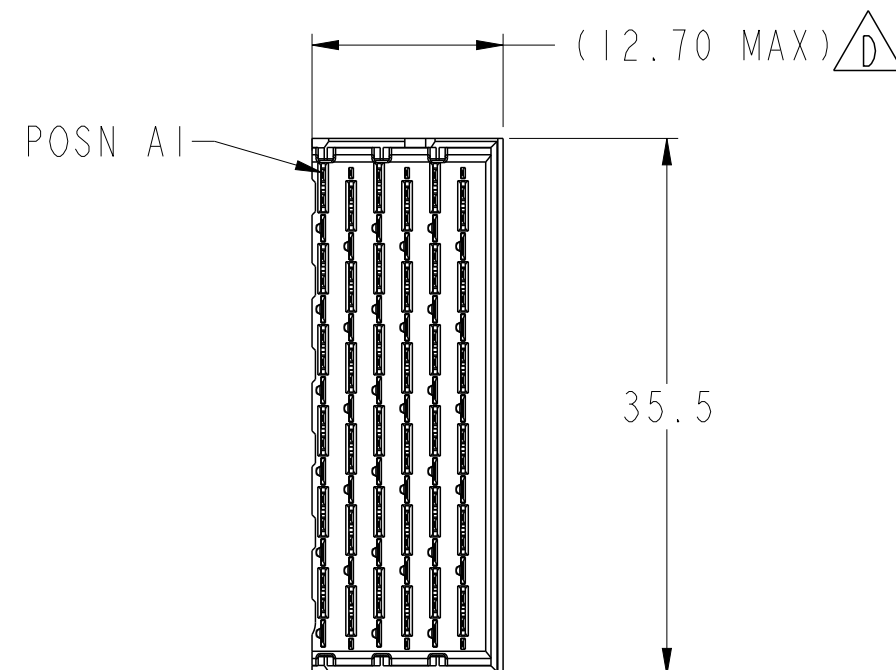
Printed: Oct 06, 2011

RIGHT WALL MODULE

SEE NOTE 8



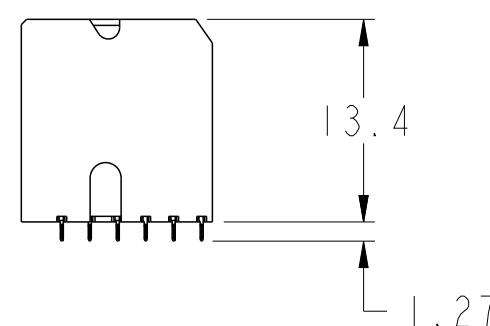
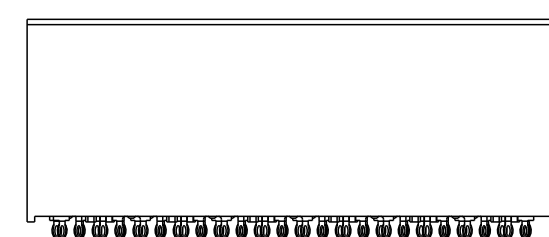
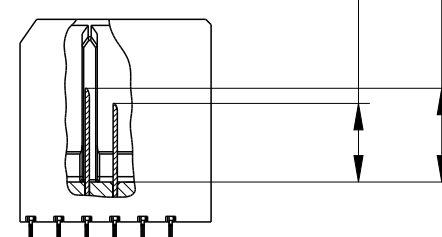
SEE NOTE 5



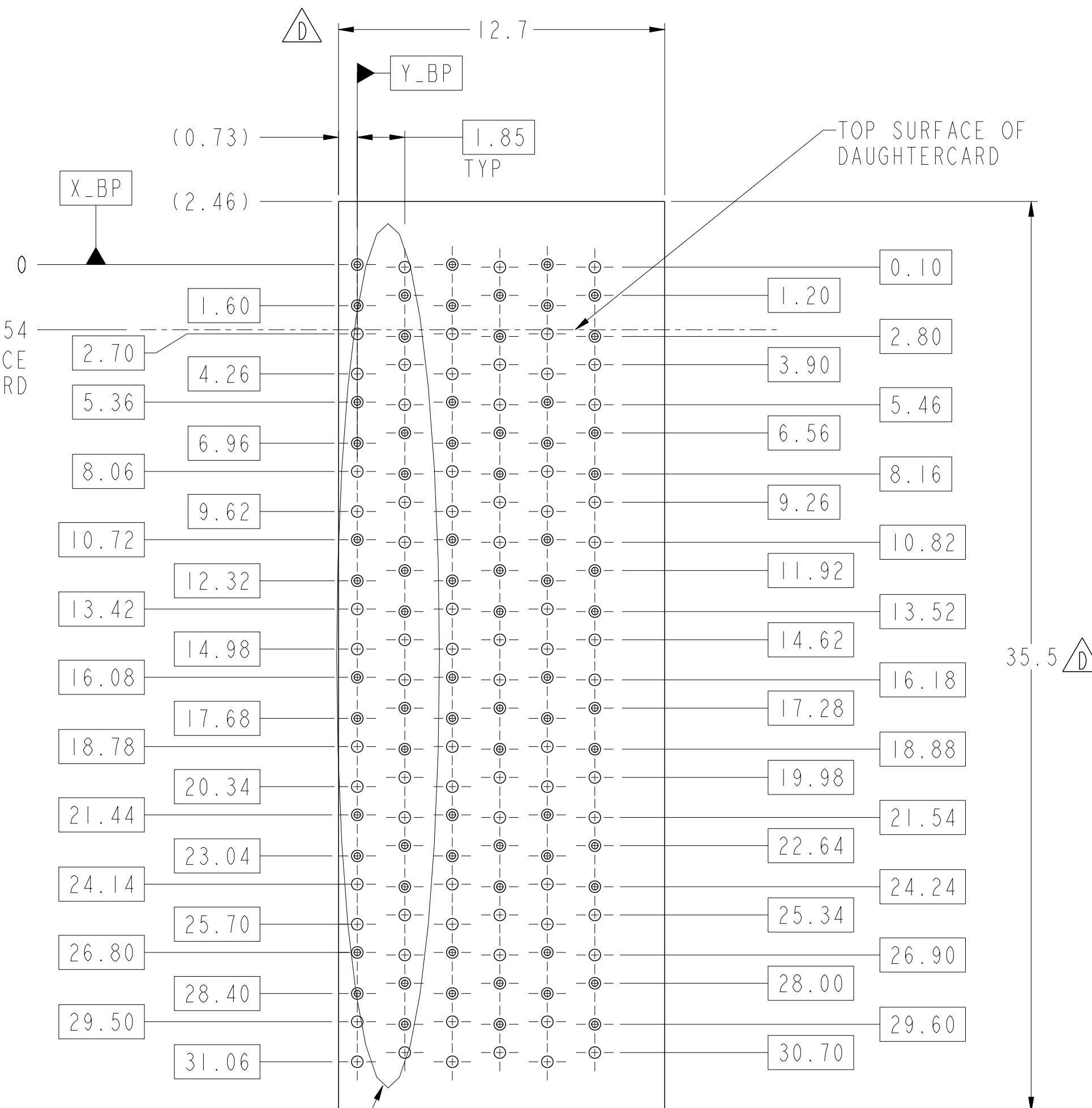
SCALE 2:1

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)

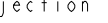
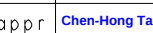


2.54
TO TOP SURFACE
OF DAUGHTERCARD



SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/23	projection 		size	A2	scale	4:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Roger Ng	2011/10/06	ecn no			ELX-S-006346-1					
ASME Y14.5		chr	-	-	rel level			Released					
		appr	Chen-Hong Tan	2011/10/06	product family		XCede						
surface		linear		title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR			dwg no	10104997		rev	D	
		0.X											±0.2
		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 6 of 8				

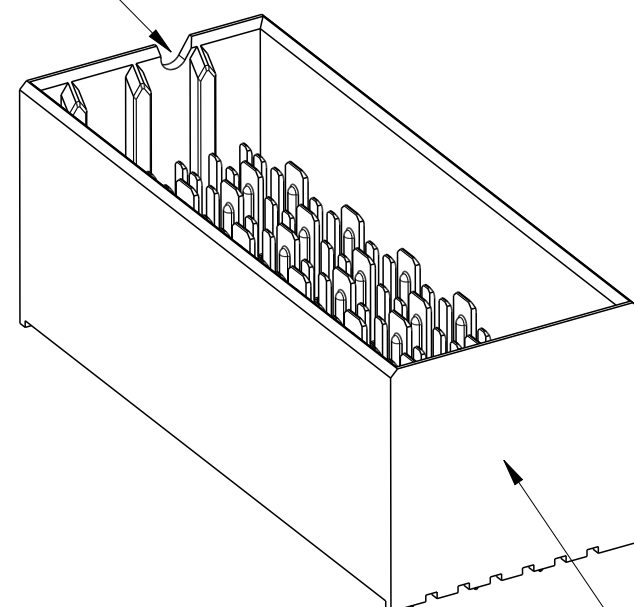
PDS: Rev :D

STATUS:Released

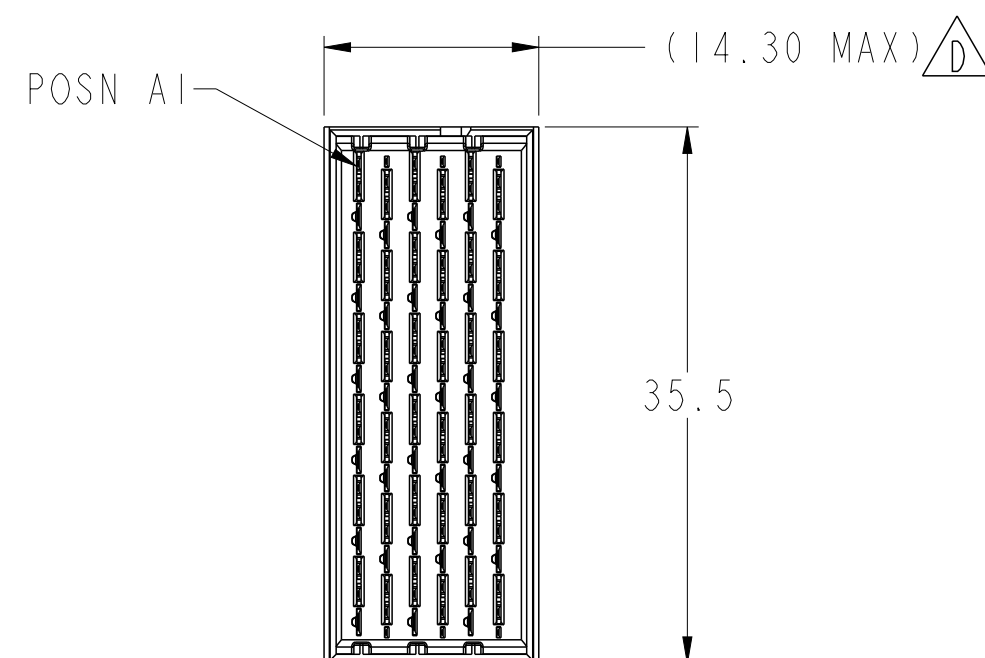
Printed: Oct 06, 2011

FOUR WALL MODULE

SEE NOTE 8

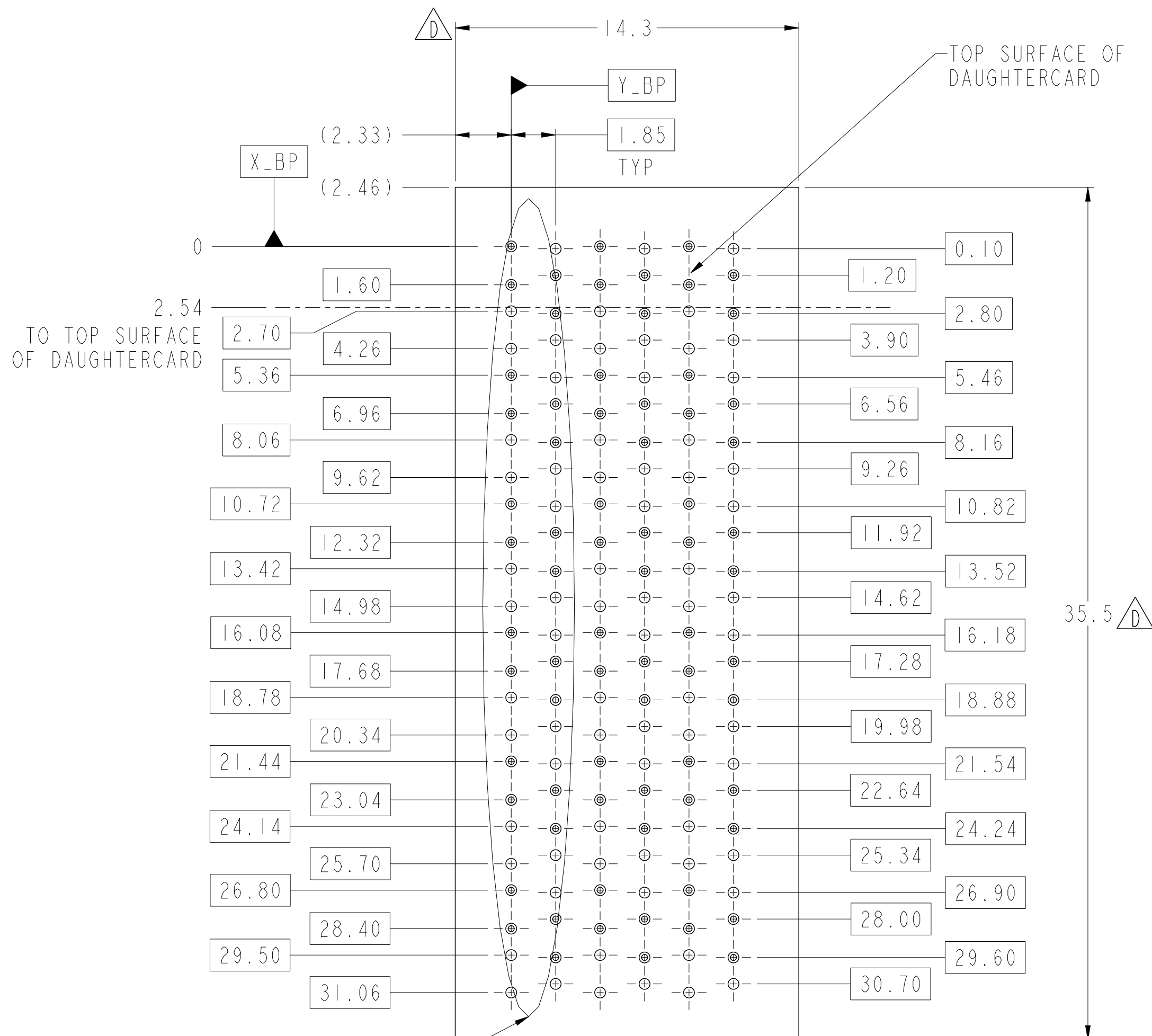
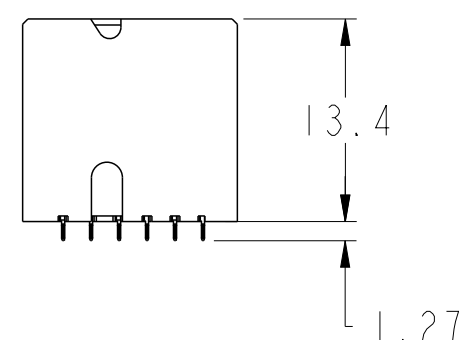
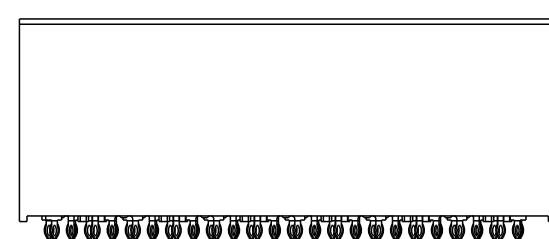
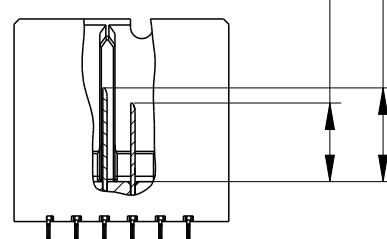


SEE NOTE 5



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 FOR ALL COMBINATIONS AVAILABLE)



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/23	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Roger Ng	2011/10/06	chr	-	ecn no	ELX-S-006346-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2011/10/06	product family	XCede	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 7 of 8
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	angular	0° ±°	www.fci.com	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR	dwg no	10104997	rev	D

PDS: Rev :D

STATUS:Released

Printed: Oct 06, 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 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.
- 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 WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

	Ø0.10	X_BP	Y_BP
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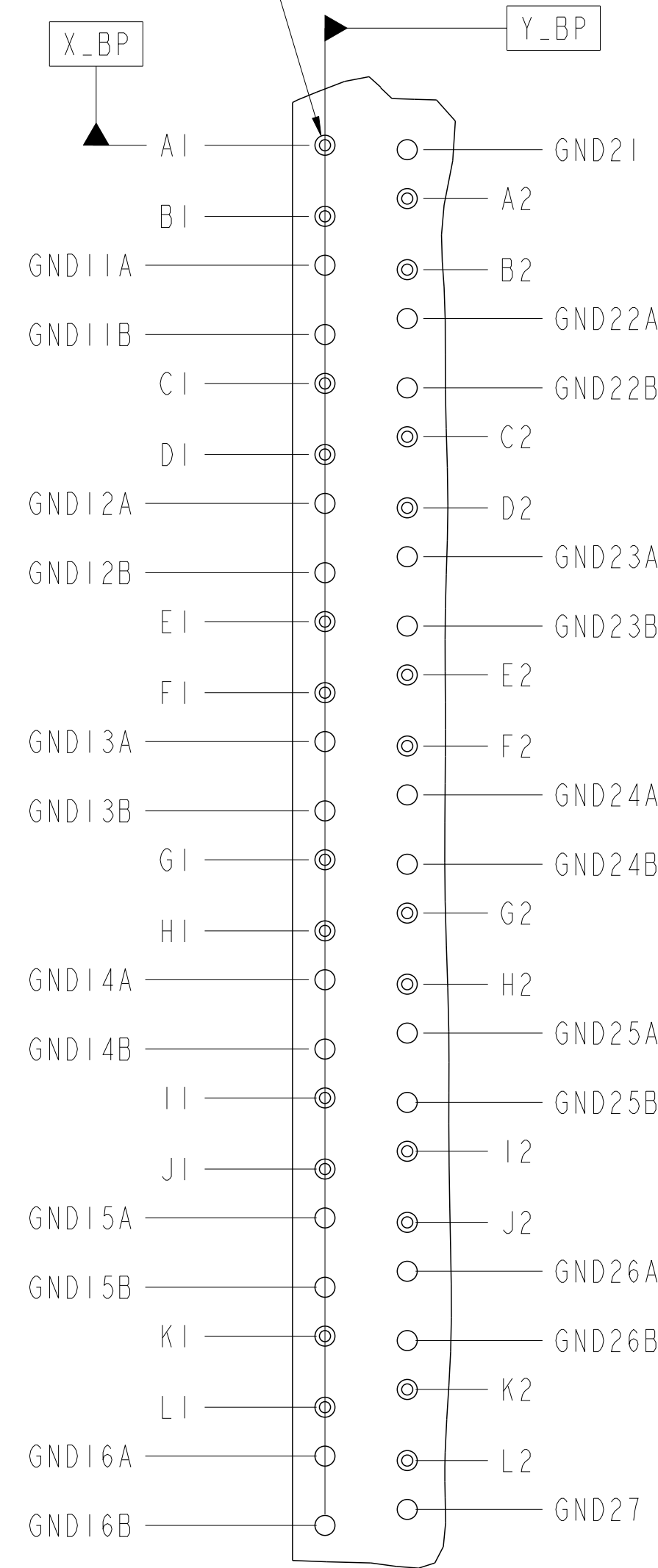
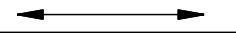


TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL		
COMPLIANT PIN DRILL	PTH	PAD
Ø0.55 [0.0217"]	Ø0.45±0.05	Ø0.85
Ø0.45 [0.0177"]	Ø0.36±0.05	Ø0.75

DETAIL A
SCALE 8:1

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/23			size	A2	scale	4:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Roger Ng	2011/10/06			ecn no	ELX-S-006346-1			
ASME Y14.5				chr	-	-							
				appr	Chen-Hong Tan	2011/10/06	product family	XCede					
surface 	linear	0.X	±0.2		title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR			dwg no	10104997		rev	D
		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 8 of 8			