

1 0 1 0 4 9 9 7 - 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

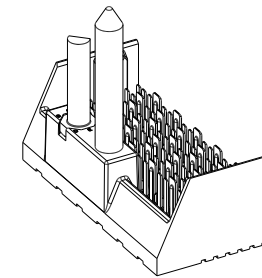
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

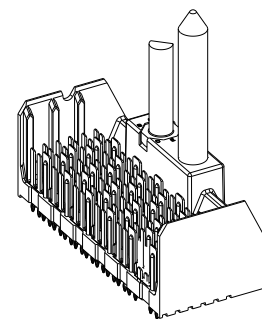
S

T

U

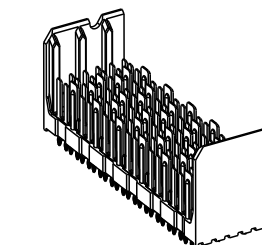
V

W



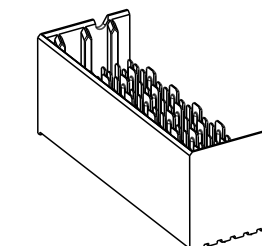
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



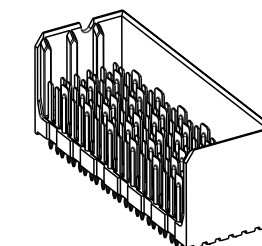
LEFT WALL
MODULE
(SEE SHEET 5)

L



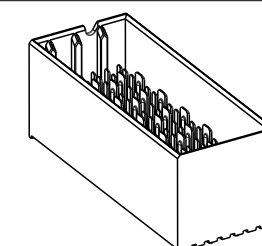
RIGHT WALL
MODULE
(SEE SHEET 6)

M



FOUR WALL
MODULE
(SEE SHEET 7)

1



NUMBER	CONTACT MATING WIPE LENGTH		COMPLIANT PIN DRILL SIZE
	SIGNAL	WIDE GROUND	
1	2	4	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

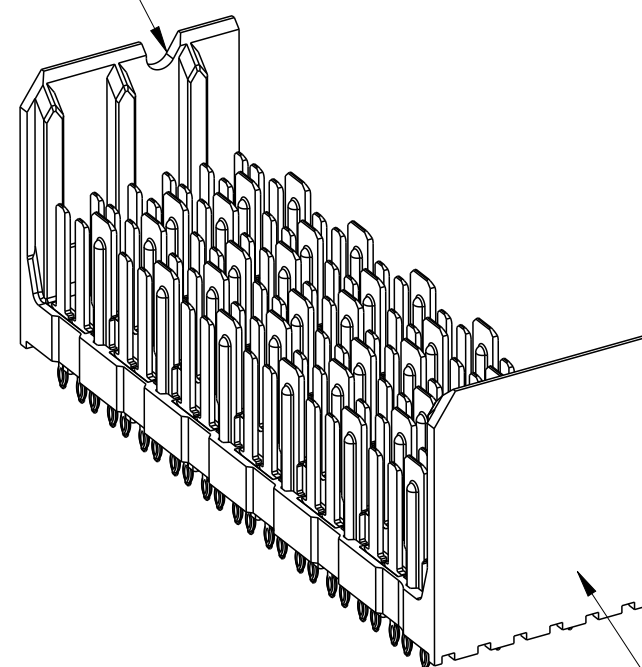
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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	Sandar Soe	2014/10/02			ecn no	ELX-S-18843-1			
ASME Y14.5				chr	-	-							
		appr	Chen-Hong Tan	2014/12/10	product family			XCode	rel level	Released			
surface	linear	0.X	±0.2		title	MODULE ASSEMBLY			dwg no	10104997		rev	E
		0.XX	±0.10										
		0.XXX	±0.050										
ASME Y14.5	angular	0°	±0°	www.fci.com	cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 1 of 8			

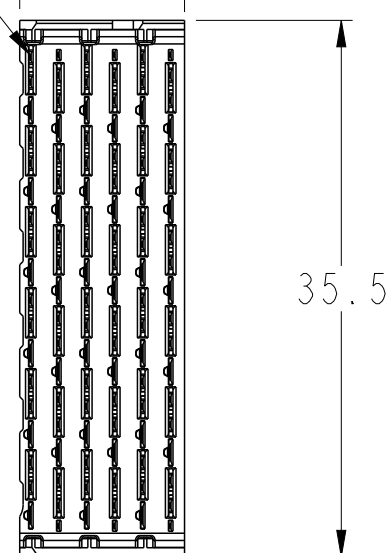
OPEN (2-WALL) MODULE

SEE NOTE 8



SEE NOTE 5

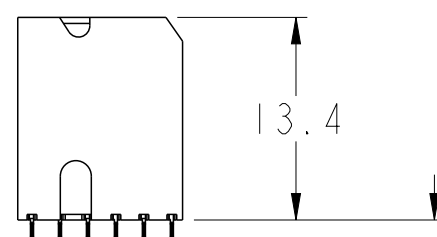
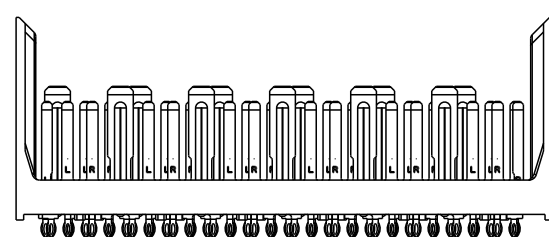
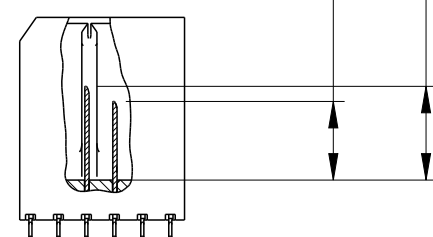
POSN A1 (11.05 MAX)



35.5

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)



TAIL LENGTH
SEE NOTE 12

X_BP

0

2.54

TO TOP SURFACE
OF DAUGHTERCARD

(0.73)

(2.46)

1.60

2.70

4.26

5.36

6.96

8.06

9.62

10.72

12.32

13.42

14.98

16.08

17.68

18.78

20.34

21.44

23.04

24.14

25.70

26.80

28.40

29.50

31.06

Y_BP

1.85
TYP

TOP SURFACE OF
DAUGHTERCARD

0.10

1.20

2.80

3.90

5.46

6.56

8.16

9.26

10.82

11.92

13.52

14.62

16.18

17.28

18.88

19.98

21.54

22.64

24.24

25.34

26.90

28.00

29.60

30.70

35.5

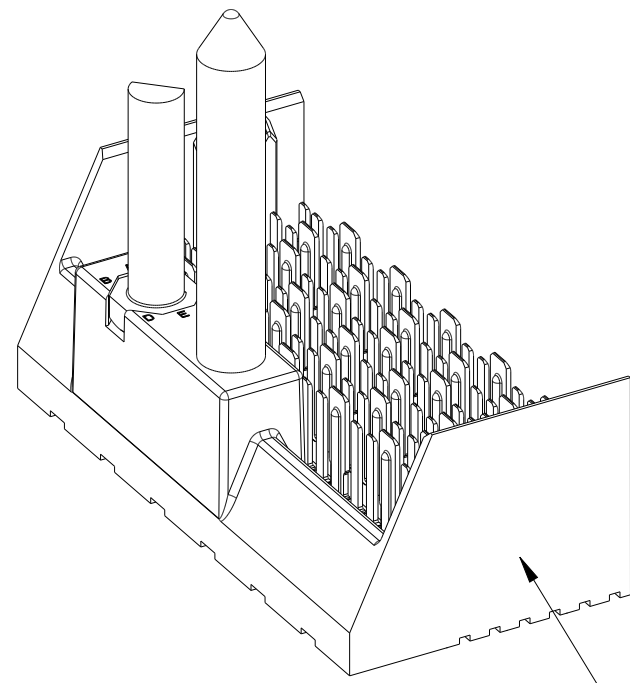
SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

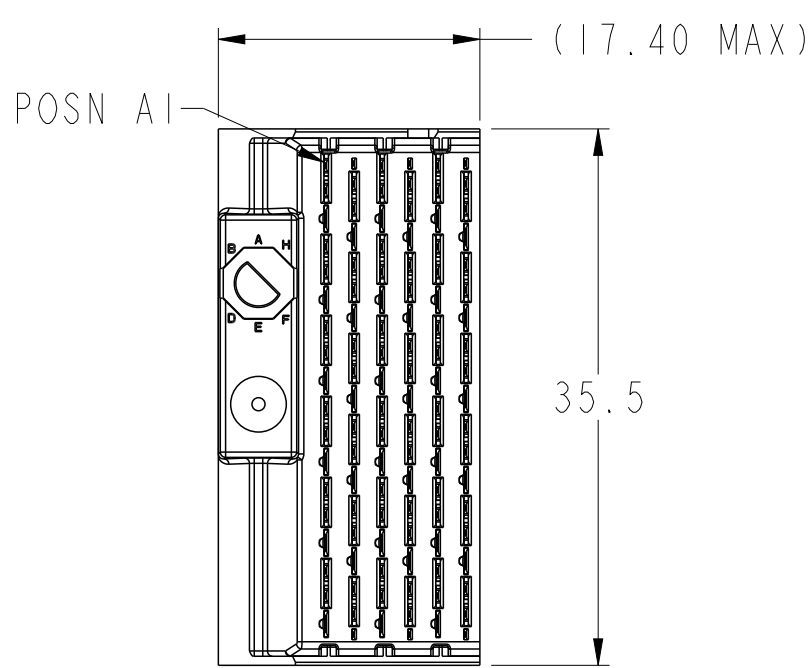
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

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	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2014/12/10	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 :E		STATUS:Released		Printed: Dec 10, 2014				

LEFT POLARIZING/GUIDE MODULE



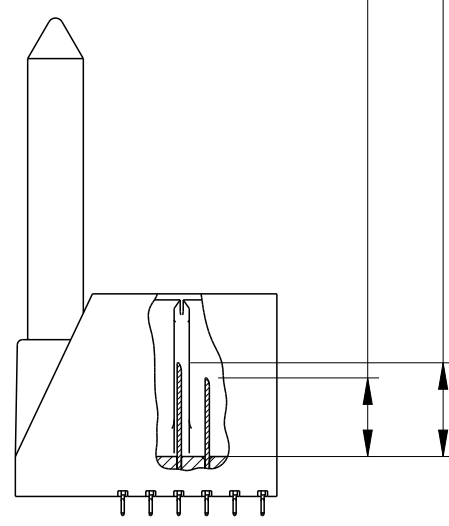
SEE NOTE 5



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

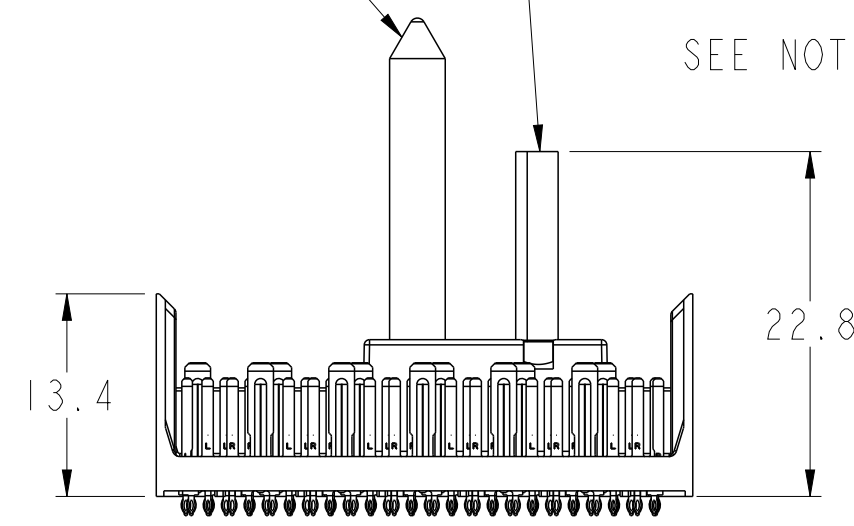
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)

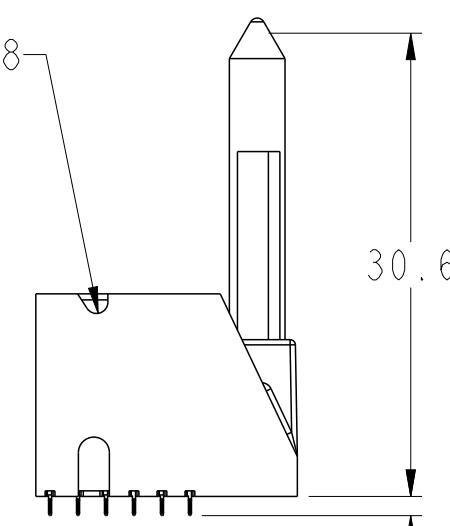


OPTIONAL KEYING PIN
(SEE P/N TREE)

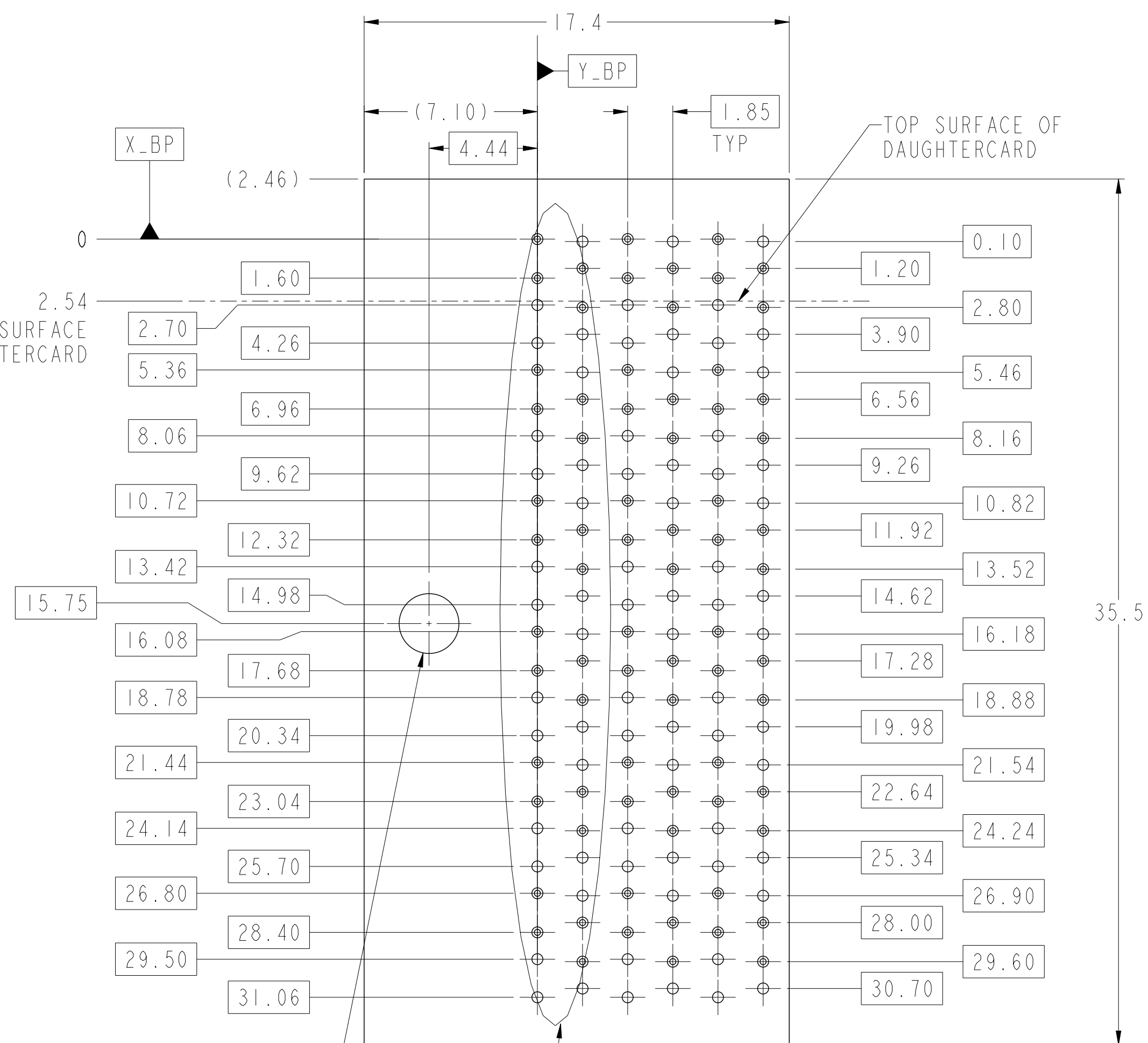
GUIDE PIN



SEE NOTE 8



TAIL LENGTH
SEE NOTE 12



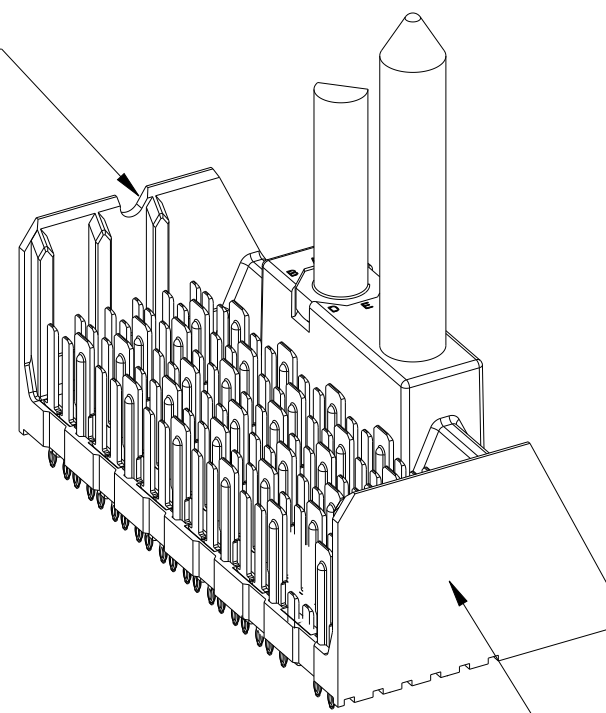
SEE NOTE 11 & TABLE 1

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	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
ASME Y14.5		appr	Chen-Hong Tan	2014/12/10	product family	XCede	rel level	Released	rev	E
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 3 of 8			

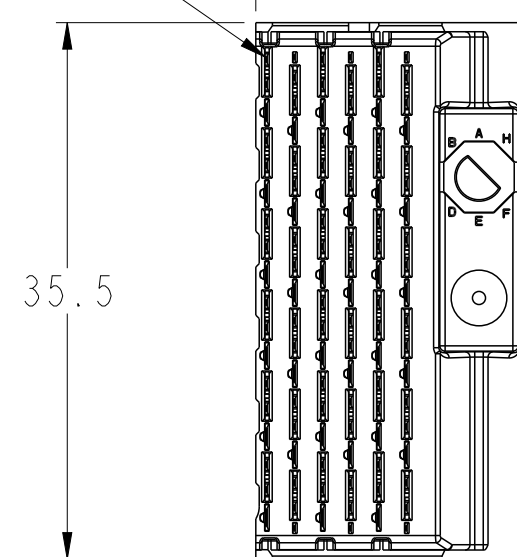
RIGHT POLARIZING/GUIDE MODULE

SEE NOTE 8



SEE NOTE 5

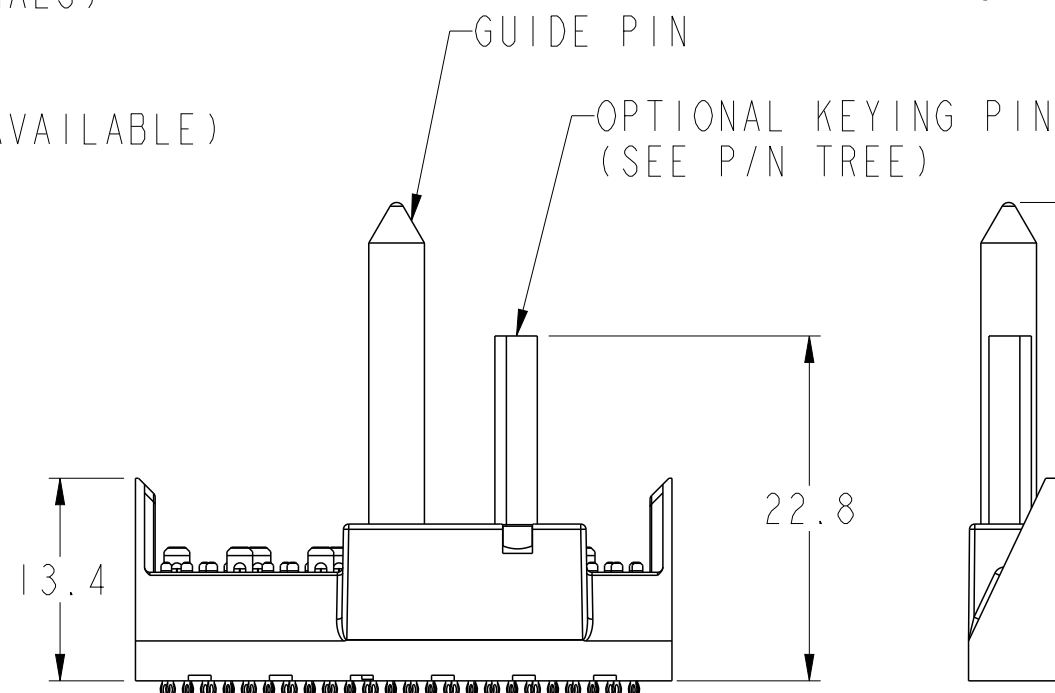
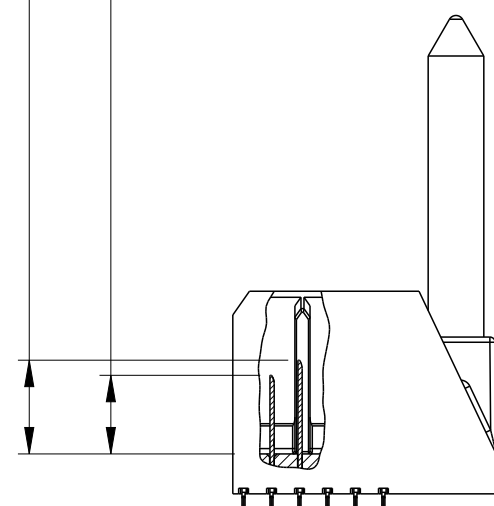
POSN A1 (17.50 MAX)



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

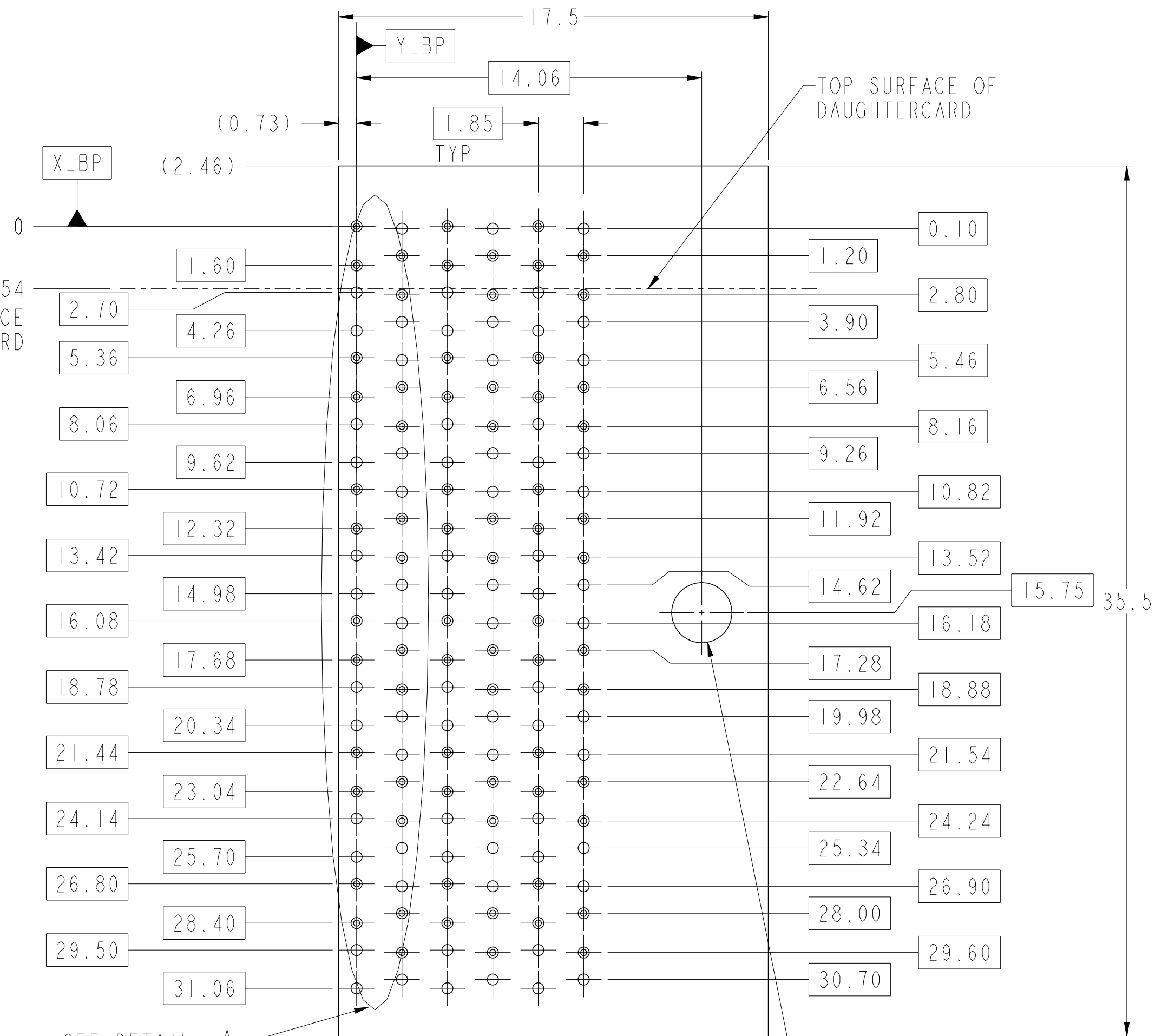
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12

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	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2014/12/10	product family	XCede	dwg no	10104997	rev	E
linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 4 of 8			
angular	0° ±°									

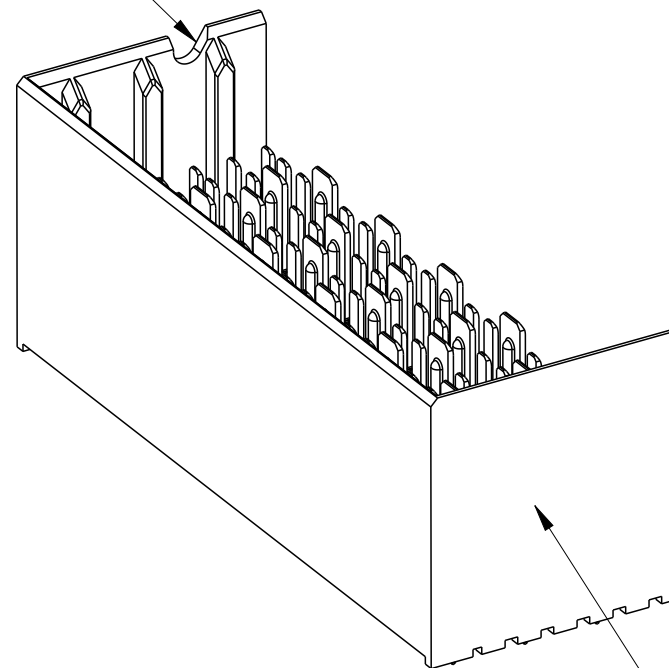
PDS: Rev :E

STATUS:Released

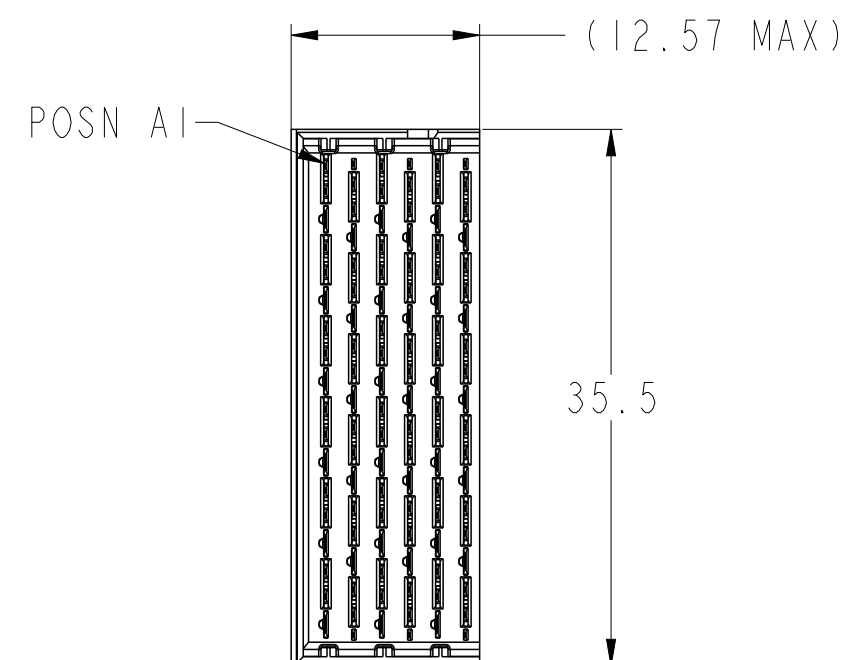
Printed: Dec 10, 2014

LEFT WALL MODULE

SEE NOTE 8

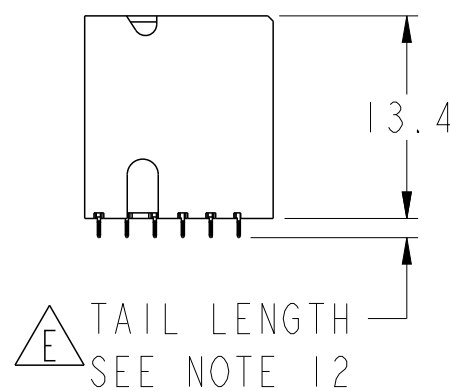
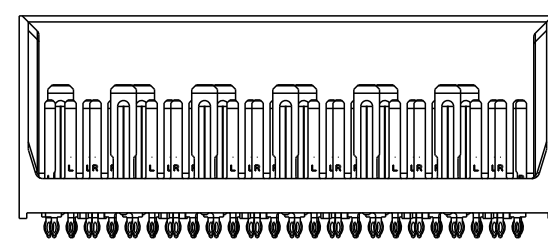
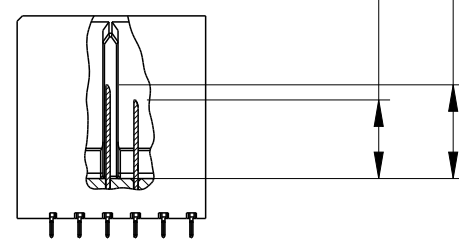


SEE NOTE 5

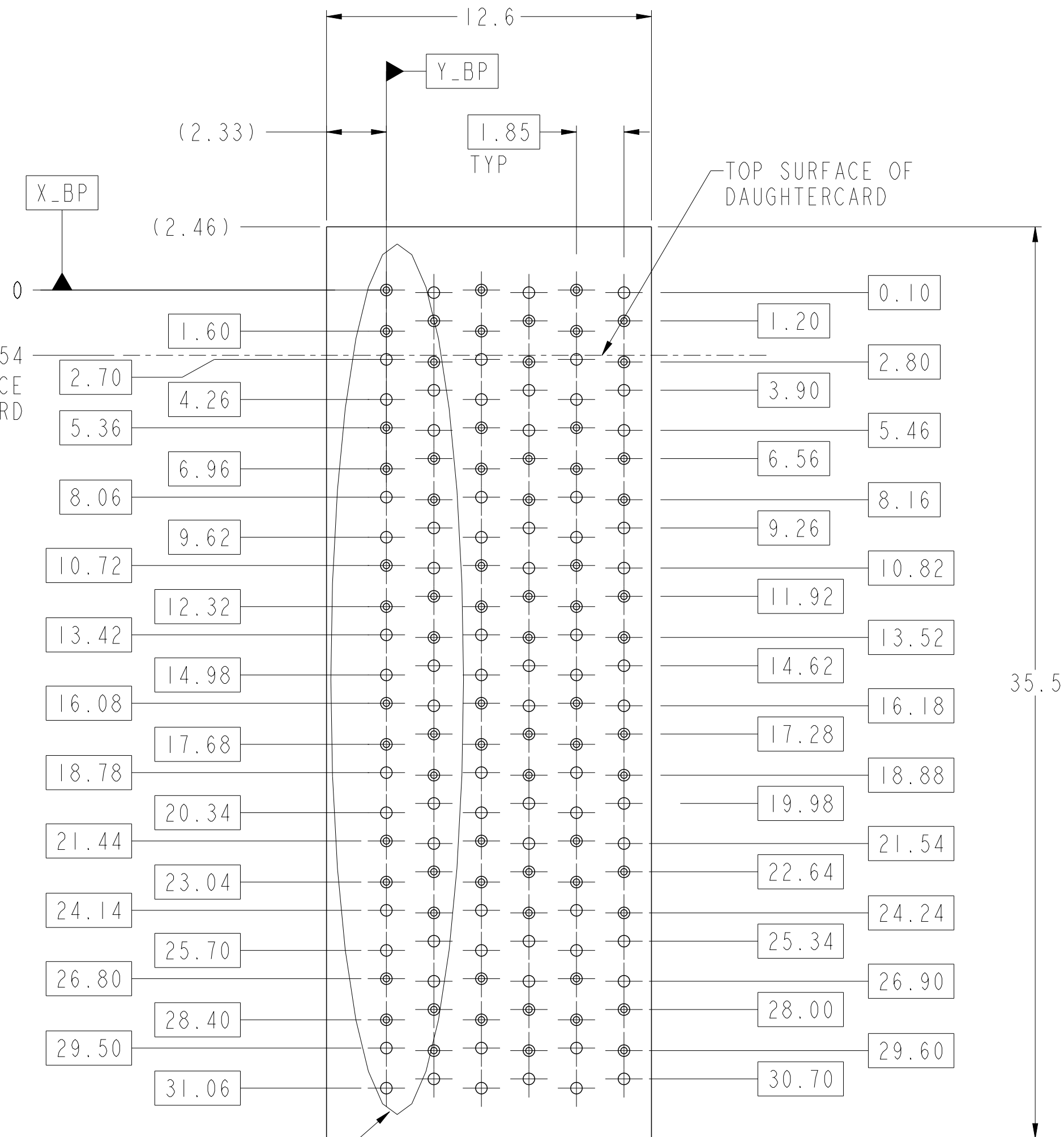


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12



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		Sandar Soe	2014/10/02					ecn no		ELX-S-18843-1			
ASME Y14.5					chr		-	-									appr	
surface			linear	0.X	±0.2			title		MODULE ASSEMBLY		dwg no		10104997		rev		E
			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 5 of 8			

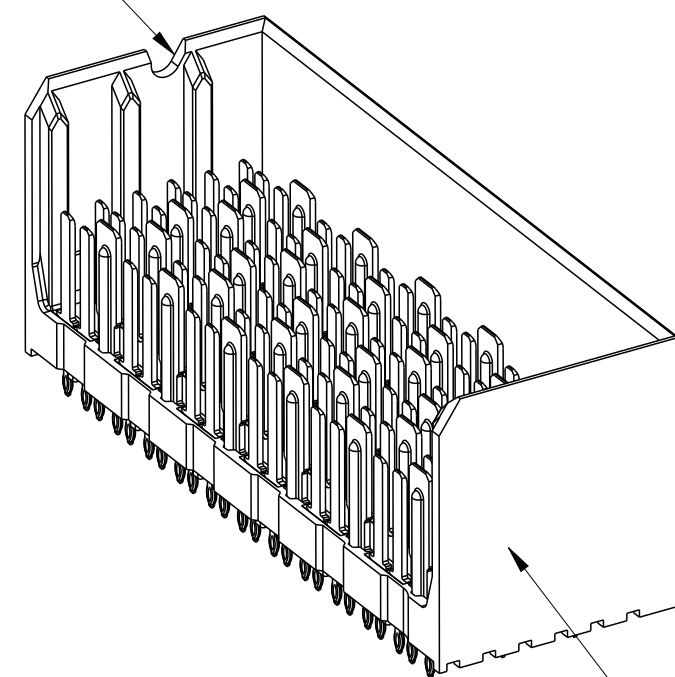
PDS: Rev :E

STATUS:Released

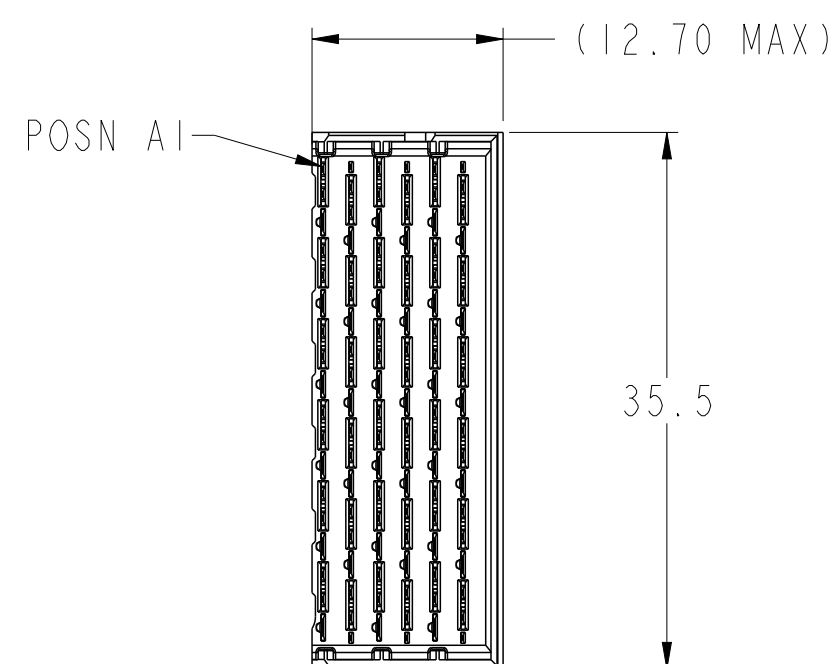
Printed: Dec 10, 2014

RIGHT WALL MODULE

SEE NOTE 8



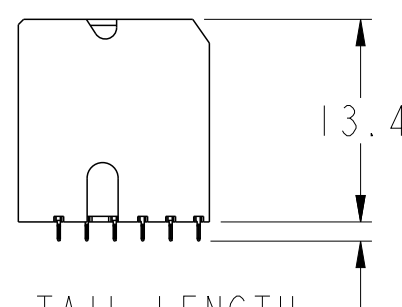
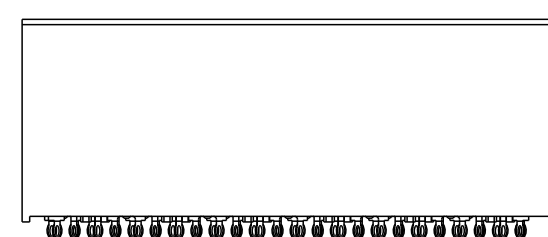
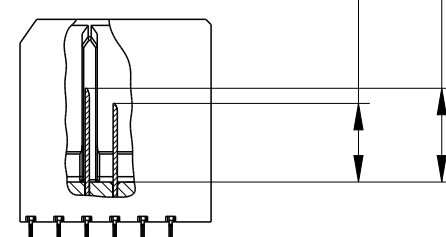
SEE NOTE 5



SCALE 2:1

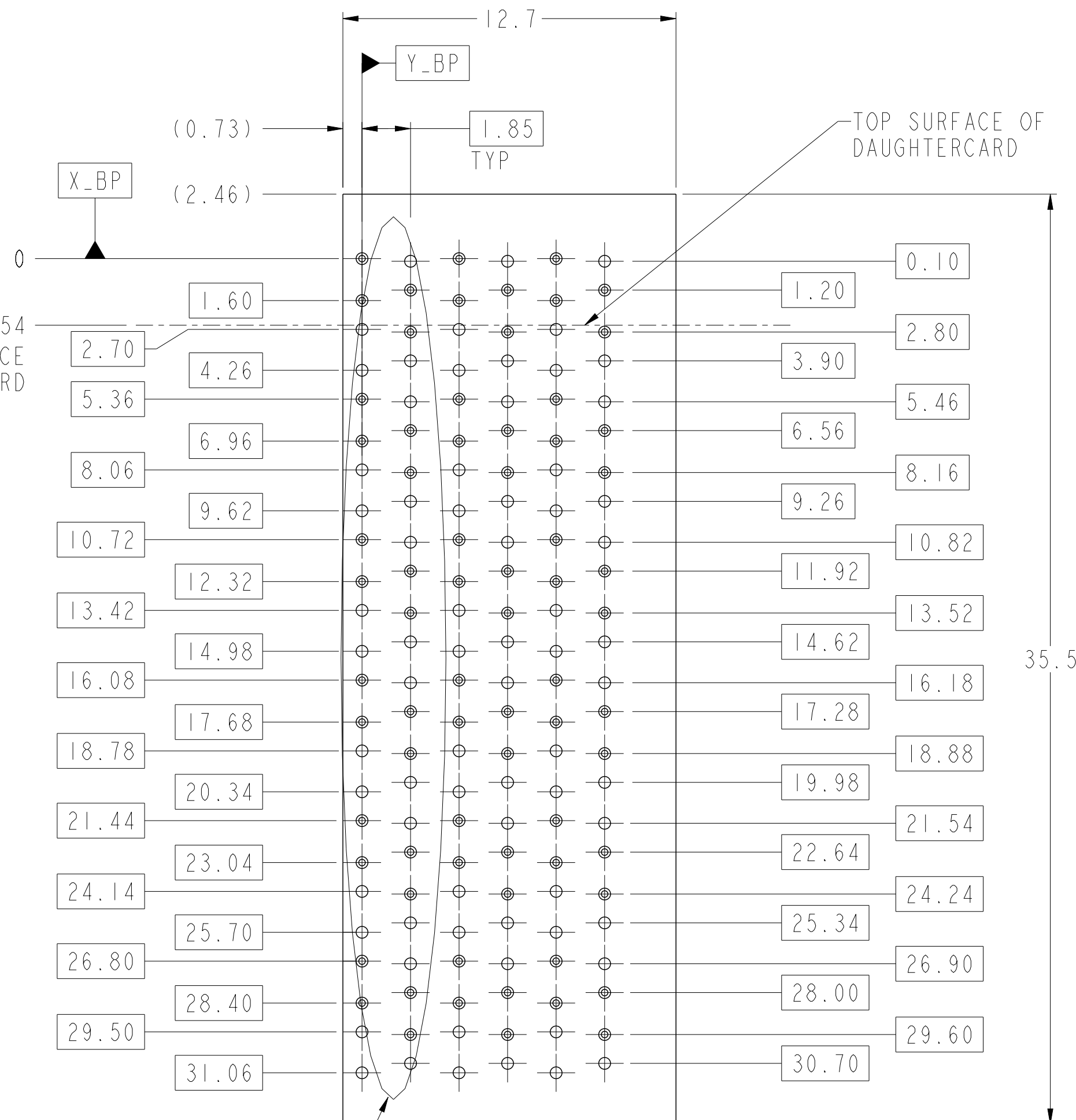
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12

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	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5	eng	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
surface	linear	appr	Chen-Hong Tan	2014/12/10	product family	XCede	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 6 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	E

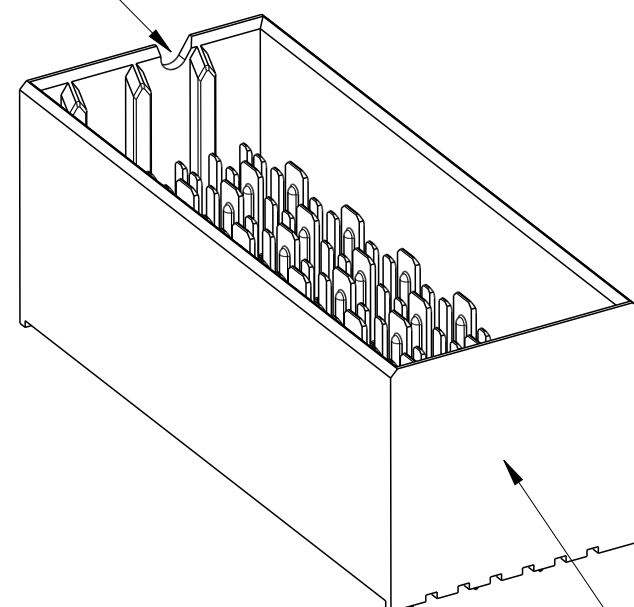
PDS: Rev :E

STATUS:Released

Printed: Dec 10, 2014

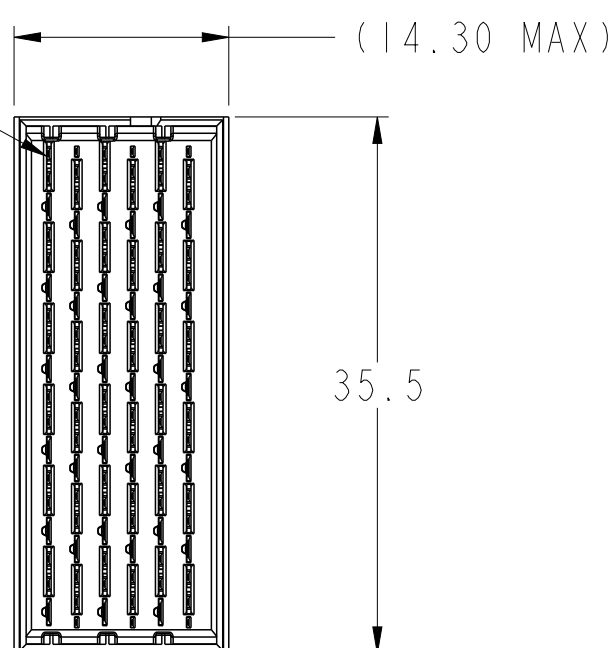
FOUR WALL MODULE

SEE NOTE 8



SEE NOTE 5

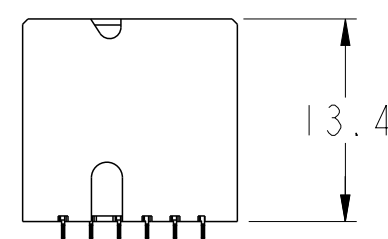
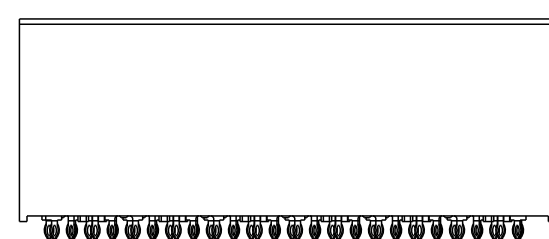
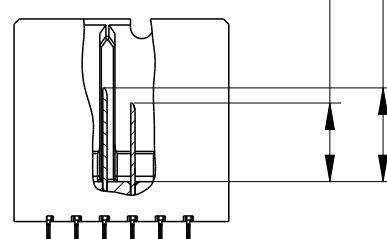
POSN A1



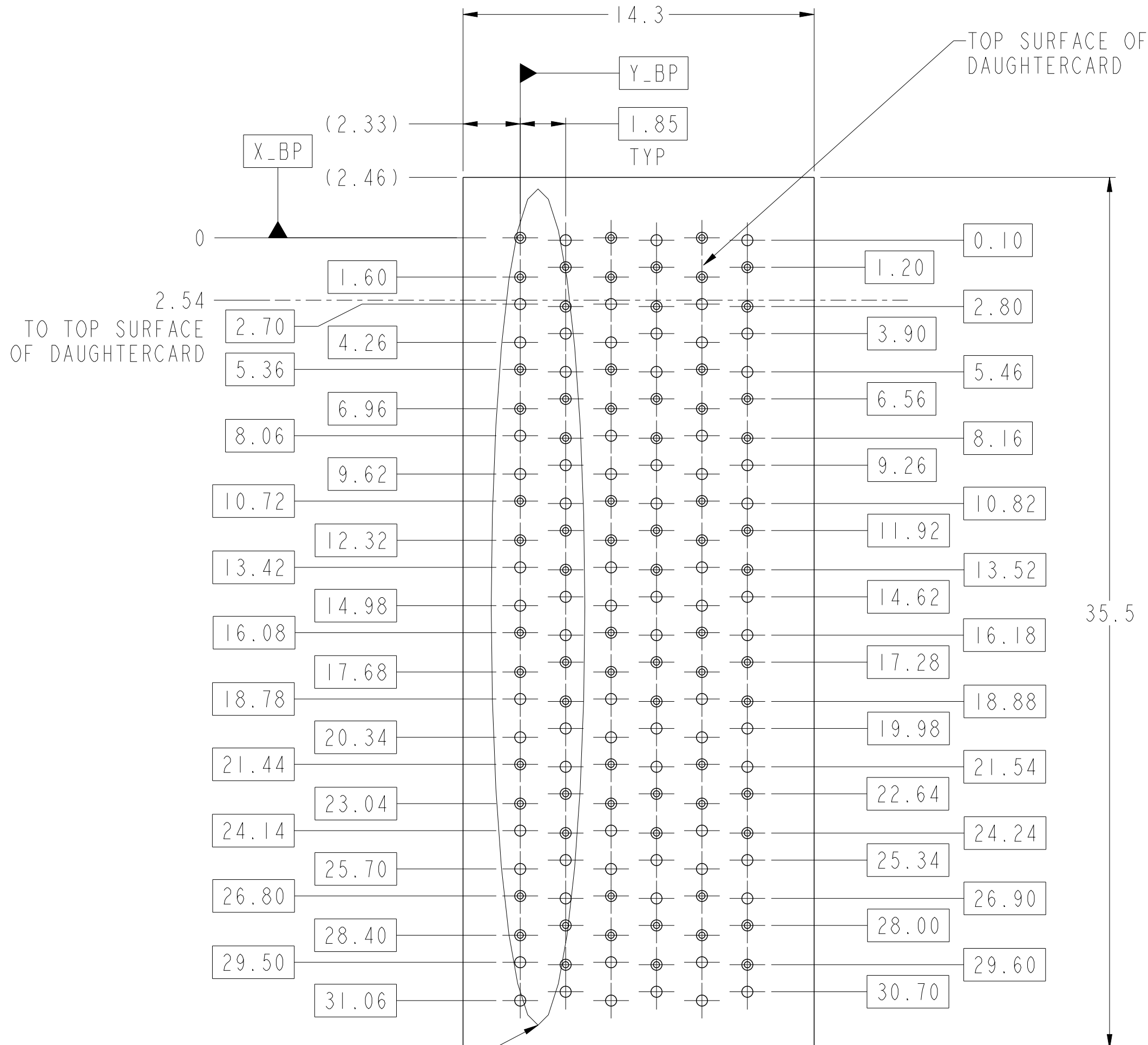
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

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



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	Sandar Soe	2014/10/02	chr	-	ecn no	ELX-S-18843-1	rel level	Released
surface	✓	appr	Chen-Hong Tan	2014/12/10	product family	XCede	rel level	Released	rev	E
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 7 of 8		

PDS: Rev :E

STATUS:Released

Printed: Dec 10, 2014

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.
- ⚠

TAIL LENGTH=1.3mm FOR $\varnothing 0.55[0.0217"]$ COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR $\varnothing 0.45[0.0177"]$ COMPLIANT PIN DRILL
- A

⚠

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

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

$\varnothing$	0.10	X_BP	Y_BP
---------------	------	------	------

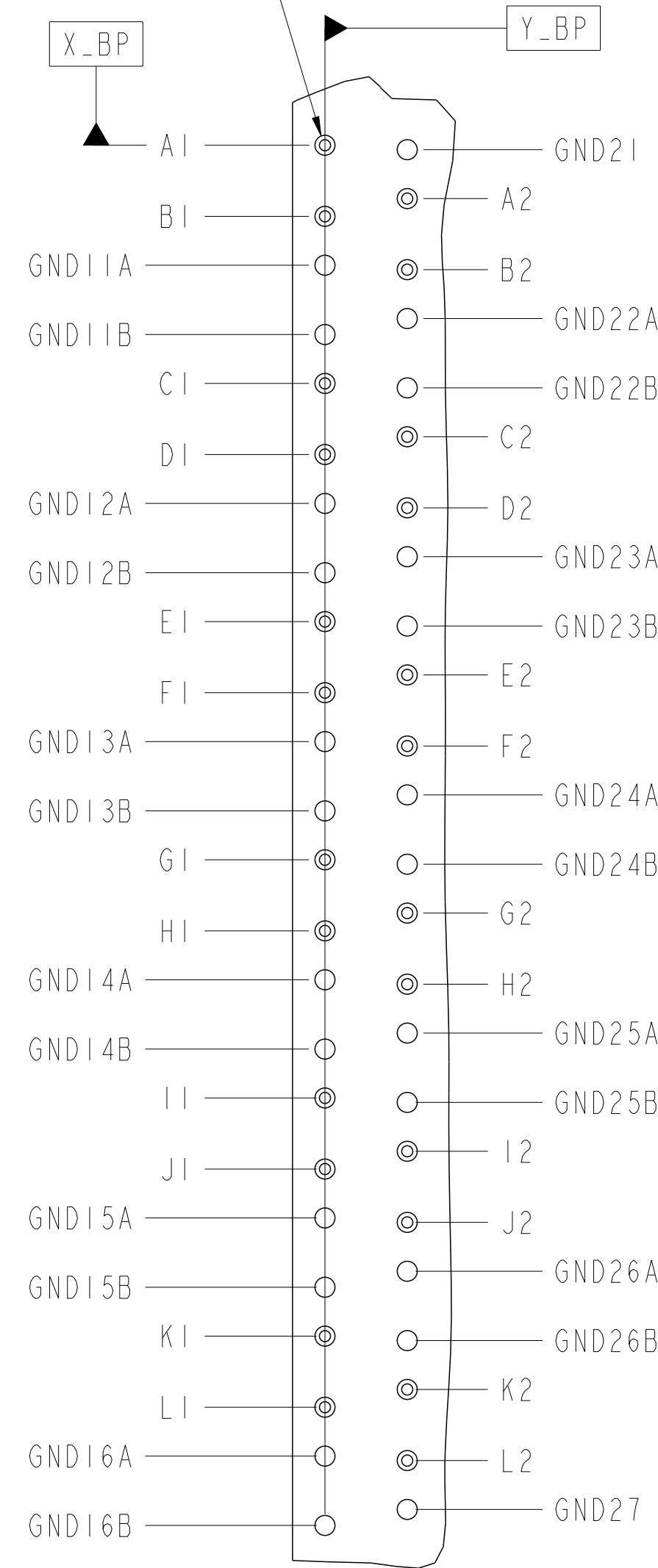


TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

COMPLIANT PIN DRILL	PTH	PAD
$\varnothing 0.55 [0.0217"]$	$\varnothing 0.45 \pm 0.05$	$\varnothing 0.85$
$\varnothing 0.45 [0.0177"]$	$\varnothing 0.36 \pm 0.05$	$\varnothing 0.75$

DETAIL A
SCALE 8:1

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		Sandar Soe		2014/10/02						ecn no		ELX-S-18843-1		Released					
ASME Y14.5				chr		-		-						rel level									
		linear		appr		Chen-Hong Tan		2014/12/10		product family		XCede											
						title		MODULE ASSEMBLY		dwg no		10104997		rev		E							
																		VERTICAL HEADER, 6-COLUMN, 6-PAIR					
ASME Y14.5		angular		0°		±°		www.fci.com		cat. no.		SEE P/N TREE		Product -		Customer Drw		sheet 8 of 8					