

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

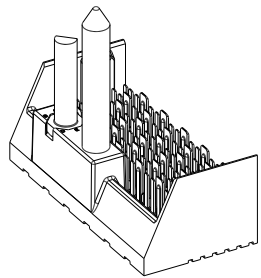
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

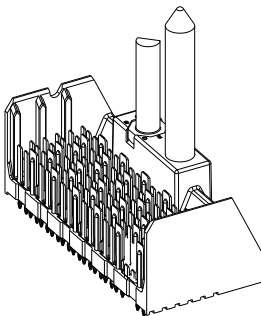
S

T

U

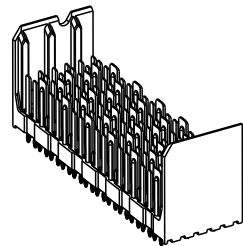
V

W



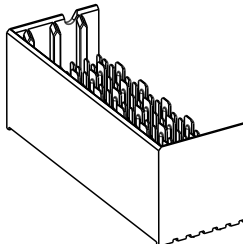
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



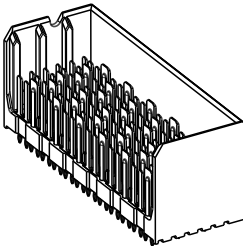
LEFT WALL
MODULE
(SEE SHEET 5)

L



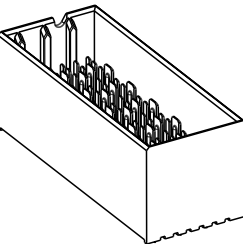
RIGHT WALL
MODULE
(SEE SHEET 6)

M



FOUR WALL
MODULE
(SEE SHEET 7)

1



NUMBER

CONTACT MATING WIPE LENGTH

COMPLIANT PIN
DRILL SIZE

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

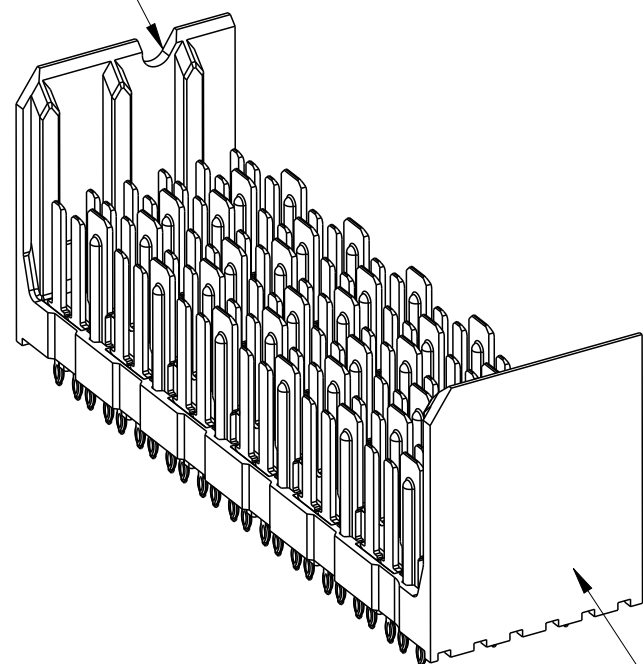
spec ref	SEE NOTES		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		
ASME Y14.5	linear	0.X ±0.2 0.XX ±0.10 0.XXX ±0.050	angular 0° ±°
surface	Amphenol FCI		
ASME Y14.5	cat. no.		

dr	Kok-Hoe Lee	2010/06/23
eng	Michael Song	2016/06/01
chr	Heaven Cen	2016/06/08
appr	Pei-Ming Zheng	2016/06/15

projection	MM	size	A2	scale	4:1
product family	XCede				
rel level	Released				
title	MODULE ASSEMBLY				
cat. no.	SEE P/N TREE				
Product - Customer Drw	sheet 1 of 8				

OPEN (2-WALL) MODULE

SEE NOTE 8



SEE NOTE 5

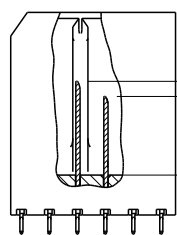
POSN A1

(11.05 MAX)

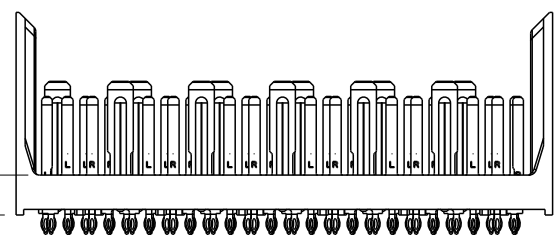
35.5

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)

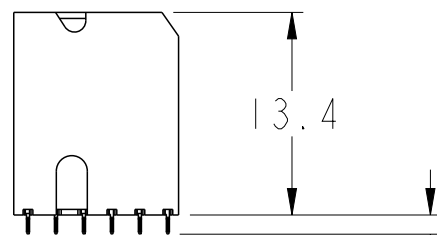
(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

X_BP

0

2.54
TO TOP SURFACE
OF DAUGHTERCARD

(0.73)

(2.46)

1.60

2.70

5.36

8.06

10.72

13.42

16.08

18.78

21.44

24.14

26.80

29.50

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

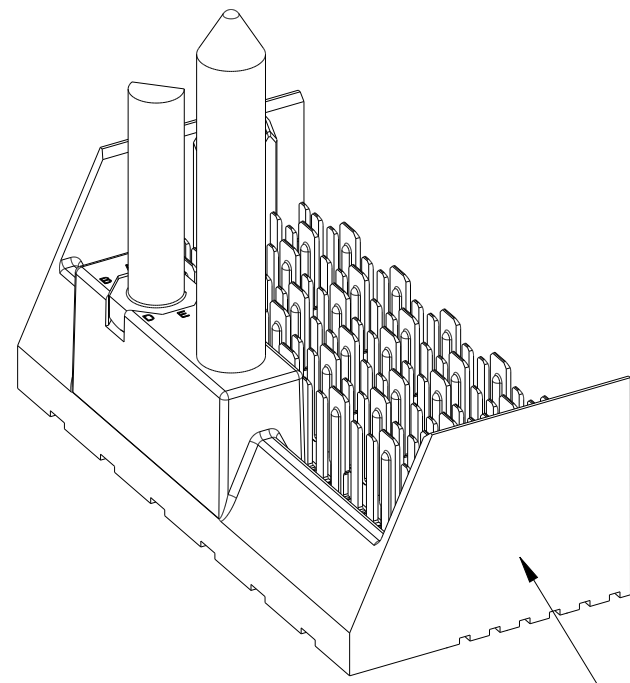
26.90

29.60

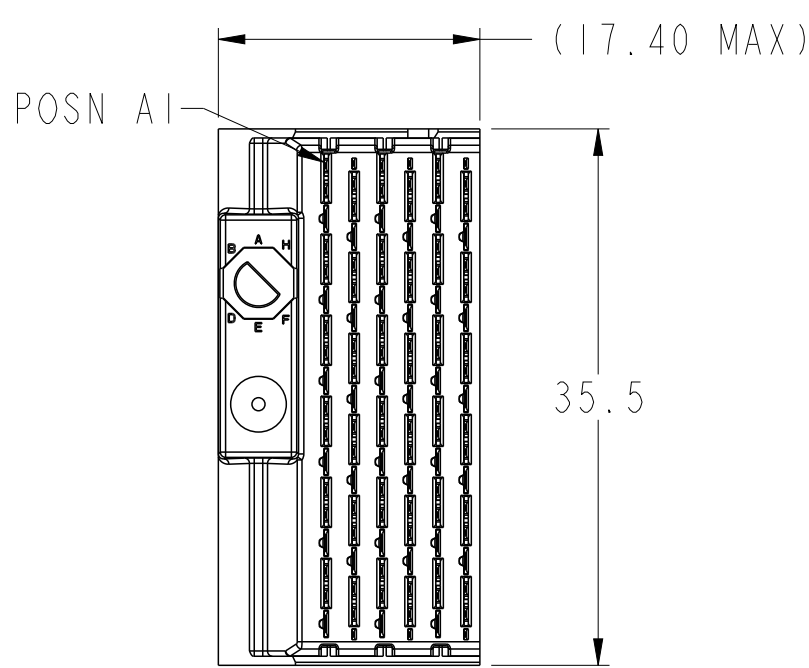
35.5

spec ref		SEE NOTES		dr	Kok-Hoe Lee	2010/06/23	projection 	MM 	size	A2	scale	3:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/01			ecn no	ELX-DG-24191-1			
ASME Y14.5				chr	Heaven Cen	2016/06/08				rel level	Released		
				appr	Pei-Ming Zheng	2016/06/15	product family		XCede				
surface  ASME Y14.5	linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR			dwg no	10104997		rev	F
		0.XX	±0.10										
		0.XXX	±0.050										
		angular	0°	±°	cat. no.		SEE P/N TREE		Product - Customer Drw			sheet 2 of 8	

LEFT POLARIZING/GUIDE MODULE



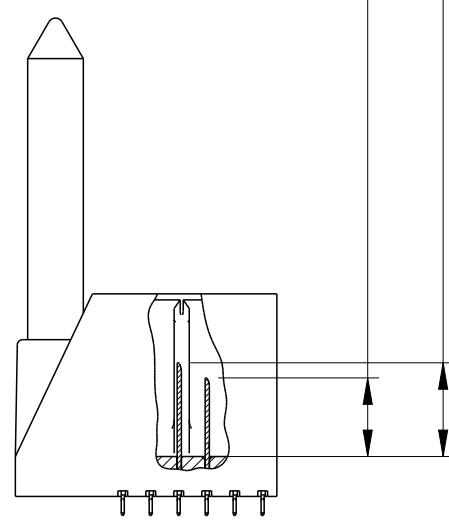
SEE NOTE 5



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

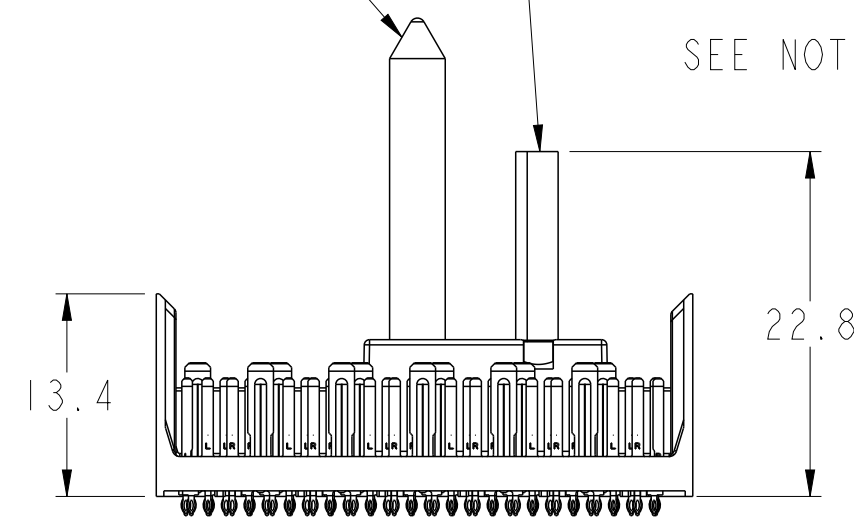
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)

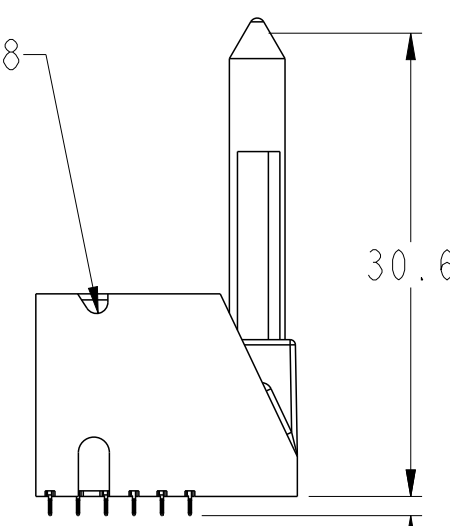


OPTIONAL KEYING PIN
(SEE P/N TREE)

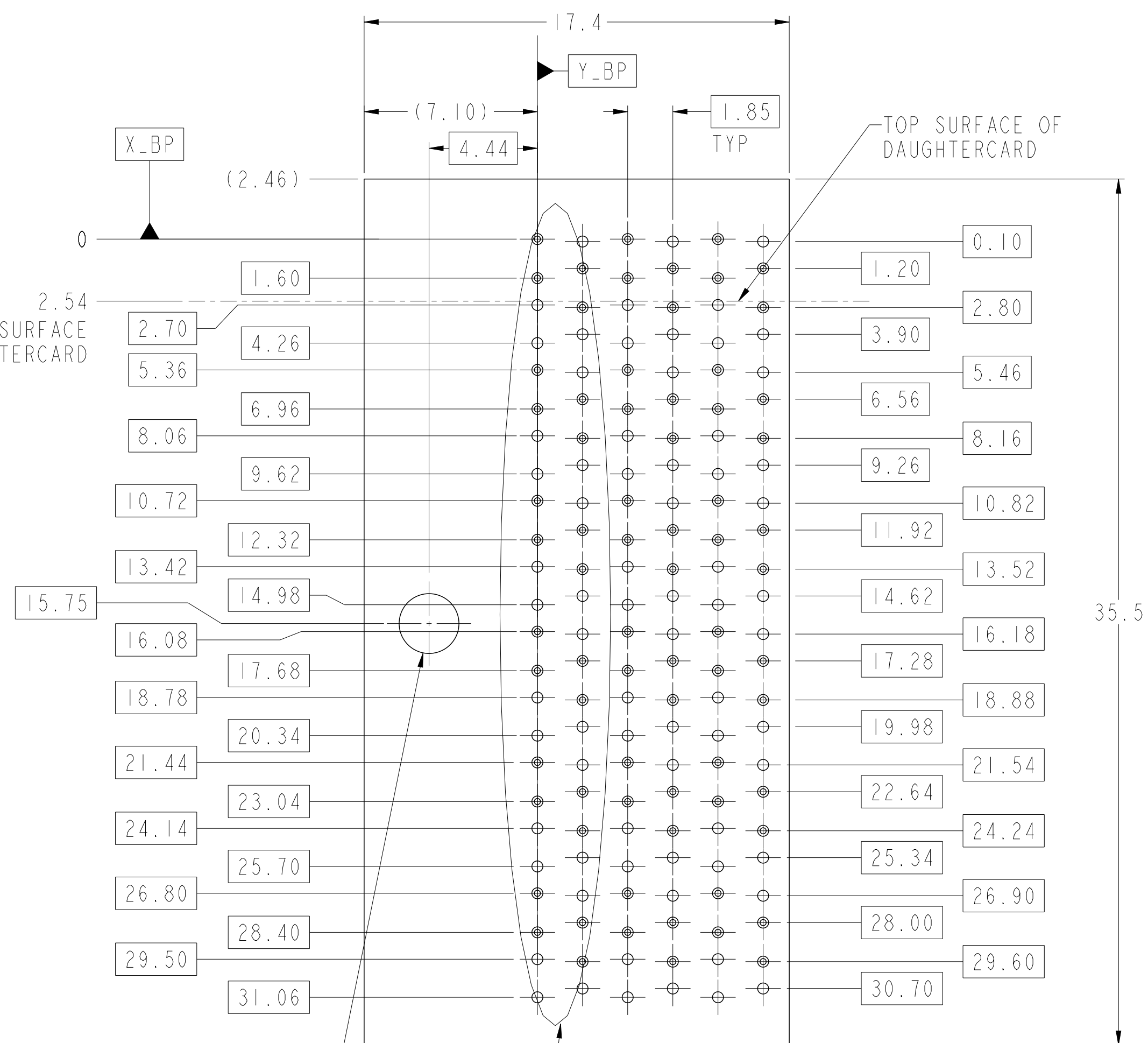
GUIDE PIN



SEE NOTE 8



TAIL LENGTH
SEE NOTE 12



$\oplus$	0.10	X_BP	Y_BP
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SEE NOTE 11 & TABLE 1

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		3:1														
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2016/06/01						ecn no		ELX-DG-24191-1																		
ASME Y14.5					chr		Heaven Cen		2016/06/08						rel level		Released																		
					appr		Pei-Ming Zheng		2016/06/15						product family		XCede																		
surface		linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY										dwg no		10104997										rev	
				0.XX		±0.10																													
				0.XXX		±0.050																													
ASME Y14.5		angular		0°		±						cat. no.		SEE P/N TREE				Product- Customer Drw				sheet 3 of 8													

PDS: Rev :F

STATUS:Released

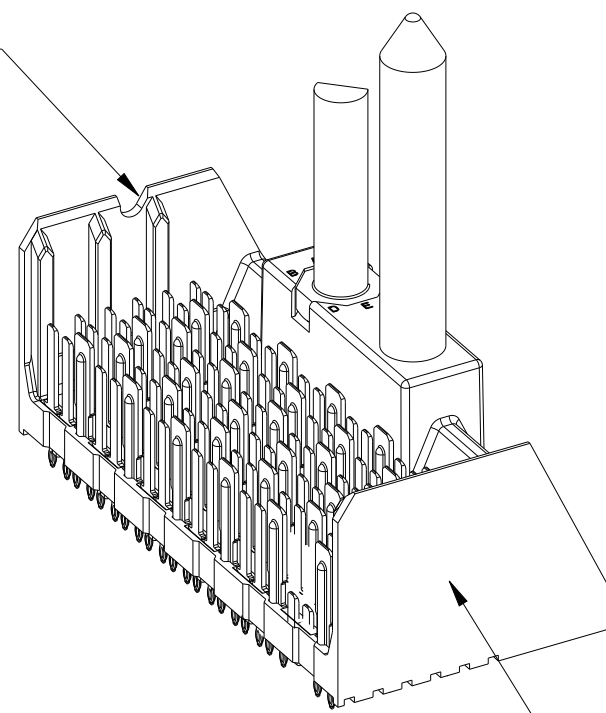
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Amphenol FCI

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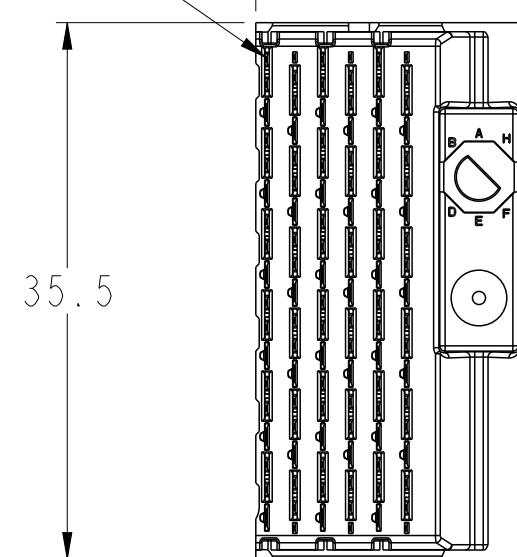
RIGHT POLARIZING/GUIDE MODULE

SEE NOTE 8



SEE NOTE 5

POSN A1 (17.50 MAX)

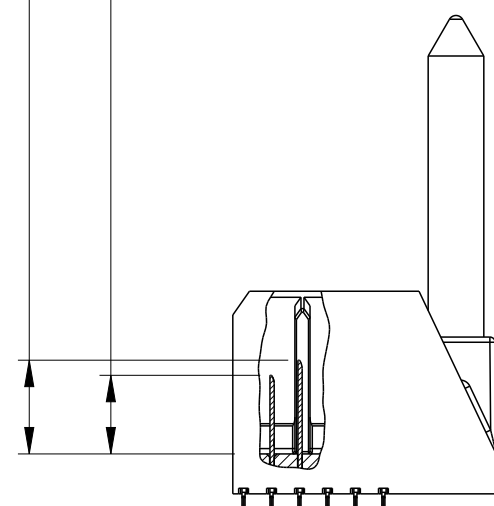


35.5

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

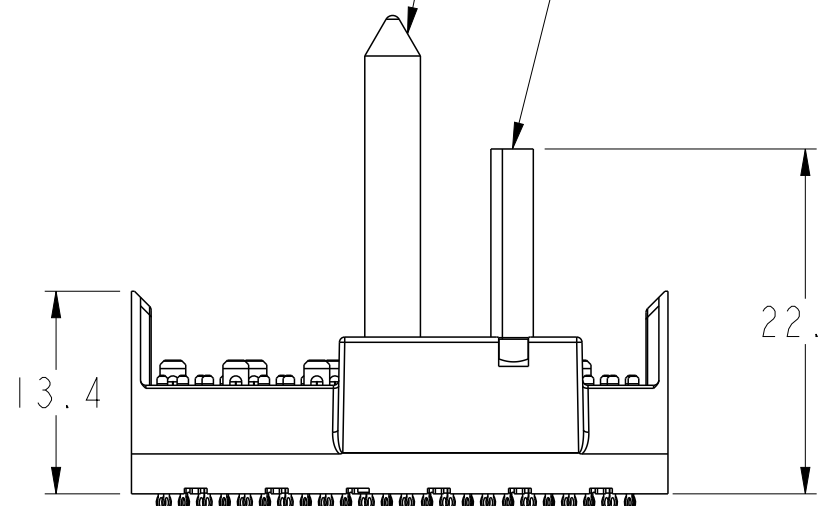
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



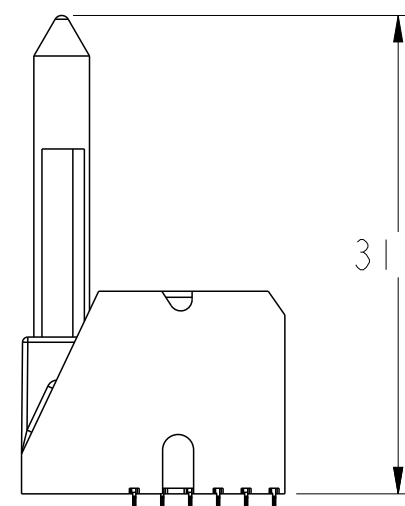
GUIDE PIN

OPTIONAL KEYING PIN
(SEE P/N TREE)



13.4

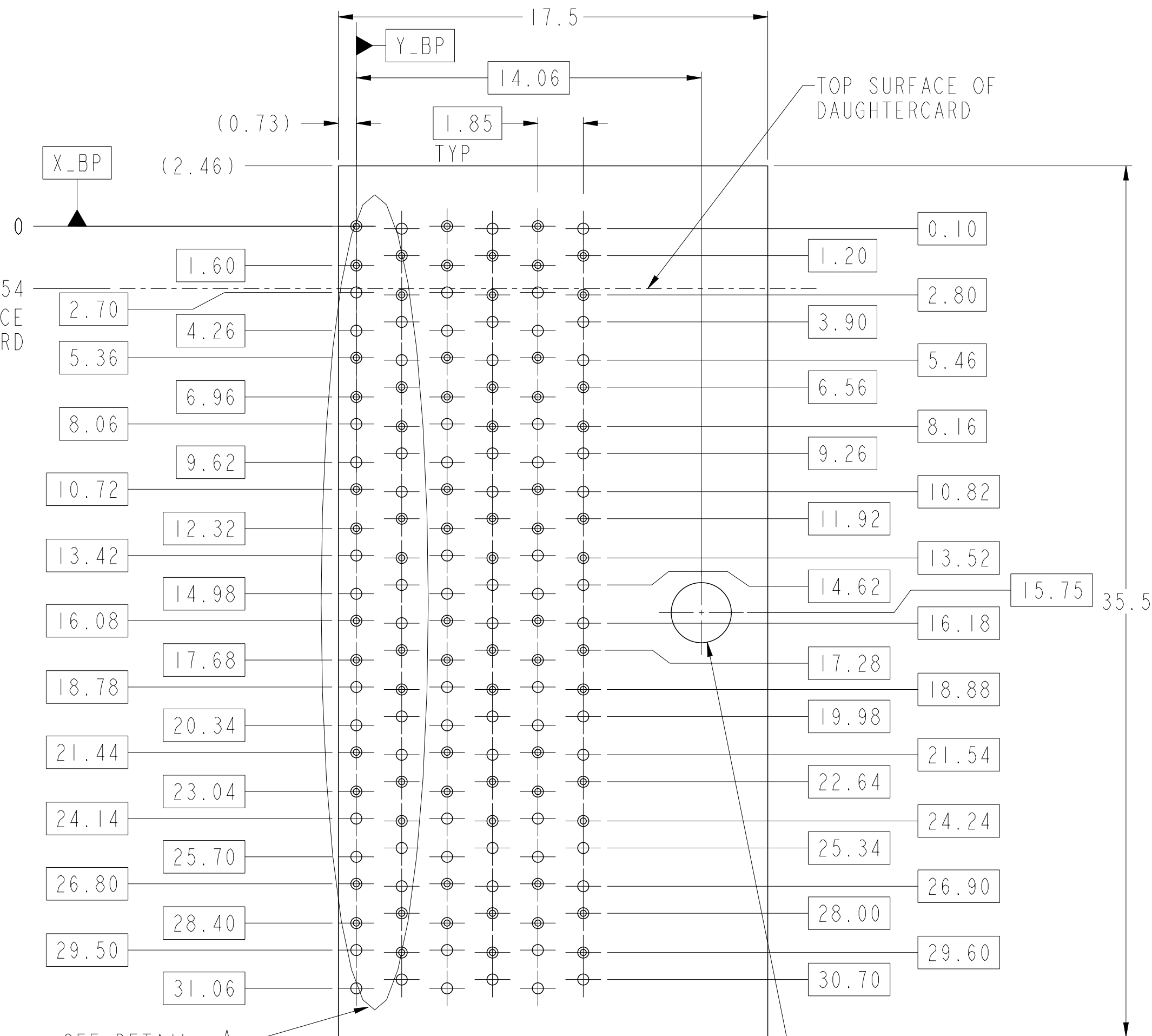
22.8



31.6

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

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	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/01	chr	Heaven Cen	ecv no	ELX-DG-24191-1	rel level	Released
ASME Y14.5		app	Pei-Ming Zheng	2016/06/15	product family	XCede	rel level	Released	rev	F
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	angular	0°	±°
ASME Y14.5		cat. no.	SEE P/N TREE	Product	Customer Drw	sheet 4 of 8	dwg no	10104997	rev	F

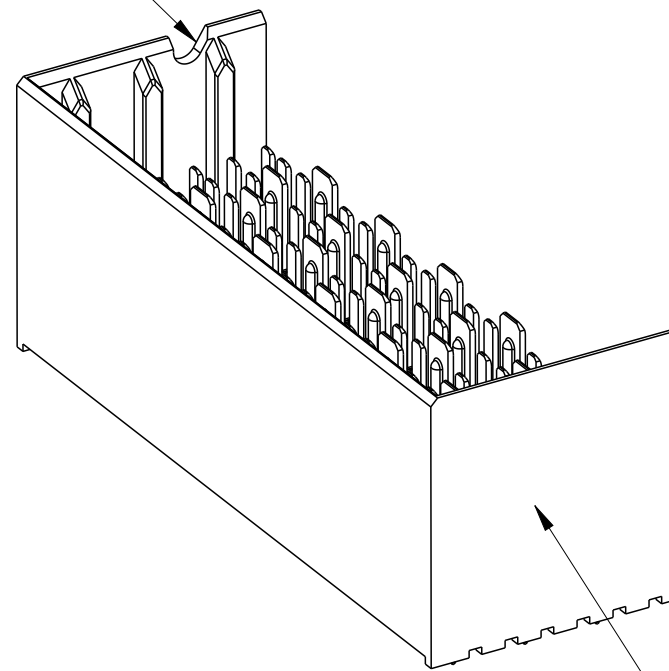
PDS: Rev :F

STATUS:Released

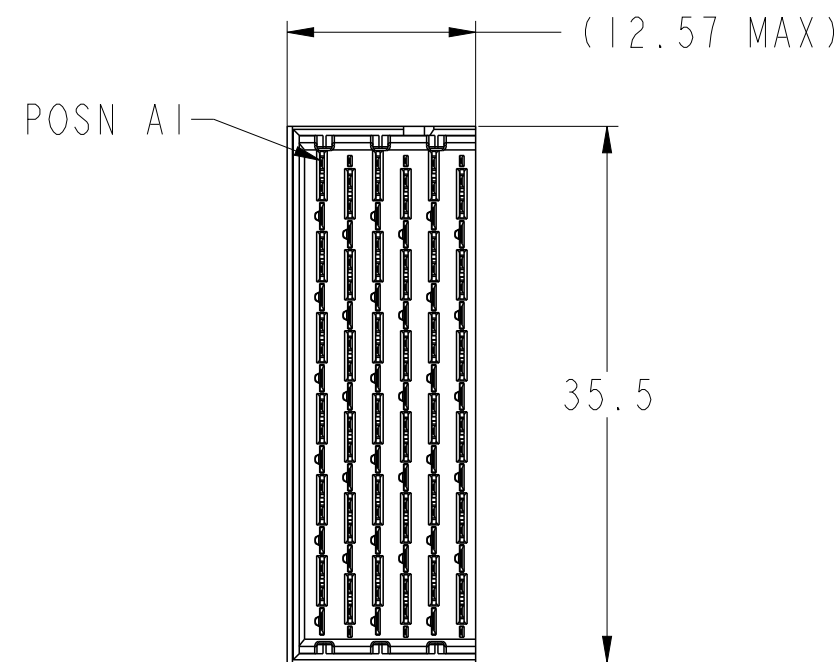
Printed: Jun 15, 2016

LEFT WALL MODULE

SEE NOTE 8

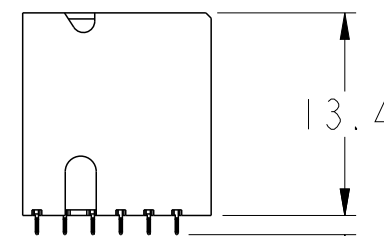
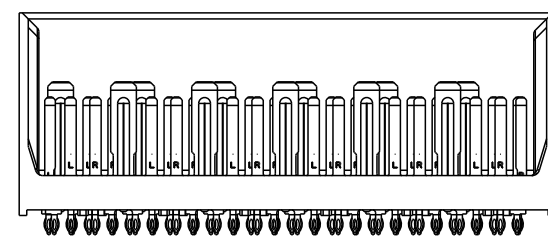
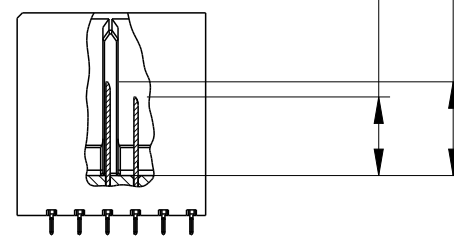


SEE NOTE 5

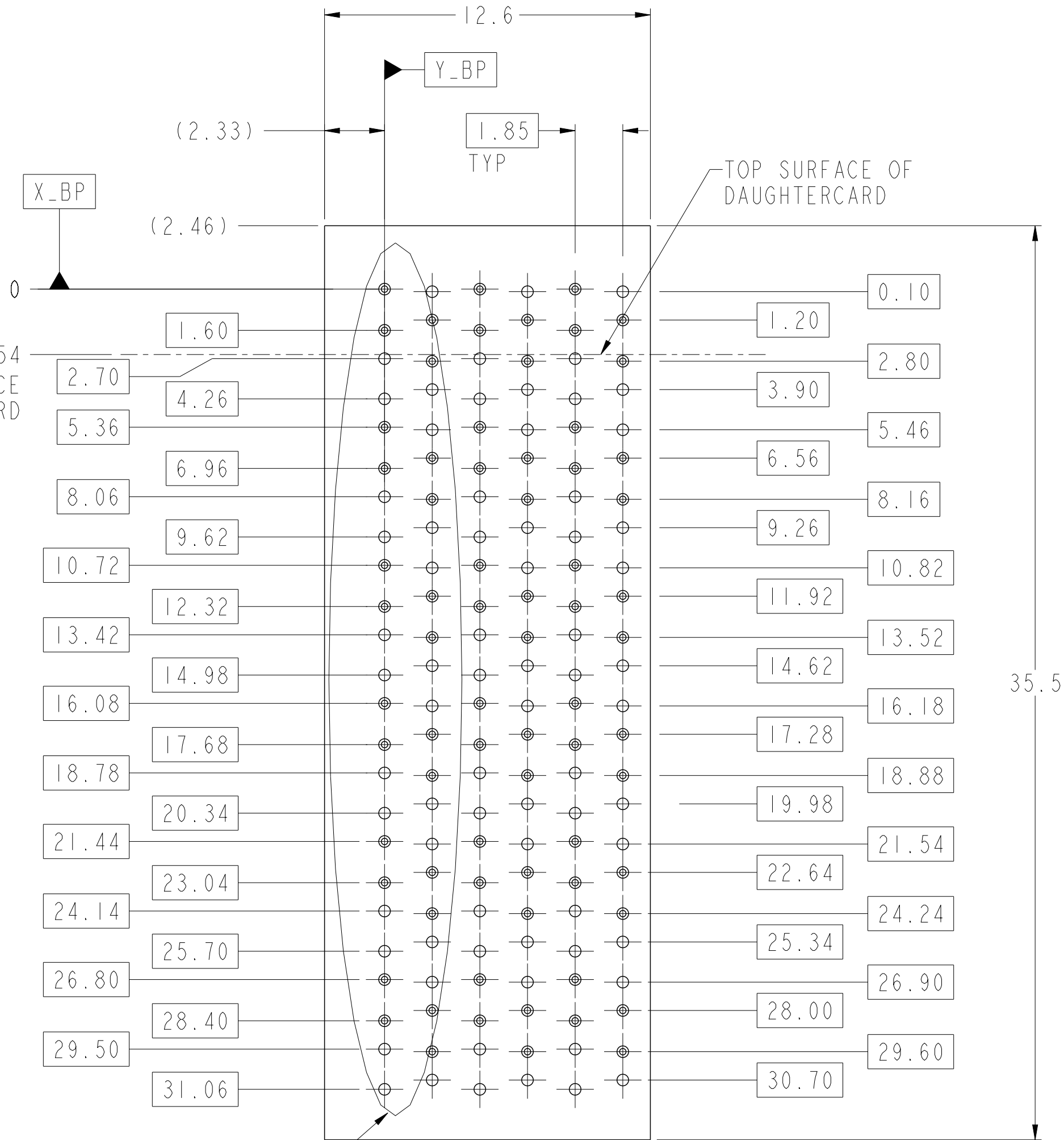


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12



spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/23	projection	MM	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	Michael Song	2016/06/01	chr	Heaven Cen	2016/06/08	ecn no	ELX-DG-24191-1	
surface	linear	appr	Pei-Ming Zheng	2016/06/15	product family	XCede	rel level	Released	rev	F
ASME Y14.5	angular	0°	±°	0.X ±0.2	0.XX ±0.10	0.XXX ±0.050	cat. no.	SEE P/N TREE	Product - Customer Drw	sheet 5 of 8
MODULE ASSEMBLY					10104997					
VERTICAL HEADER, 6-COLUMN, 6-PAIR										

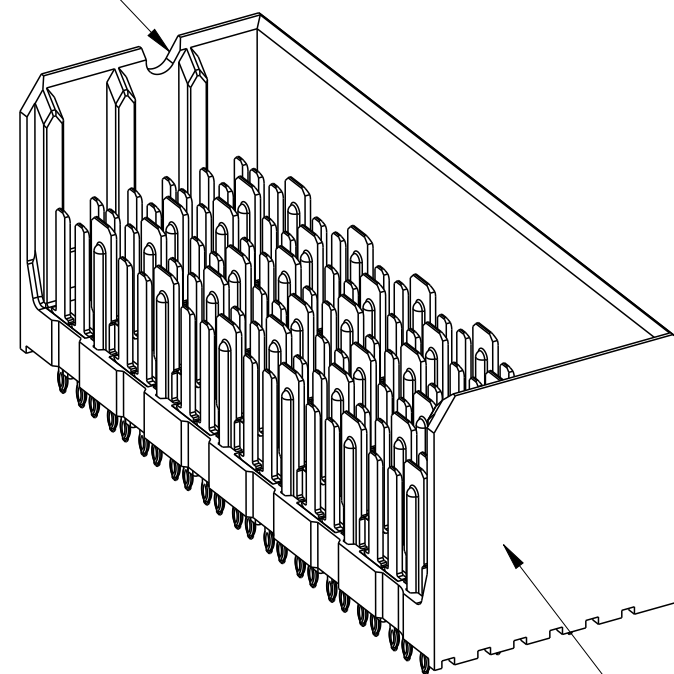
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STATUS:Released

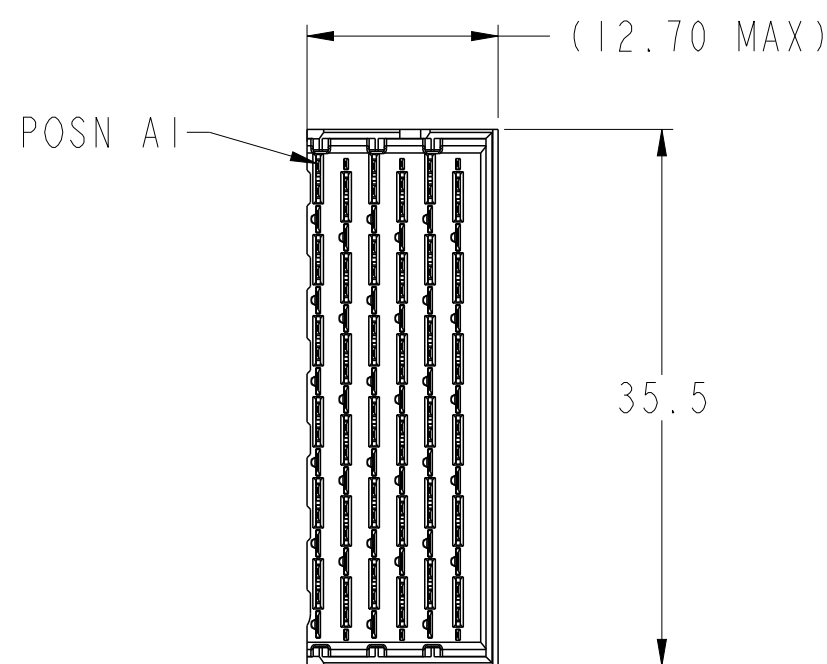
Printed: Jun 15, 2016

RIGHT WALL MODULE

SEE NOTE 8



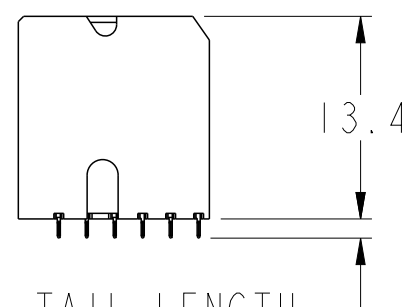
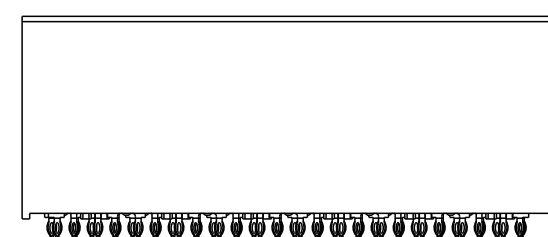
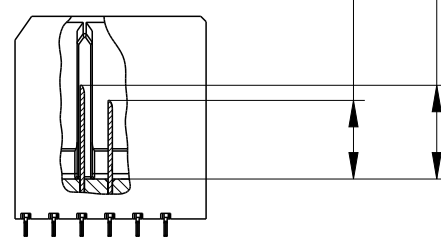
SEE NOTE 5



SCALE 2:1

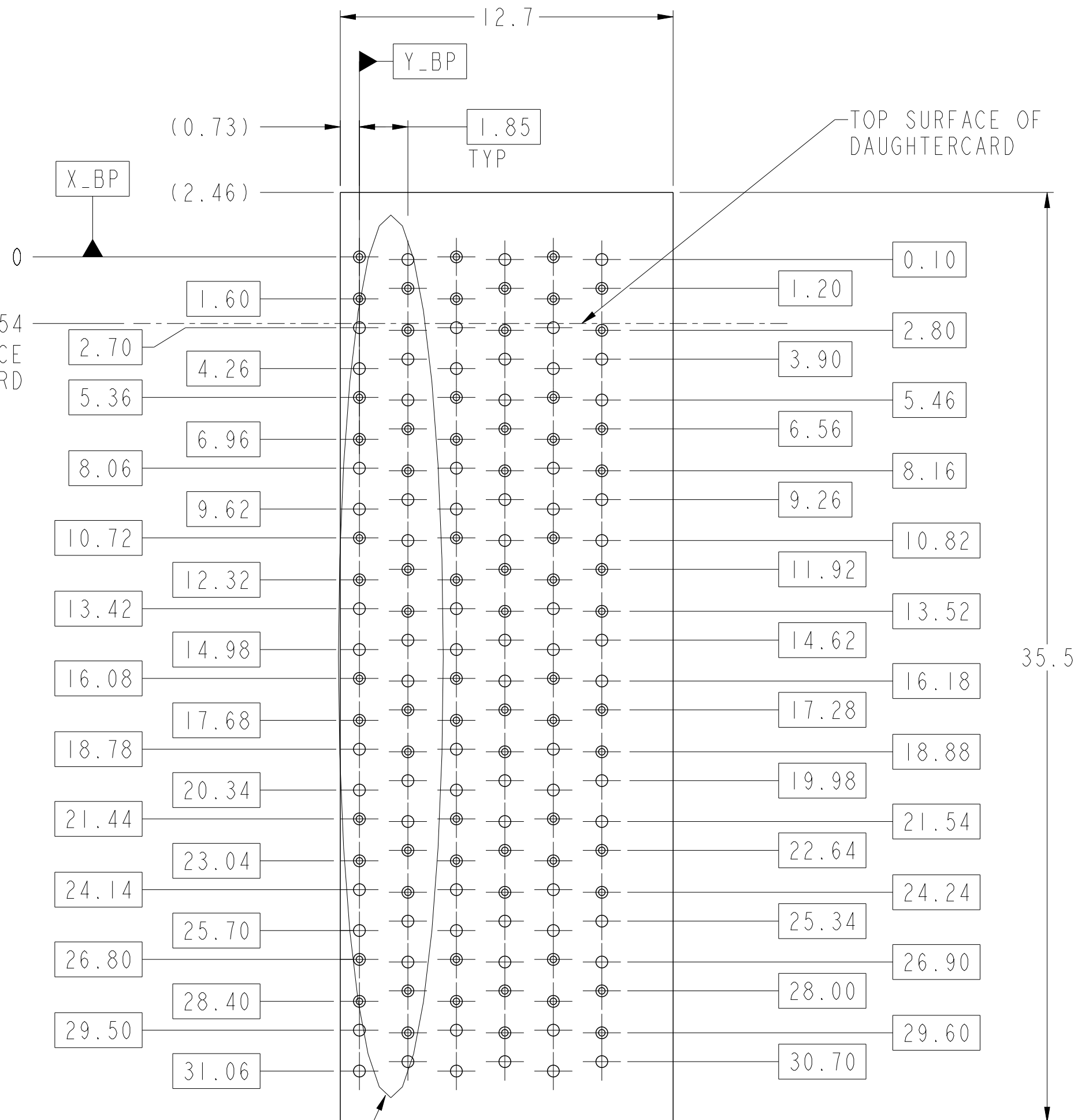
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12

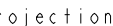
2.54
TO TOP SURFACE
OF DAUGHTERCARD



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			size	scale				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/01			A2	3:1				
ASME Y14.5			chr	Heaven Cen	2016/06/08			ecn no	ELX-DG-24191-1				
			appr	Pei-Ming Zheng	2016/06/15	product family	XCede	rel level	Released				
surface		linear	Amphenol FCI	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR			dwg no	10104997	rev	F		
ASME Y14.5												0.X	±0.2
												0.XX	±0.10
	angular	0°	±0.050										
			cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 6 of 8					

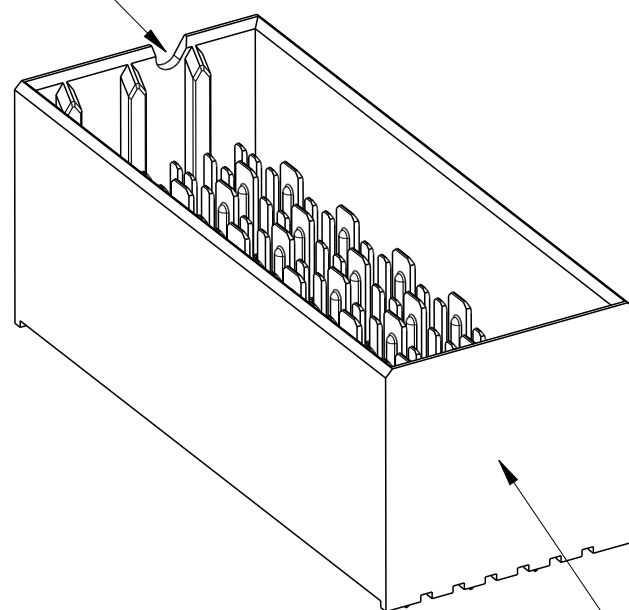
PDS: Rev :F

STATUS:Released

Printed: Jun 15, 2016

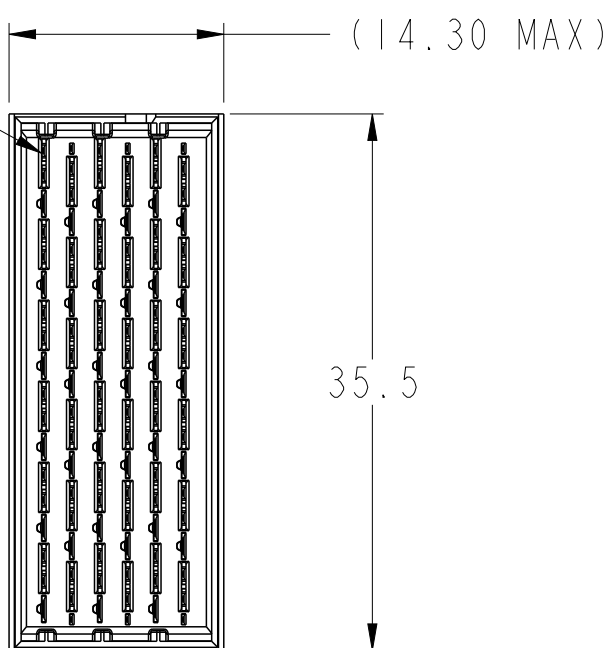
FOUR WALL MODULE

SEE NOTE 8



SEE NOTE 5

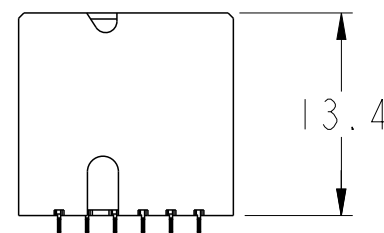
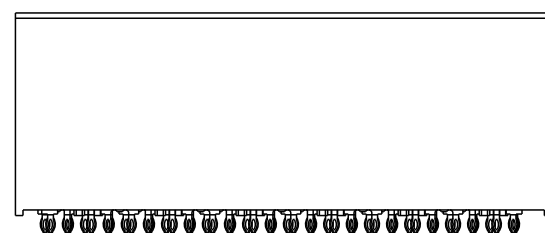
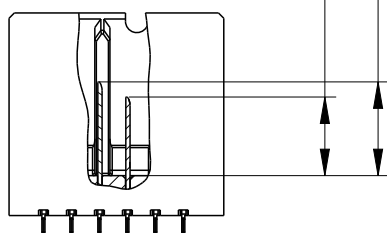
POSN A1



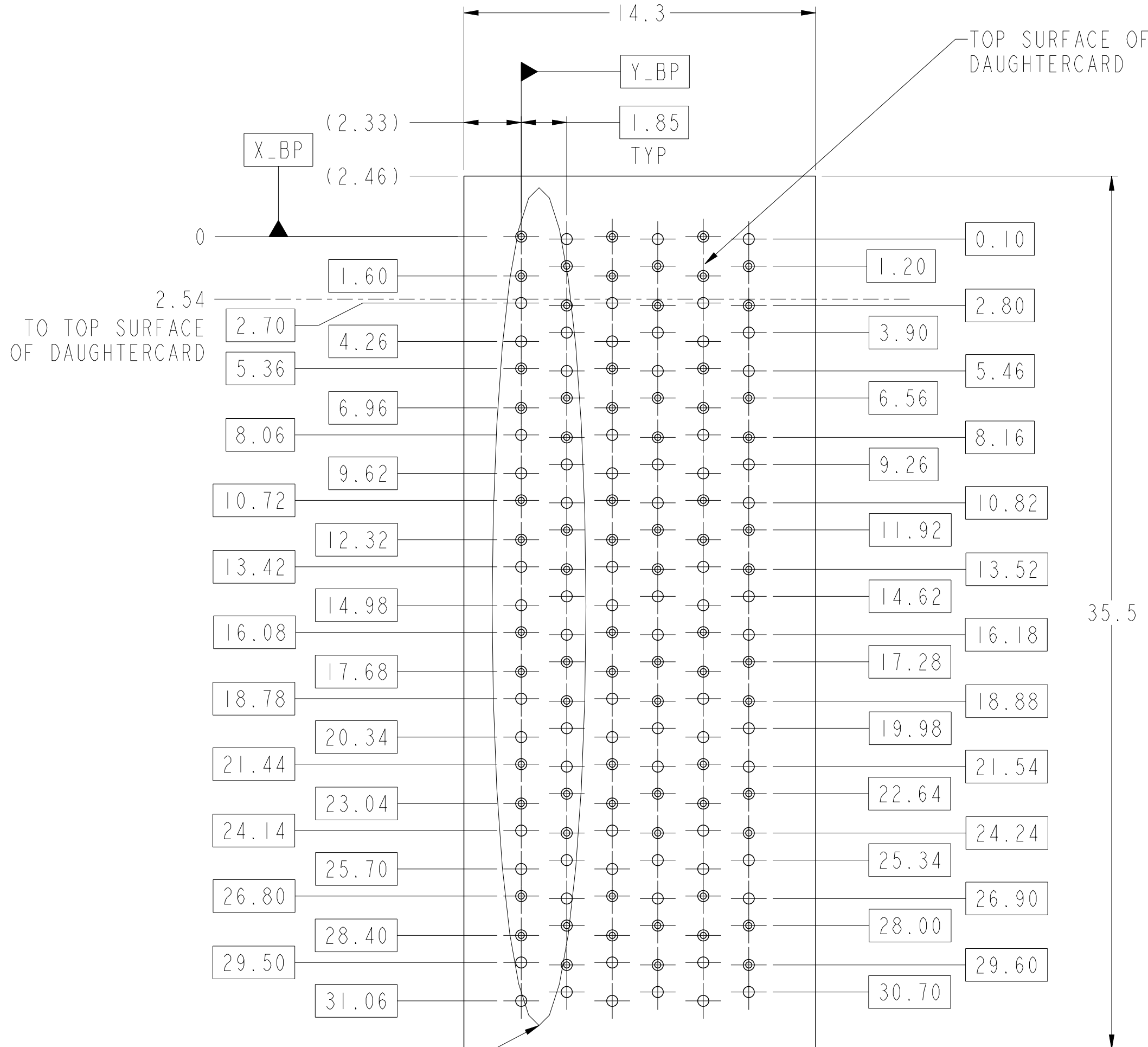
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

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		scale							
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/01						A2		3:1							
ASME Y14.5				chr		Heaven Cen		2016/06/08						ecn no		ELX-DG-24191-1							
				appr		Pei-Ming Zheng		2016/06/15		product family		-		rel level		Released							
surface				linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10104997		rev		F	
ASME Y14.5		angular		0°		±°				cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 7 of 8							

Amphenol FCI

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REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

$\oplus$	$\varnothing 0.10$	X_BP	Y_BP
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TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO
COMPLIANT PIN DRILL

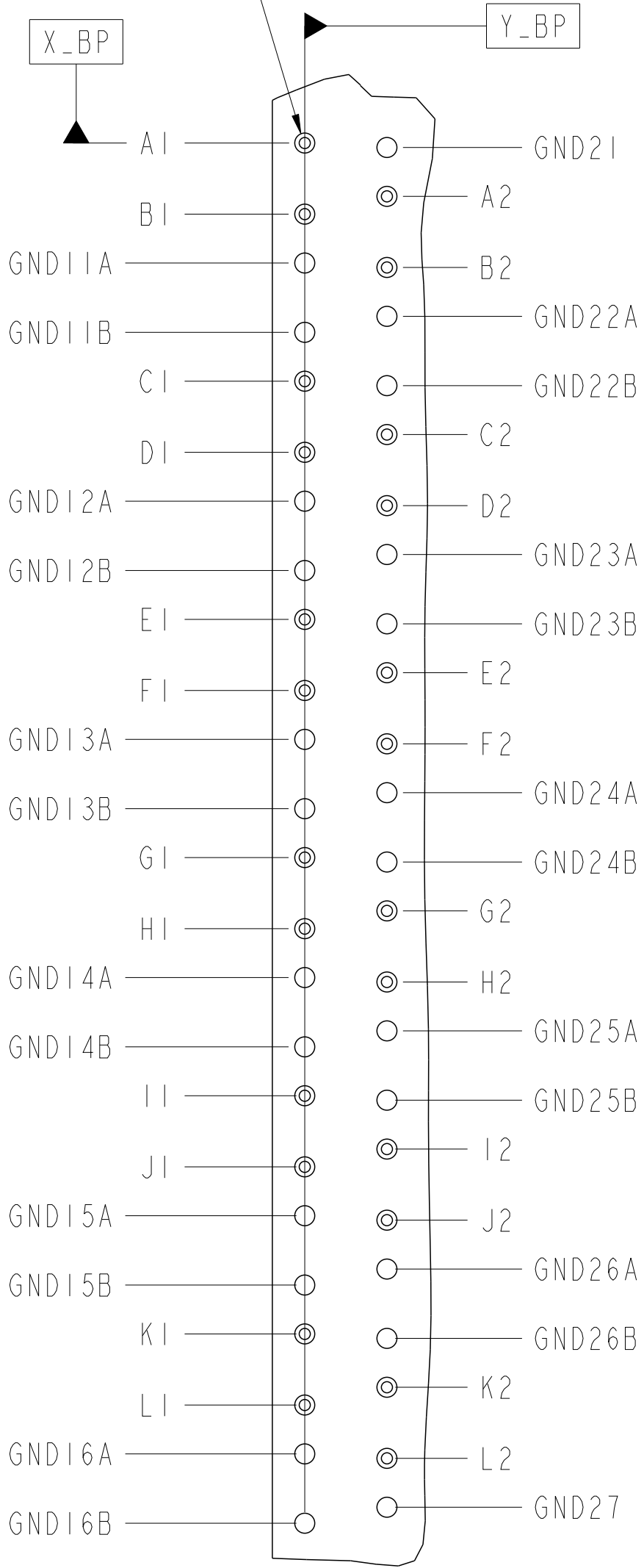
COMPLIANT PIN DRILL	PTH	PAD
$\varnothing 0.55$ [0.0217"]	$\varnothing 0.45 \pm 0.05$	$\varnothing 0.85$
$\varnothing 0.45$ [0.0177"]	$\varnothing 0.36 \pm 0.05$	$\varnothing 0.75$

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



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		Michael Song		2016/06/01		product family		-		ecn no		ELX-DG-24191-1												
ASME Y14.5					chr		Heaven Cen		2016/06/08						rel level		Released												
					appr		Pei-Ming Zheng		2016/06/15																				
surface		linear		0.X		±0.2				title		MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR										dwg no		10104997		rev		F	
		0.XX		±0.10																									
		0.XXX		±0.050																									
ASME Y14.5		angular		0°		±°						cat. no.		SEE P/N TREE		Product - Customer Drw										sheet 8 of 8			