

A
B
C
D
E
F

1 0 1 0 4 9 9 9 - X 0 E - X X X L F

8-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

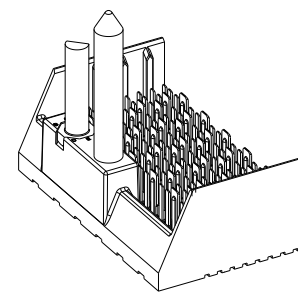
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

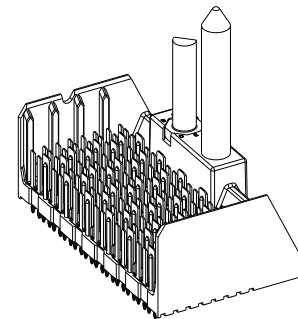
S

T

U

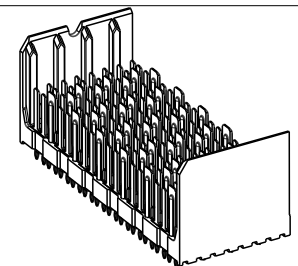
V

W



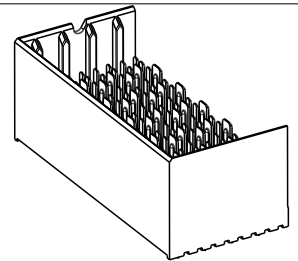
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



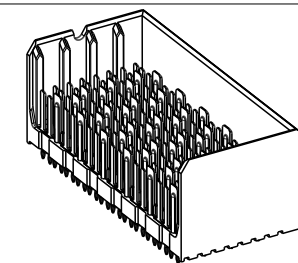
LEFT WALL
MODULE
(SEE SHEET 5)

L



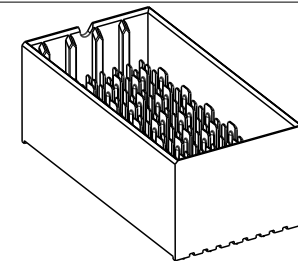
RIGHT WALL
MODULE
(SEE SHEET 6)

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

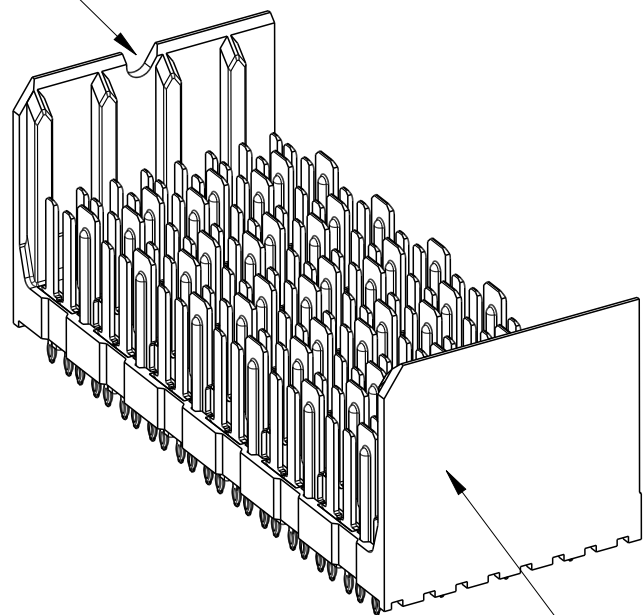
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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	2010/06/24	projection		MM	size	A2	scale	4:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/06				ecn no	ELX-DG-24191-1			
ASME Y14.5				chr	Heaven Cen	2016/06/08	product family		XCede		rel level		Released	
				appr	Pei-Ming Zheng	2016/06/15								
surface		linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY				dwg no	10104999	rev	E
			0.XX	±0.10										
			0.XXX	±0.050			VERTICAL HEADER, 8-COLUMN, 6-PAIR							
ASME Y14.5	angular	0°	±°	cat. no.							SEE P/N TREE	Product - Customer Drw		sheet 1 of 8

OPEN (2-WALL) MODULE

SEE NOTE 8



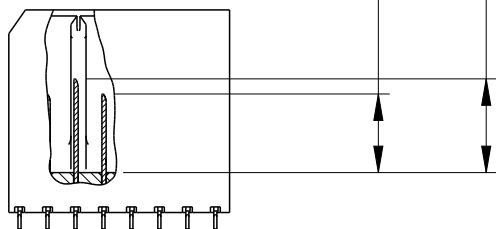
SEE NOTE 5

POSN A1 (14.75 MAX)

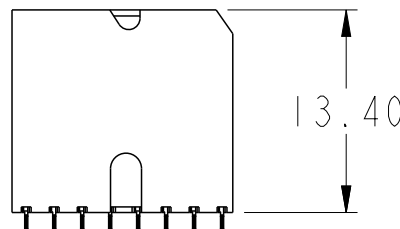
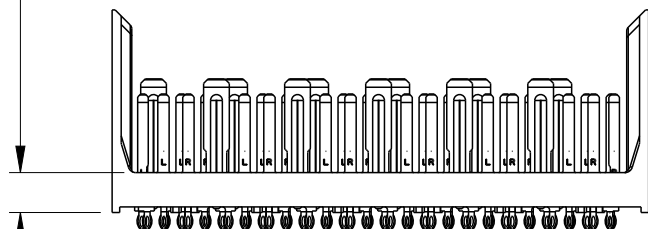
35.5

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)

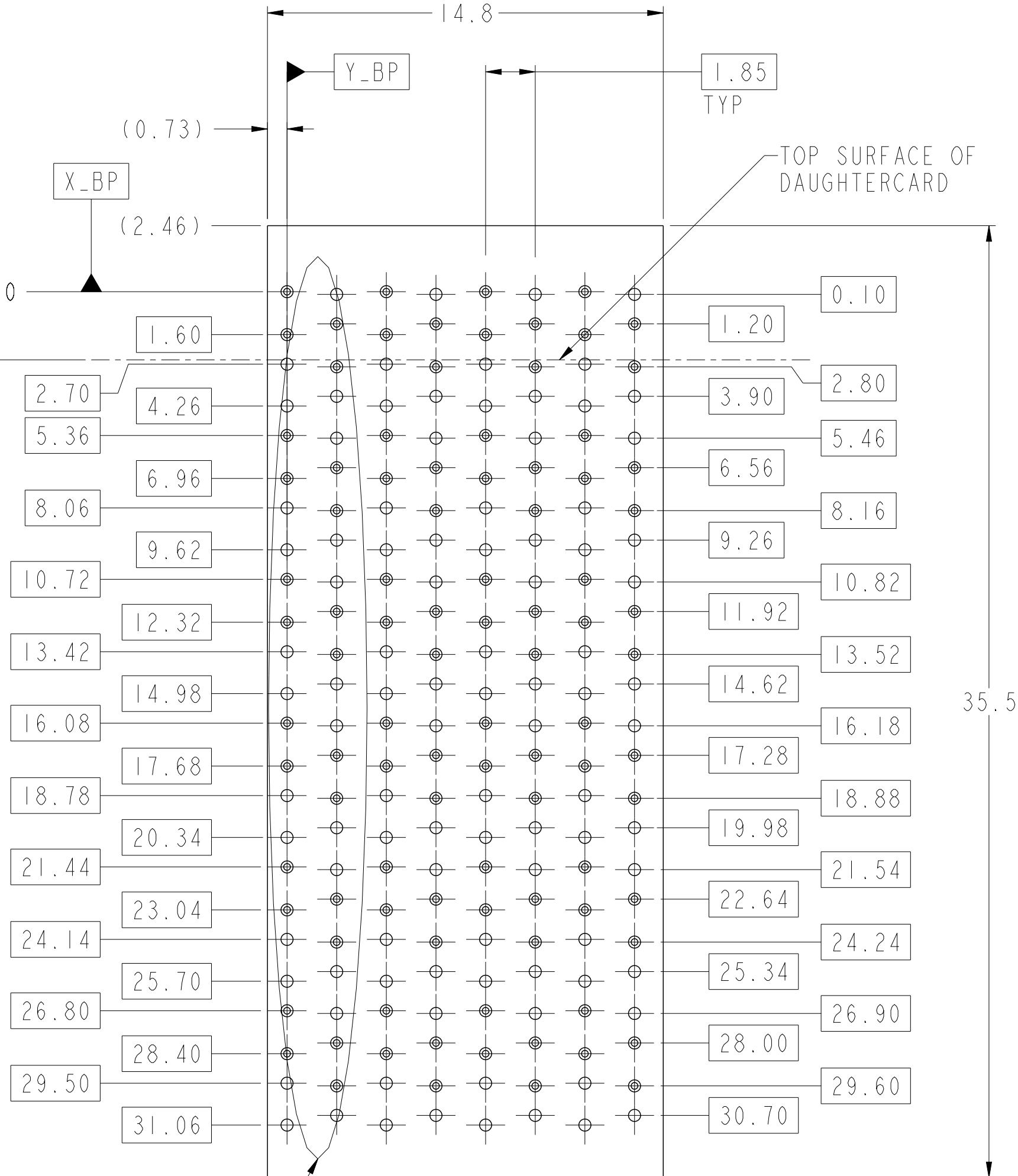


2.64±0.10 FROM STANDOFF SURFACE TO MATING SURFACE



TAIL LENGTH
SEE NOTE 12

2.54
TO TOP SURFACE
OF DAUGHTERCARD



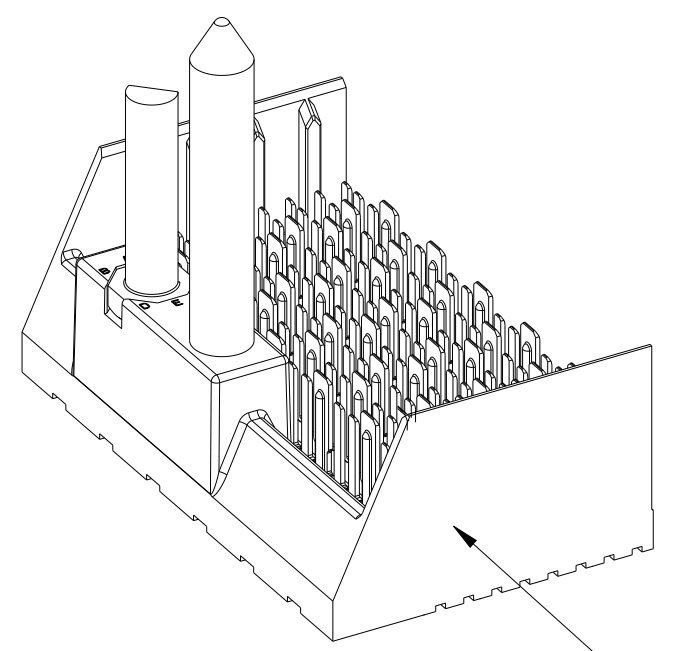
SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

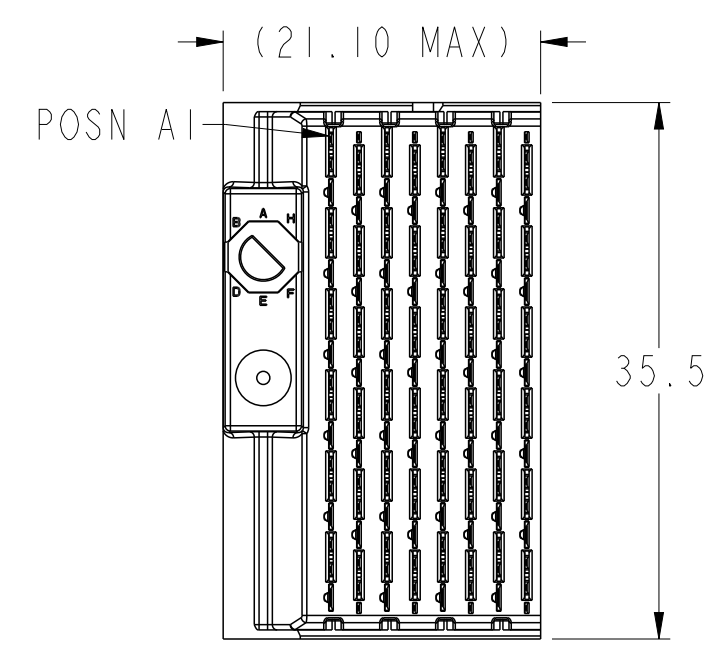
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/24		projection				size		A2		scale		3:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2016/06/06						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				title		MODULE ASSEMBLY		dwg no		10104999		rev		E		
		0.XX		±0.10		VERTICAL HEADER, 8-COLUMN, 6-PAIR																
ASME Y14.5		0.XXX		±0.050																		
		angular		0°		±°		cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 2 of 8								

LEFT POLARIZING/GUIDE MODULE

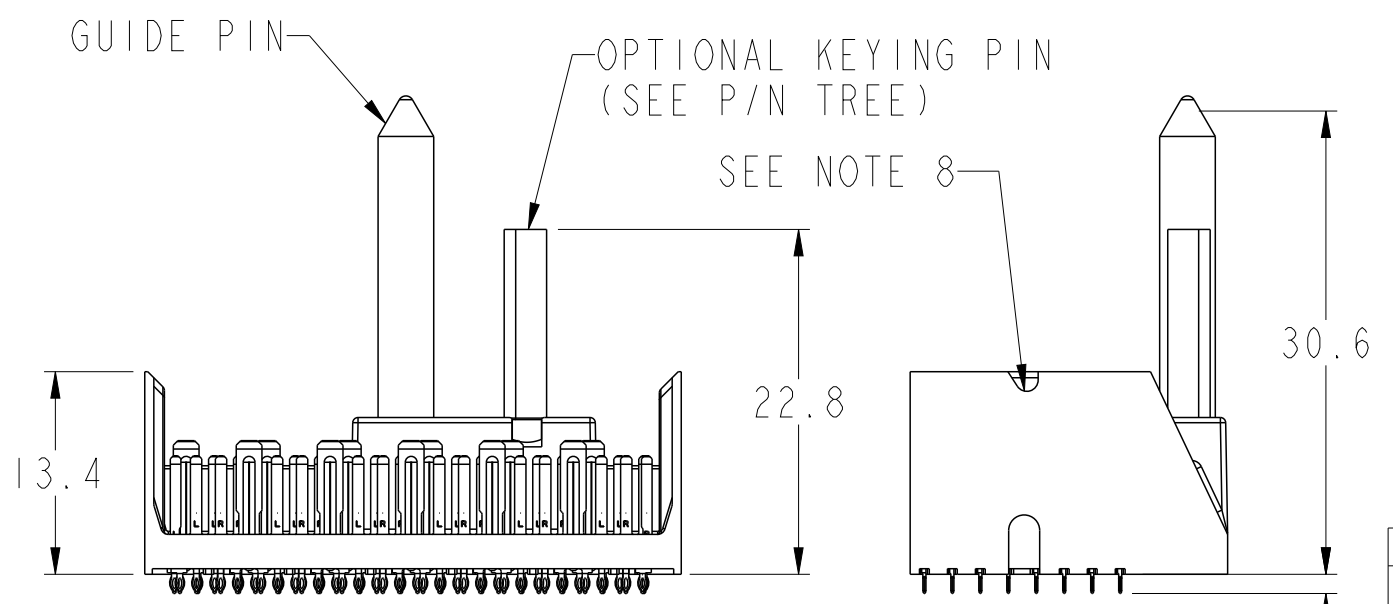
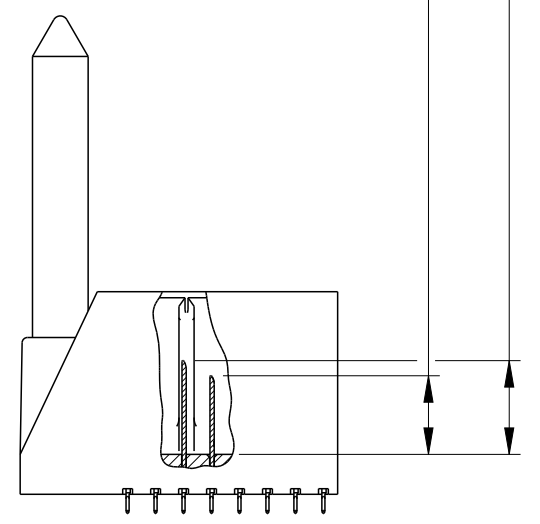


SEE NOTE 5

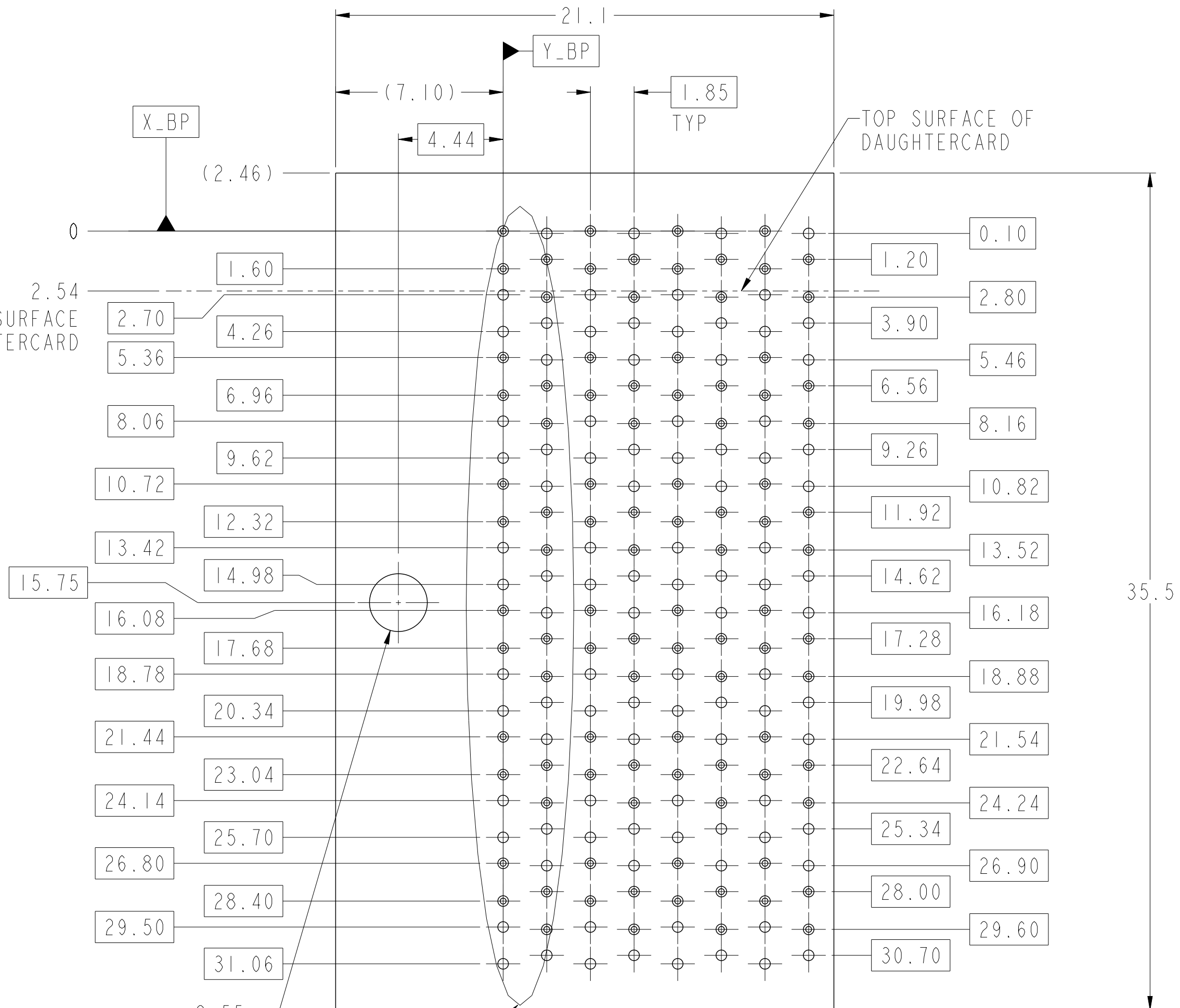


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12

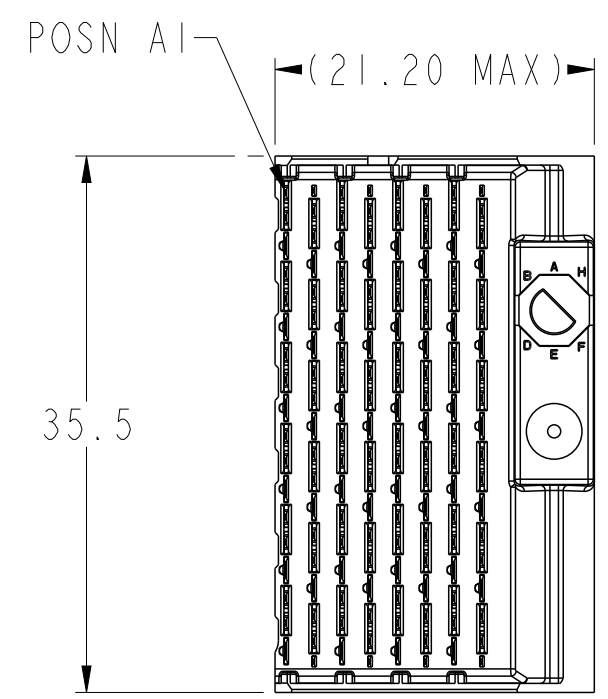
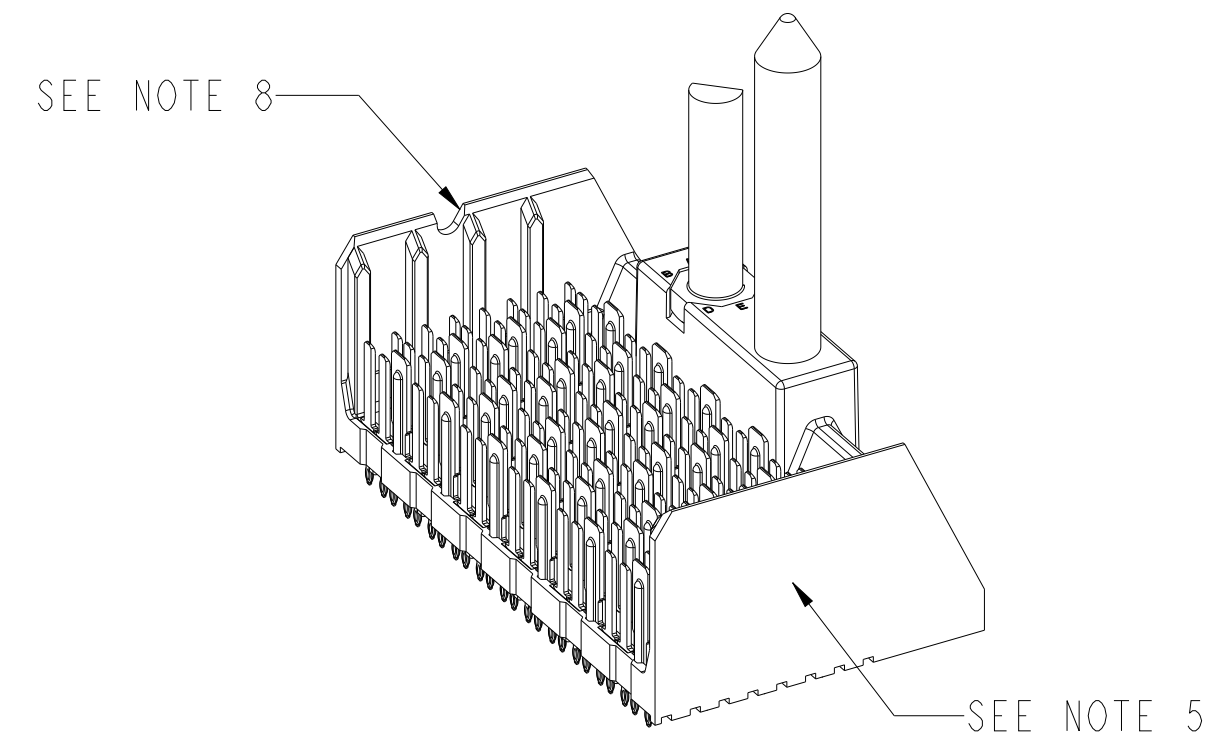


0.10	X_BP	Y_BP
------	------	------

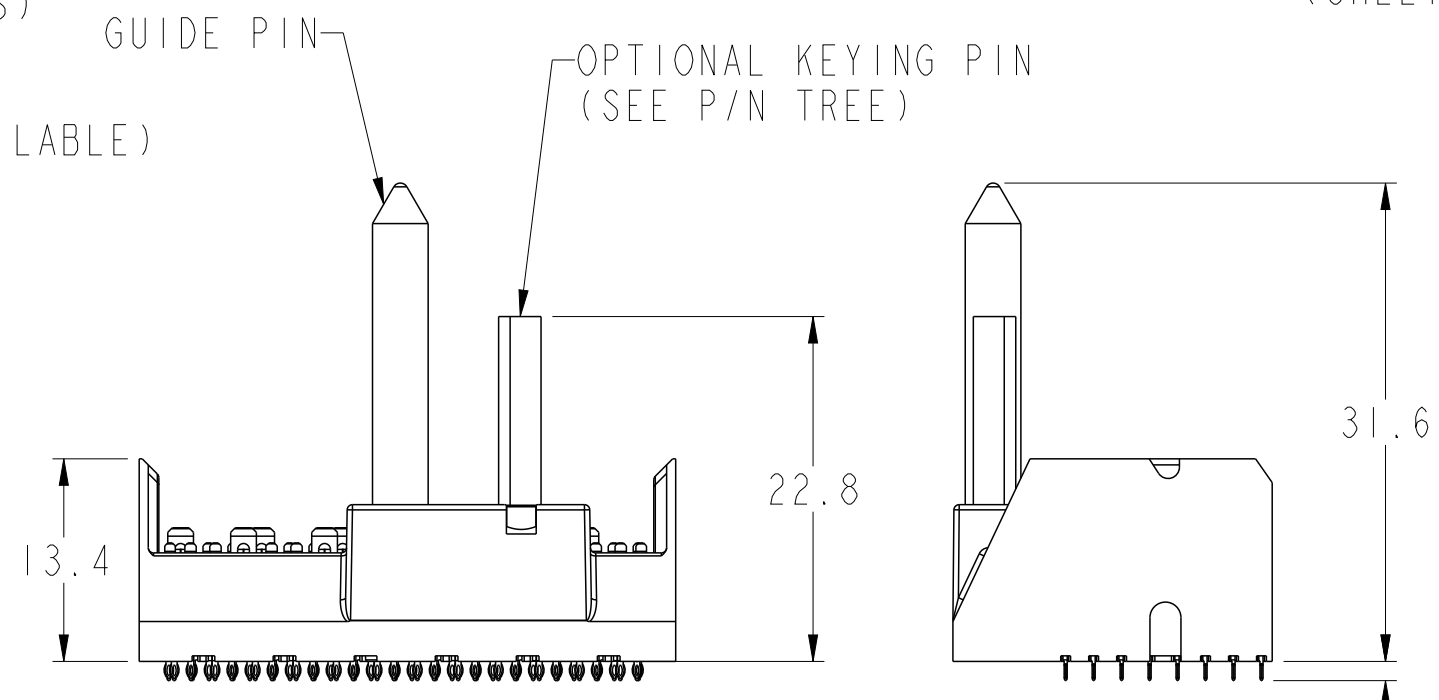
SEE NOTE 11 & TABLE 1

spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/24	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/06	chr	Heaven Cen	ecm 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	E
surface	linear	0.X	±0.2	0.XX	±0.10	0.XXX	±0.050	cat. no.	SEE P/N TREE	Product - Customer Drw
ASME Y14.5	angular	0°	±°					sheet 3 of 8		

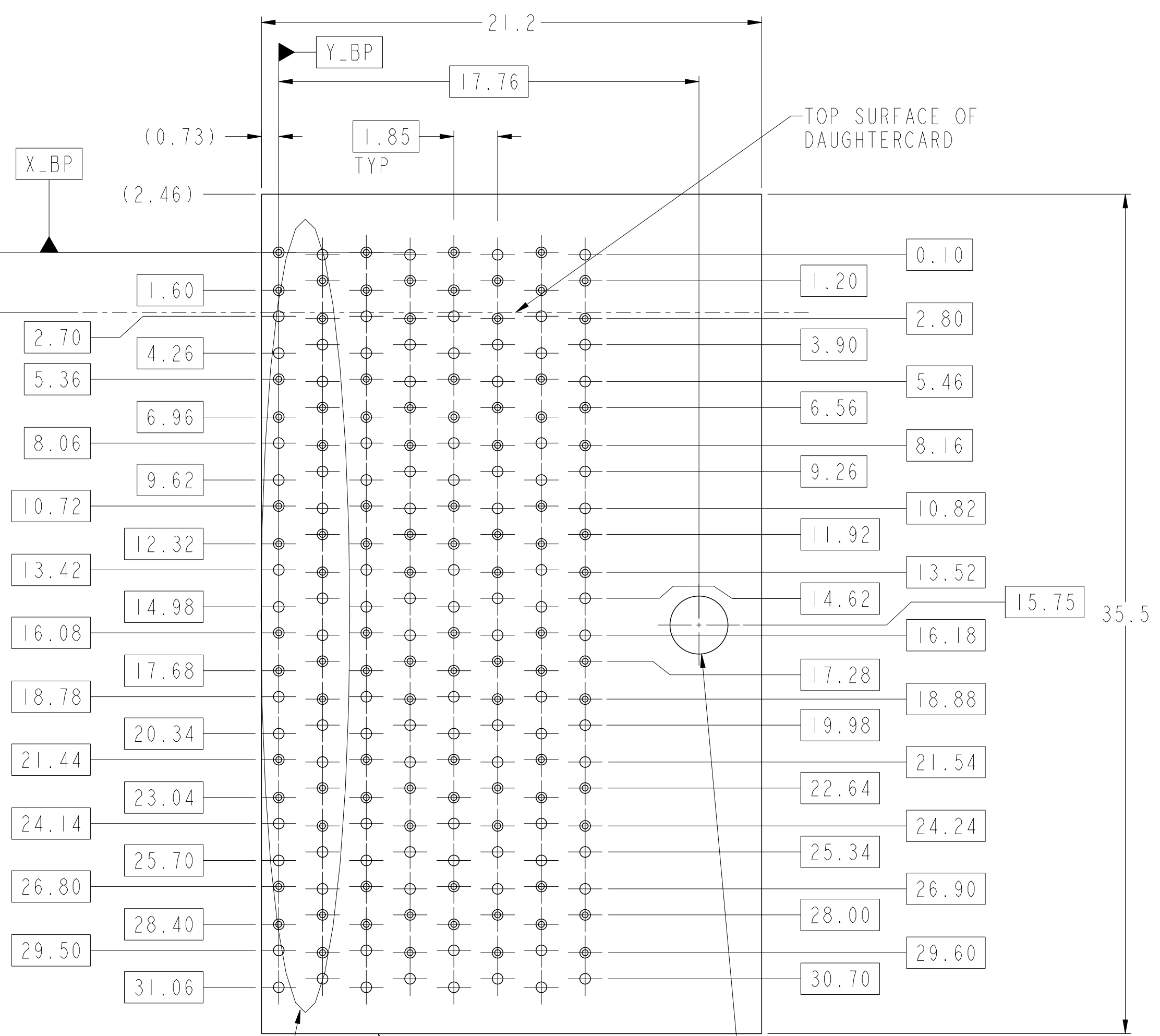
RIGHT POLARIZING/GUIDE MODULE



- 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)



2.54
TO TOP SURFACE
OF DAUGHTERCARD

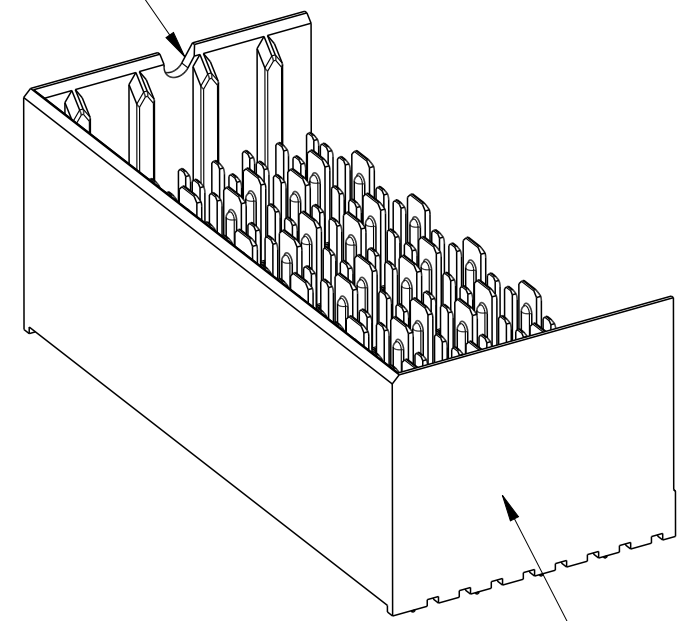


Ø 2.55
Ø 2.35
Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

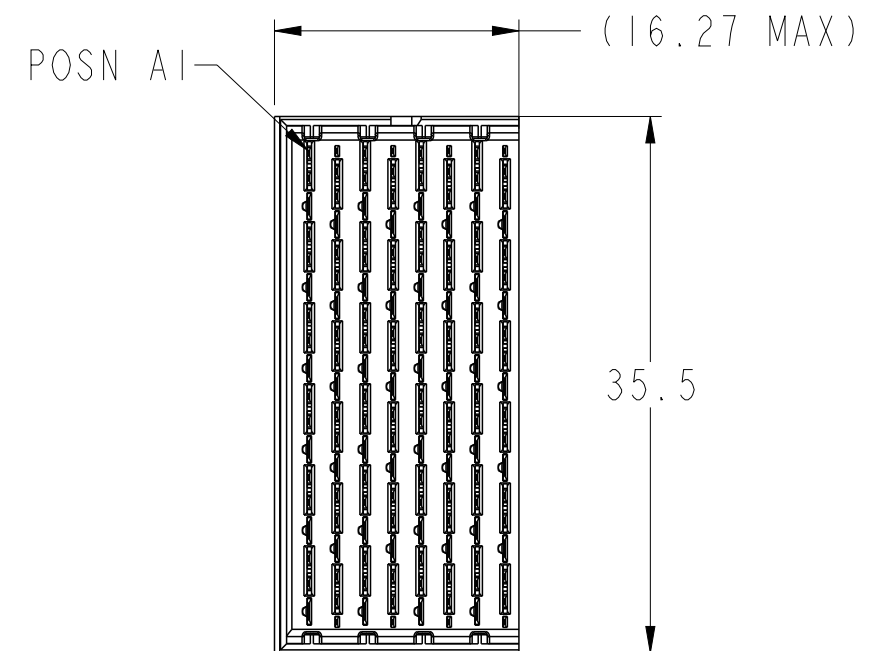
spec ref		SEE NOTES		dr	Kok-Hoe Lee	2010/06/24	projection 	MM 	size	A2	scale	3:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/06			ecn no	ELX-DG-24191-1				
ASME Y14.5				chr	Heaven Cen	2016/06/08			rel level	Released				
				appr	Pei-Ming Zheng	2016/06/15	product family		XCede					
surface		linear 	0.X	±0.2	Amphenol FCI	time	MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 6-PAIR			dwg no	10104999		rev	E
			0.XX	±0.10										
			0.XXX	±0.050										
ASME Y14.5		angular	0°	±°			cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 4 of 8	

LEFT WALL MODULE

SEE NOTE 8



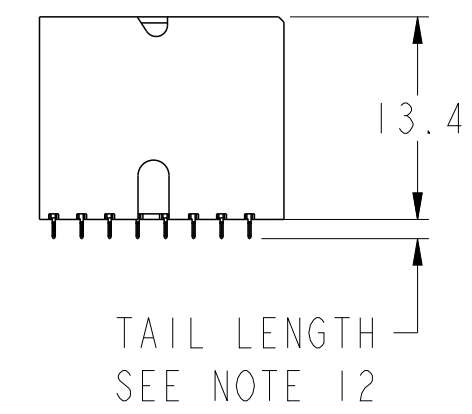
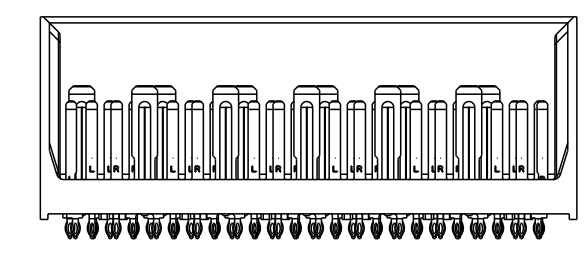
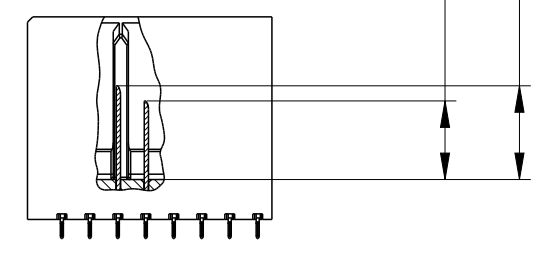
SEE NOTE 5



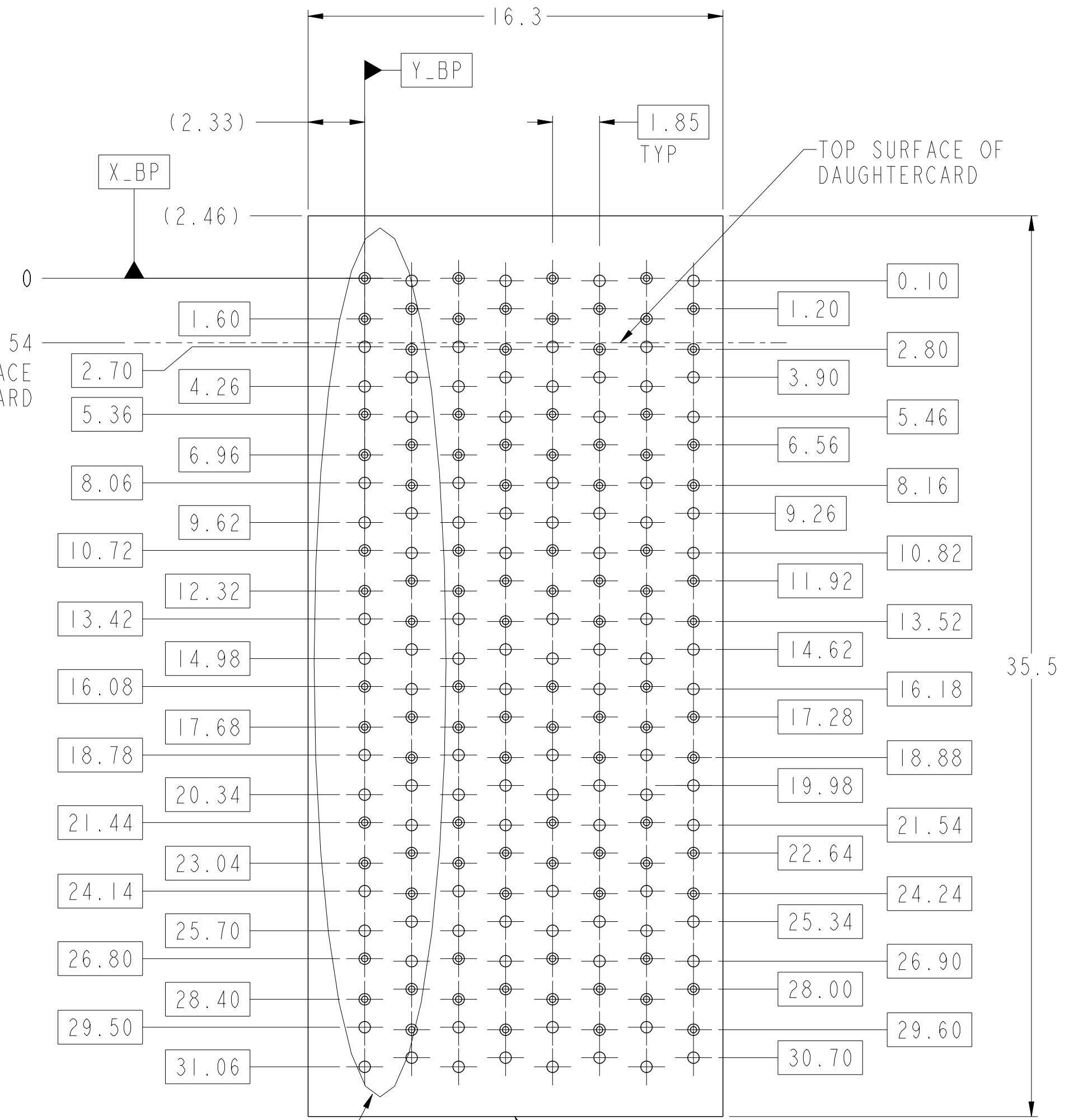
SCALE 2:1

- 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)



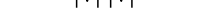
TO TOP SURFACE OF DAUGHTERCARD



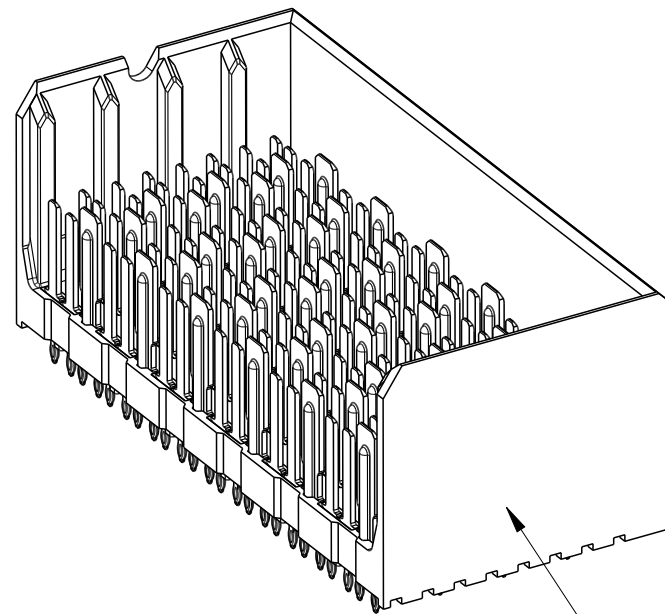
SEE DETAIL A (SHEET 8)

NOMINAL MODULE OUTLINE

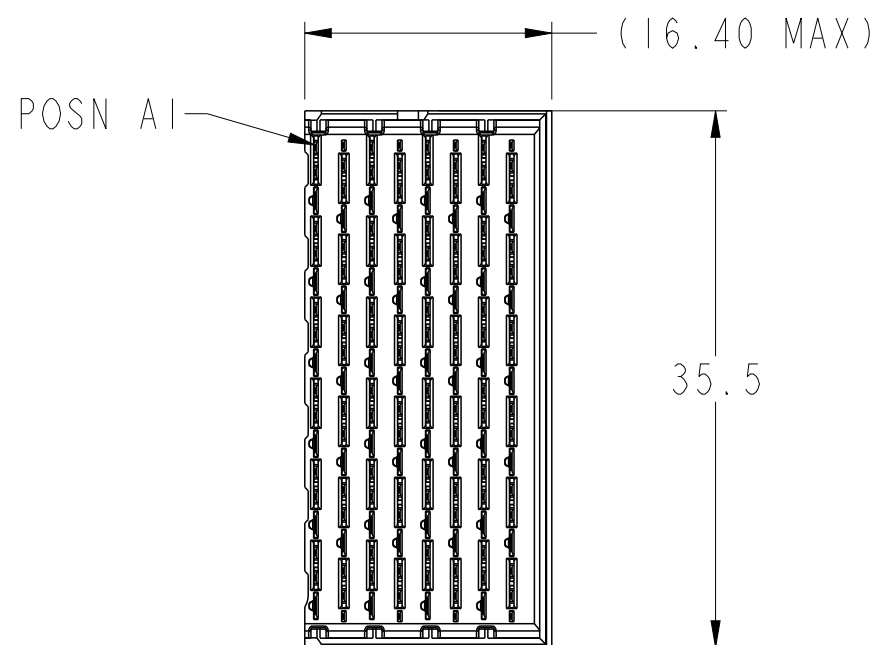
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref		SEE NOTES		dr	Kok-Hoe Lee	2010/06/24	projection 	MM 	size	A2	scale	3:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/06			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 VERTICAL HEADER, 8-COLUMN, 6-PAIR			dwg no	10104999		rev	E
			0.XX	±0.10										
ASME Y14.5			0.XXX	±0.050										
		angular	0°	±°			cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 5 of 8	

RIGHT WALL MODULE



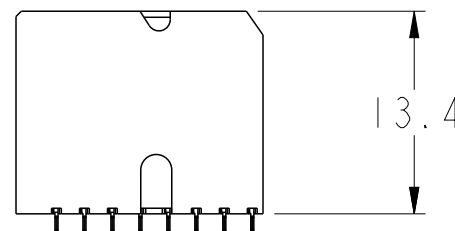
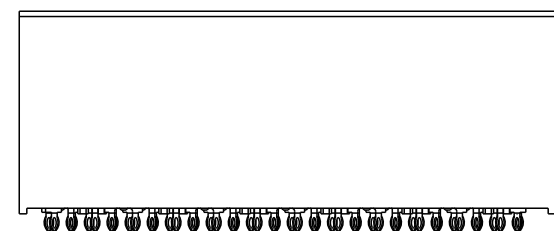
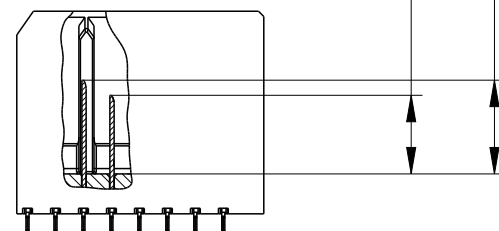
SEE NOTE 5



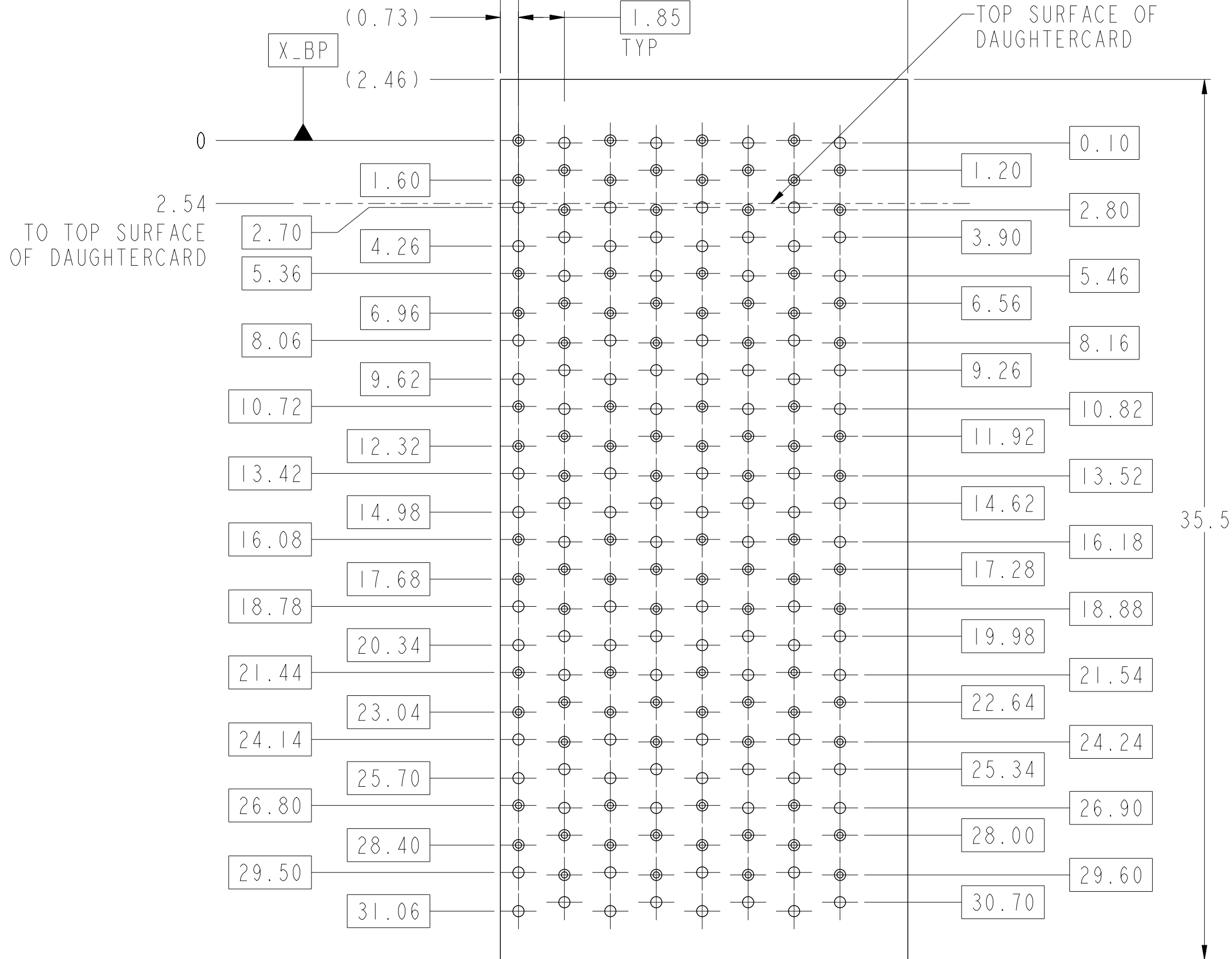
SCALE 2:1

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



NOMINAL MODULE OUTLINE

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref	SEE NOTES			dr	Kok-Hoe Lee	2010/06/24			size	A2	scale	3:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Michael Song	2016/06/06			ecn no	ELX-DG-24191-1	rel level	Released		
ASME Y14.5				chr	Heaven Cen	2016/06/08								
				appr	Pei-Ming Zheng	2016/06/15	product family			XCede				
surface		linear	0.X	±0.2		title	MODULE ASSEMBLY			dwg no	10104999		rev	E
			0.XX	±0.10										
			0.XXX	±0.050										
ASME Y14.5		angular	0°	±°			cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 6 of 8		

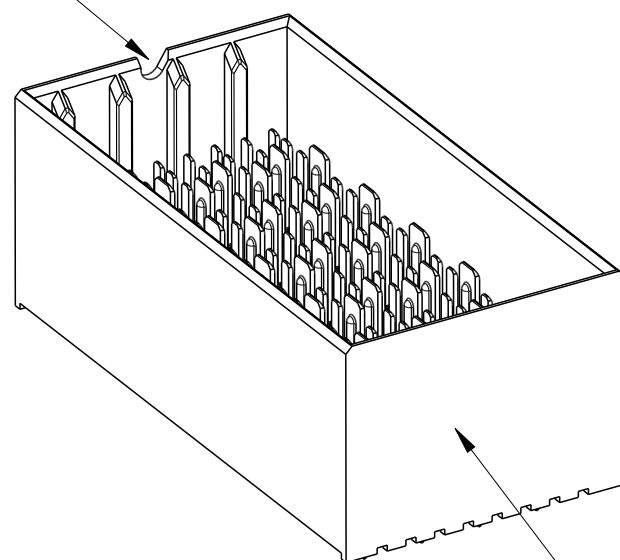
PDS: Rev :E

STATUS:Released

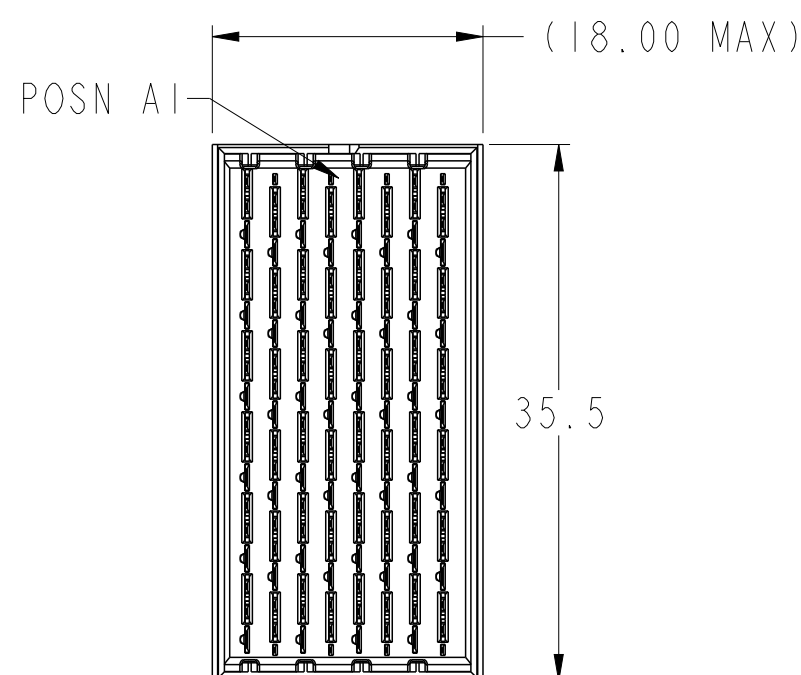
Printed: Jun 15, 2016

FOUR WALL MODULE

SEE NOTE 8

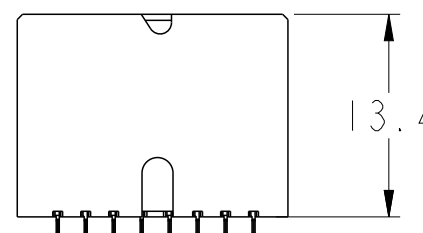
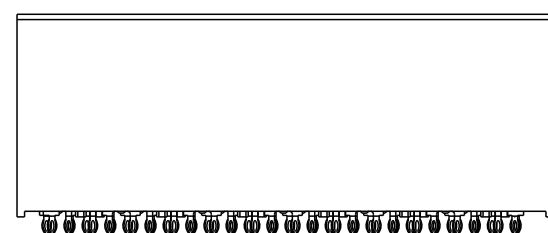
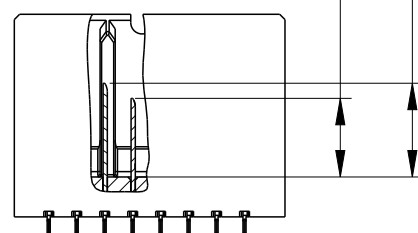


SEE NOTE 5

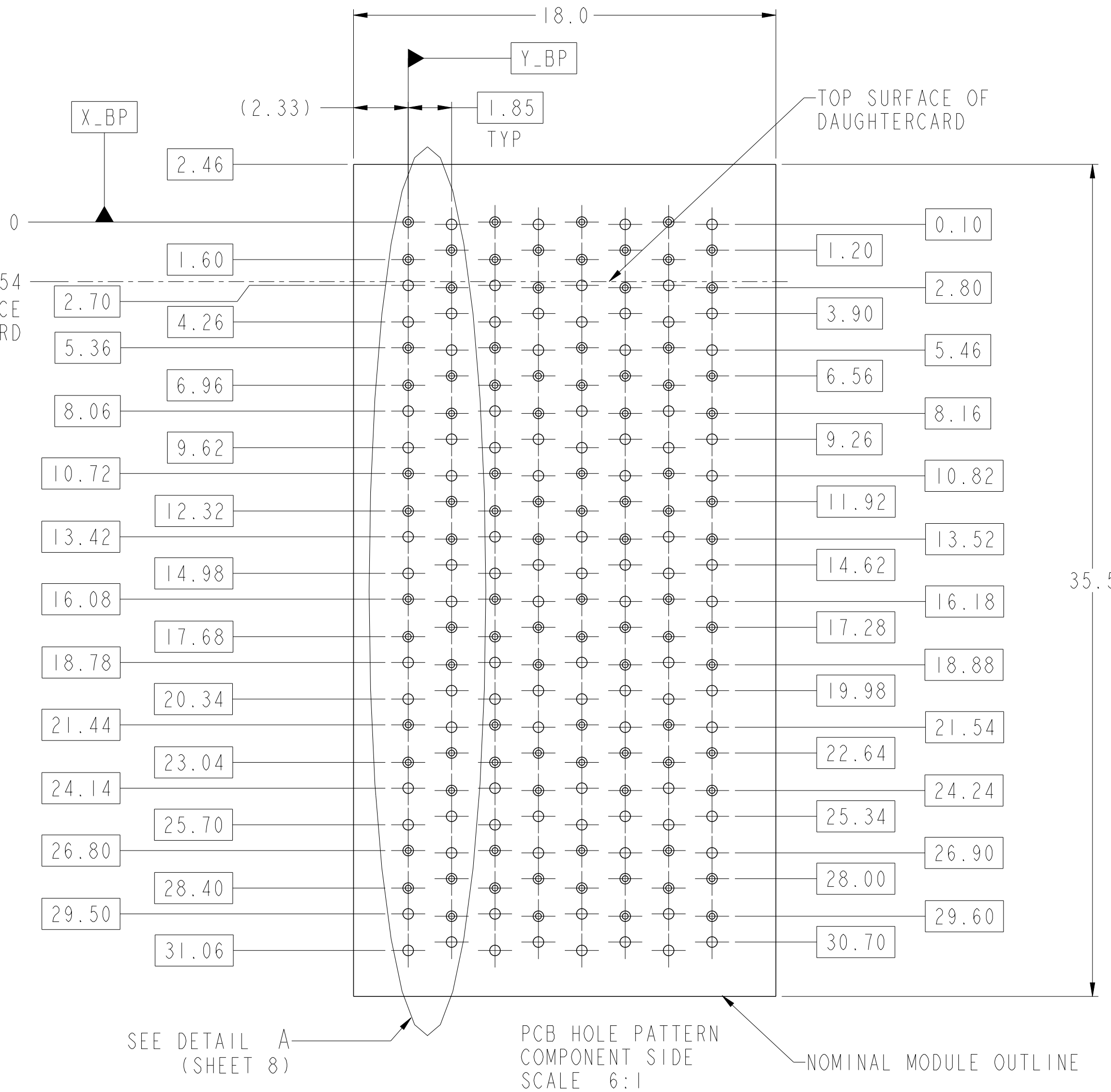


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12



spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/24	projection		MM	size	scale
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/06	ecp no			ELX-DG-24191-1	A2
ASME Y14.5			chr	Heaven Cen	2016/06/08	product family	-	rel level	Released	
			appr	Pei-Ming Zheng	2016/06/15					
surface		linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY	dwg no	10104999	rev
			0.XX	±0.10						
ASME Y14.5		0.XXX	±0.050							
		angular	0°	±°						
					cat. no.	SEE P/N TREE	Product - Customer Drw		sheet 7 of 8	

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 Ø0.55[0.0217"]COMPLIANT PIN DRILL
TAIL LENGTH=1.5mm FOR Ø0.45[0.0177"]COMPLIANT PIN DRILL

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

	Ø0.10	X_BP	Y_X_BP
--	-------	------	--------

Y_BP

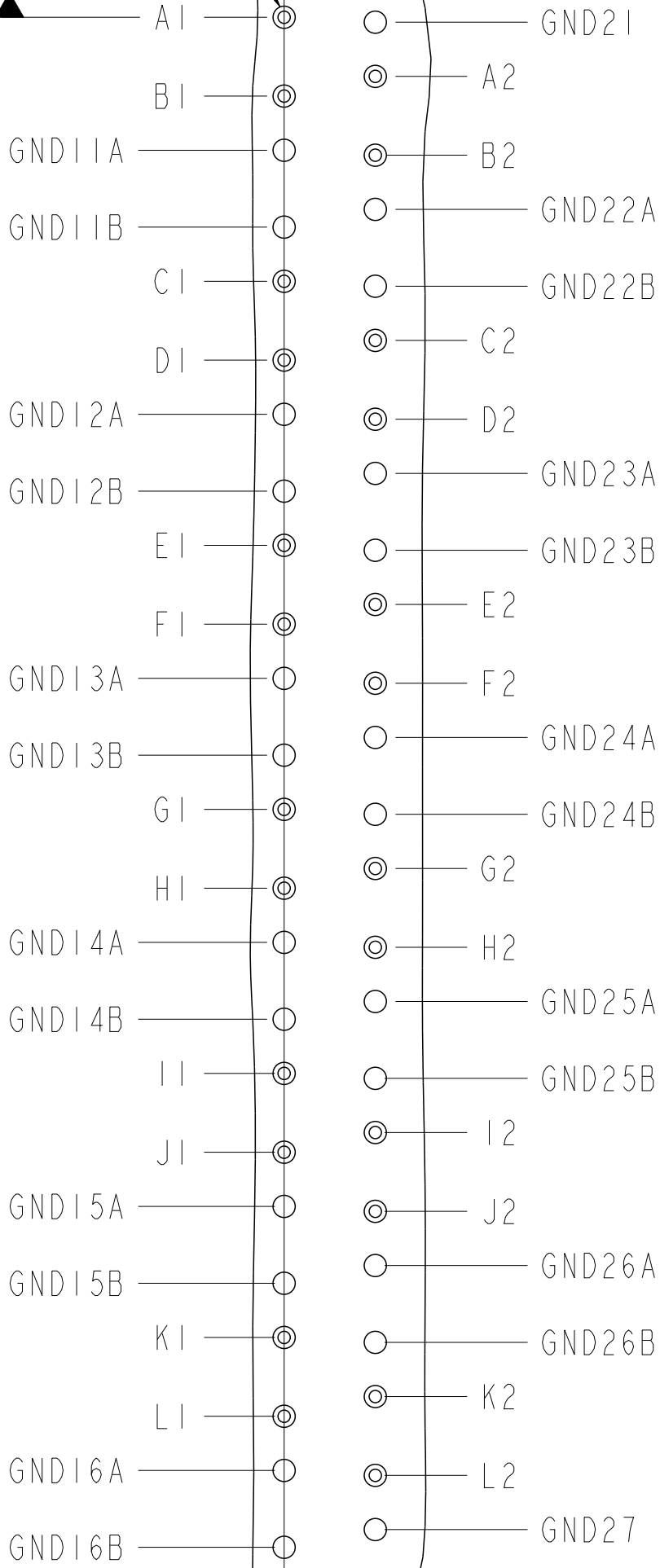


TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

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		2010/06/24		projection		MM		size		A2		scale		4:1									
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/06						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		-													
surface		linear				title		MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 6-PAIR						dwg no		10104999						rev		E					
																										0.X		±0.2	
																										0.XX		±0.10	
ASME Y14.5		angular						0.XXX		±0.050																			

Mouser Electronics

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