

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

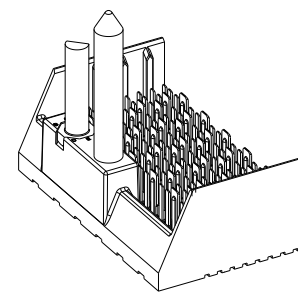
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

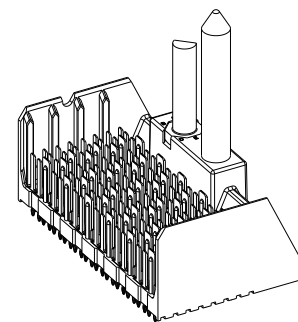
S

T

U

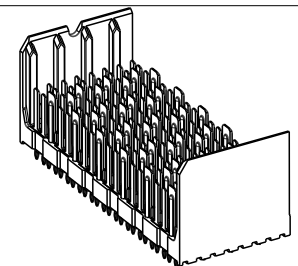
V

W



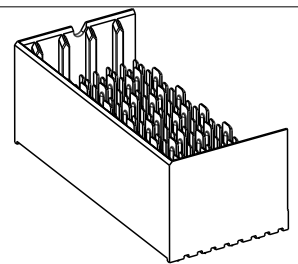
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



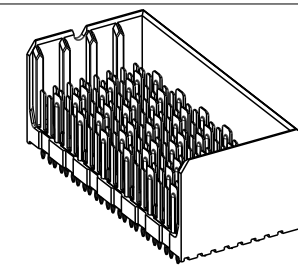
LEFT WALL
MODULE
(SEE SHEET 5)

L



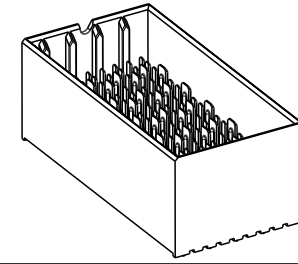
RIGHT WALL
MODULE
(SEE SHEET 6)

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

tolerance std

TOLERANCES UNLESS
OTHERWISE SPECIFIED

ASME Y14.5

surface

ASME Y14.5

linear

0.X

±0.2

0.XX

±0.10

0.XXX

±0.050

angular

0°

±°

dr

Kok-Hoe Lee

2010/06/24

eng

Michael Song

2016/06/06

chr

Heaven Cen

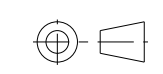
2016/06/08

appr

Pei-Ming Zheng

2016/06/15

projection



MM

size

A2

scale

4:1

ecn no

ELX-DG-24191-1

product family

XCede

rel level

Released

Amphenol
FCi

title

MODULE ASSEMBLY

cat. no.

SEE P/N TREE

Product - Customer Drw

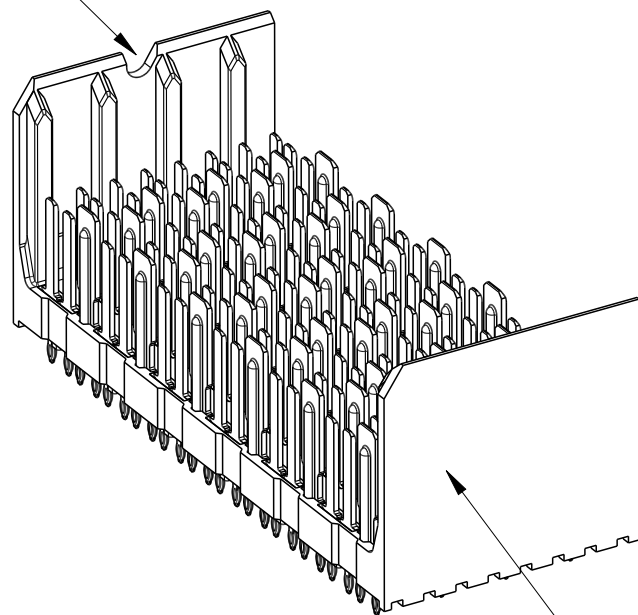
sheet 1 of 8

rev

E

OPEN (2-WALL) MODULE

SEE NOTE 8



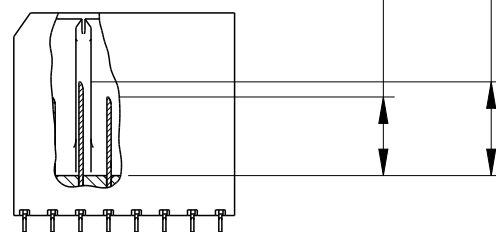
SEE NOTE 5

POSN A1 (14.75 MAX)

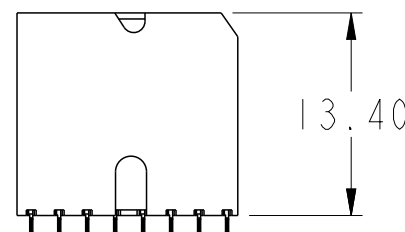
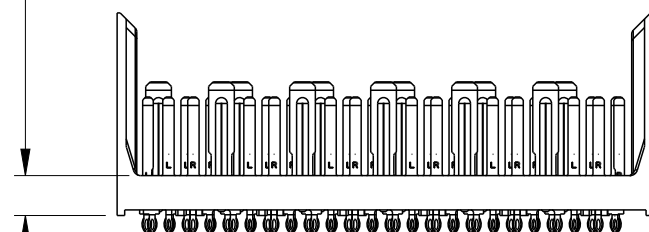
35.5

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)

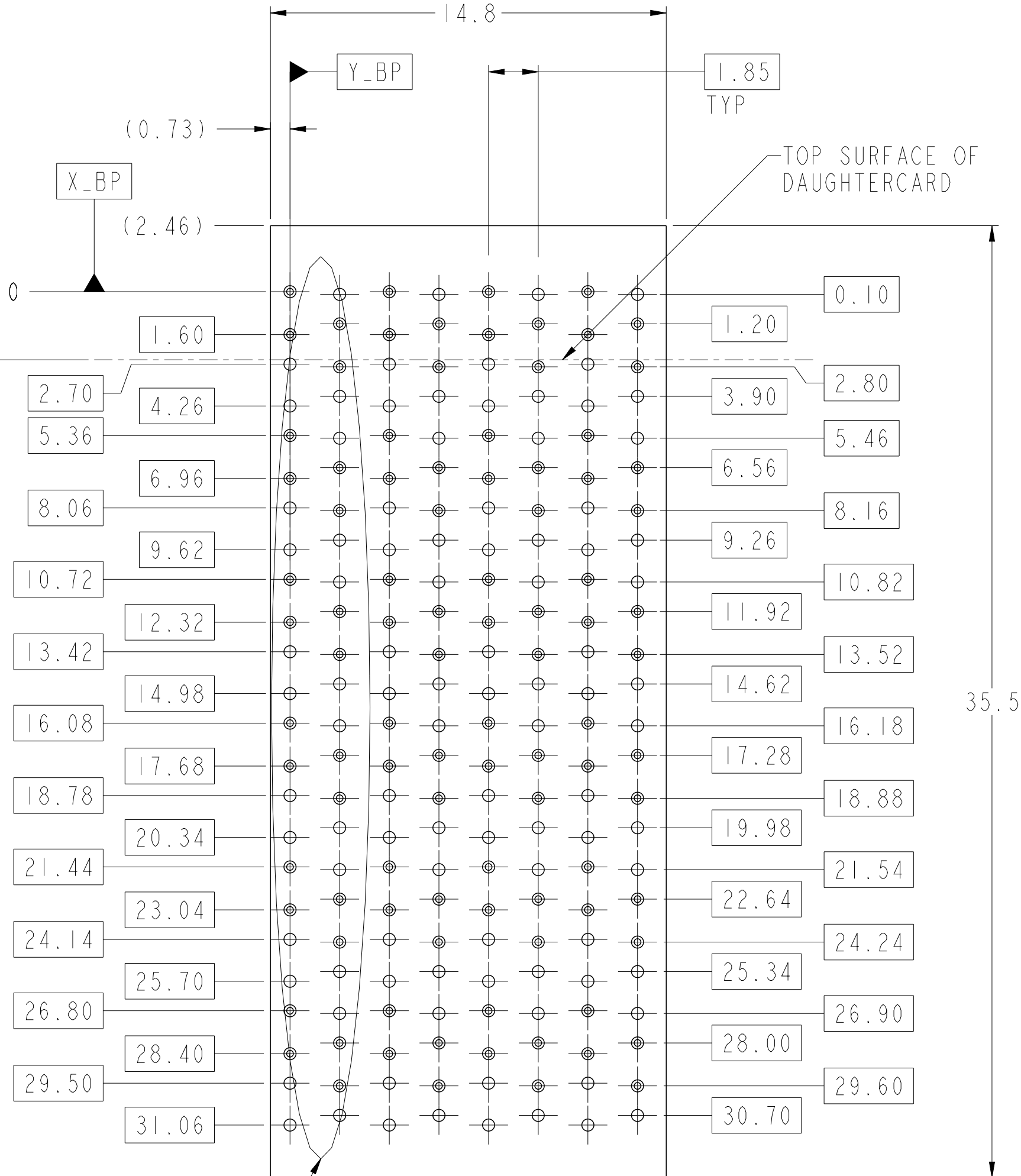


2.64±0.10 FROM STANDOFF SURFACE TO MATING SURFACE



TAIL LENGTH
SEE NOTE 12

2.54
TO TOP SURFACE
OF DAUGHTERCARD



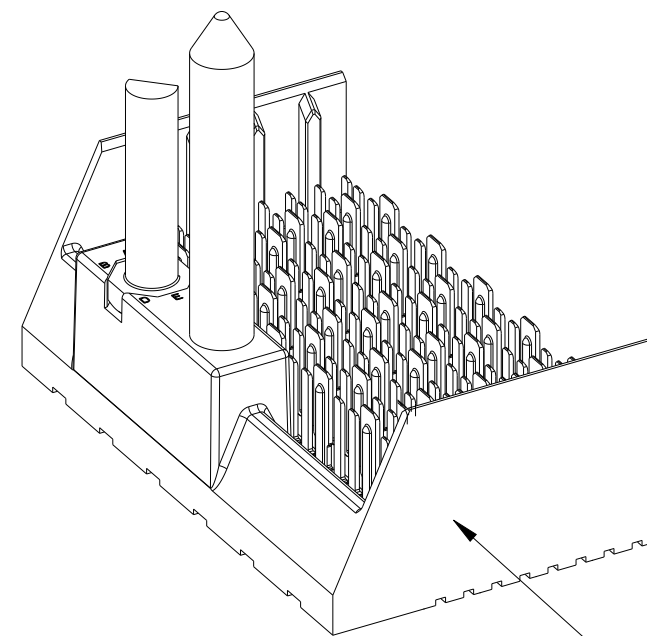
SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE

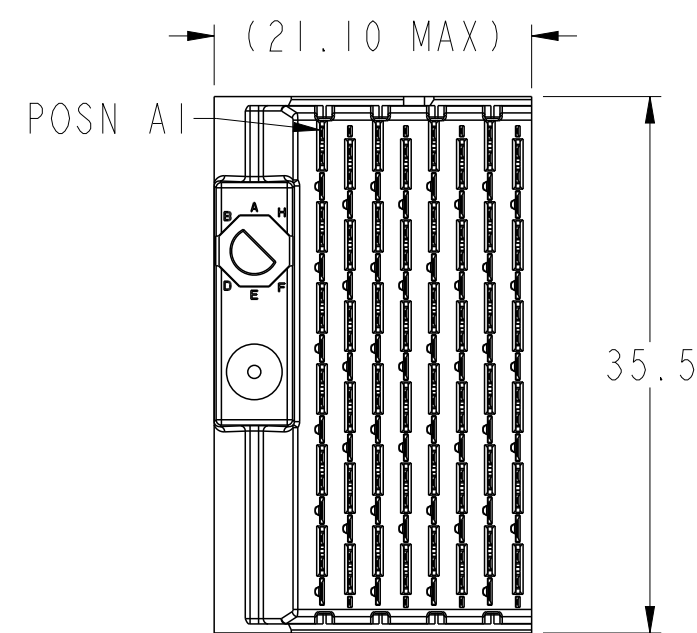
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/24		projection		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				title		MODULE ASSEMBLY										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 2 of 8							

LEFT POLARIZING/GUIDE MODULE

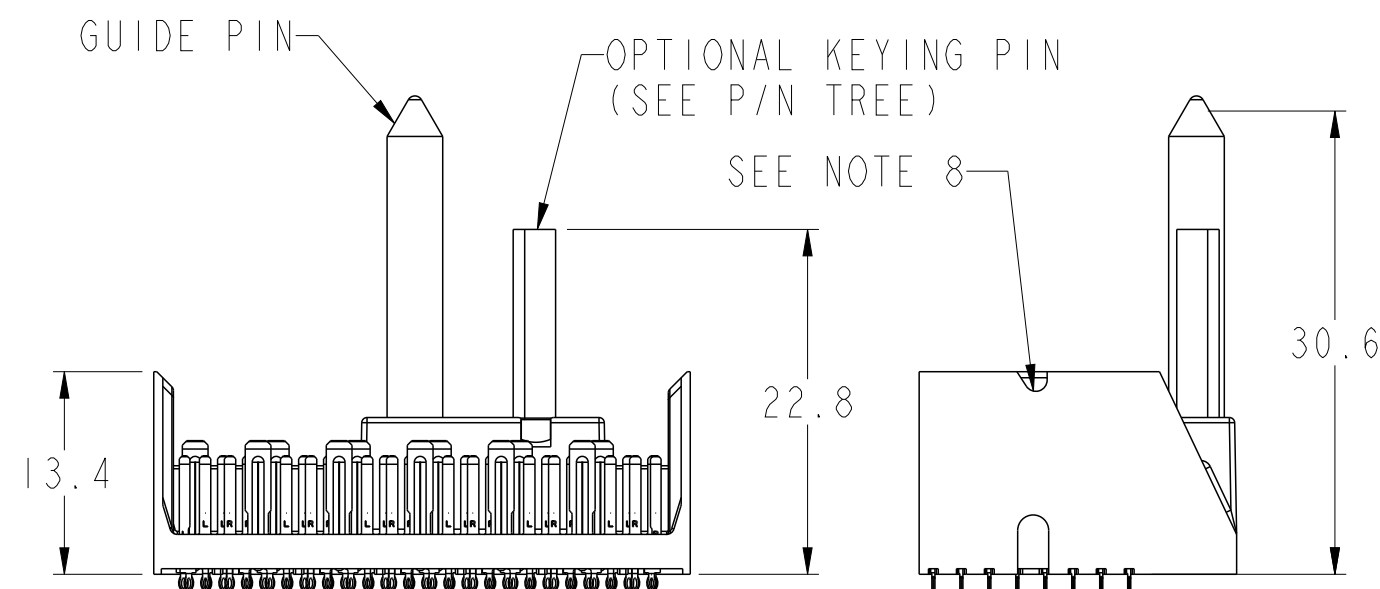
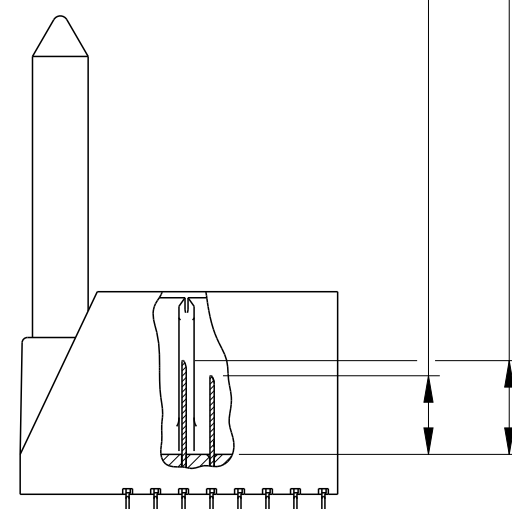


-SEE NOTE 5

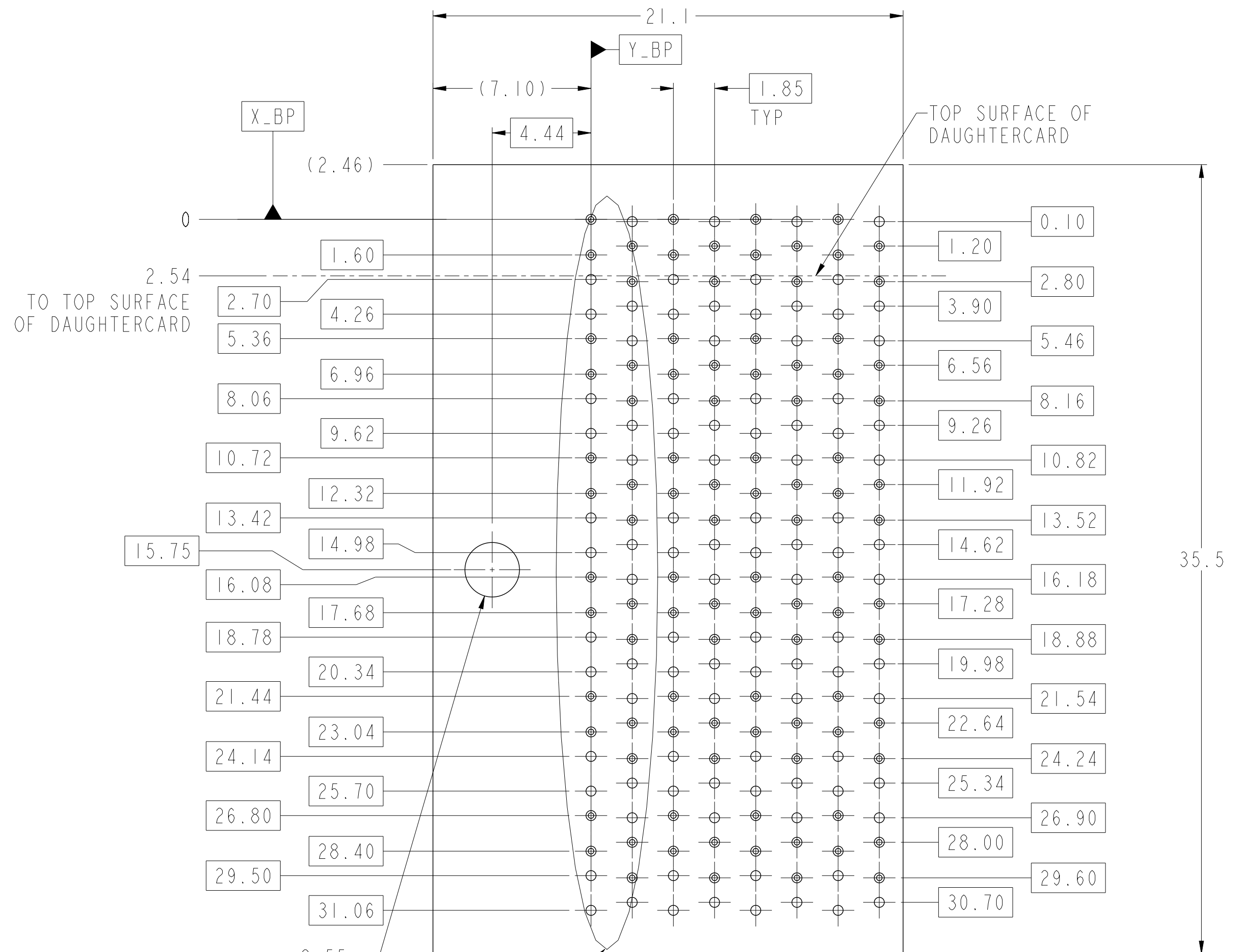


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12



SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

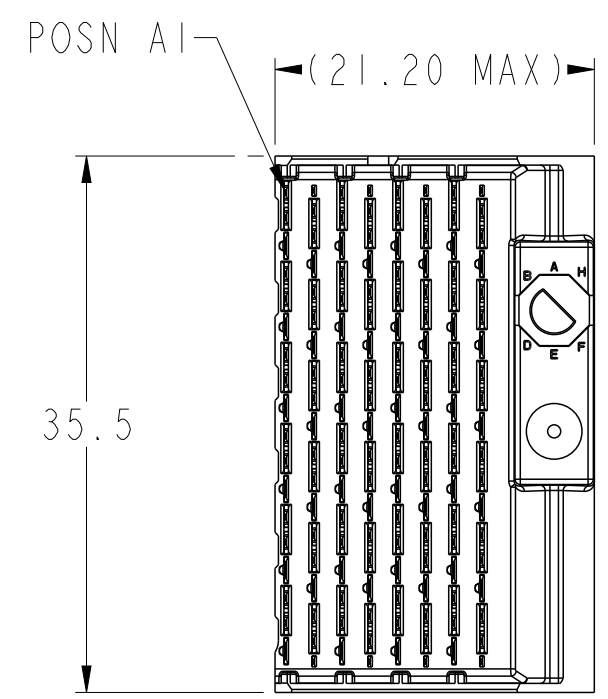
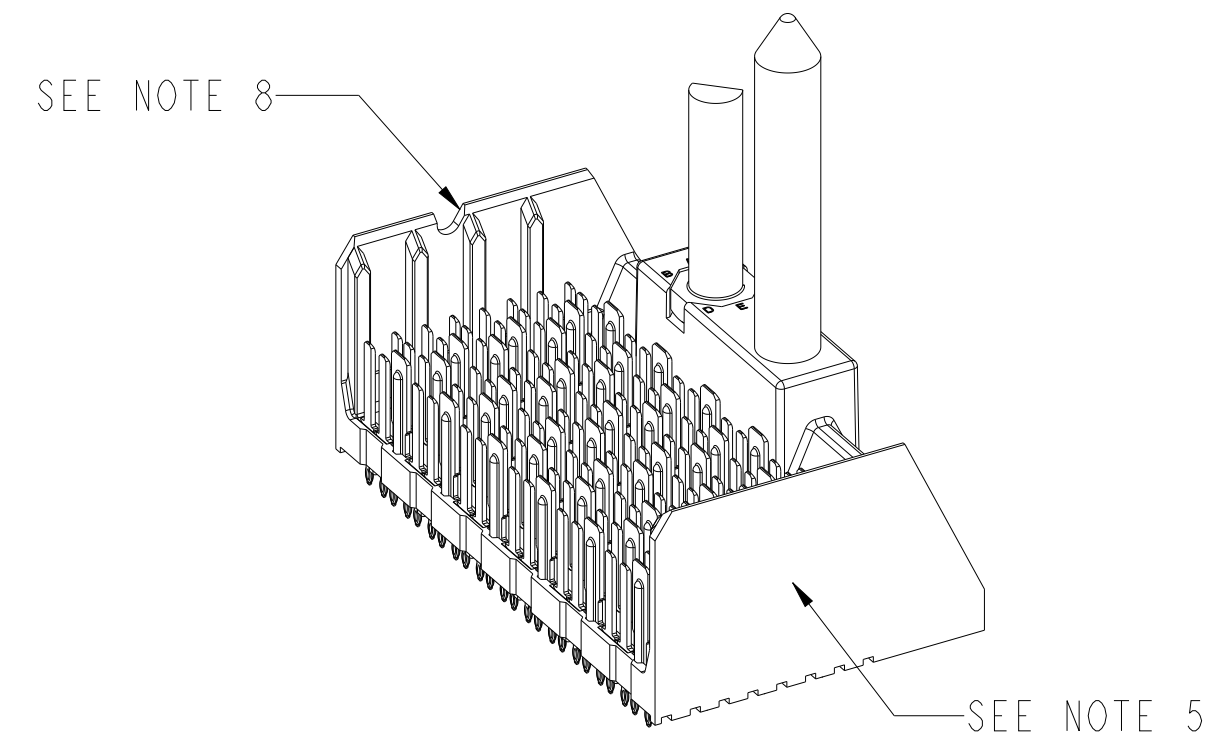
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2016/06/06				ecn no		ELX-DG-24191-1		rel level		Released					
ASME Y14.5				chr		Heaven Cen		2016/06/08				product family		XCede									
				appr		Pei-Ming Zheng		2016/06/15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

PDS: Rev :E

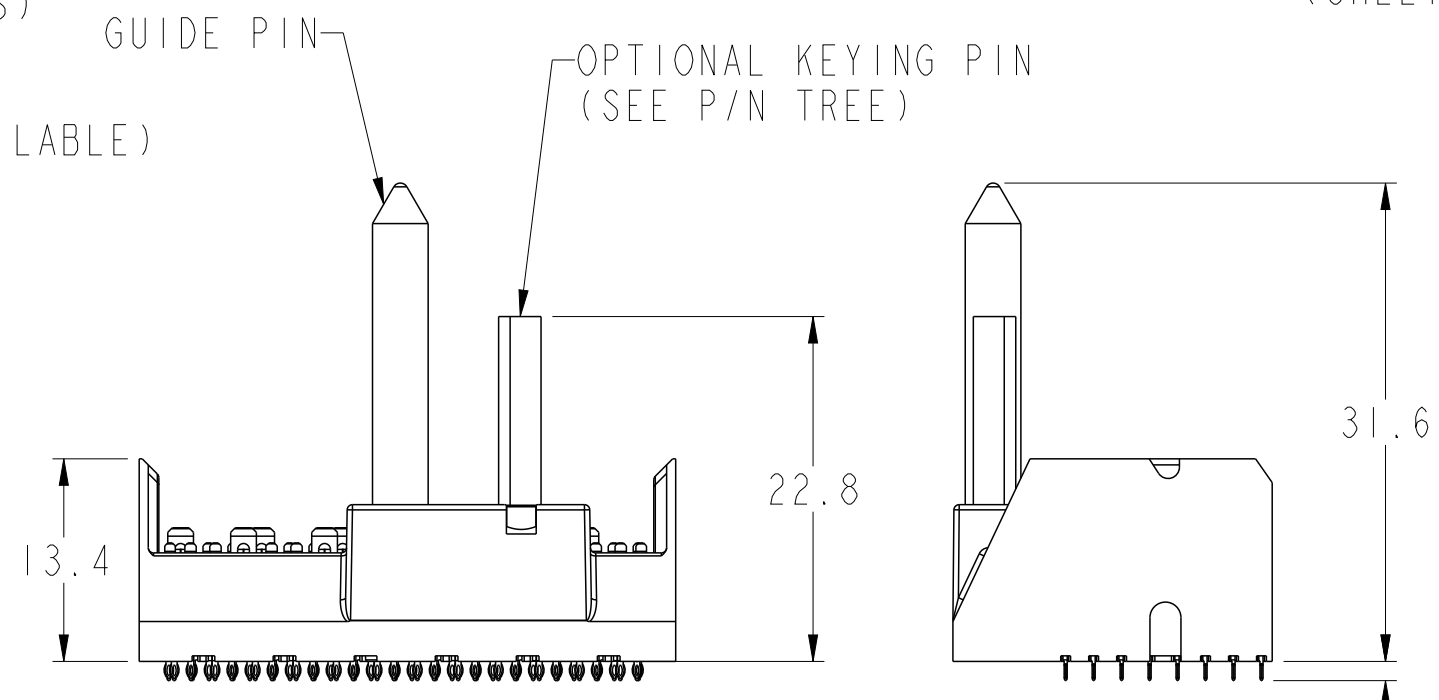
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Printed: Jun 15, 2016

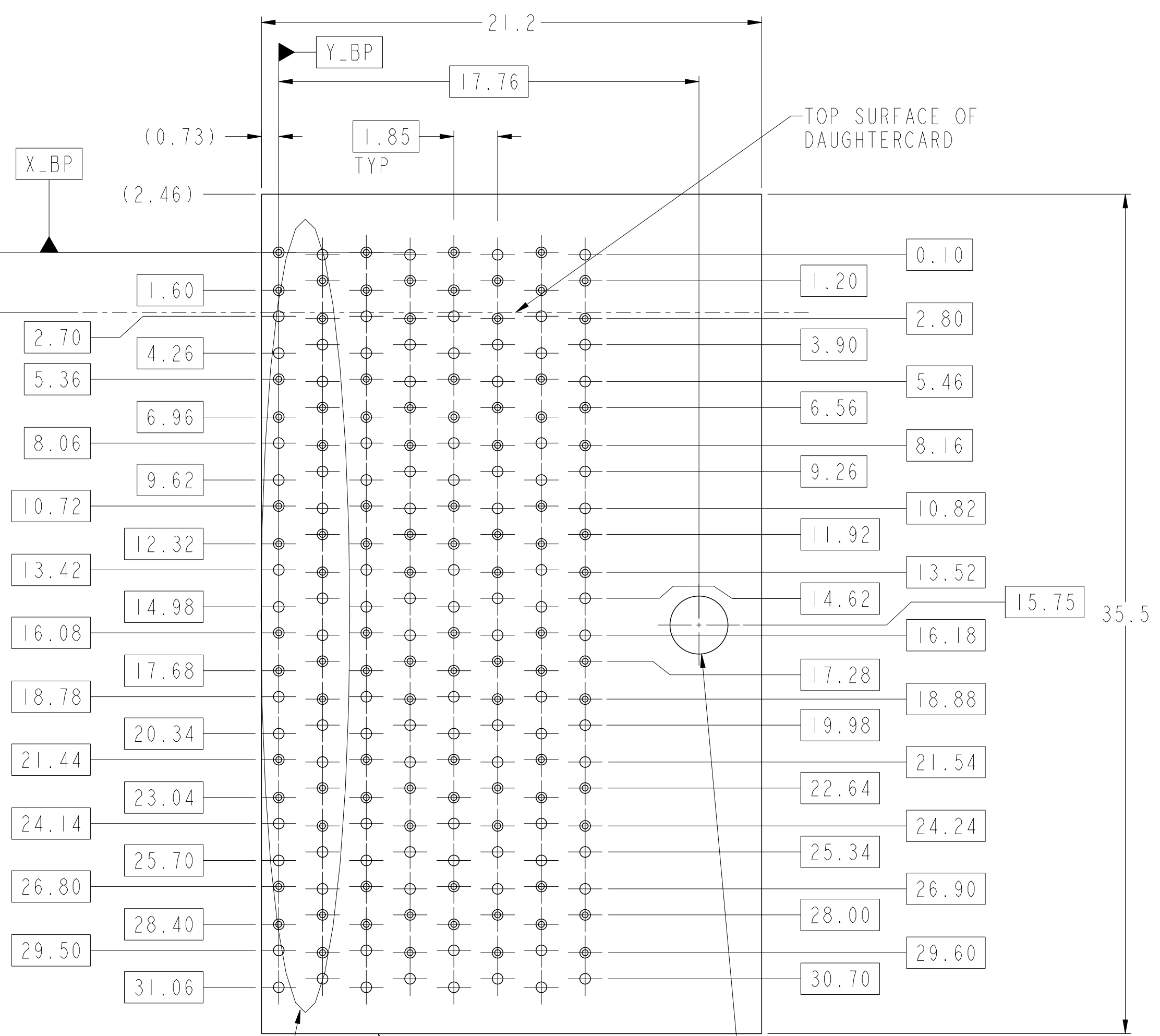
RIGHT POLARIZING/GUIDE MODULE



- 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

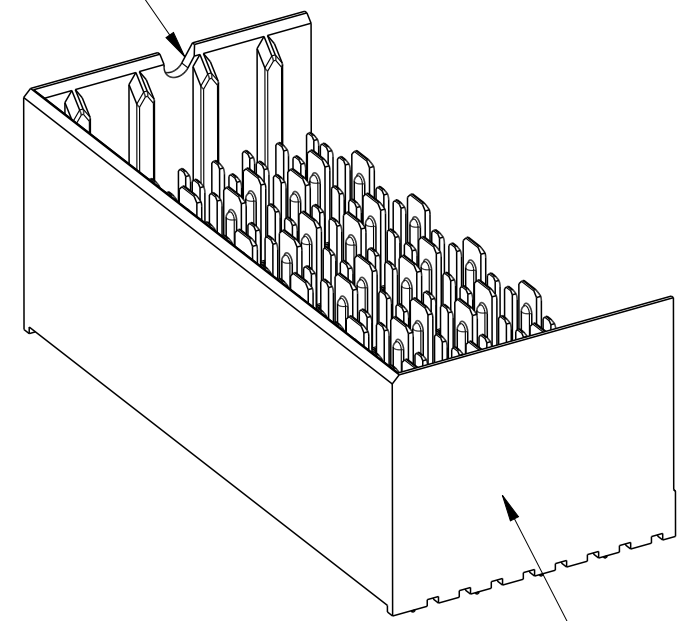


Ø 2.55
2.35
Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

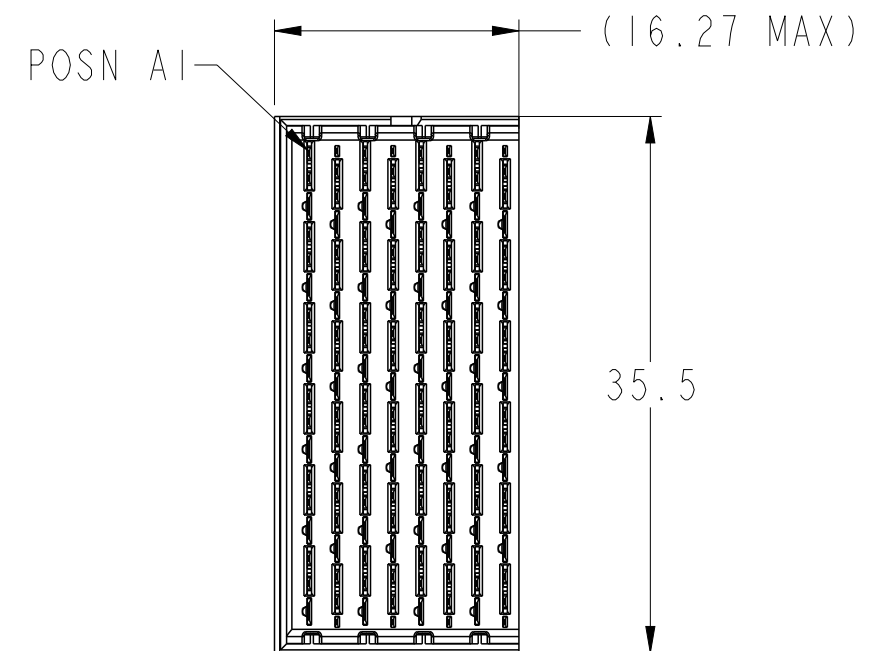
spec ref	SEE NOTES	dr	Kok-Hoe Lee	2010/06/24	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Michael Song	2016/06/06	chr	Heaven Cen	ecn no	ELX-DG-24191-1	rel level	Released
ASME Y14.5		app	Pei-Ming Zheng	2016/06/15	product family	XCede	rel level	Released	rev	E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

LEFT WALL MODULE

SEE NOTE 8



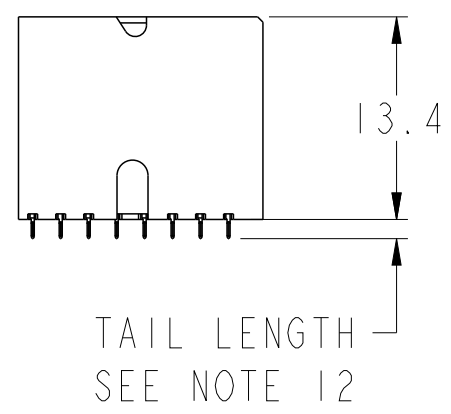
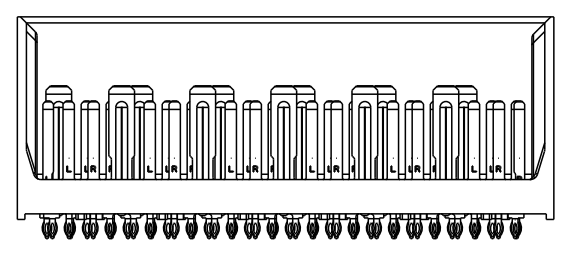
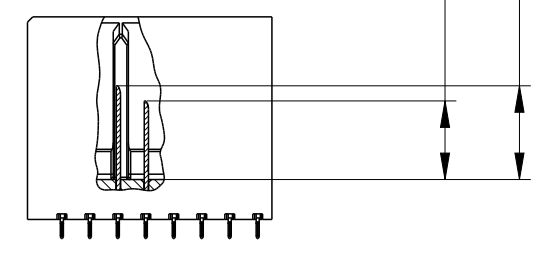
SEE NOTE 5



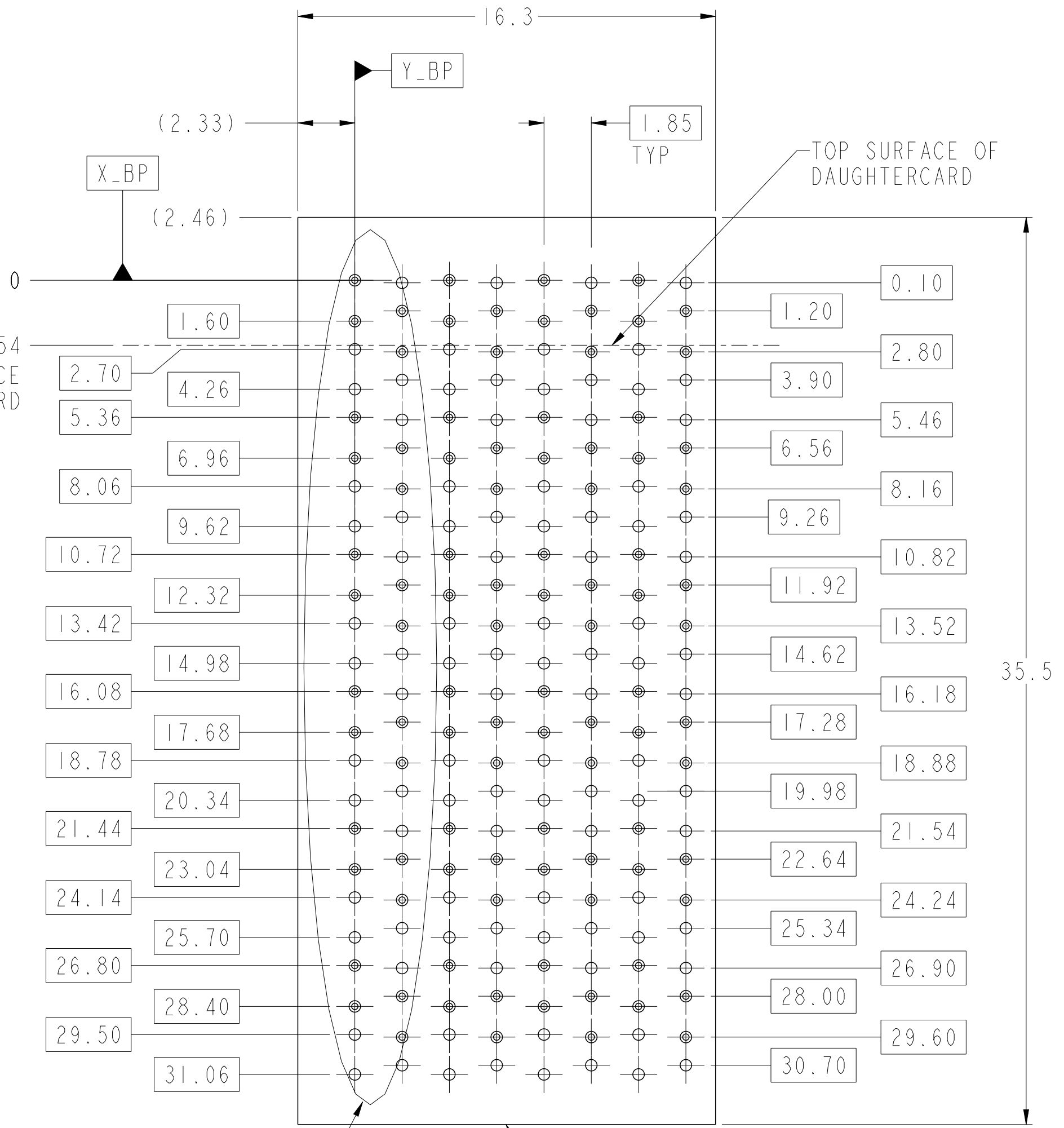
SCALE 2:1

- 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				title		MODULE ASSEMBLY										dwg no		10104999						rev		E									
		0.XX		±0.10		VERTICAL HEADER, 8-COLUMN, 6-PAIR																																			
		0.XXX		±0.050																																					
ASME Y14.5		angular		0°		±°						cat. no.				SEE P/N TREE				Product - Customer Drw				sheet 5 of 8																	

PDS: Rev :E

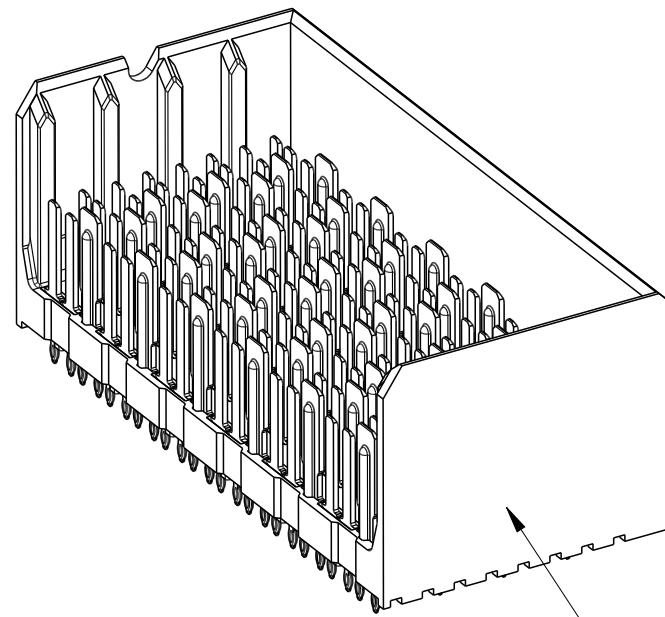
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Printed: Jun 15, 2016

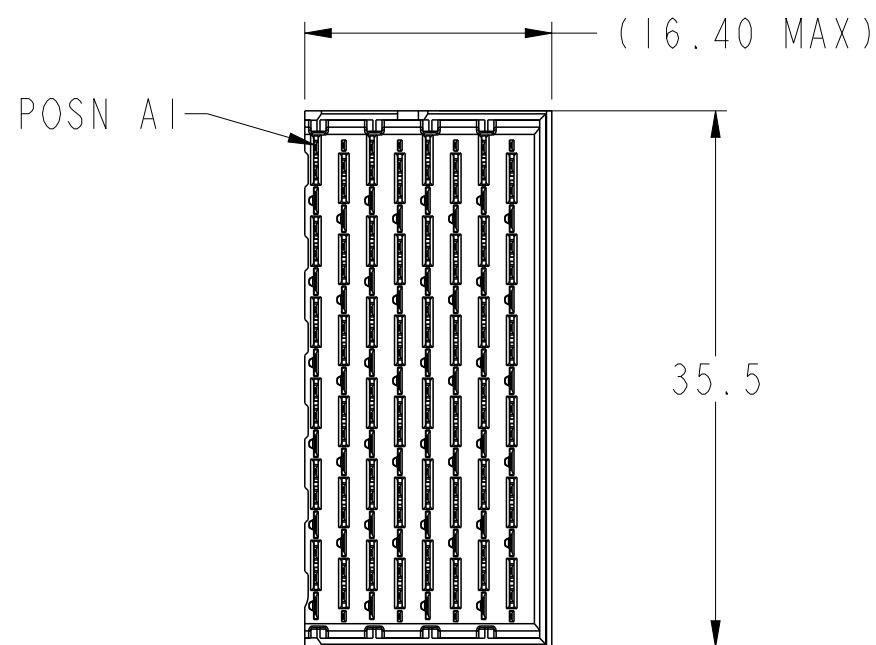
Amphenol FCI

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RIGHT WALL MODULE



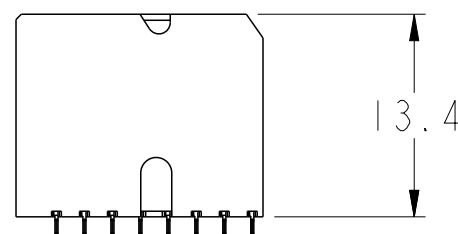
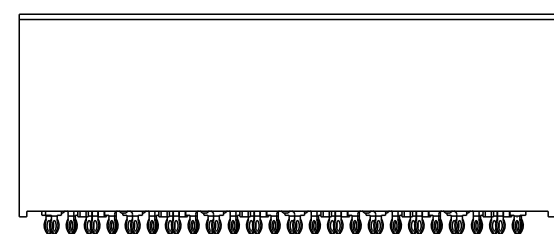
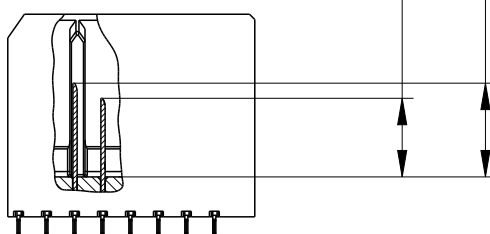
SEE NOTE 5



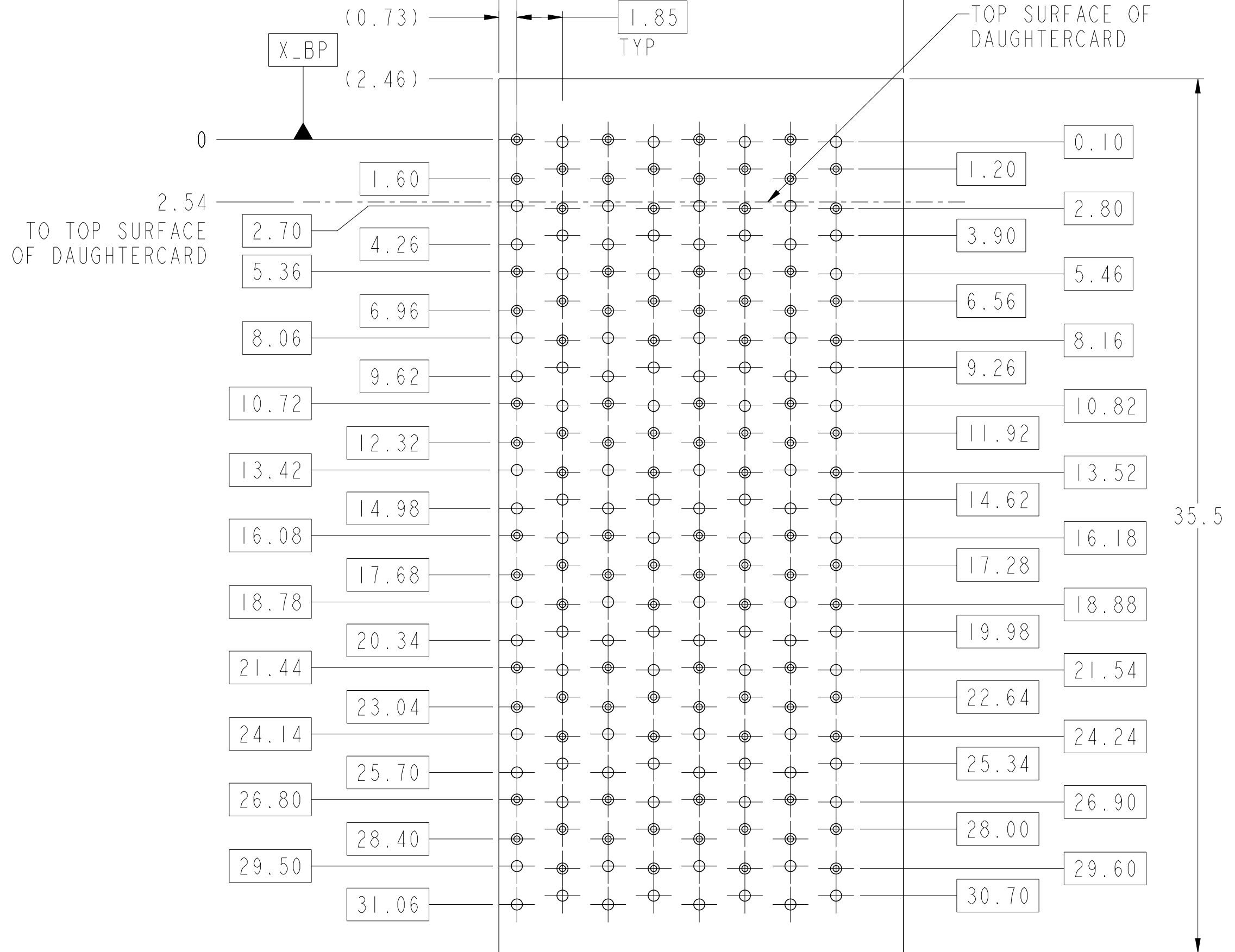
SCALE 2:1

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



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	ASME Y14.5	eng	Michael Song	2016/06/06	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	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°	±°							
Amphenol FCI					title	MODULE ASSEMBLY		dwg no	10104999	rev
						VERTICAL HEADER, 8-COLUMN, 6-PAIR				E
						SEE P/N TREE		Product - Customer Drw		sheet 6 of 8

PDS: Rev :E

STATUS:Released

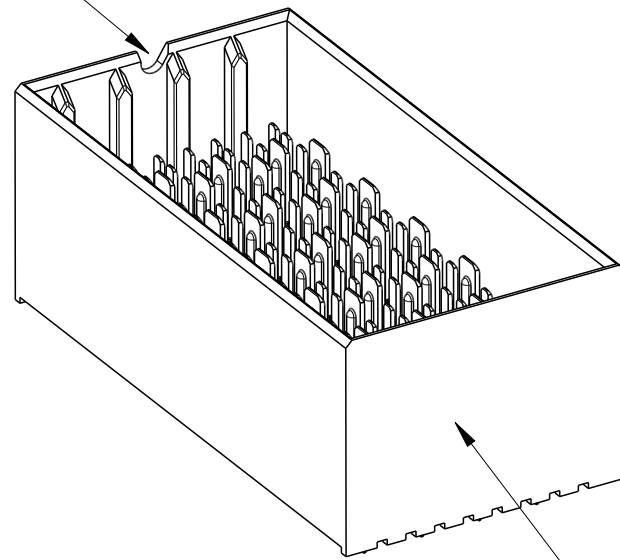
Printed: Jun 15, 2016

Amphenol FCI

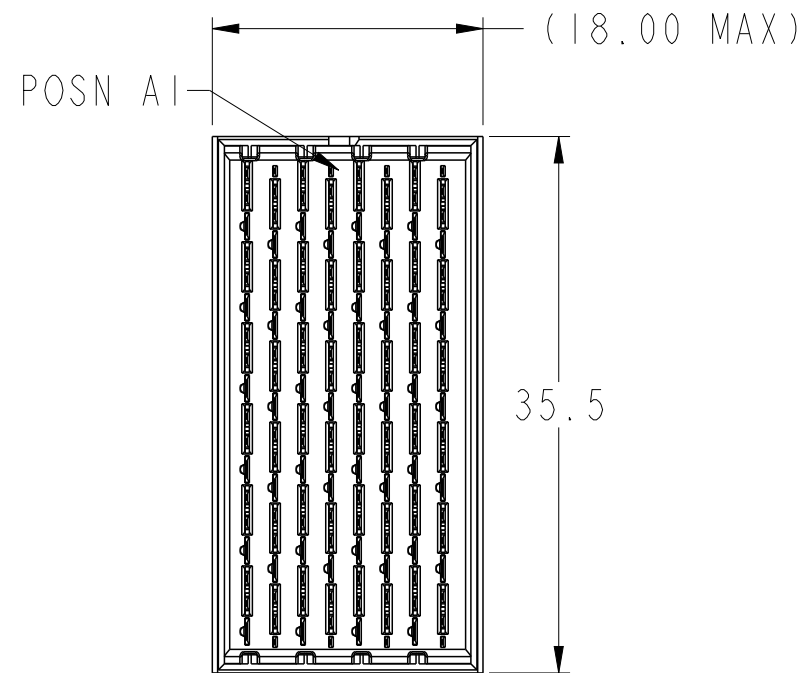
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FOUR WALL MODULE

SEE NOTE 8

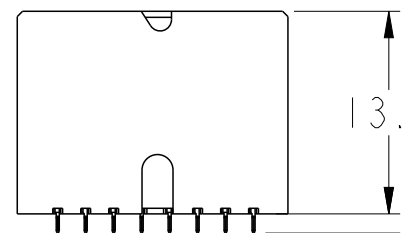
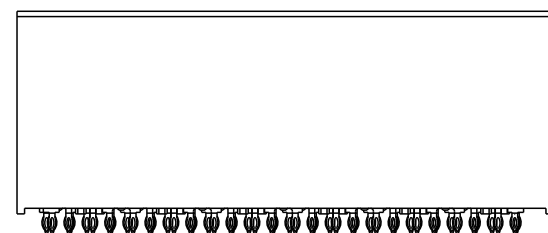
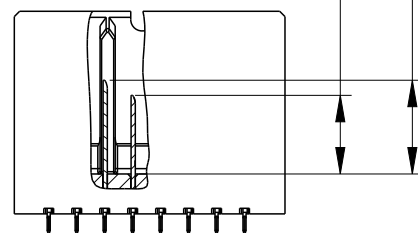


SEE NOTE 5

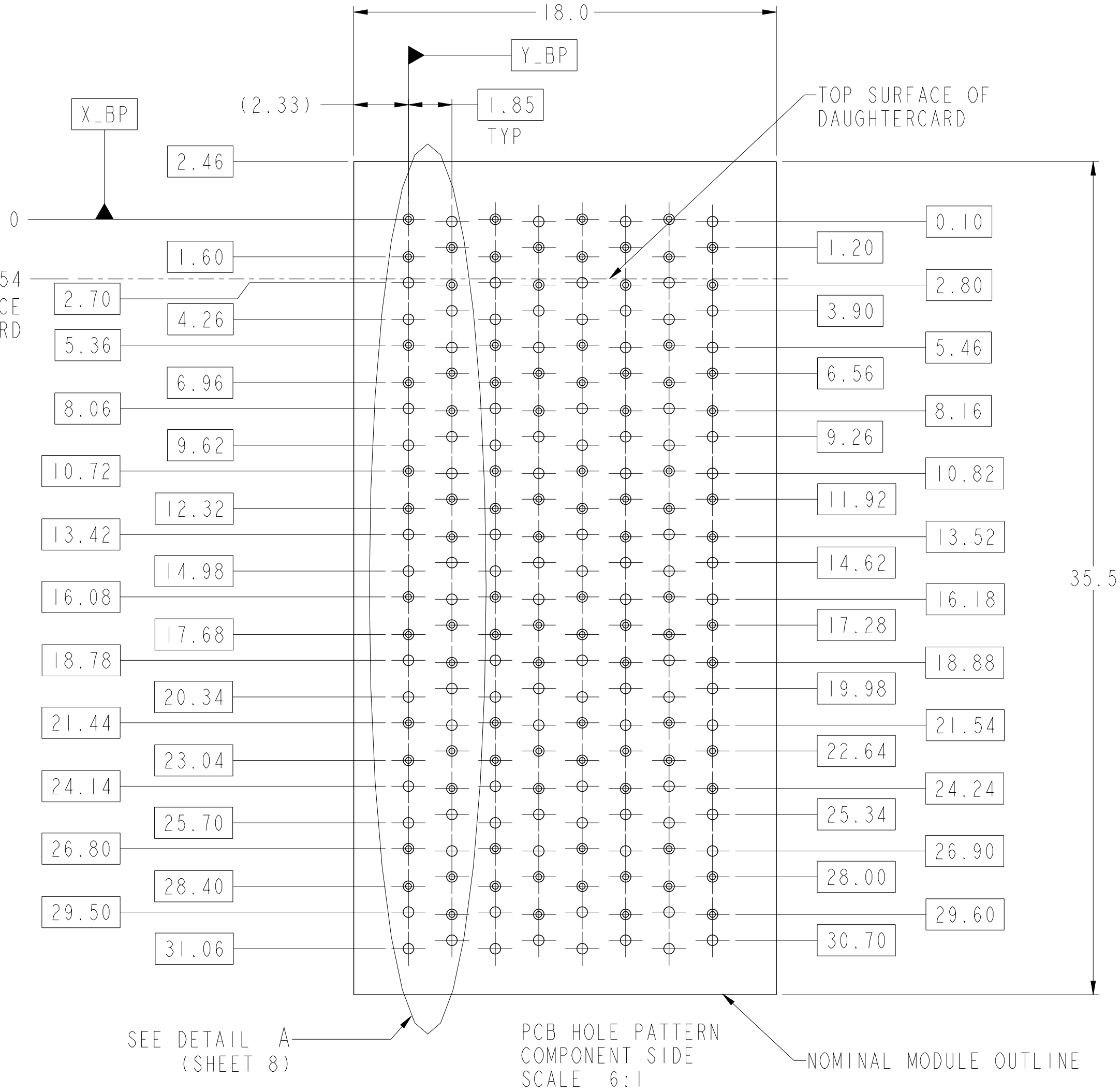


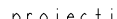
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(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			size	A2	scale	3:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2016/06/06	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	Amphenol FCI	title	MODULE ASSEMBLY VERTICAL HEADER, 8-COLUMN, 6-PAIR			dwg no	10104999		rev	E		
ASME Y14.5													0.X	±0.2
													0.XX	±0.10
	angular	0°	±°	0.XXX	±0.050									
					cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 7 of 8				

PDS: Rev :E

STATUS:Released

Printed: Jun 15, 2016

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

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

	$\varnothing 0.10$	X_BP	Y_X_BP
--	--------------------	------	--------

Y_BP

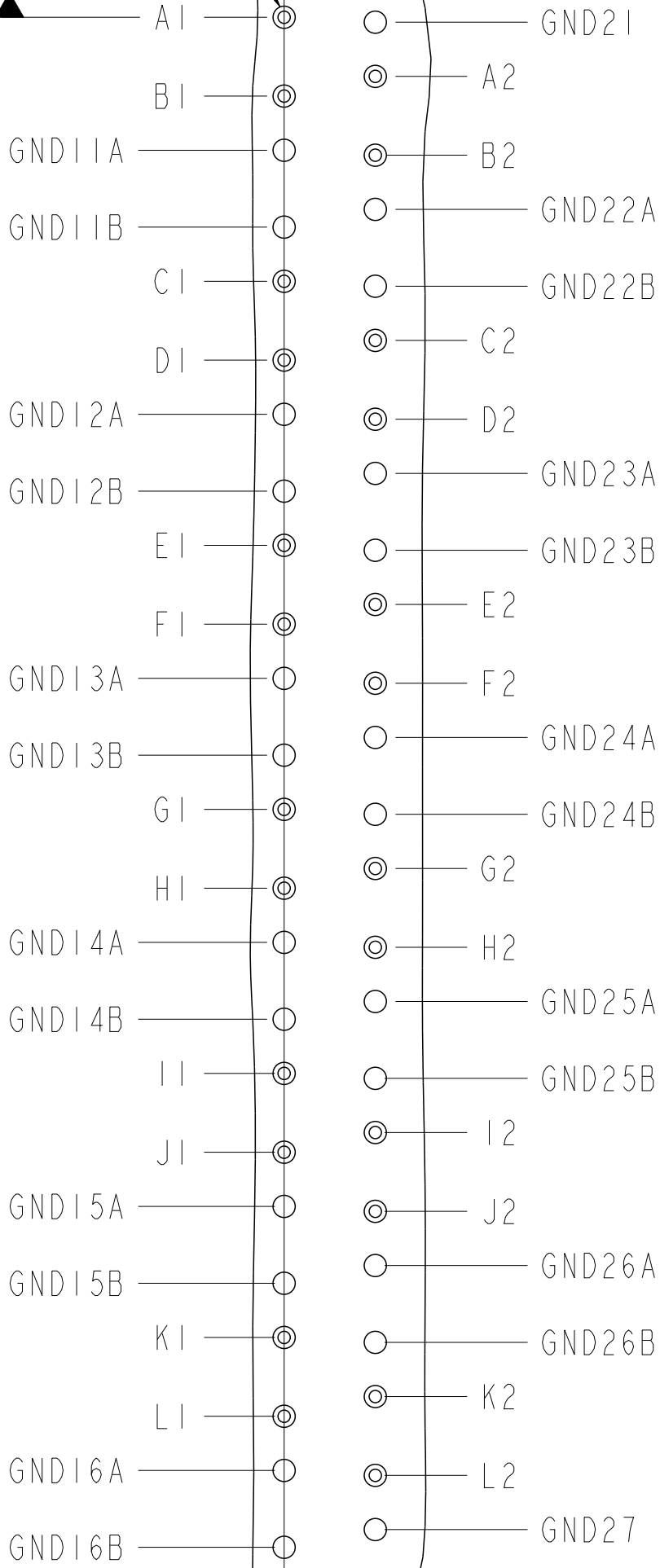


TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

COMPLIANT PIN DRILL	PTH	PAD
$\varnothing 0.55$ [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		2010/06/24		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		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY										dwg no		10104999		rev		E	
		0.XX		±0.10																									
		0.XXX		±0.050																									
ASME Y14.5		angular		0°		±0°				cat. no.		SEE P/N TREE		Product - Customer Drw										sheet 8 of 8					