

1 0 1 0 4 9 9 7 - X X C - X 0 X L F

0: GENERAL LABEL
E: CUSTOMIZED LABEL

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

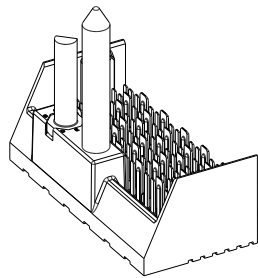
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

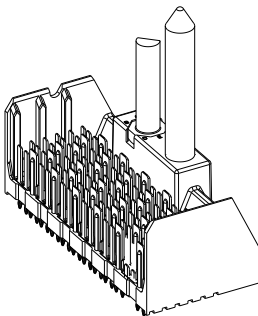
S

T

U

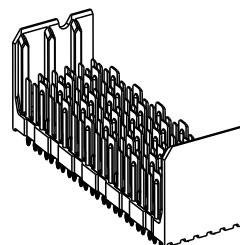
V

W



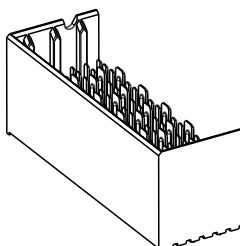
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



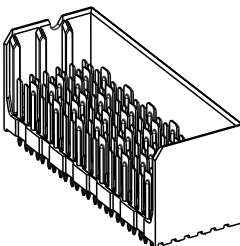
LEFT WALL
MODULE
(SEE SHEET 5)

L



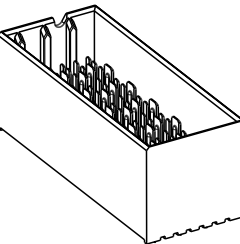
RIGHT WALL
MODULE
(SEE SHEET 6)

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

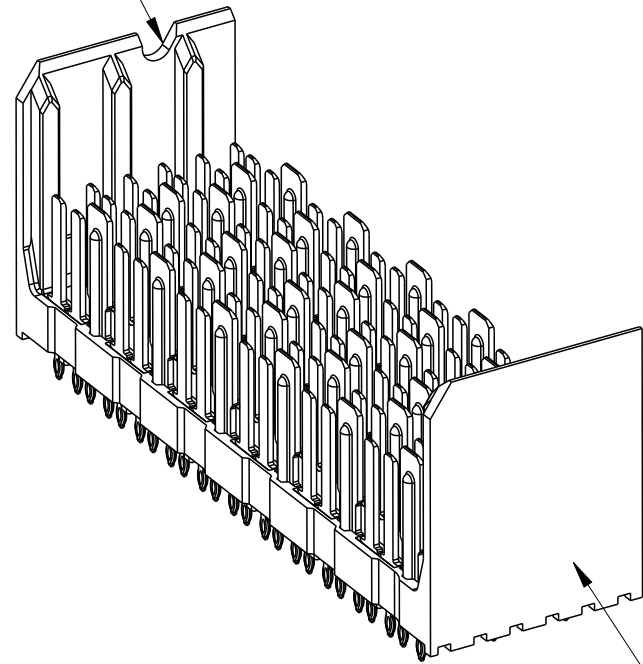
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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			dr		Kok-Hoe Lee		2010/06/23		projection				MM		size		A2		scale		4:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2017/05/24						ecn no		ELX-DG-27080-1		rel level		Released			
ASME Y14.5					chr		Stone Li		2017/06/05															
					appr		Heaven Cen		2017/06/05															
											product family				XCede									
surface		linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10104997		rev		G				
		0.XX		±0.10																				
ASME Y14.5		0.XXX		±0.050																				
		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

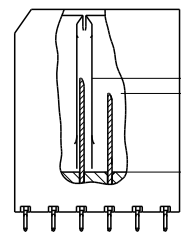
POSN A1

(11.05 MAX)

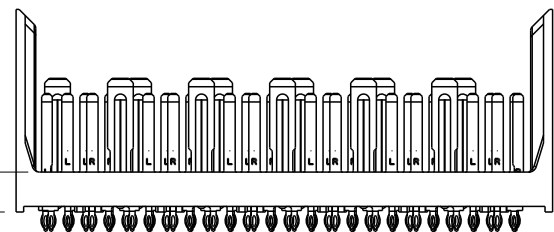
35.5

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)

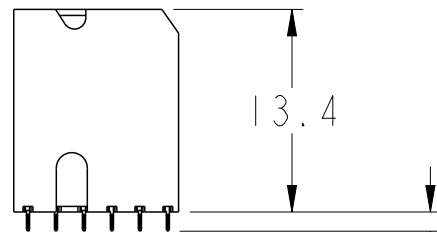
(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



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

31.06

4.26

6.96

9.62

12.32

14.98

17.68

20.34

23.04

25.70

28.40

30.70

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

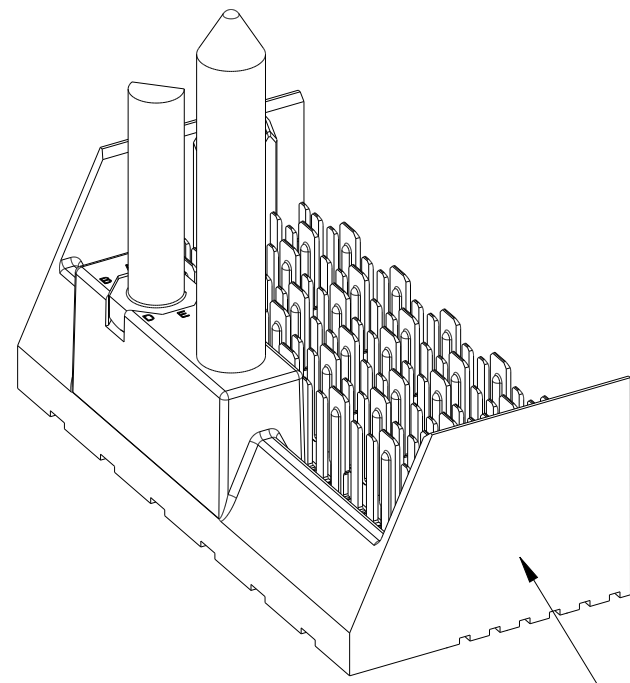
spec ref		SEE NOTES		dr		Kok-Hoe Lee		2010/06/23		projection				size		A2		scale		3:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2017/05/24				MM				ecn no		ELX-DG-27080-1					
ASME Y14.5				chr		Stone Li		2017/06/05								rel level		Released					
				appr		Heaven Cen		2017/06/05		product family		XCede											
surface				linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10104997		rev		G	
ASME Y14.5		angular		0°		±0.050																	

PDS: Rev :G

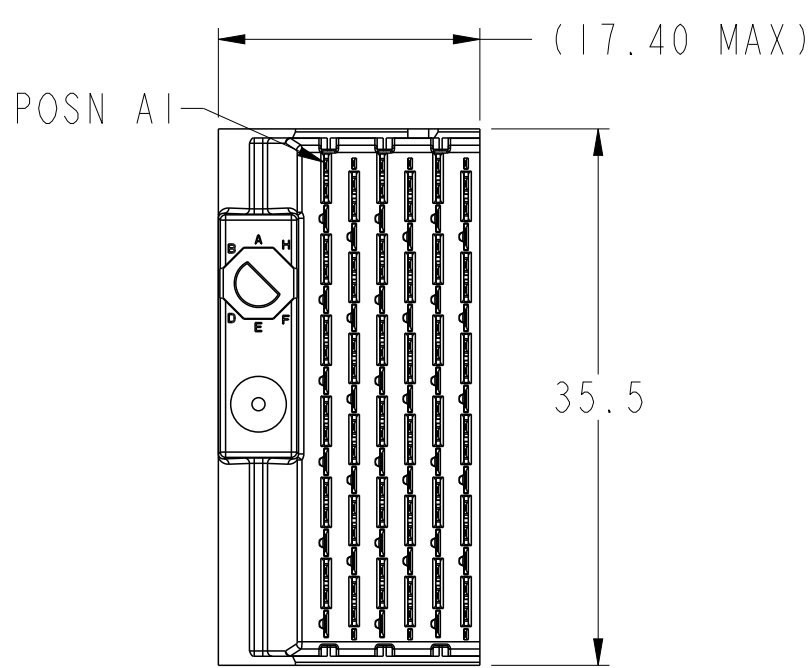
STATUS:Released

Printed: Jun 05, 2017

LEFT POLARIZING/GUIDE MODULE



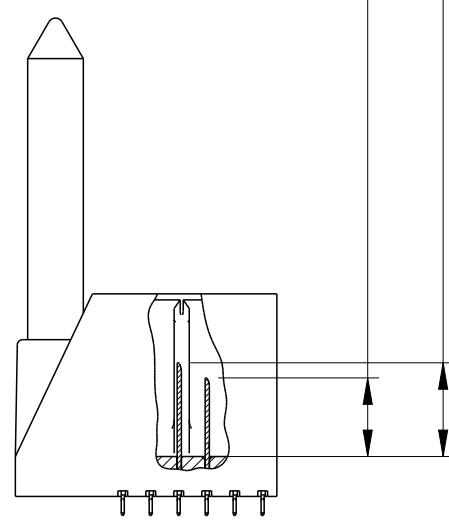
SEE NOTE 5



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

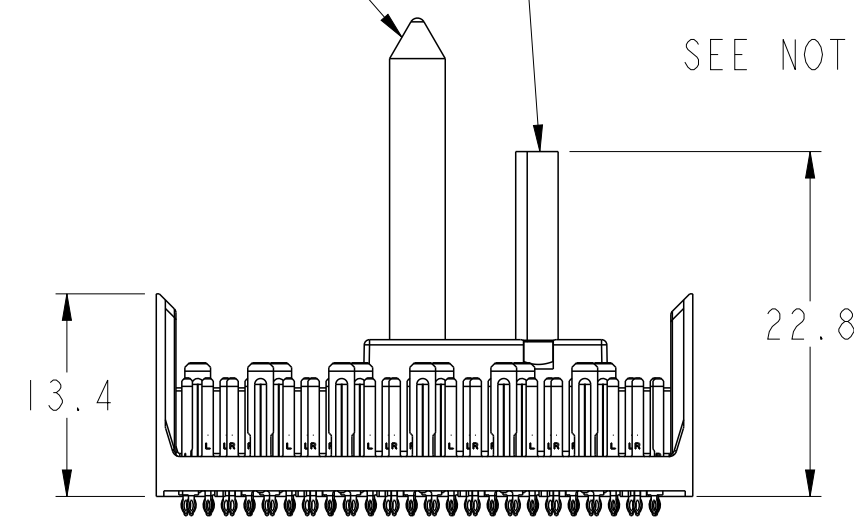
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)

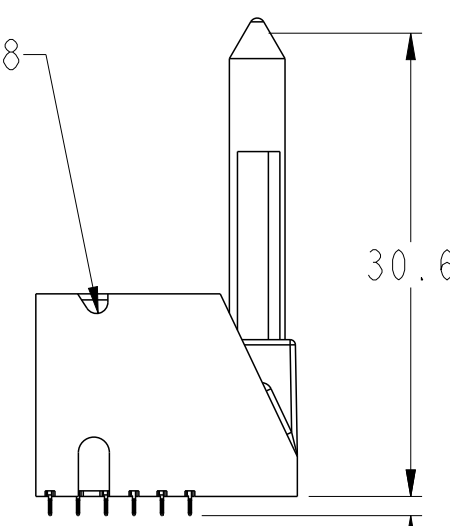


OPTIONAL KEYING PIN
(SEE P/N TREE)

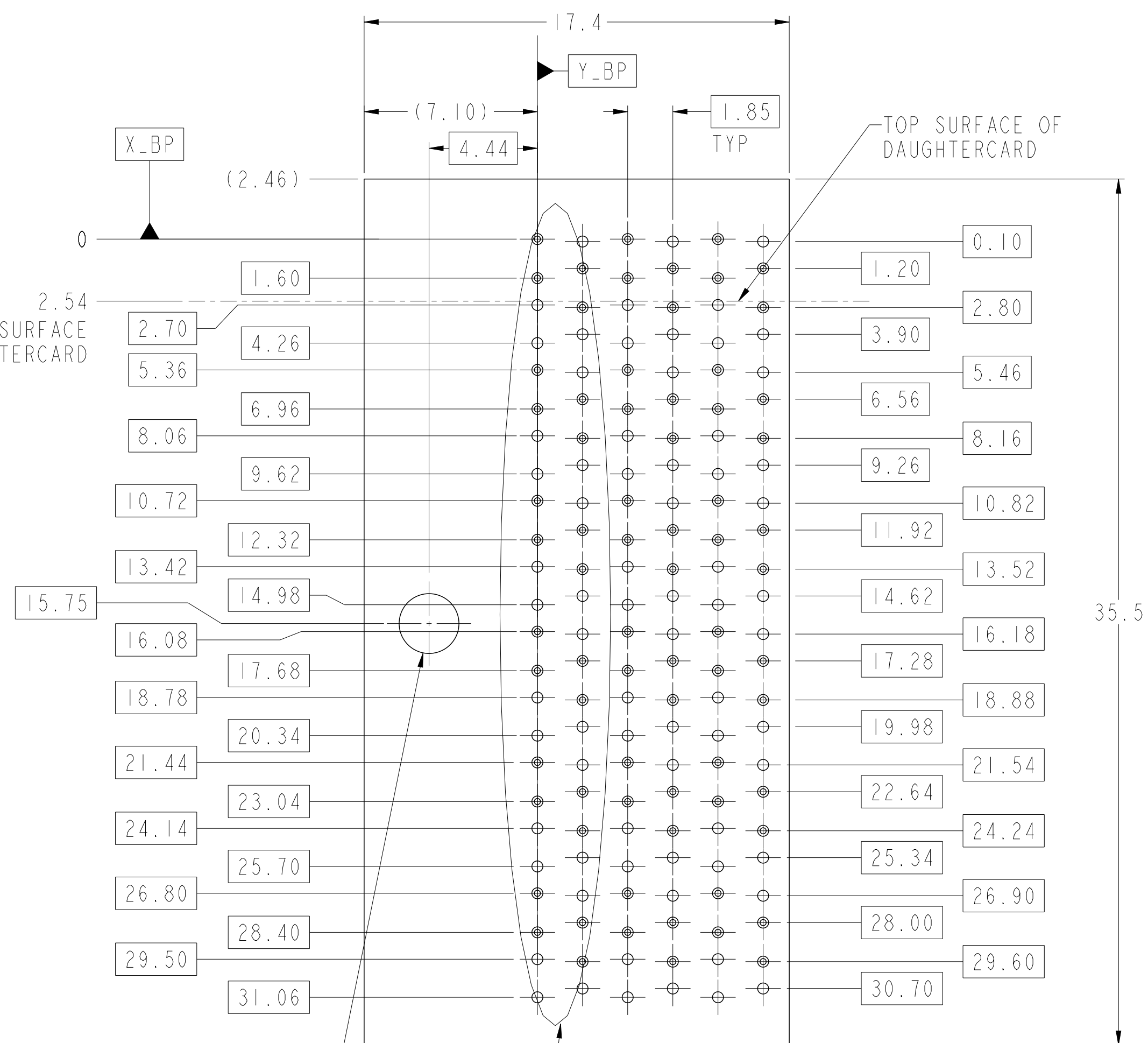
GUIDE PIN



SEE NOTE 8



TAIL LENGTH
SEE NOTE 12



$\oplus$	0.10	X_BP	Y_BP
----------	------	------	------

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		2017/05/24						ecn no		ELX-DG-27080-1																								
ASME Y14.5					chr		Stone Li		2017/06/05						rel level		Released																								
					appr		Heaven Cen		2017/06/05						product family		XCede																								
surface		linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY										dwg no		10104997						rev											
				0.XX		±0.10																cat. no.		SEE P/N TREE						Product - Customer Drw						sheet 3 of 8					
ASME Y14.5		angular		0°		±																														G					

PDS: Rev:G

STATUS:Released

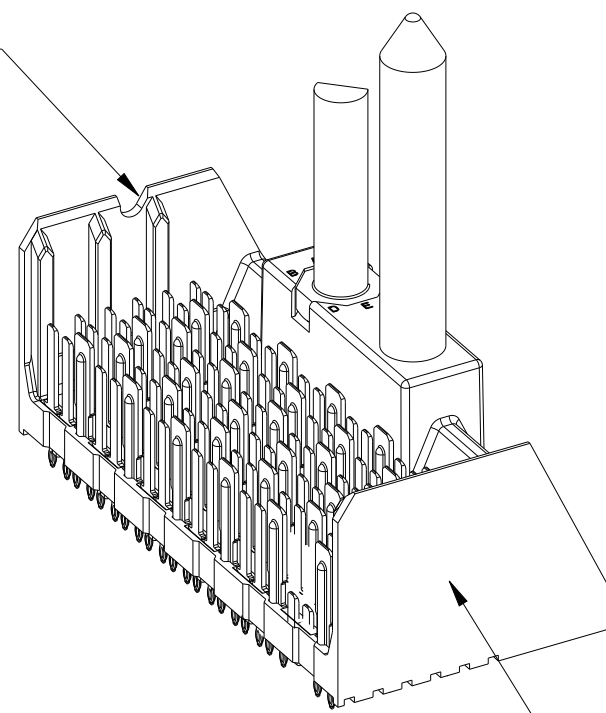
Printed: Jun 05, 2017

Amphenol FCI

© 2016 APCI

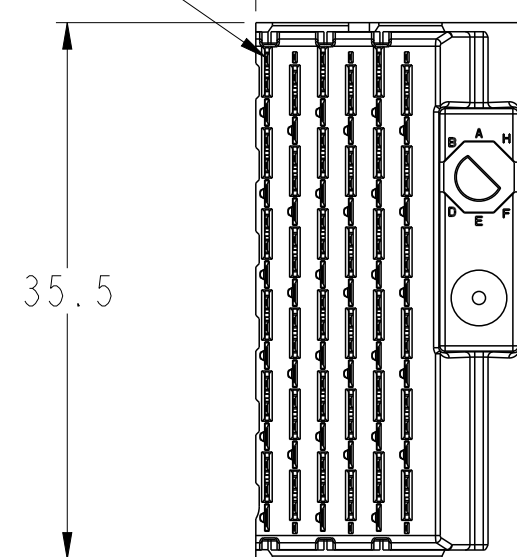
RIGHT POLARIZING/GUIDE MODULE

SEE NOTE 8



SEE NOTE 5

POSN A1 (17.50 MAX)



35.5

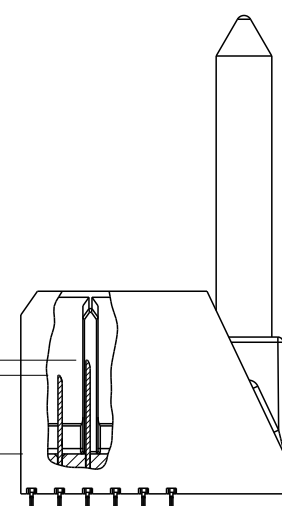
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

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)



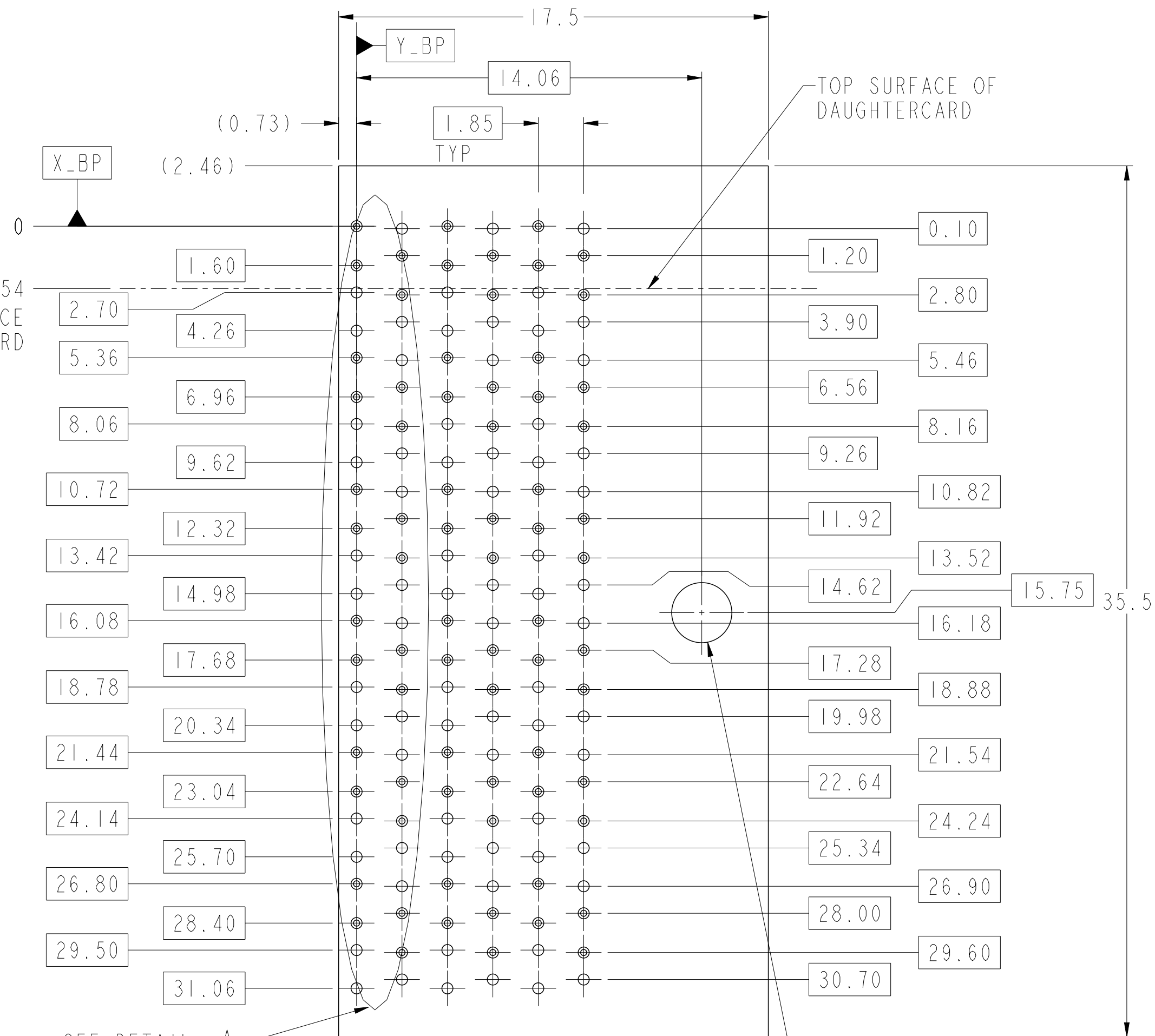
13.4

22.8

31.6

TAIL LENGTH
SEE NOTE 12

2.54
TO TOP SURFACE
OF DAUGHTERCARD



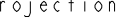
SEE DETAIL A
(SHEET 8)

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	2017/05/24			ecn no	ELX-DG-27080-1				
ASME Y14.5			chr	Stone Li	2017/06/05			product family	XCede				
			appr	Heaven Cen	2017/06/05	rel level					Released		
surface	linear 	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY				dwg no	10104997	rev	G
		0.XX	±0.10										
ASME Y14.5		angular	0°			±0.050	VERTICAL HEADER, 6-COLUMN, 6-PAIR						
			cat. no.	SEE P/N TREE		Product - Customer Drw				sheet 4 of 8			

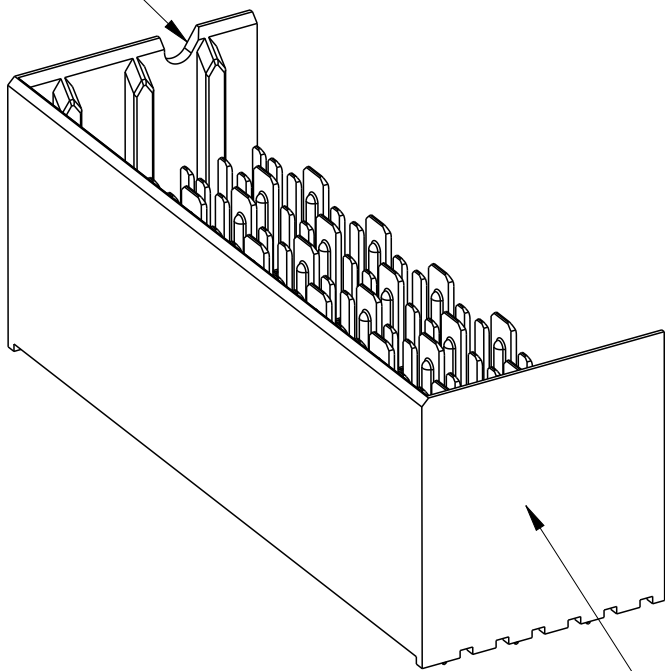
PDS: Rev :G

STATUS:Released

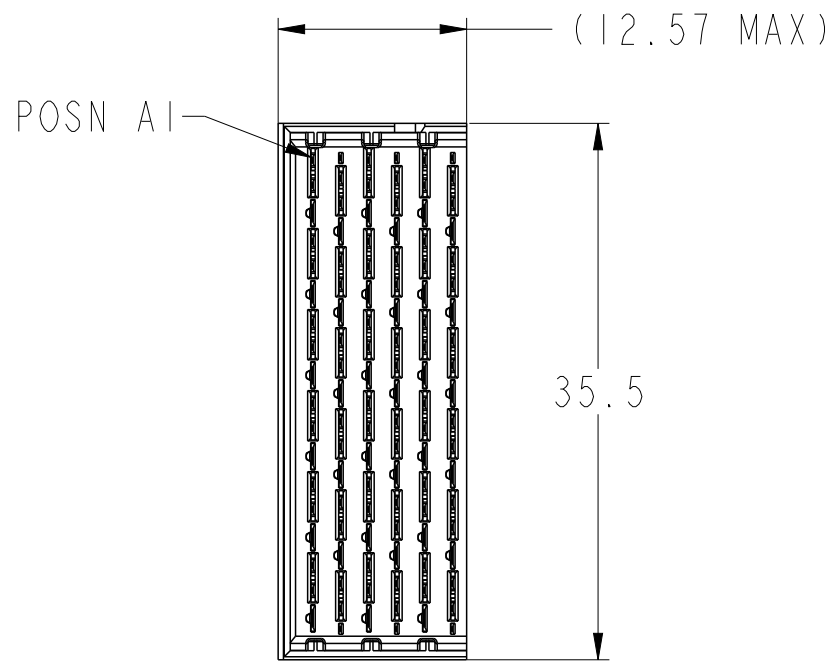
Printed: Jun 05, 2017

LEFT WALL MODULE

SEE NOTE 8

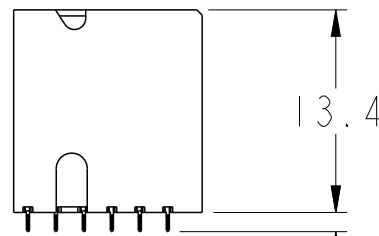
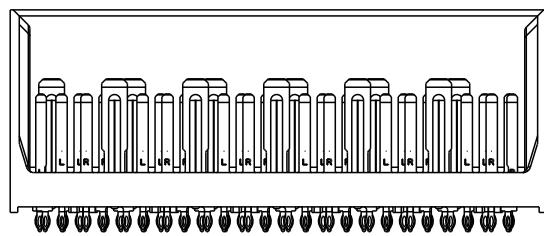
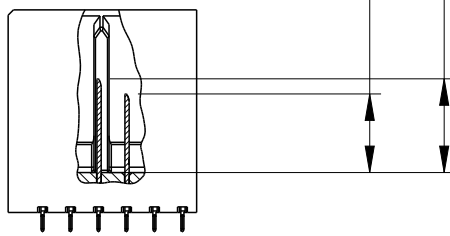


SEE NOTE 5

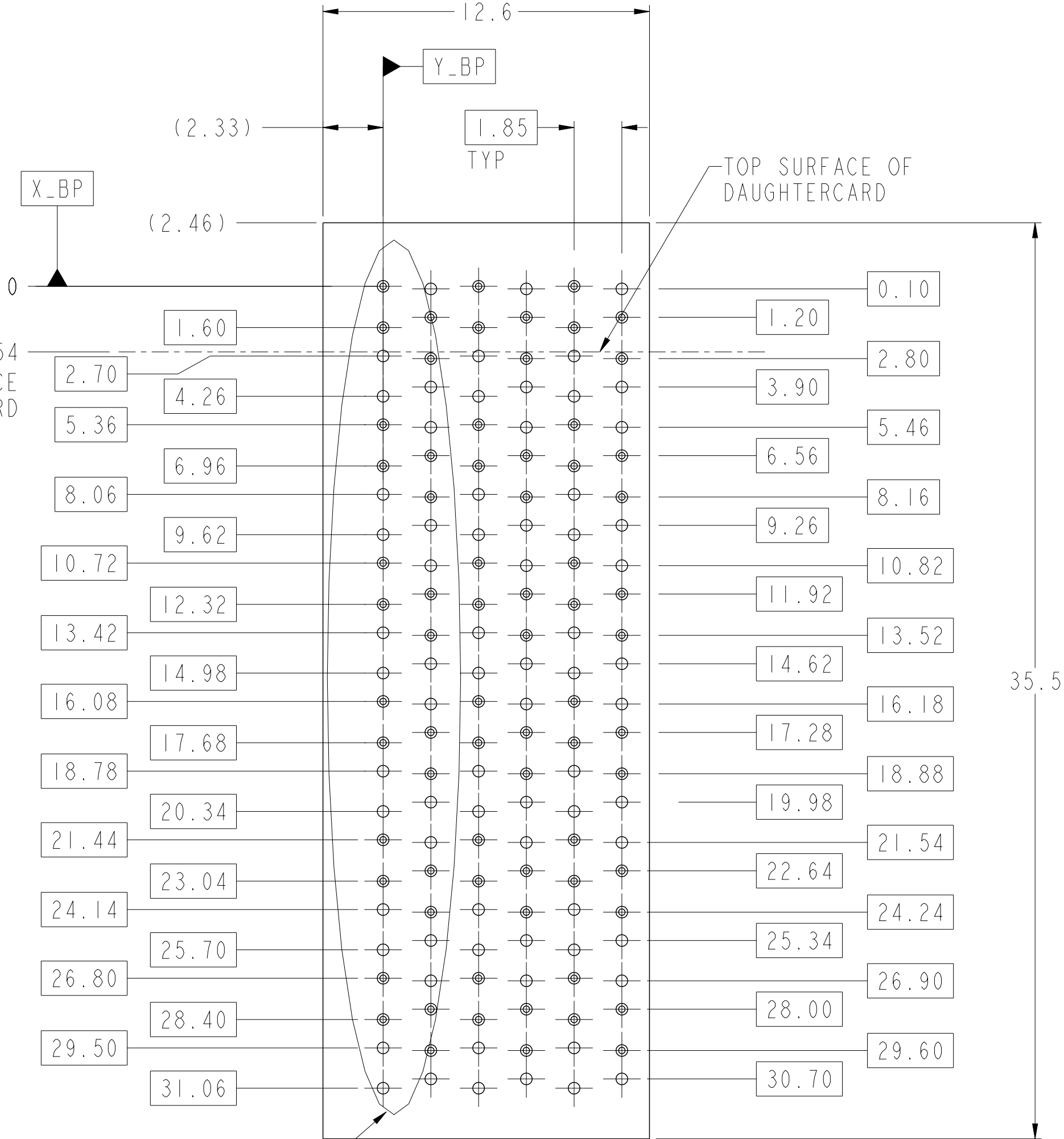


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)

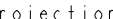


TAIL LENGTH
SEE NOTE 12



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	3:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2017/05/24				ecn no	ELX-DG-27080-1			
ASME Y14.5				chr	Stone Li	2017/06/05	product family		XCede	rel level			Released	
				appr	Heaven Cen	2017/06/05								
surface	linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR				dwg no	10104997		rev	G
		0.XX	±0.10											
		0.XXX	±0.050											
ASME Y14.5	angular	0°	±°		cat. no.	SEE P/N TREE	Product - Customer Drw				sheet 5 of 8			

PDS: Rev :G

STATUS:Released

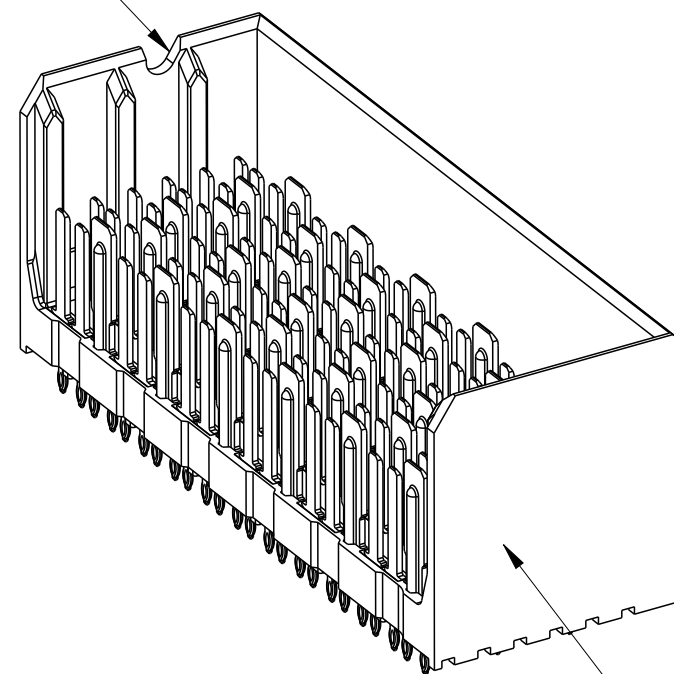
Printed: Jun 05, 2017

Amphenol FCI

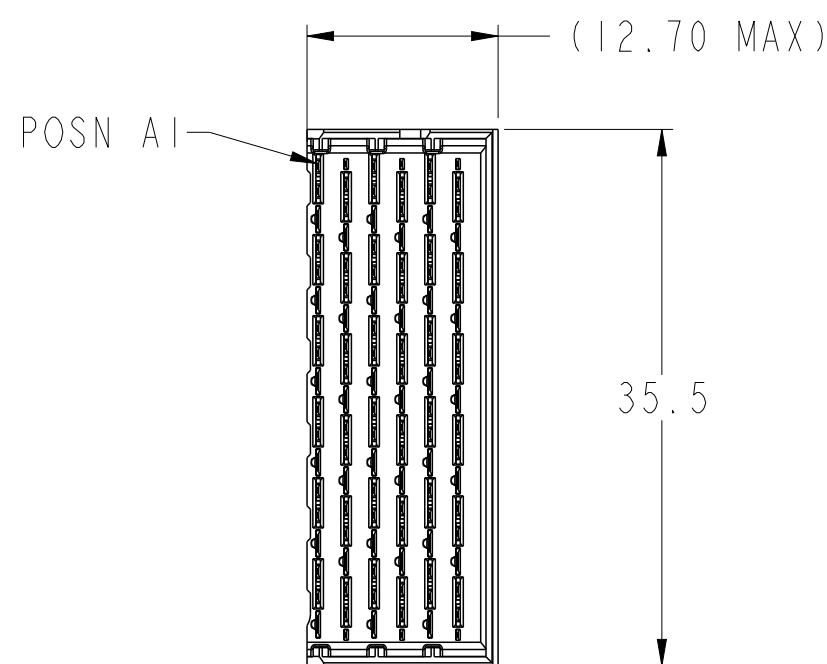
© 2016 AFCI

RIGHT WALL MODULE

SEE NOTE 8



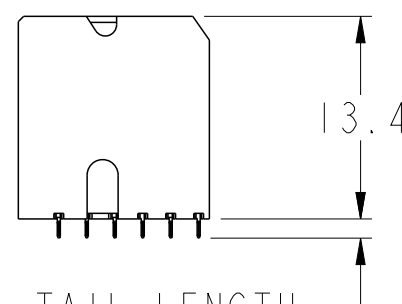
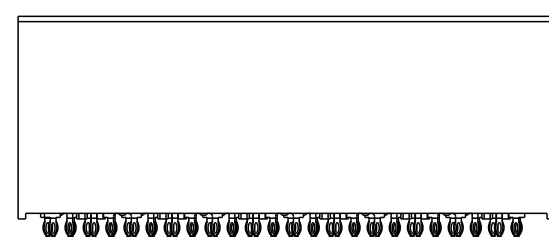
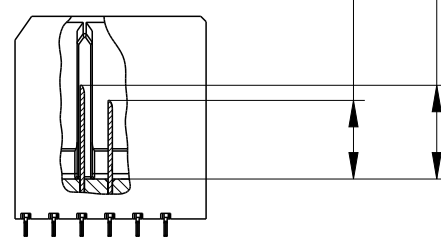
SEE NOTE 5



SCALE 2:1

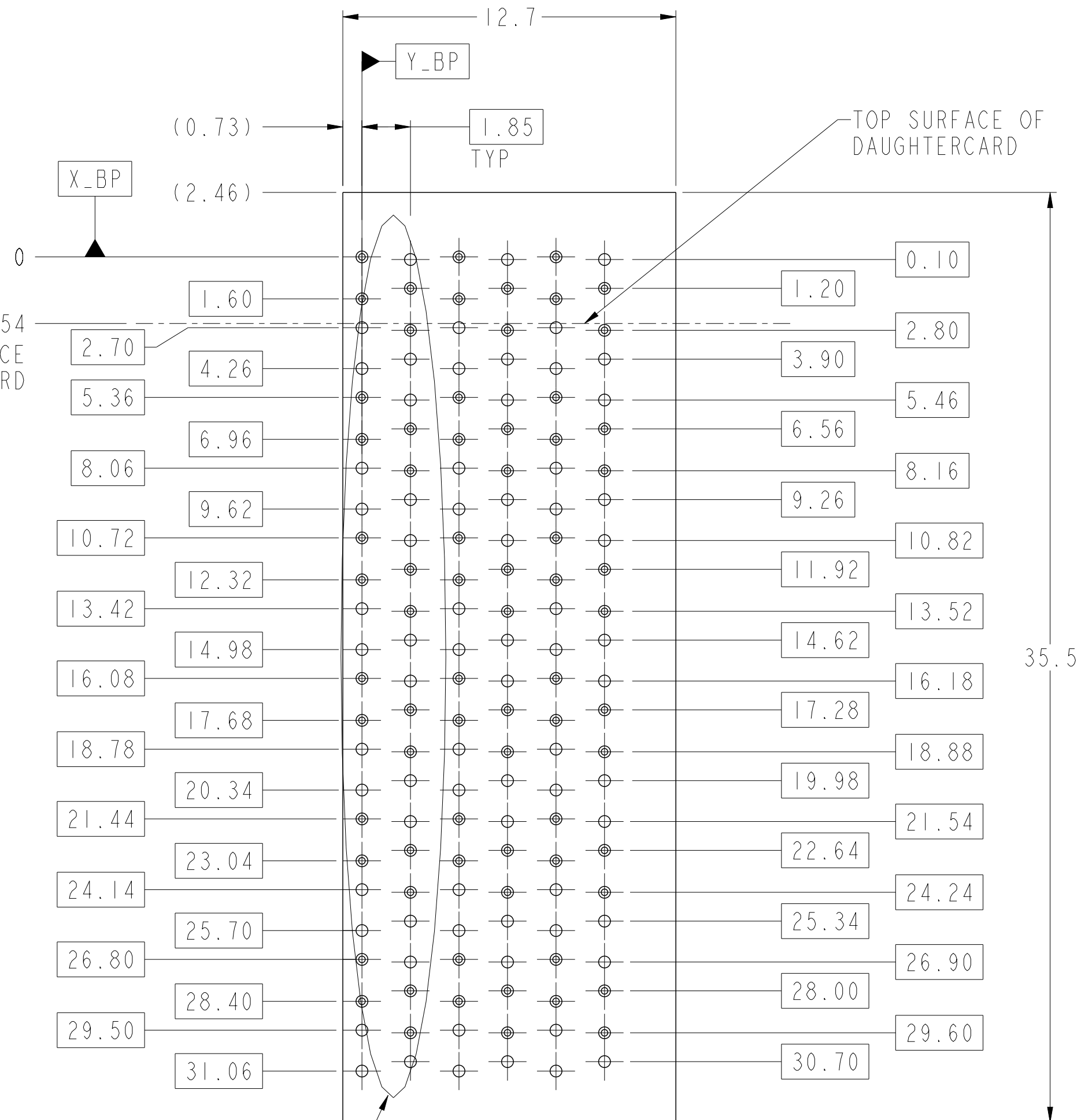
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(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		scale			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Michael Song		2017/05/24						A2		3:1			
ASME Y14.5				chr		Stone Li		2017/06/05						ecn no		ELX-DG-27080-1			
				appr		Heaven Cen		2017/06/05		product family		XCede		rel level		Released			
surface		linear		Amphenol FCI		title		MODULE ASSEMBLY		dwg no		10104997		rev		G			
		0.X																±0.2	
		0.XX																±0.10	
ASME Y14.5		angular																	
		0°		±°															
								cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 6 of 8					

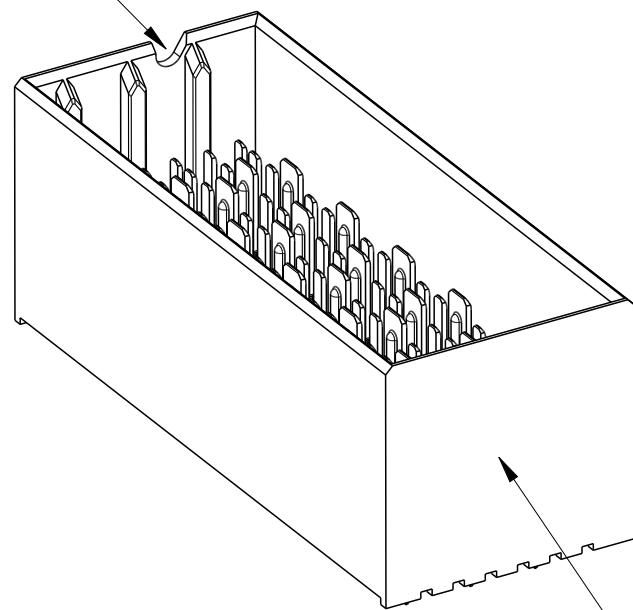
PDS: Rev :G

STATUS:Released

Printed: Jun 05, 2017

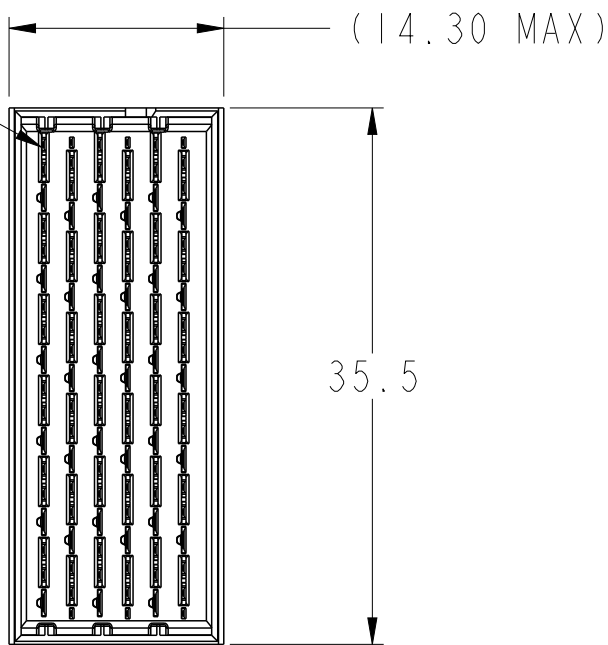
FOUR WALL MODULE

SEE NOTE 8



SEE NOTE 5

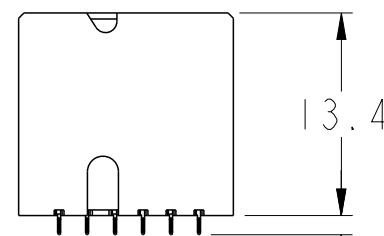
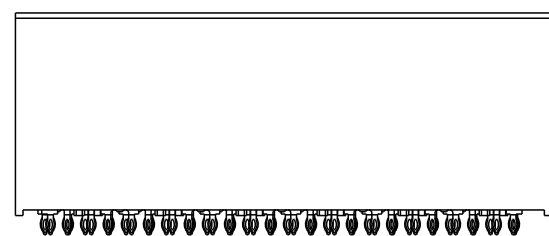
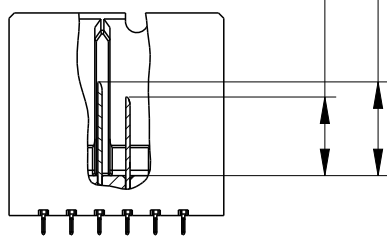
POSN A1



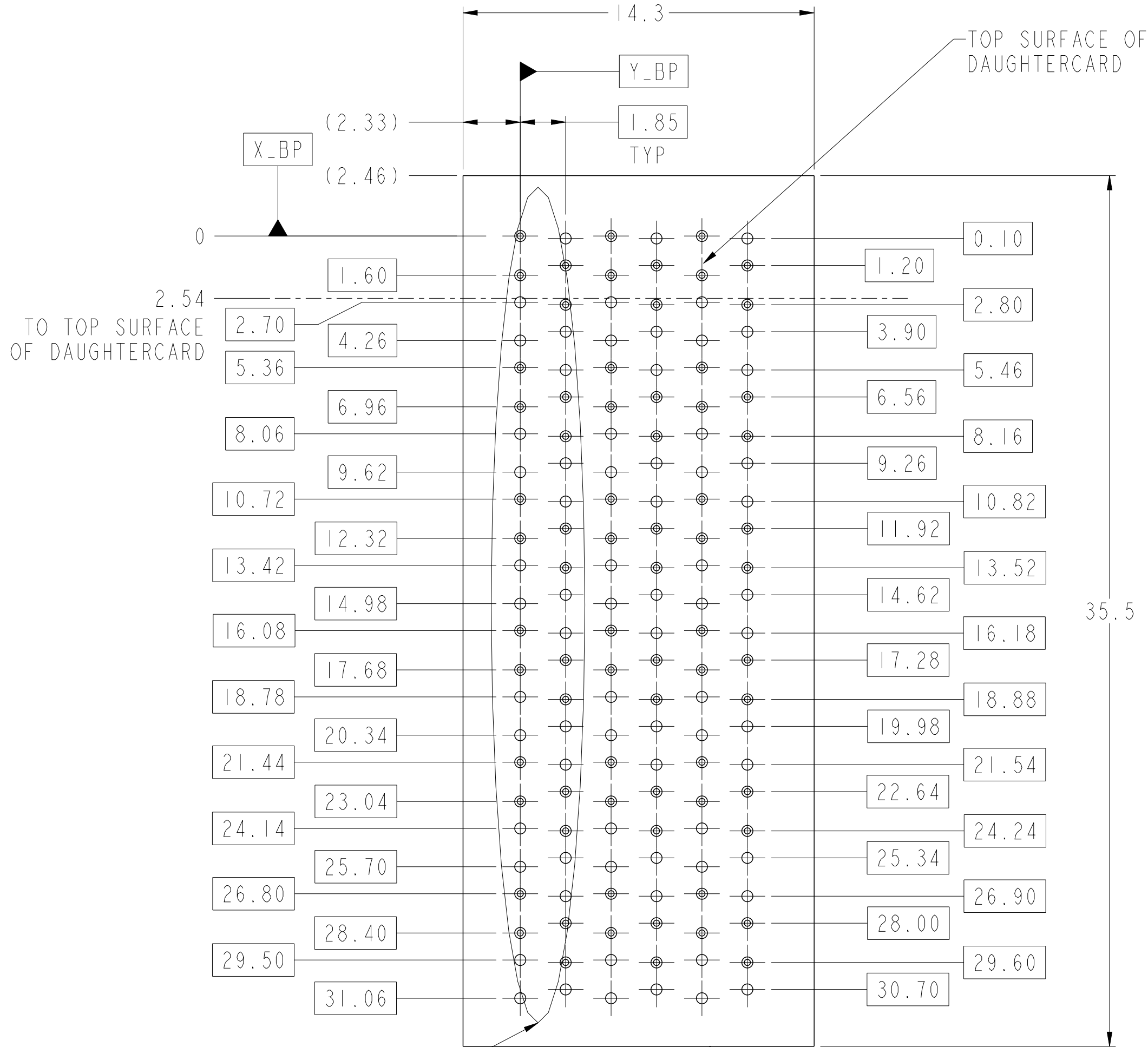
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

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		3:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2017/05/24						ecn no		ELX-DG-27080-1		Released						
ASME Y14.5					chr		Stone Li		2017/06/05								rel level								
		appr		Heaven Cen		2017/06/05		product family		-															
surface				linear		Amphenol FCI		title		MODULE ASSEMBLY						dwg no		10104997		rev		G			
				0.X																				±0.2	
				0.XX																				±0.10	
ASME Y14.5		angular		0°		±°				cat. no.		SEE P/N TREE		Product - Customer Drw		sheet 7 of 8									

PDS: Rev :G

STATUS:Released

Printed: Jun 05, 2017

REFER TABLE 3
FOR PTH, DRILL & PAD SIZES

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

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

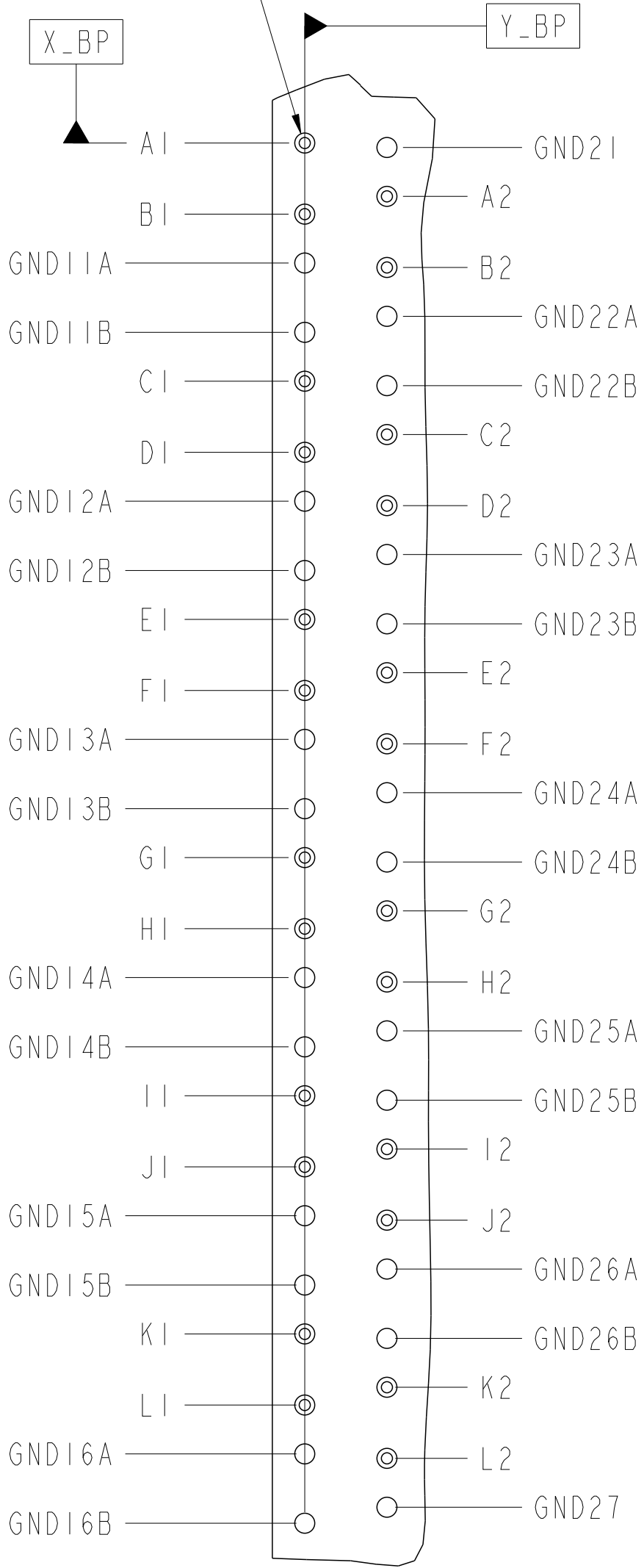
COMPLIANT PIN DRILL	PTH	PAD
$\varnothing 0.55$ [0.0217"]	$\varnothing 0.45 \pm 0.05$	$\varnothing 0.85$
$\varnothing 0.45$ [0.0177"]	$\varnothing 0.36 \pm 0.05$	$\varnothing 0.75$

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		2017/05/24						ecn no		ELX-DG-27080-1												
ASME Y14.5					chr		Stone Li		2017/06/05						rel level		Released												
					appr		Heaven Cen		2017/06/05						product family		-												
surface		linear		0.X		±0.2		Amphenol FCI		title		MODULE ASSEMBLY VERTICAL HEADER, 6-COLUMN, 6-PAIR										dwg no		10104997		rev		G	
		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					