

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

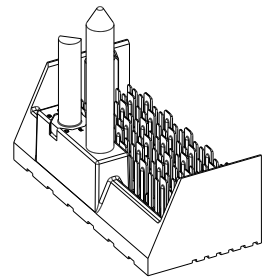
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

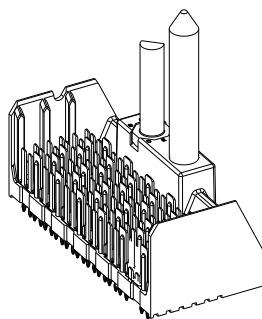
S

T

U

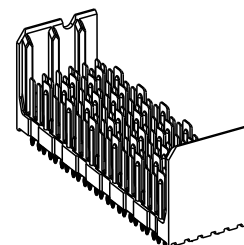
V

W



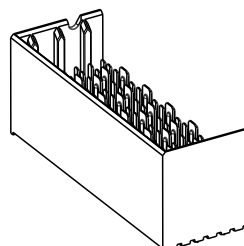
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



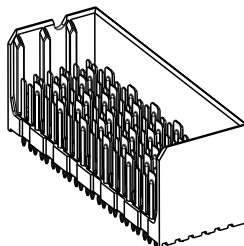
LEFT WALL
MODULE
(SEE SHEET 5)

L



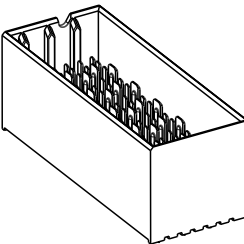
RIGHT WALL
MODULE
(SEE SHEET 6)

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

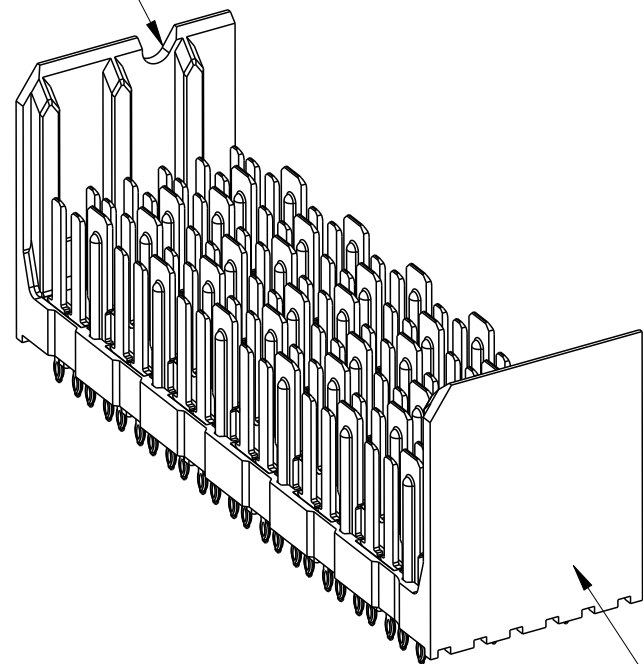
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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				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		XCede												
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 1 of 8					

OPEN (2-WALL) MODULE

SEE NOTE 8



SEE NOTE 5

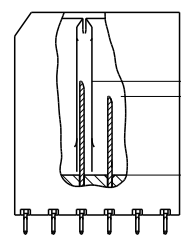
POSN A1

(11.05 MAX)

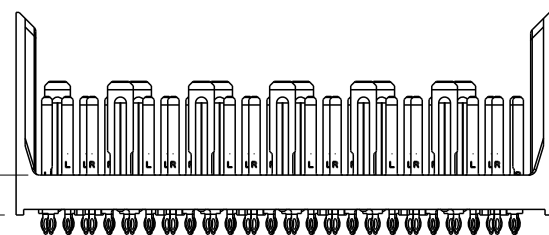
35.5

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)

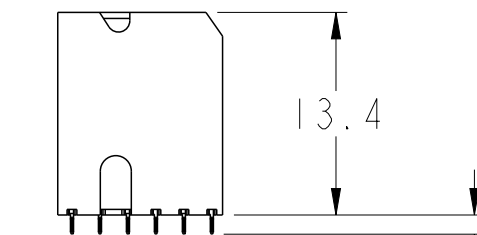
(SEE P/N TREE FOR
ALL COMBINATIONS AVAILABLE)



2.64±0.10 FROM STANDOFF
SURFACE TO MATING SURFACE



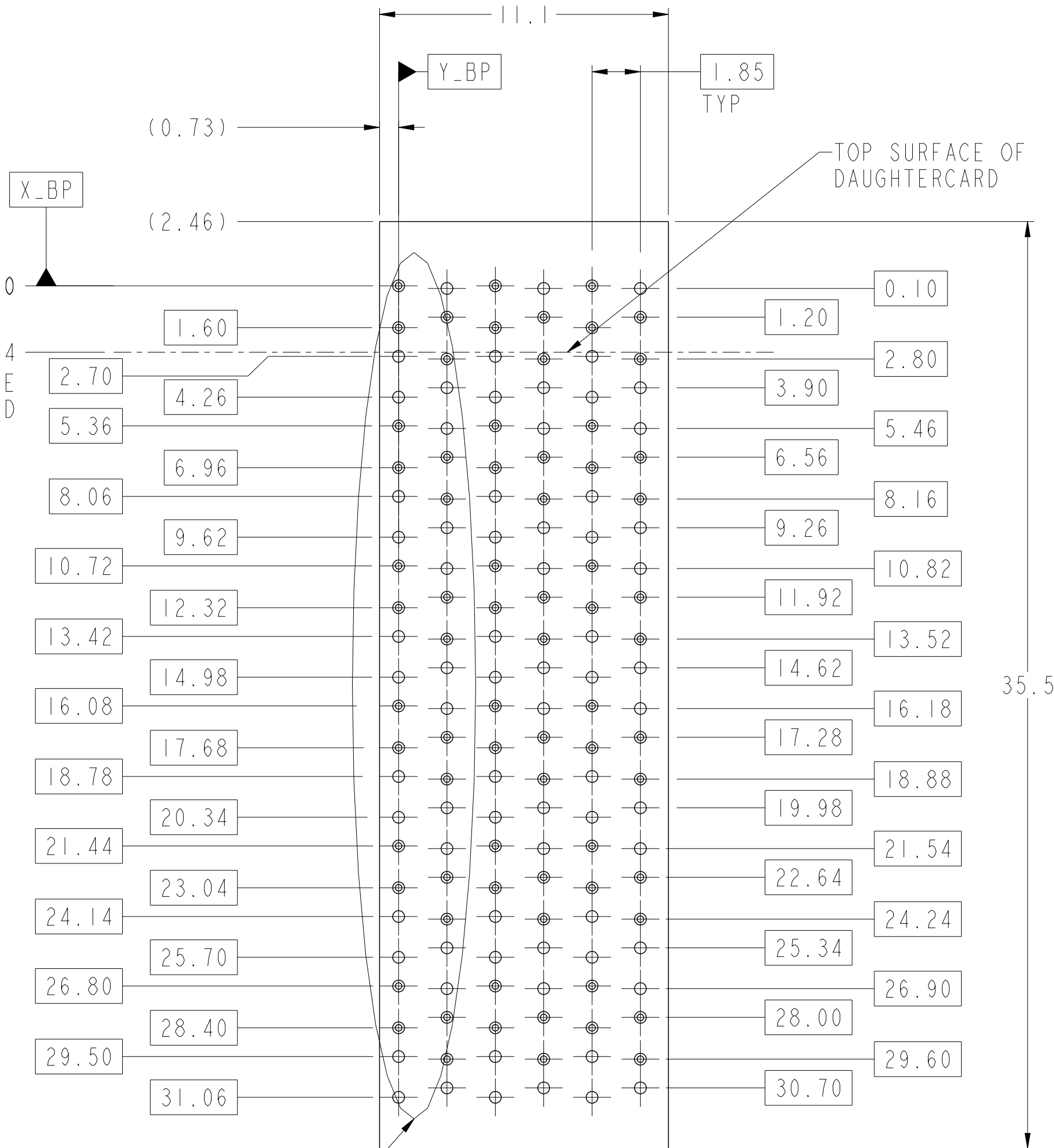
TAIL LENGTH
SEE NOTE 12

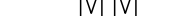


SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE



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 ✓ ASME Y14.5	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										
	angular	0°	±°		cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 2 of 8			

PDS: Rev :G

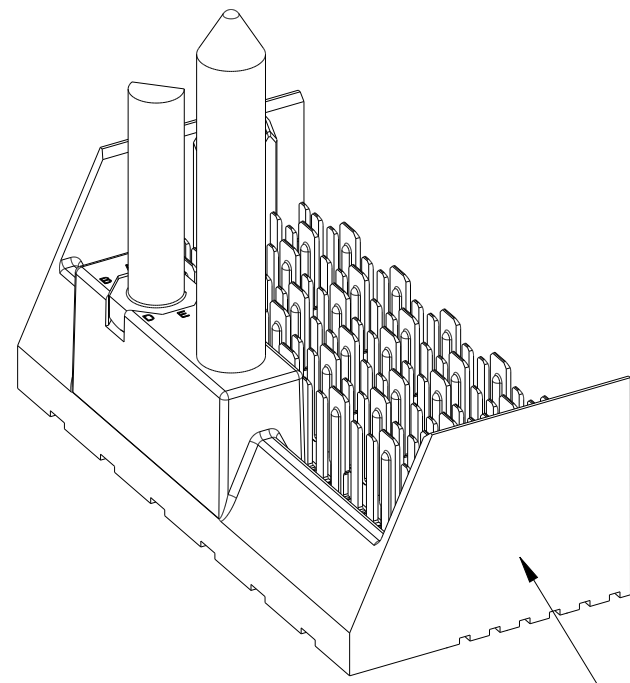
STATUS:Released

Printed: Jun 05, 2017

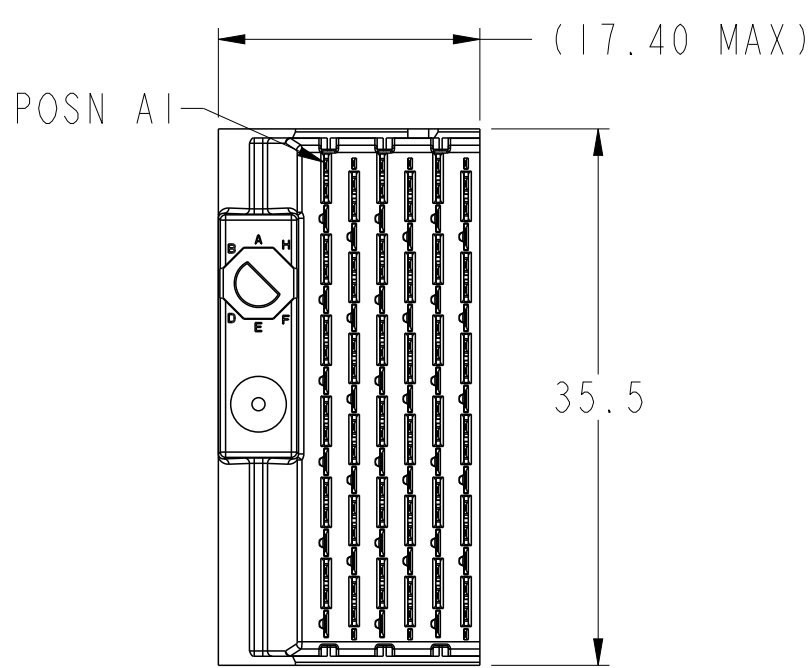
Amphenol FCI

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LEFT POLARIZING/GUIDE MODULE



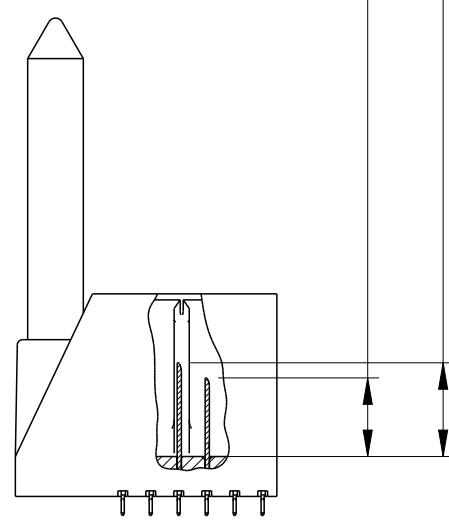
SEE NOTE 5



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

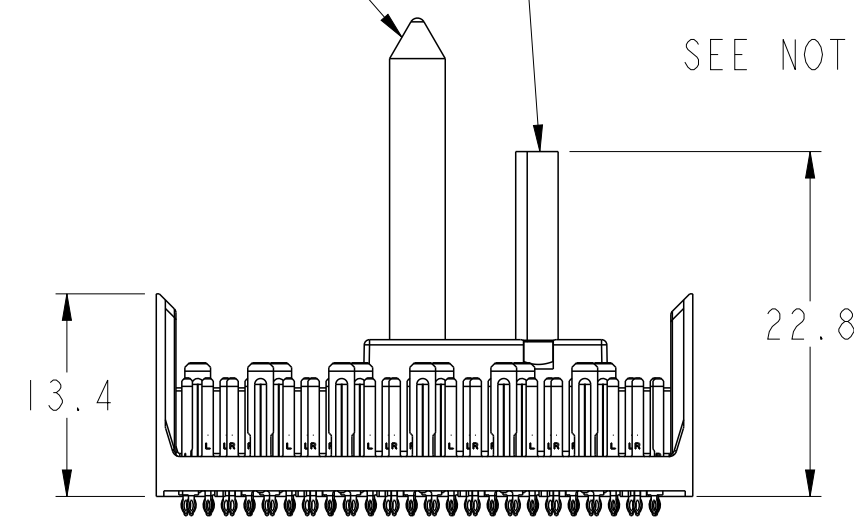
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)

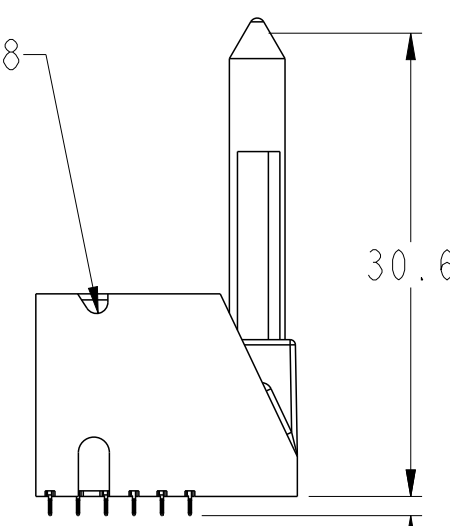


OPTIONAL KEYING PIN
(SEE P/N TREE)

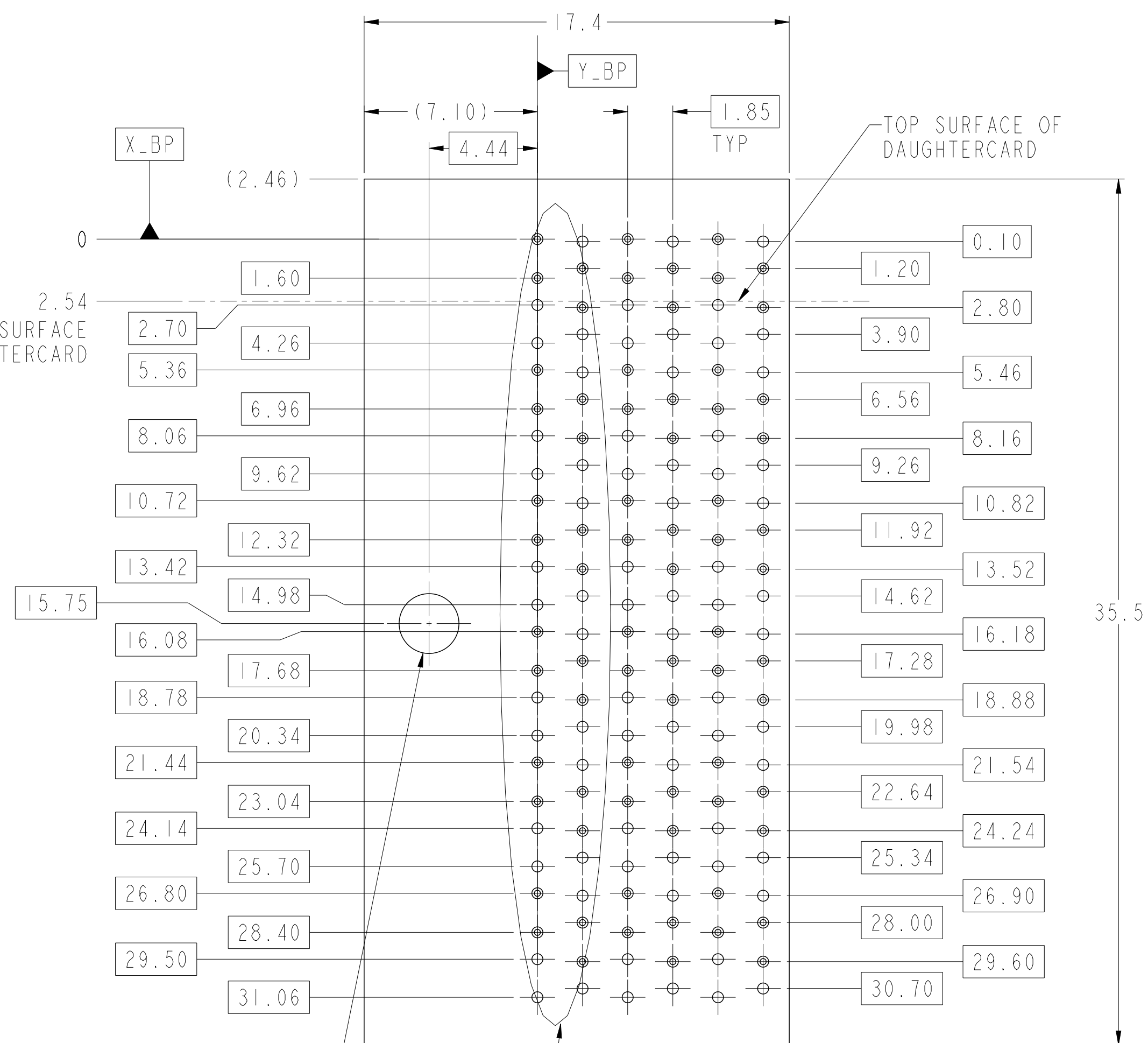
GUIDE PIN



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 VERTICAL HEADER, 6-COLUMN, 6-PAIR			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 3 of 8	

PDS: Rev:G

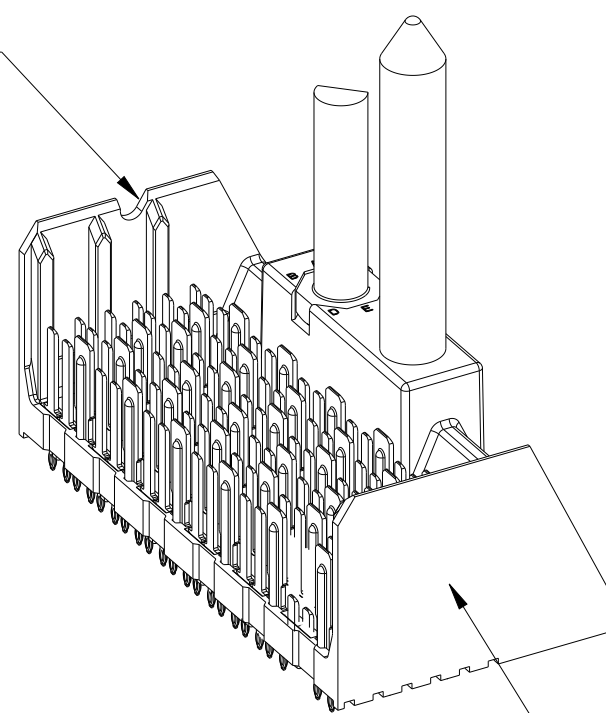
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Printed: Jun 05, 2017

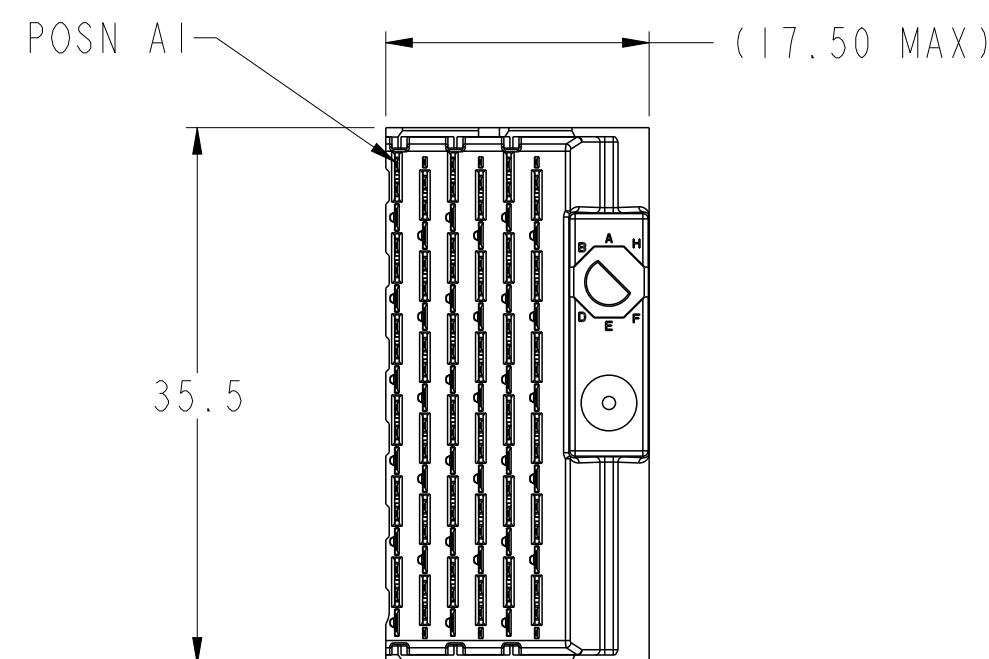
Amphenol FCI

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RIGHT POLARIZING/GUIDE MODULE



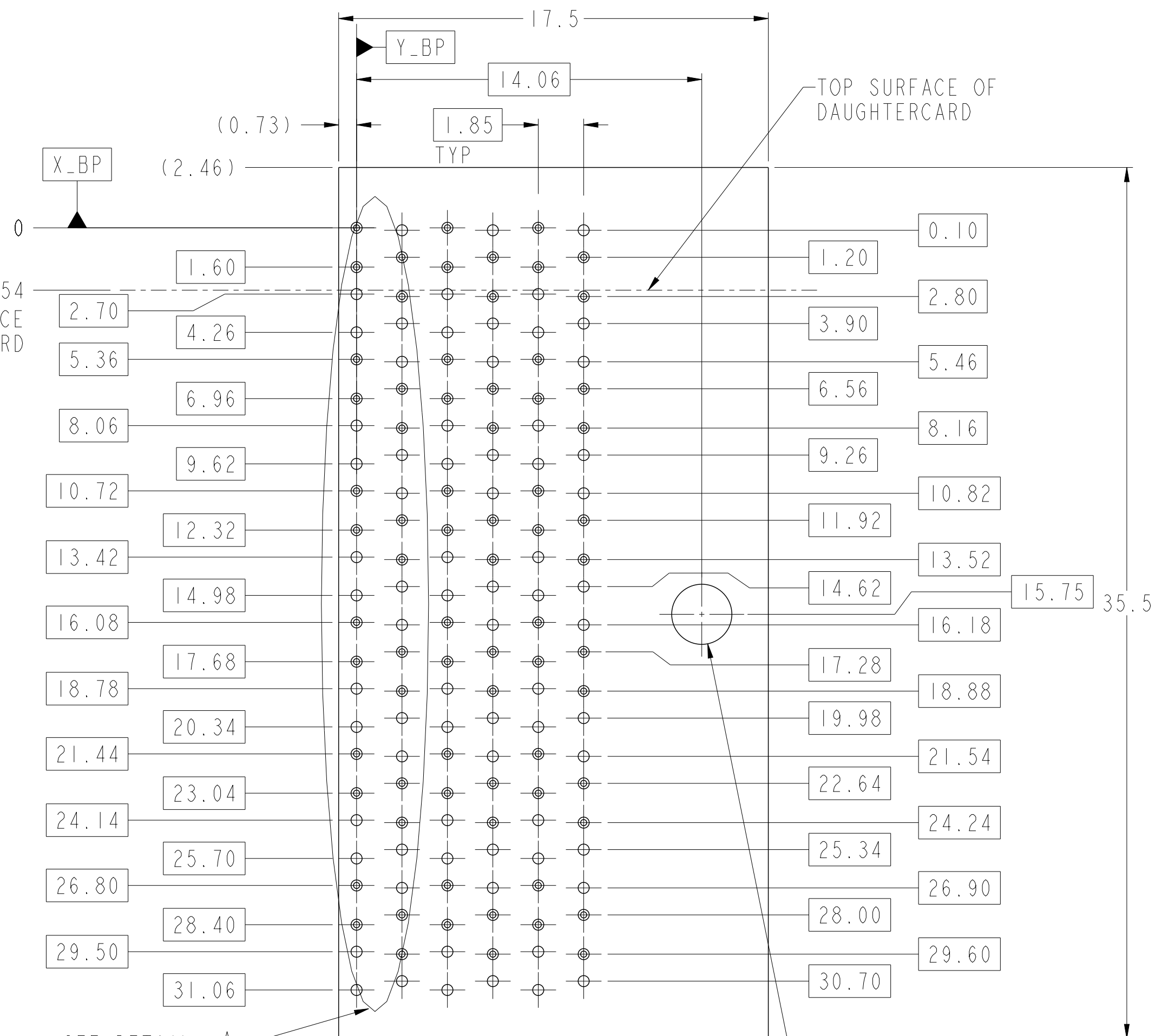
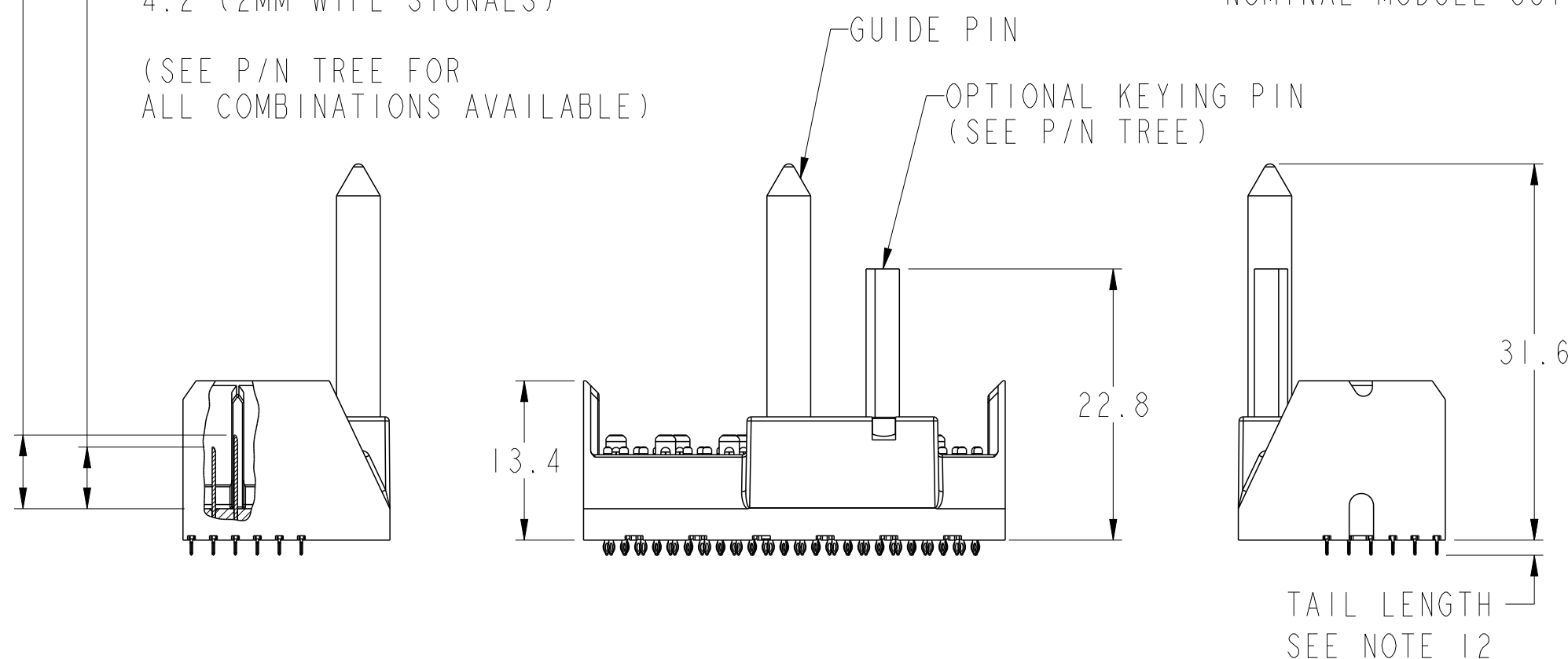
—SEE NOTE 5



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)



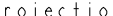
SEE DETAIL A-
(SHEET 8)

NOMINAL MODULE OUTLINE:

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

$$-\phi \begin{array}{l} 2.55 \\ 2.35 \end{array}$$

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

spec ref	SEE NOTES		dr	Kok-Hoe Lee	2010/06/23			size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Michael Song	2017/05/24			ecm no	ELX-DG-27080-1			
ASME Y14.5			chr	Stone Li	2017/06/05			product familyXCode				
			appr	Heaven Cen	2017/06/05	rel levelReleased						
surface		linear	0.X	±0.2	Amphenol FCI	title	MODULE ASSEMBLY		dwg no	10104997		rev
		0.XX	±0.10									
		0.XXX	±0.050									
ASMF Y14.5	angular	0°	+		cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 4 of 8		

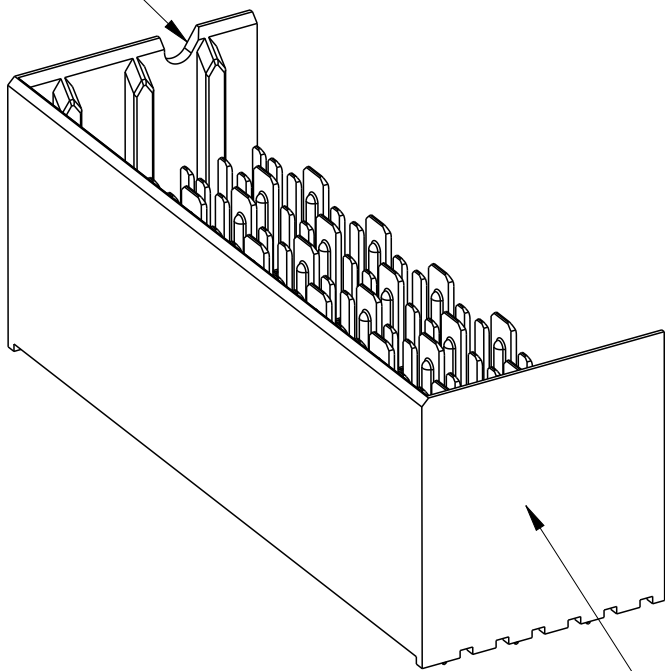
PDS: Rev :G

STATUS:Released

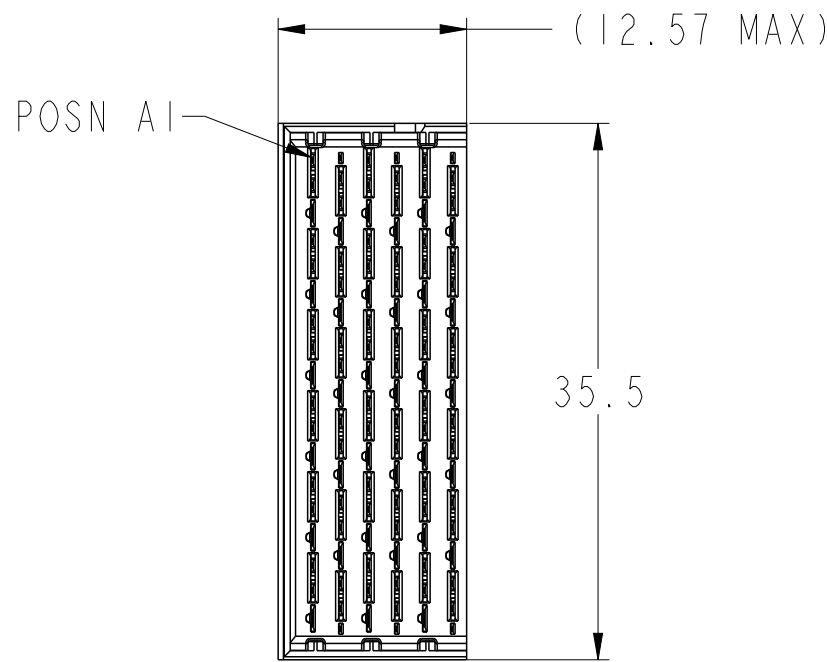
Printed: Jun 05, 2017

LEFT WALL MODULE

SEE NOTE 8

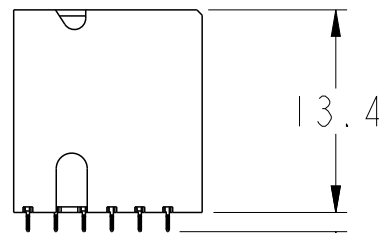
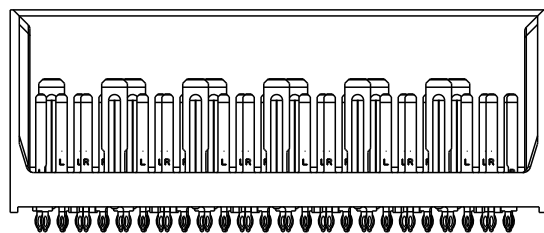
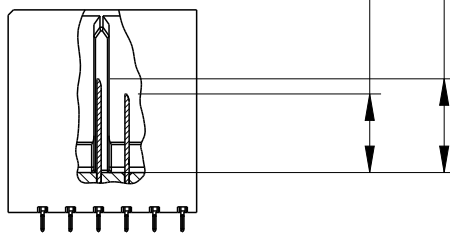


SEE NOTE 5

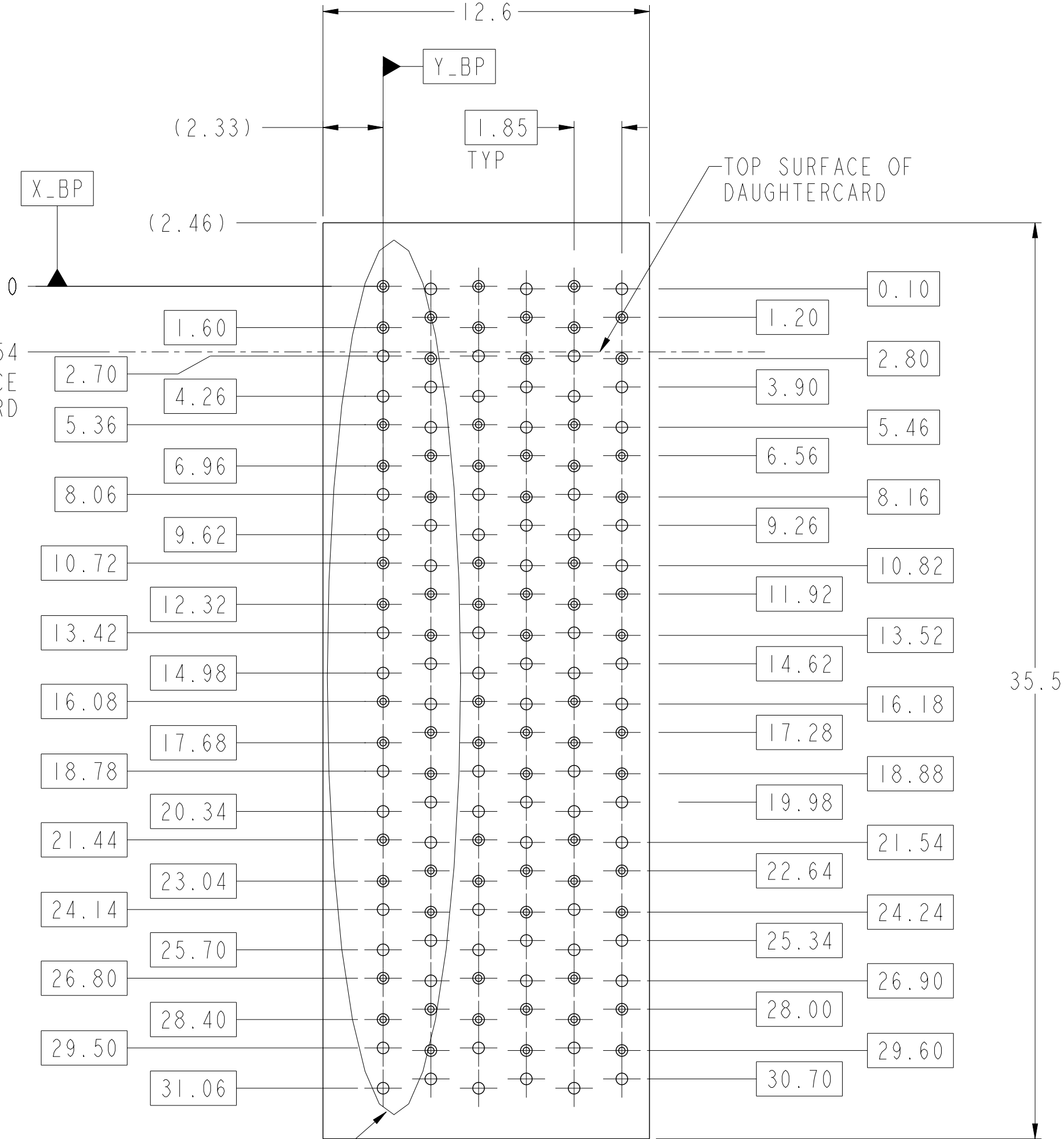


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

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

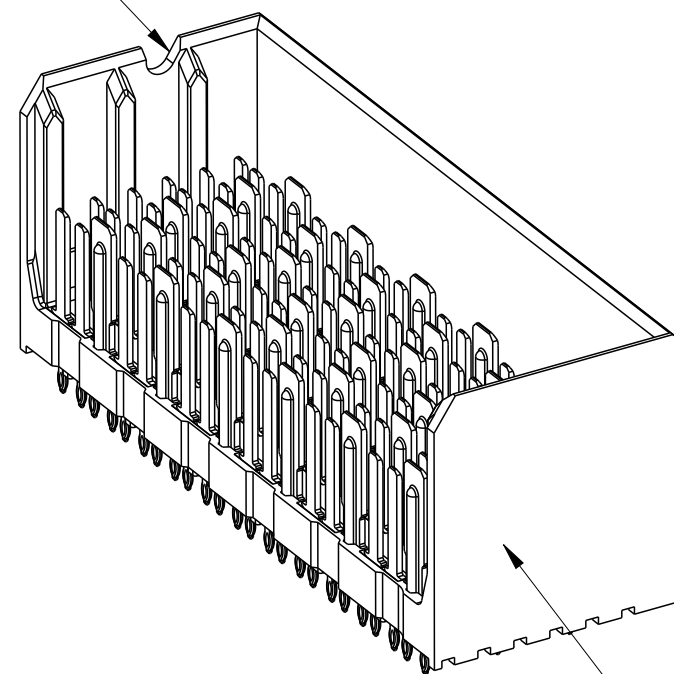
PDS: Rev :G

STATUS:Released

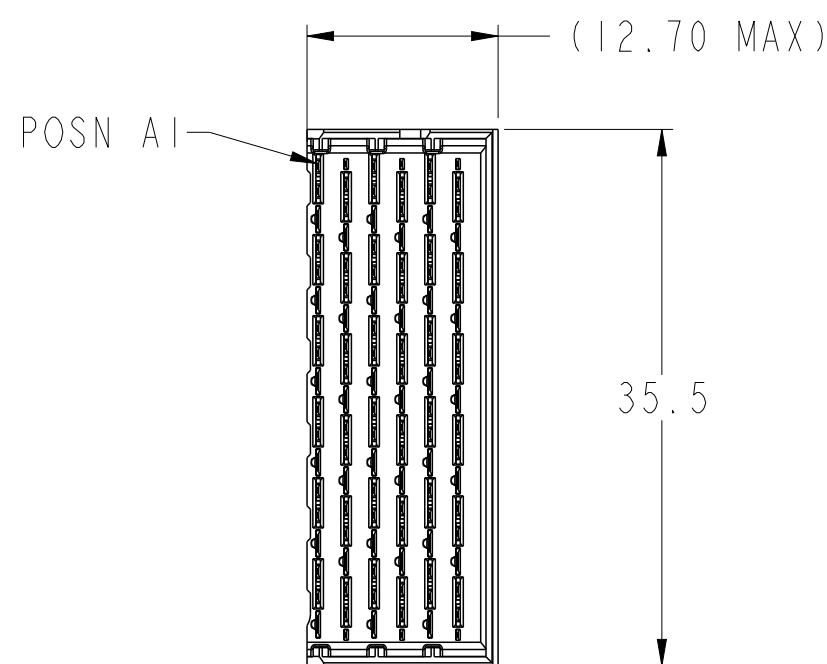
Printed: Jun 05, 2017

RIGHT WALL MODULE

SEE NOTE 8



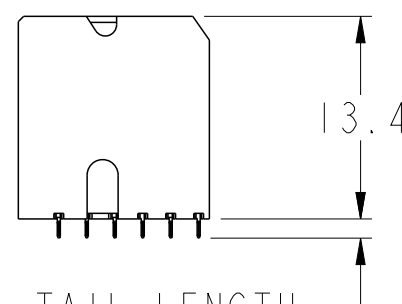
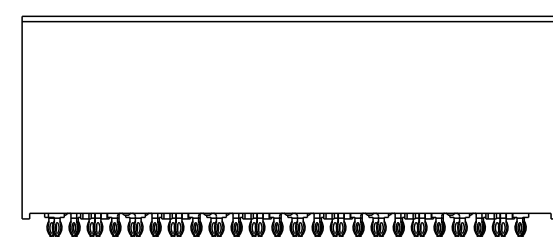
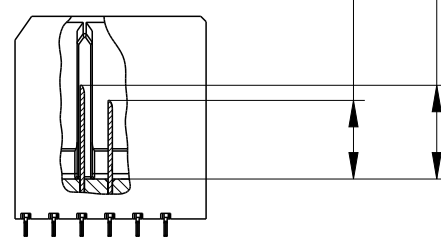
SEE NOTE 5



SCALE 2:1

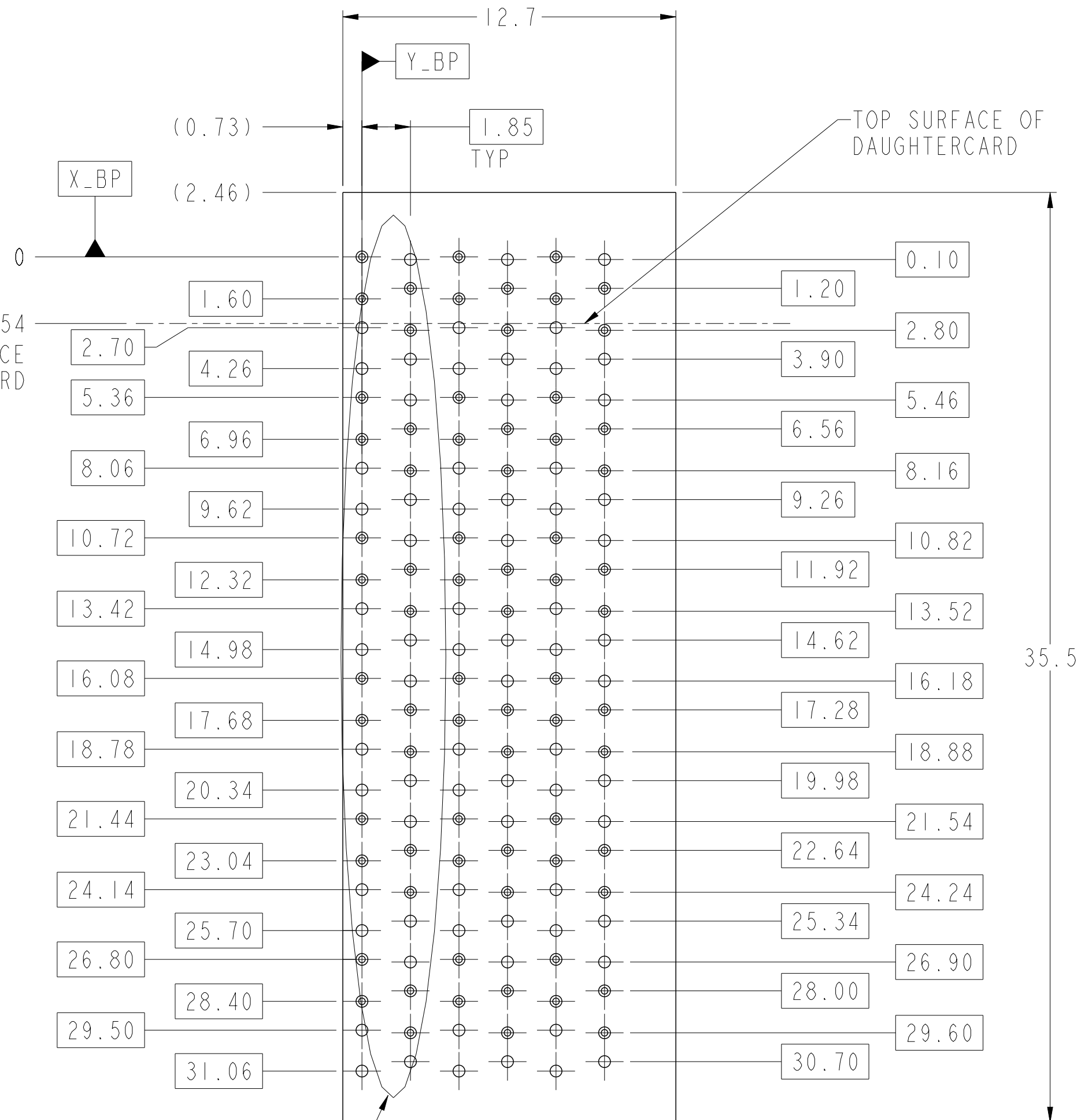
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(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)

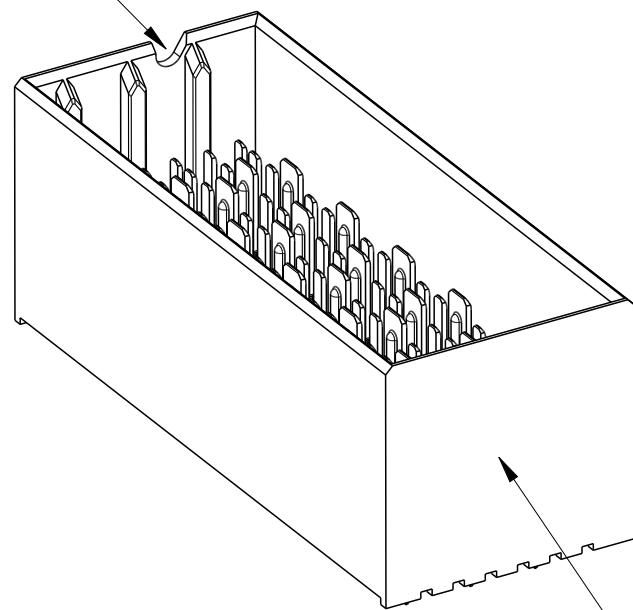
NOMINAL MODULE OUTLINE

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	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	0.X ±0.2	Amphenol FCI	title	MODULE ASSEMBLY			dwg no	10104997	rev
			0.XX ±0.10								
ASME Y14.5		angular	0° ±°			cat. no.	SEE P/N TREE	Product - Customer Drw			sheet 6 of 8

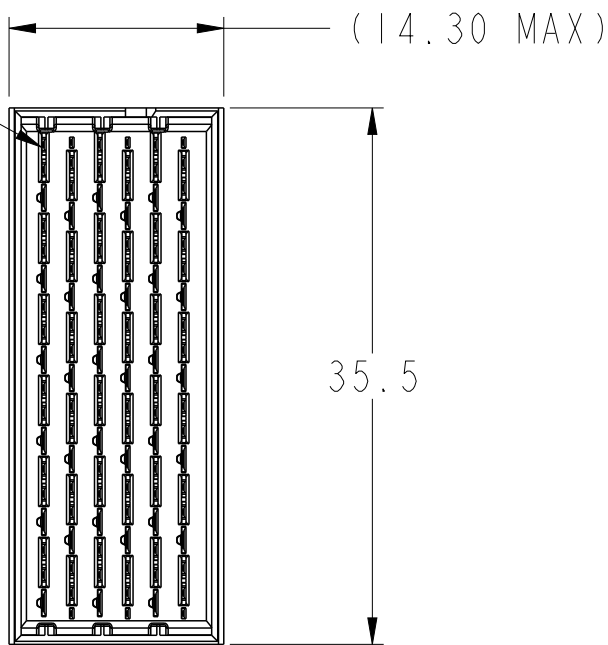
FOUR WALL MODULE

SEE NOTE 8



SEE NOTE 5

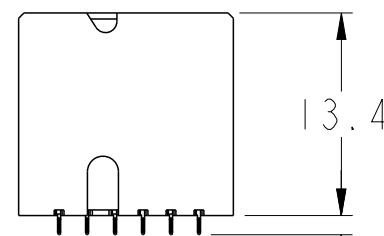
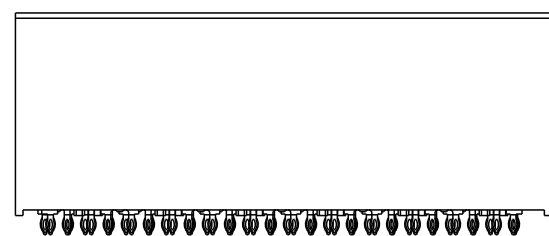
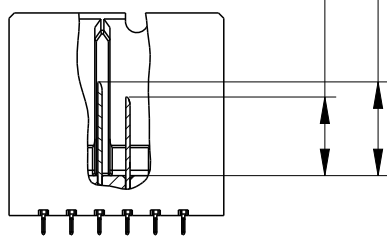
POSN A1



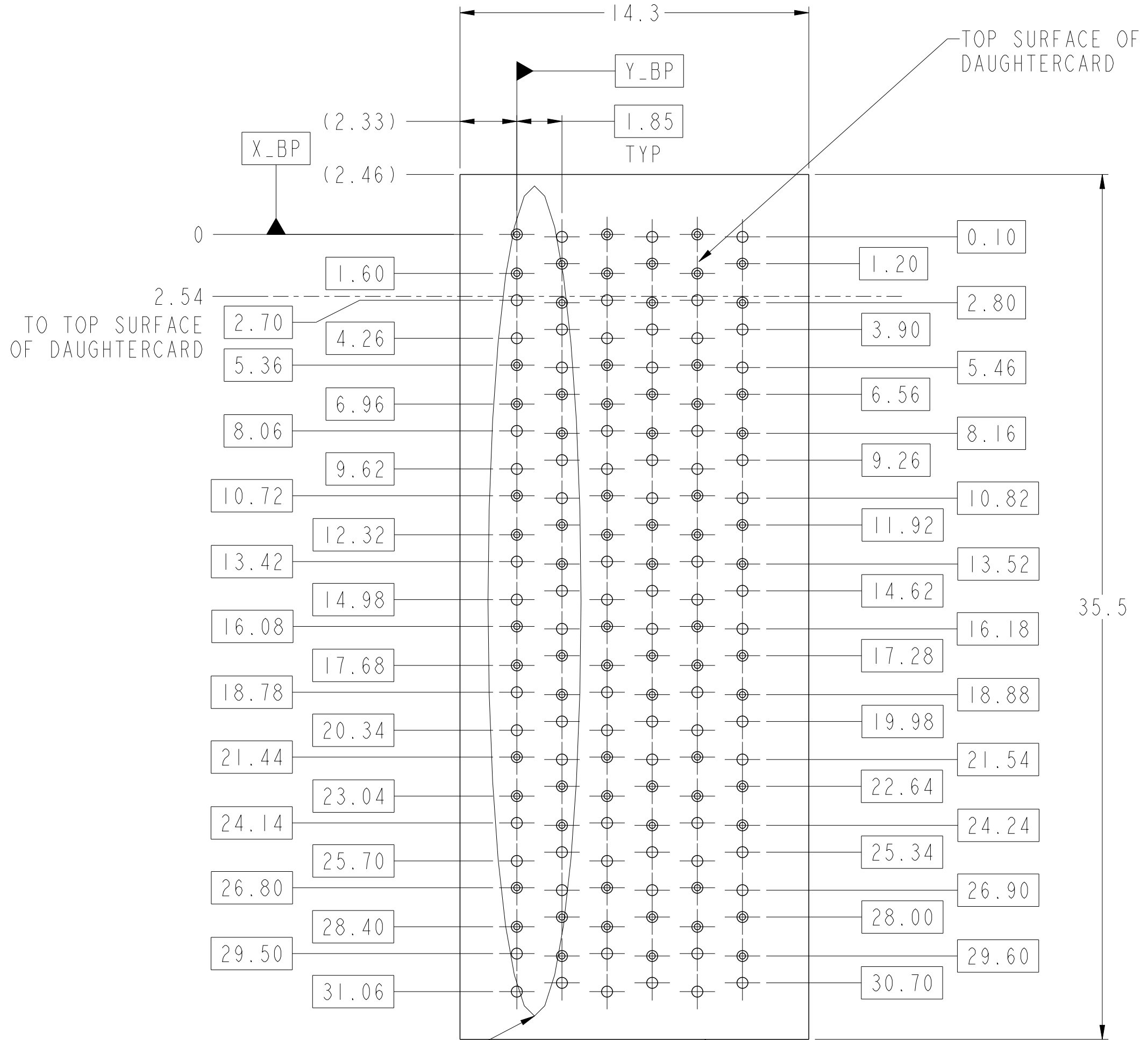
6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)

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

Amphenol FCI

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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.

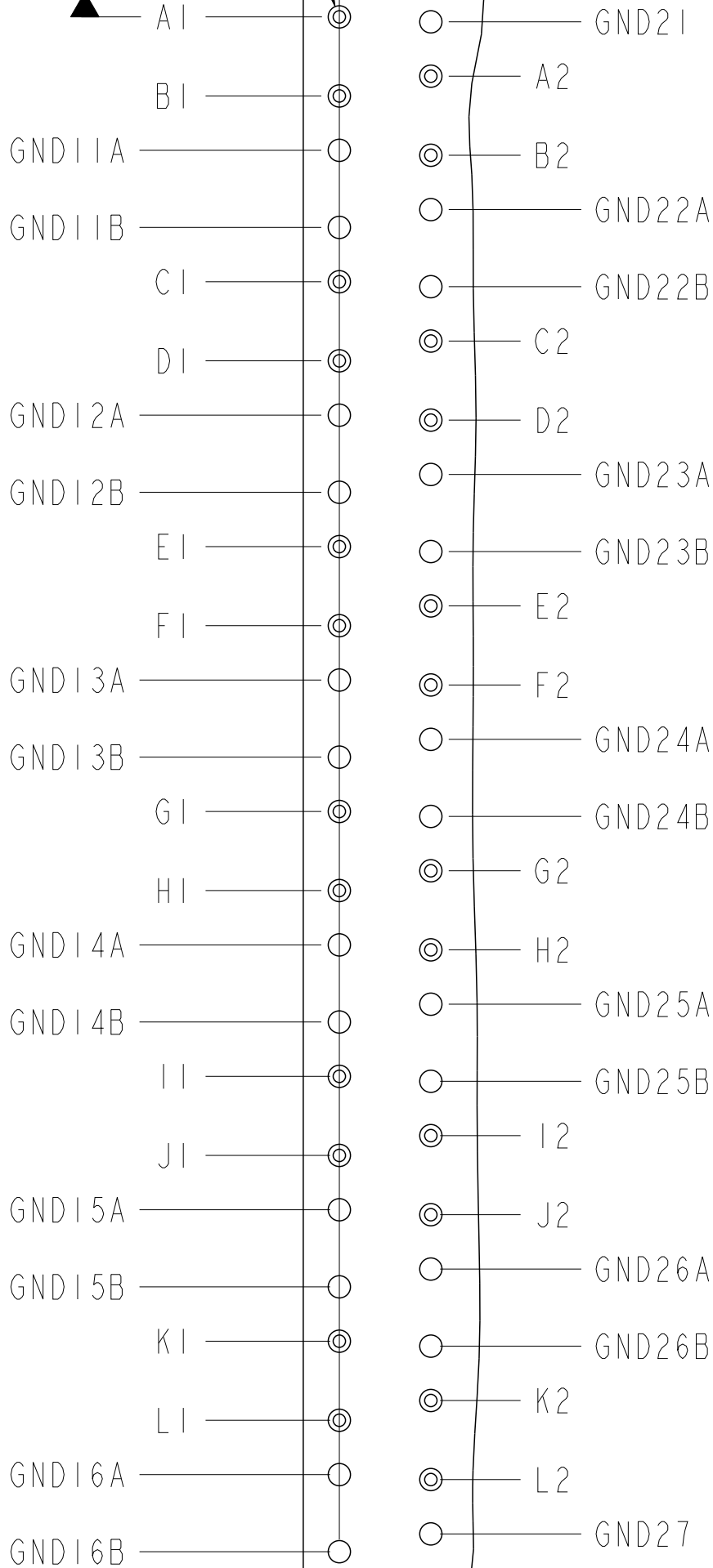
PRESS-FIT TAILS: TIN OVER NICKEL, OR TIN-LEAD ALLOY OVER NICKEL. SEE P/N TREE.
- PRODUCT SPECIFICATION: GS-12-588
- APPLICATION SPECIFICATION: GS-20-121
- PRODUCT MARKING (PART NUMBER AND LOT CODE) ON THESE SURFACES.
- HOUSING MUST WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 40 SECONDS IN A CONVECTION, 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

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

X_BP

Y_BP



DETAIL A
SCALE 8:1

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

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

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								product family		-		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 8 of 8								

Mouser Electronics

Authorized Distributor

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FCI / Amphenol:

<u>10104997-00C-10B</u>	<u>10104997-00C-10DLF</u>	<u>10104997-00C-20B</u>	<u>10104997-00C-20DLF</u>	<u>10104997-00C-30B</u>
<u>10104997-00C-30DLF</u>	<u>10104997-00C-40B</u>	<u>10104997-00C-40DLF</u>	<u>10104997-00C-50B</u>	<u>10104997-00C-50DLF</u>
<u>10104997-00C-60B</u>	<u>10104997-00C-60DLF</u>	<u>10104997-00C-70B</u>	<u>10104997-00C-70DLF</u>	<u>10104997-00C-80B</u>
<u>10104997-00C-80DLF</u>	<u>10104997-10C-10B</u>	<u>10104997-10C-10DLF</u>	<u>10104997-10C-20B</u>	<u>10104997-10C-20DLF</u>
<u>10104997-10C-30B</u>	<u>10104997-10C-30DLF</u>	<u>10104997-10C-40B</u>	<u>10104997-10C-40DLF</u>	<u>10104997-10C-50B</u>
<u>10104997-10C-50DLF</u>	<u>10104997-10C-60B</u>	<u>10104997-10C-60DLF</u>	<u>10104997-10C-70B</u>	<u>10104997-10C-70DLF</u>
<u>10104997-10C-80B</u>	<u>10104997-10C-80DLF</u>	<u>10104997-A0C-10B</u>	<u>10104997-A0C-10DLF</u>	<u>10104997-A0C-20B</u>
<u>10104997-A0C-20DLF</u>	<u>10104997-A0C-30B</u>	<u>10104997-A0C-30DLF</u>	<u>10104997-A0C-40B</u>	<u>10104997-A0C-40DLF</u>
<u>10104997-A0C-50B</u>	<u>10104997-A0C-50DLF</u>	<u>10104997-A0C-60B</u>	<u>10104997-A0C-60DLF</u>	<u>10104997-A0C-70B</u>
<u>10104997-A0C-70DLF</u>	<u>10104997-A0C-80B</u>	<u>10104997-A0C-80DLF</u>	<u>10104997-B0C-10B</u>	<u>10104997-B0C-10DLF</u>
<u>10104997-B0C-20B</u>	<u>10104997-B0C-20DLF</u>	<u>10104997-B0C-30B</u>	<u>10104997-B0C-30DLF</u>	<u>10104997-B0C-40B</u>
<u>10104997-B0C-40DLF</u>	<u>10104997-B0C-50B</u>	<u>10104997-B0C-50DLF</u>	<u>10104997-B0C-60B</u>	<u>10104997-B0C-60DLF</u>
<u>10104997-B0C-70B</u>	<u>10104997-B0C-70DLF</u>	<u>10104997-B0C-80B</u>	<u>10104997-B0C-80DLF</u>	<u>10104997-C0C-10B</u>
<u>10104997-C0C-10DLF</u>	<u>10104997-C0C-20B</u>	<u>10104997-C0C-20DLF</u>	<u>10104997-C0C-30B</u>	<u>10104997-C0C-30DLF</u>
<u>10104997-C0C-40B</u>	<u>10104997-C0C-40DLF</u>	<u>10104997-C0C-50B</u>	<u>10104997-C0C-50DLF</u>	<u>10104997-C0C-60B</u>
<u>10104997-C0C-60DLF</u>	<u>10104997-C0C-70B</u>	<u>10104997-C0C-70DLF</u>	<u>10104997-C0C-80B</u>	<u>10104997-C0C-80DLF</u>
<u>10104997-D0C-10B</u>	<u>10104997-D0C-10DLF</u>	<u>10104997-D0C-20B</u>	<u>10104997-D0C-20DLF</u>	<u>10104997-D0C-30B</u>
<u>10104997-D0C-30DLF</u>	<u>10104997-D0C-40B</u>	<u>10104997-D0C-40DLF</u>	<u>10104997-D0C-50B</u>	<u>10104997-D0C-50DLF</u>
<u>10104997-D0C-60B</u>	<u>10104997-D0C-60DLF</u>	<u>10104997-D0C-70B</u>	<u>10104997-D0C-70DLF</u>	<u>10104997-D0C-80B</u>
<u>10104997-D0C-80DLF</u>	<u>10104997-E0C-10B</u>	<u>10104997-E0C-10DLF</u>	<u>10104997-E0C-20B</u>	<u>10104997-E0C-20DLF</u>