

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

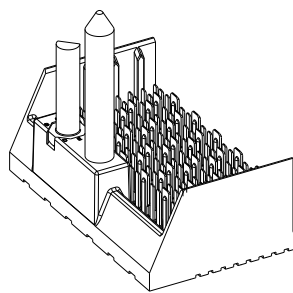
D

E

F

G

H



RIGHT
POLARIZING
GUIDANCE
MODULE
(SEE SHEET 4)

Y

P

Q

R

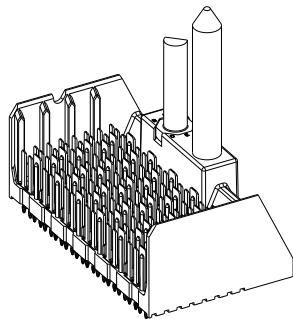
S

T

U

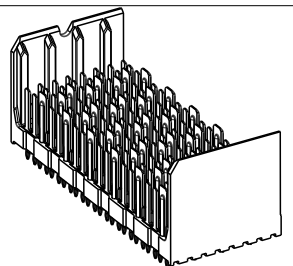
V

W



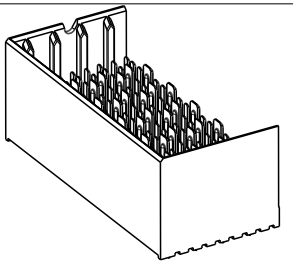
OPEN MODULE
(TWO WALL)
(SEE SHEET 2)

0 (ZERO)



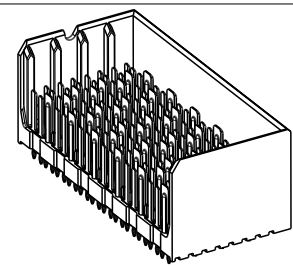
LEFT WALL
MODULE
(SEE SHEET 5)

L



RIGHT WALL
MODULE
(SEE SHEET 6)

M



FOUR WALL
MODULE
(SEE SHEET 7)

1

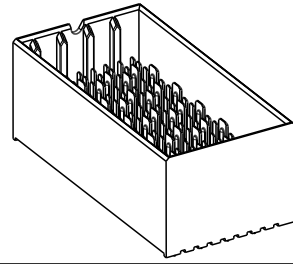


TABLE 1: OPTIONAL PCB HOLE SIZE (SEE NOTE 11)

	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

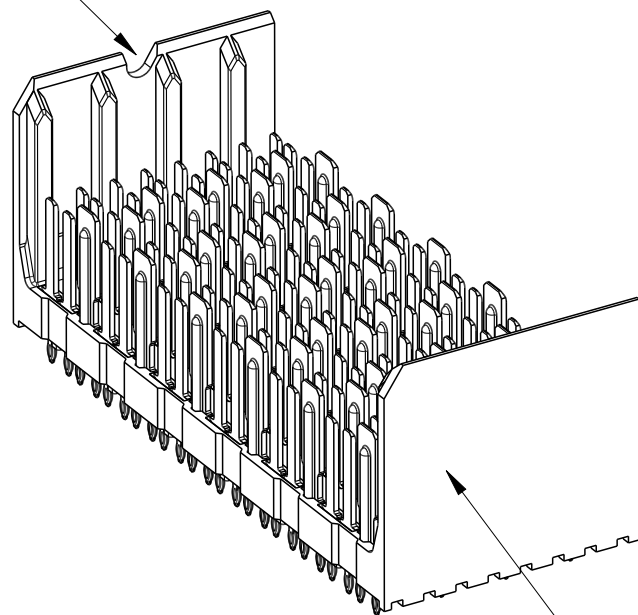
TABLE 2: OPTIONAL SCREW TYPE (SEE NOTE 10)

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						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		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 1 of 8					

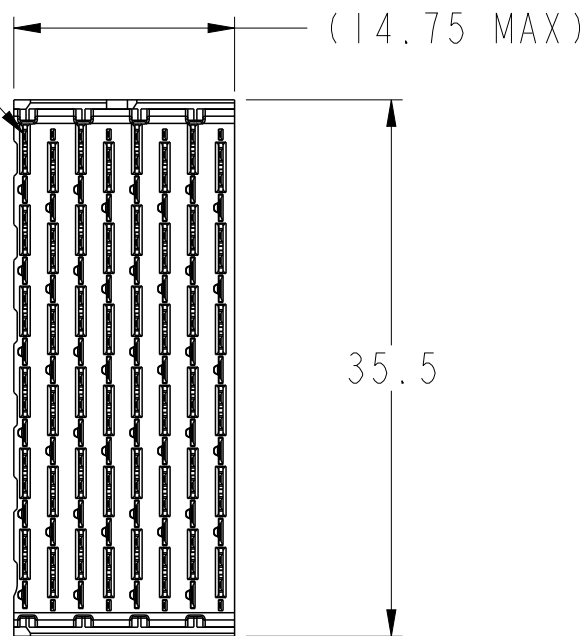
OPEN (2-WALL) MODULE

SEE NOTE 8



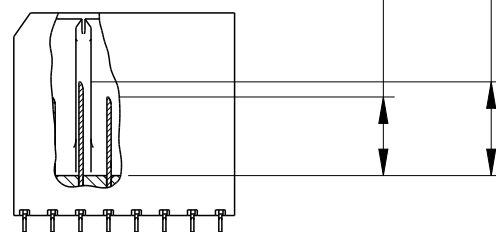
SEE NOTE 5

POSN A1

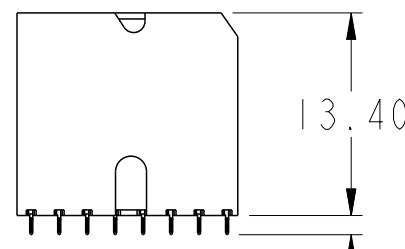
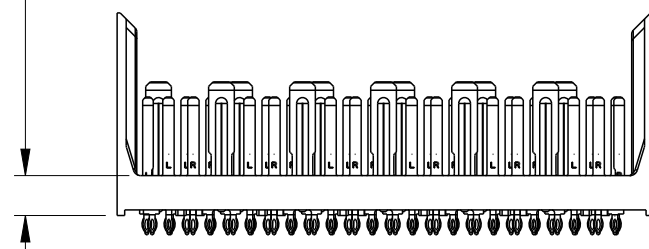


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)

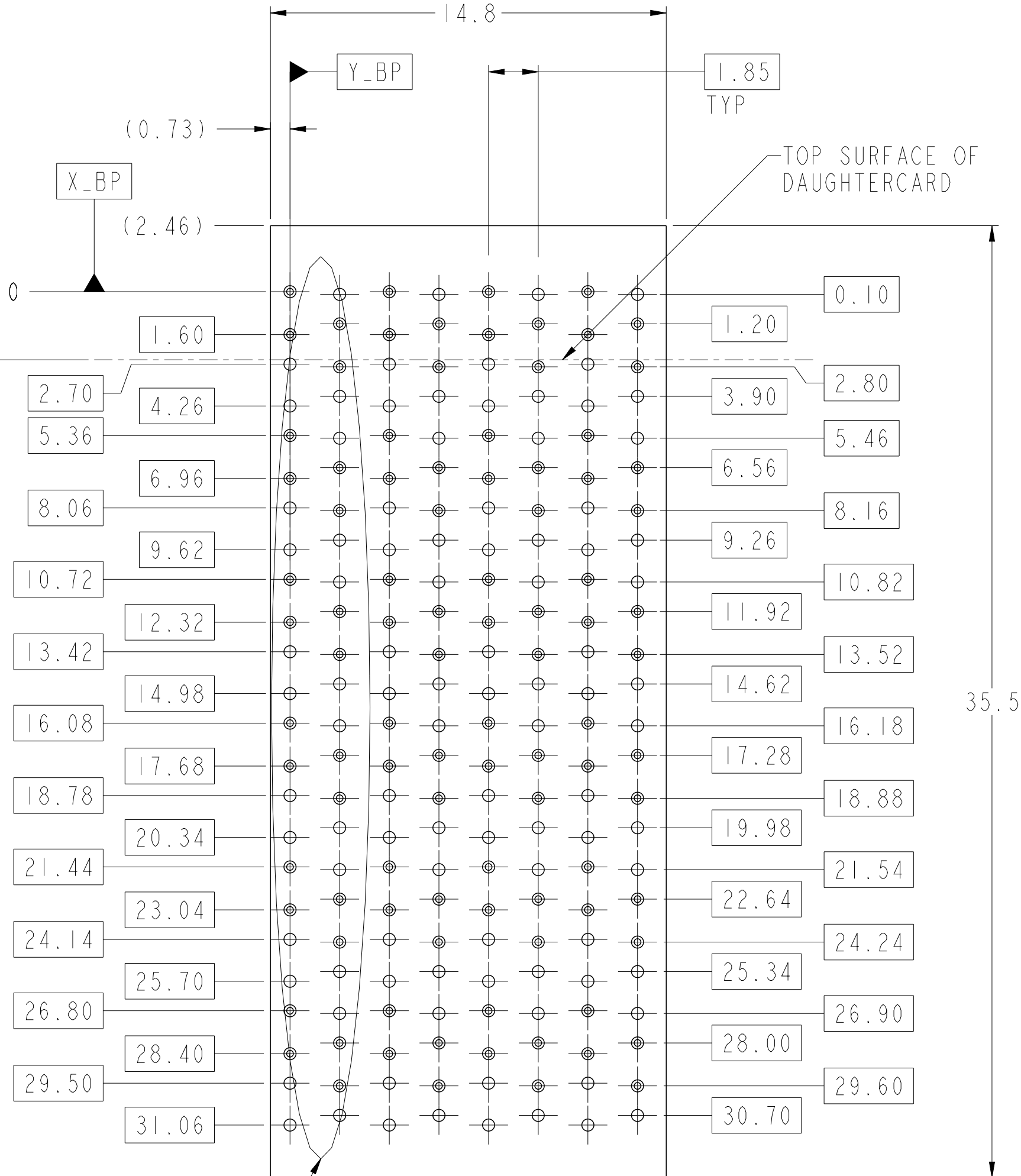


2.64±0.10 FROM STANDOFF SURFACE TO MATING SURFACE



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

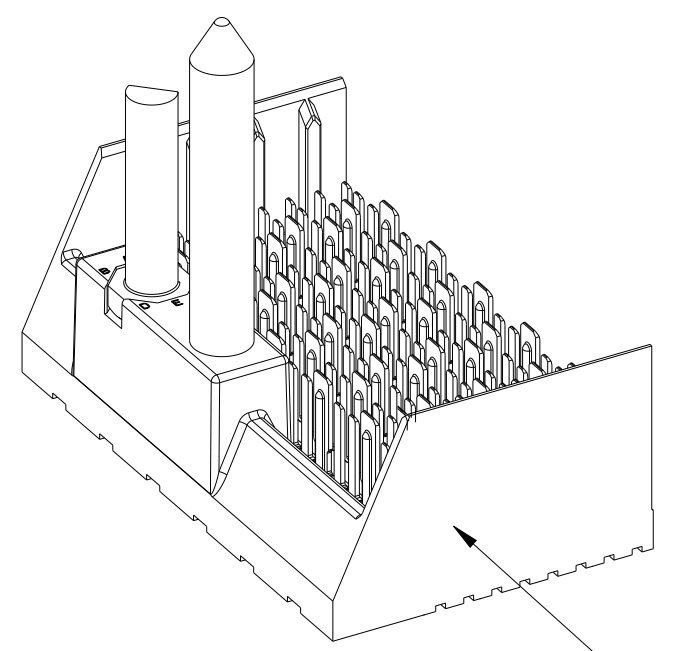
spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/24		projection		MM		size		A2		scale		3:1								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2016/06/06						ecn no		ELX-DG-24191-1												
ASME Y14.5					chr		Heaven Cen		2016/06/08						rel level		Released												
		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																							

PDS: Rev :E

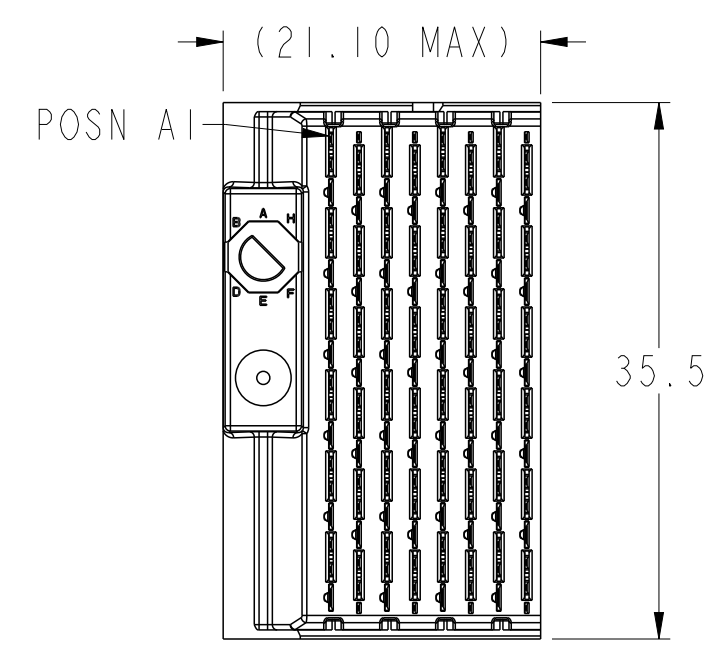
STATUS:Released

Printed: Jun 15, 2016

LEFT POLARIZING/GUIDE MODULE

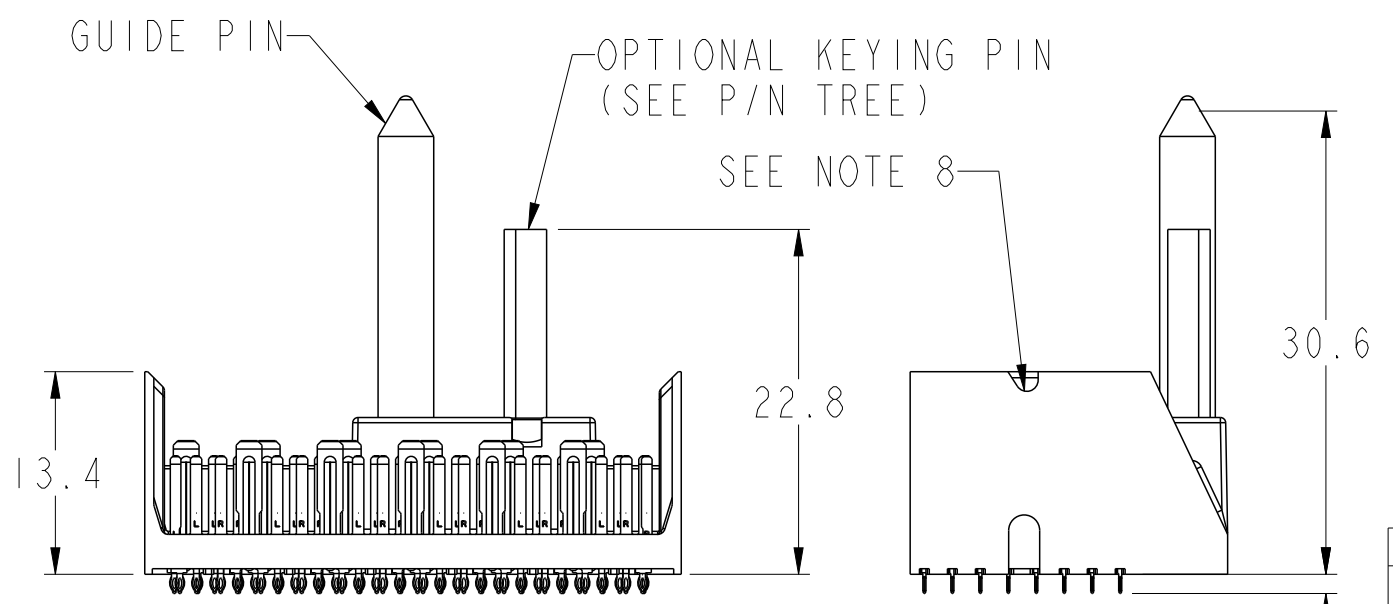
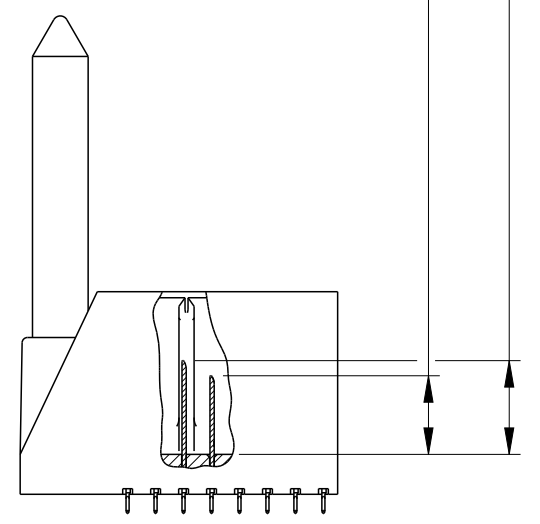


SEE NOTE 5

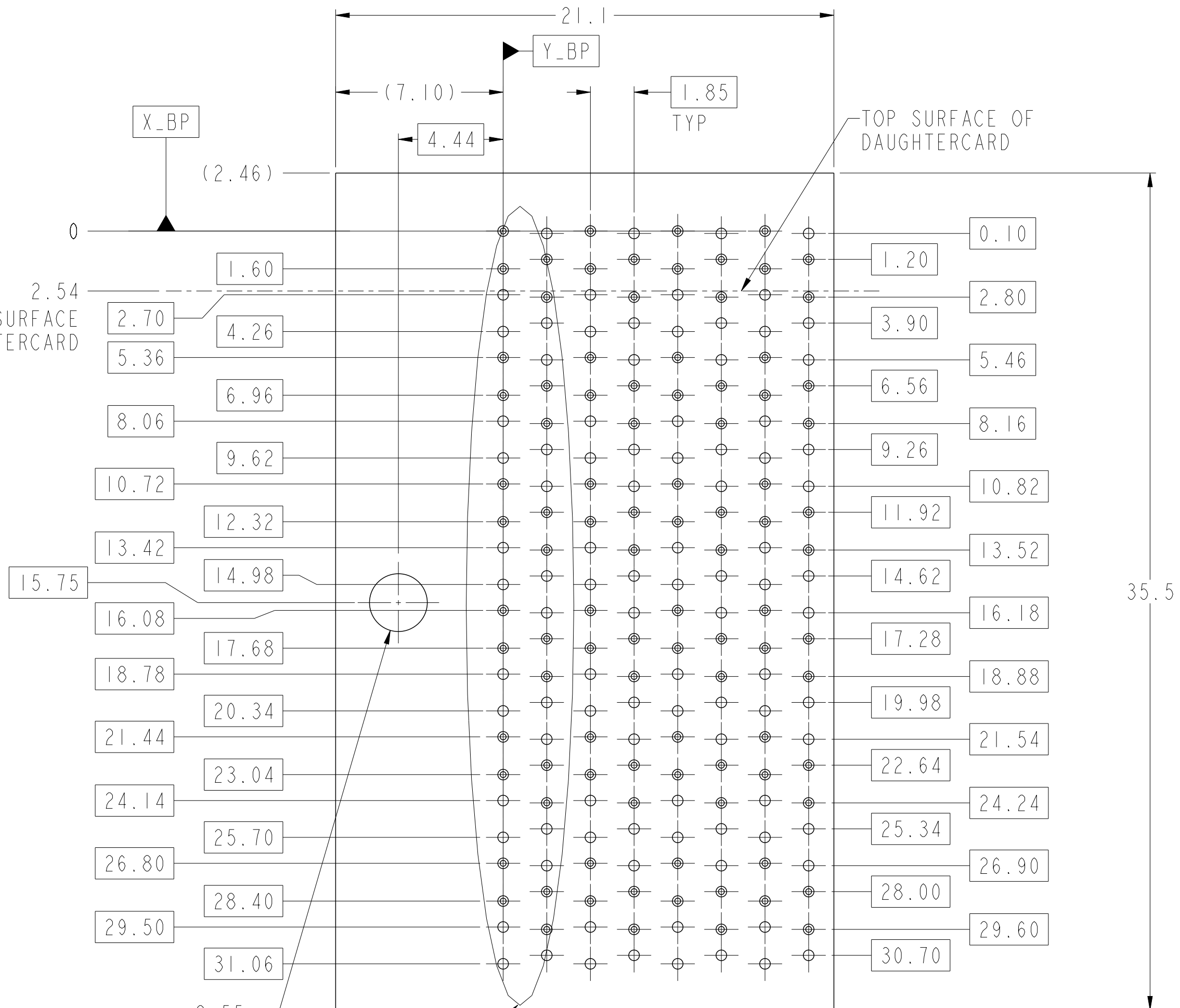


- 6.2 (4MM WIPE WIDE GROUNDS)
- 5.2 (3MM WIPE WIDE GROUNDS)
- 5.2 (3MM SMALL END GROUNDS)
- 5.2 (3MM WIPE SIGNALS)
- 4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)



TAIL LENGTH
SEE NOTE 12



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

SEE NOTE 11 & TABLE 1

SEE DETAIL A
(SHEET 8)

PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

spec ref		SEE NOTES			dr		Kok-Hoe Lee		2010/06/24		projection		MM		size		A2		scale		3:1												
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Michael Song		2016/06/06						ecm 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		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 3 of 8											

PDS: Rev :E

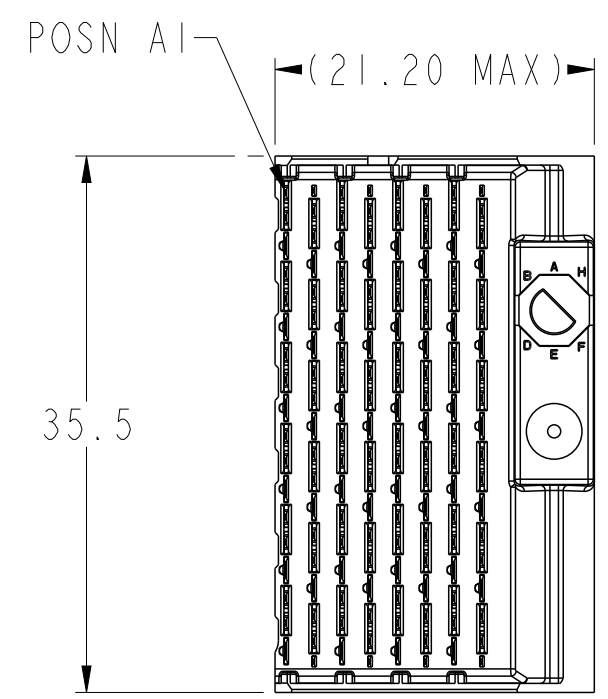
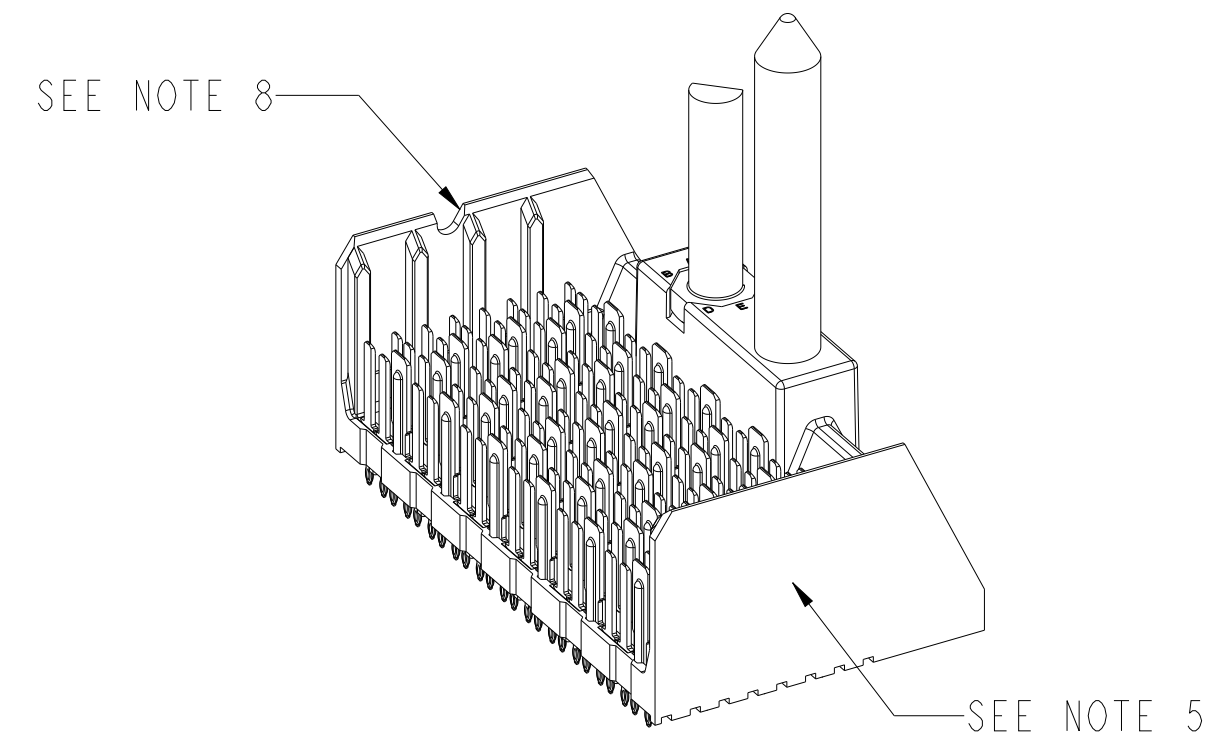
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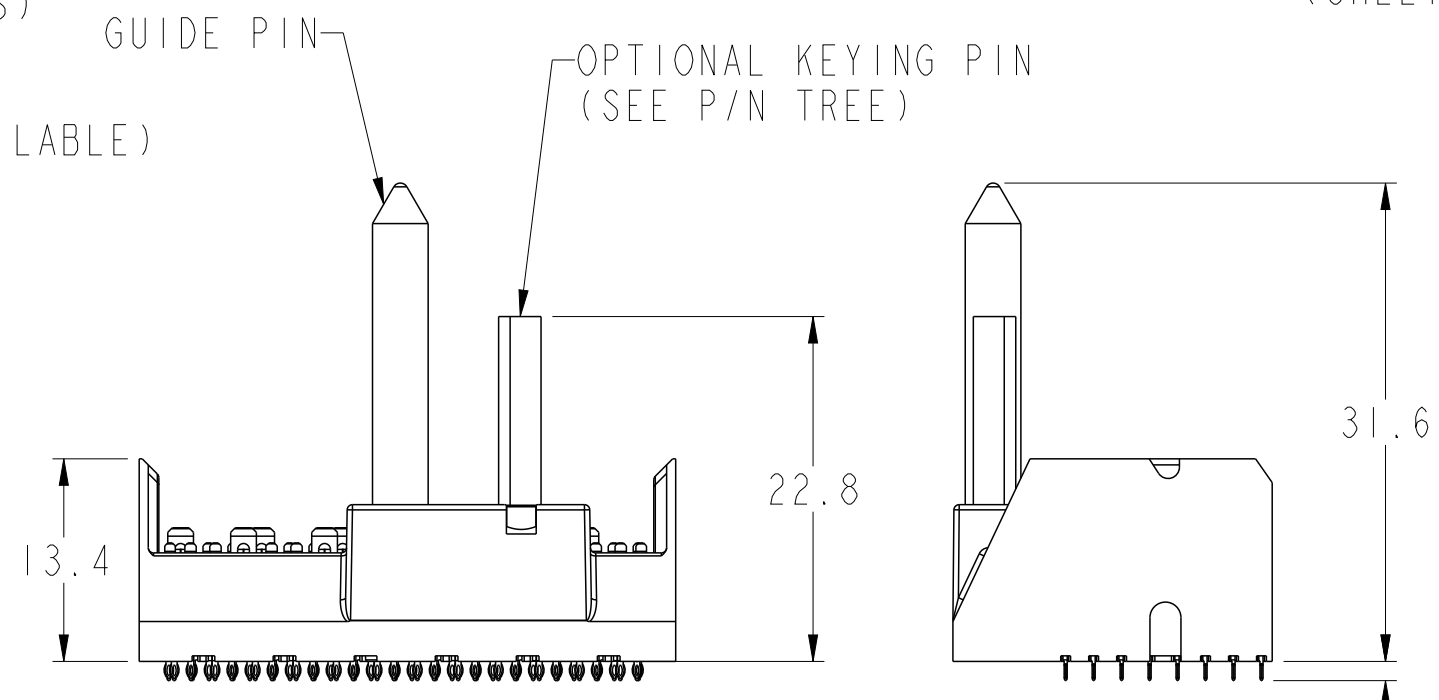
Amphenol
FCi

© 2016 AFCi

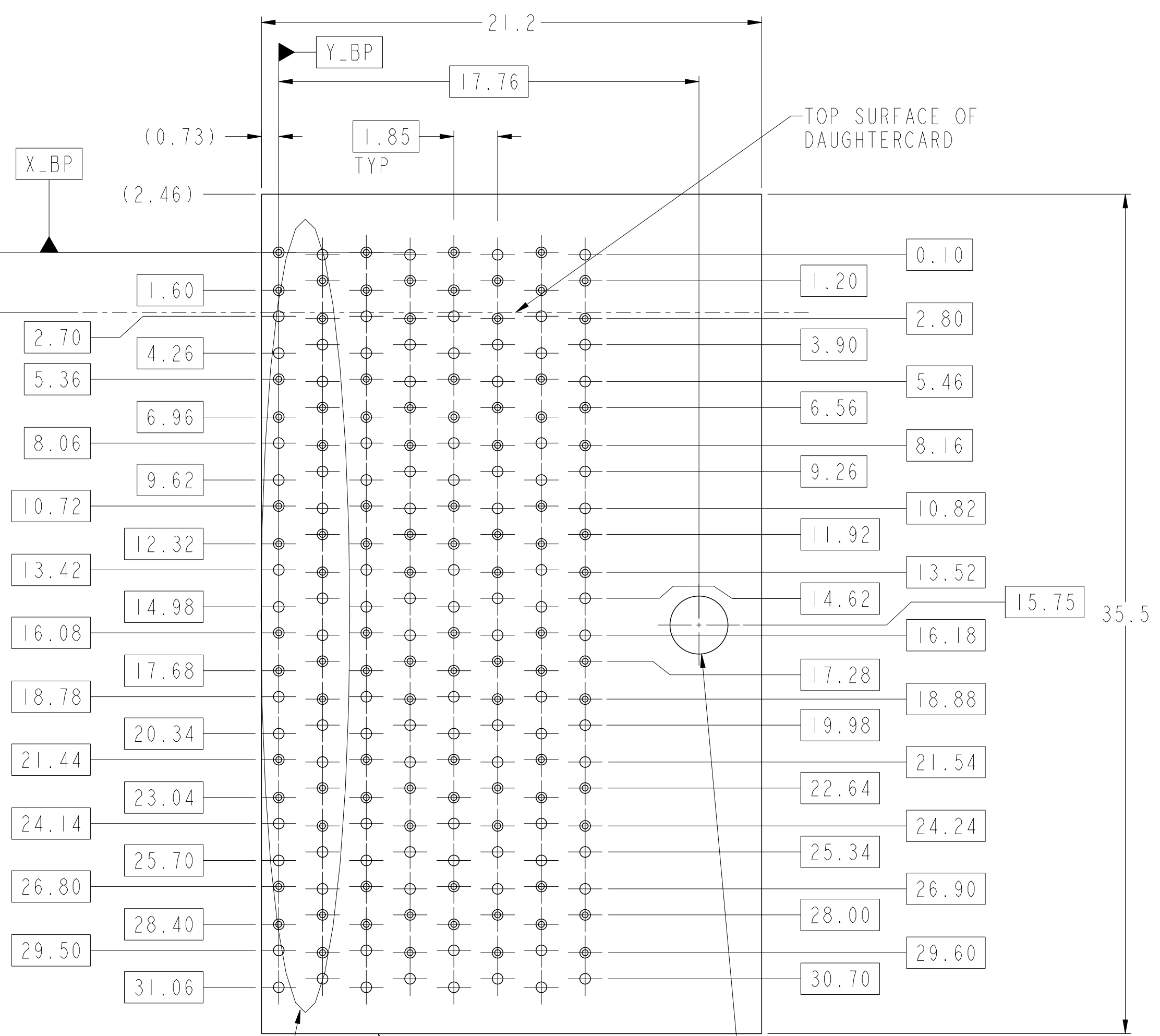
RIGHT POLARIZING/GUIDE MODULE



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



TOP SURFACE OF
DAUGHTERCARD

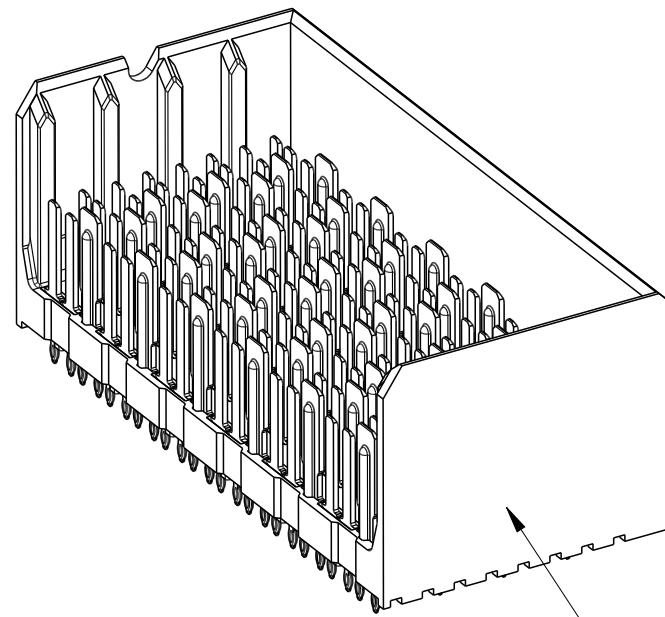
SEE DETAIL A
(SHEET 8)

NOMINAL MODULE OUTLINE
PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

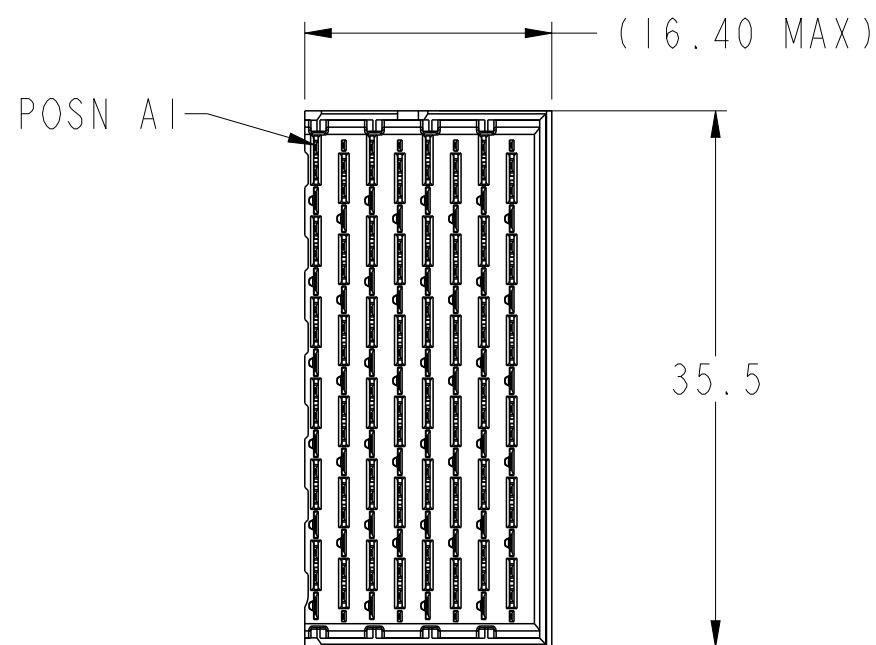
Ø 2.55
Ø 2.35
Ø 0.10 X_BP Y_BP
SEE NOTE 11 & TABLE 1

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	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 4 of 8			

RIGHT WALL MODULE



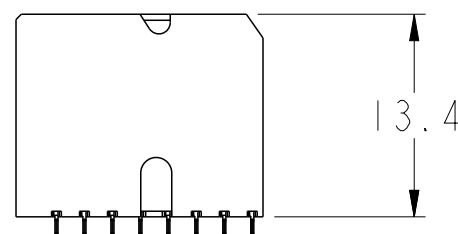
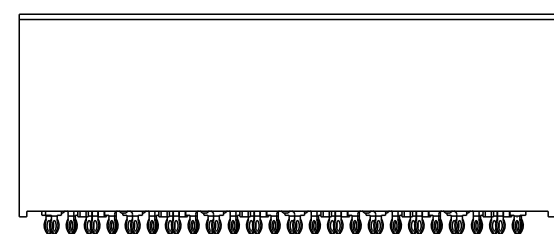
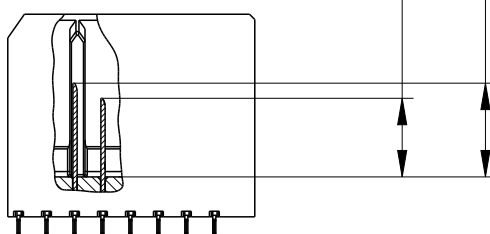
SEE NOTE 5



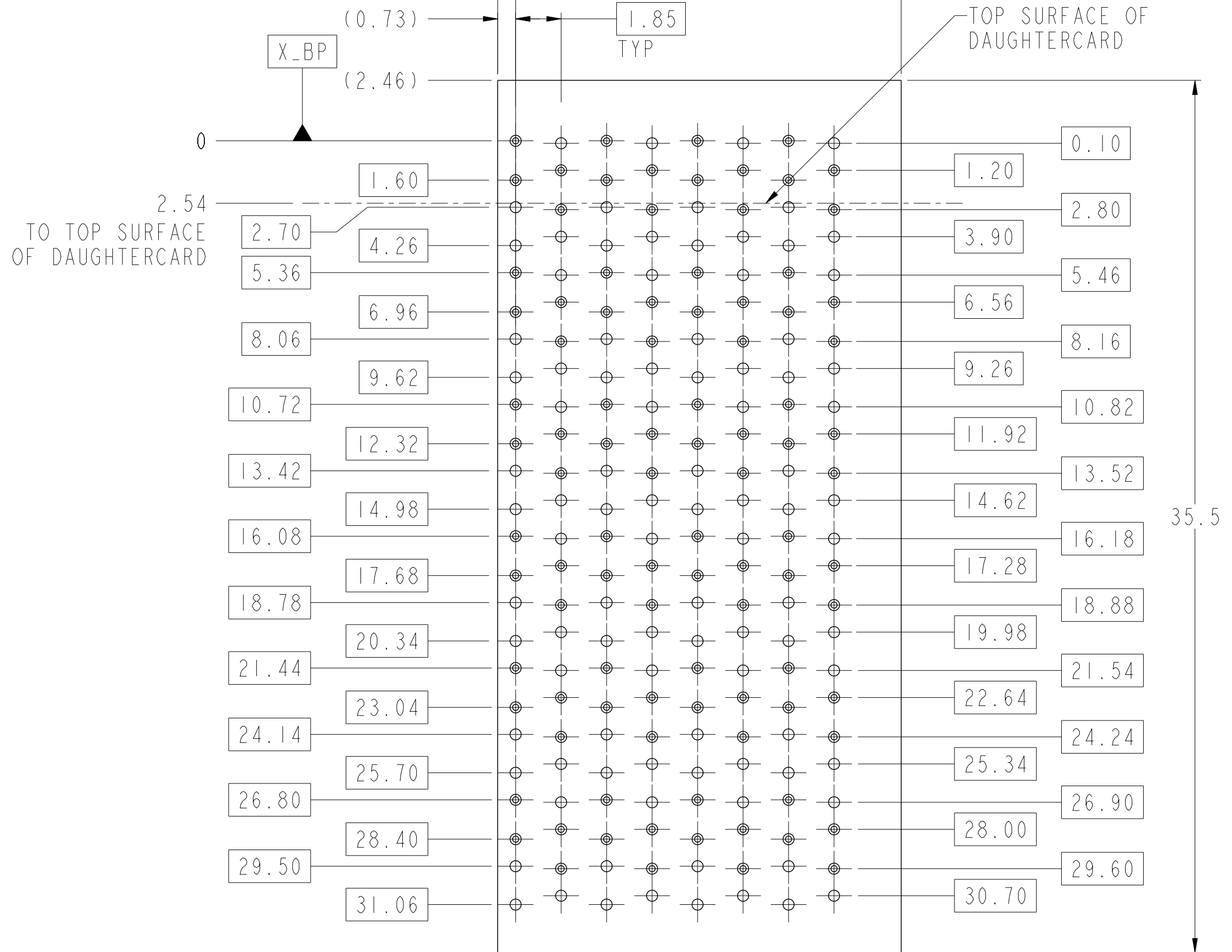
SCALE 2:1

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		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																											
				0.XXX		±0.050																											
ASME Y14.5		angular		0°		±°						cat. no.		SEE P/N TREE				Product - Customer Drw								sheet 6 of 8							

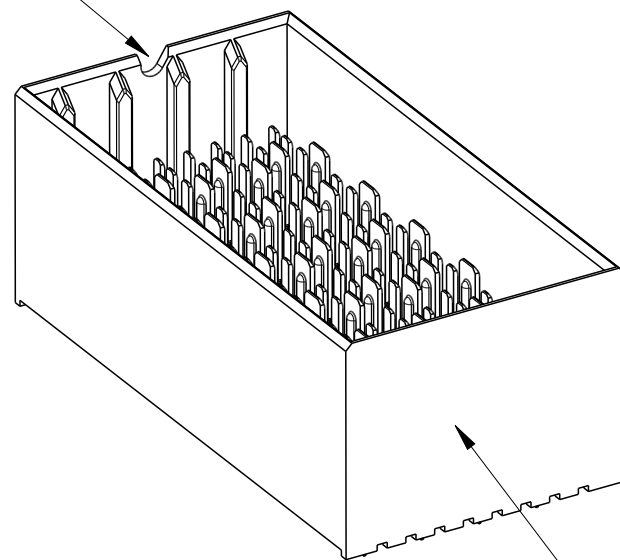
PDS: Rev :E

STATUS:Released

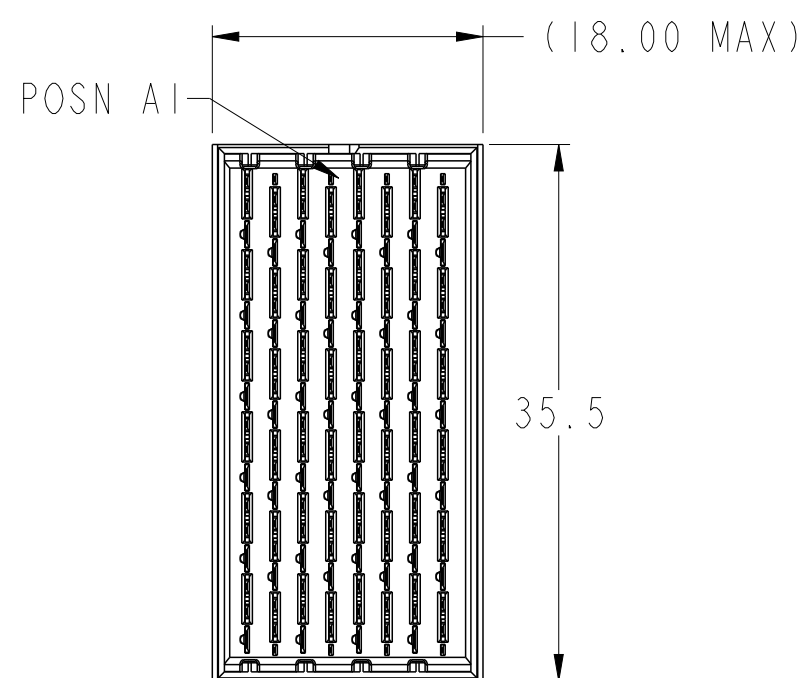
Printed: Jun 15, 2016

FOUR WALL MODULE

SEE NOTE 8

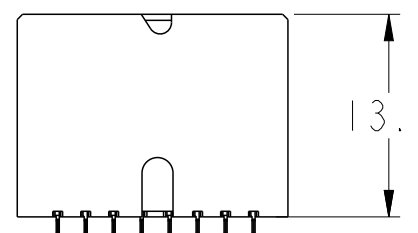
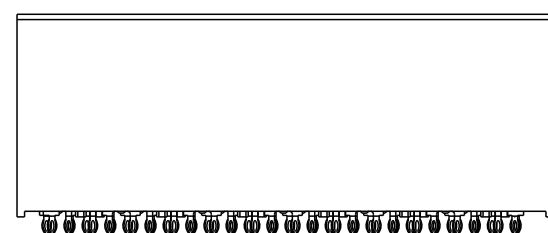
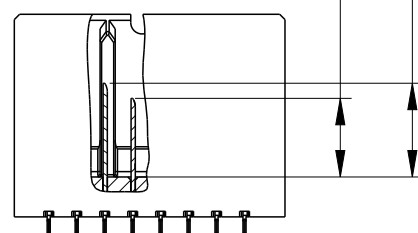


SEE NOTE 5

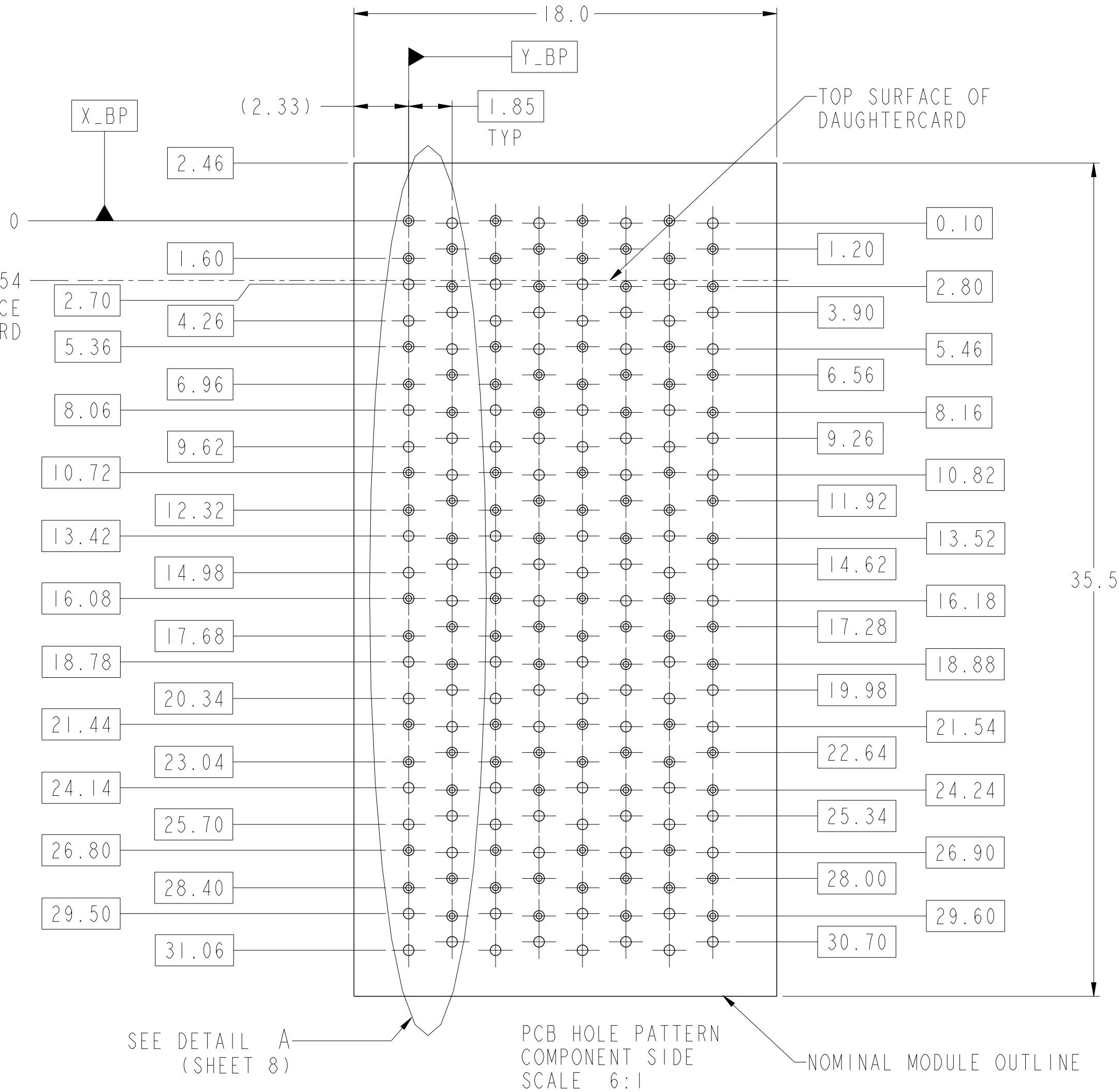


6.2 (4MM WIPE WIDE GROUNDS)
5.2 (3MM WIPE WIDE GROUNDS)
5.2 (3MM SMALL END GROUNDS)
5.2 (3MM WIPE SIGNALS)
4.2 (2MM WIPE SIGNALS)

(SEE P/N TREE FOR ALL COMBINATIONS AVAILABLE)

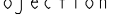


TAIL LENGTH
SEE NOTE 12



PCB HOLE PATTERN
COMPONENT SIDE
SCALE 6:1

NOMINAL MODULE OUTLINE

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									
surface		linear	0.X	±0.2	Amphenol FCI	title					MODULE ASSEMBLY	dwg no	10104999		rev	E
			0.XX	±0.10		VERTICAL HEADER, 8-COLUMN, 6-PAIR										
ASME Y14.5		angular	0°	±°		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

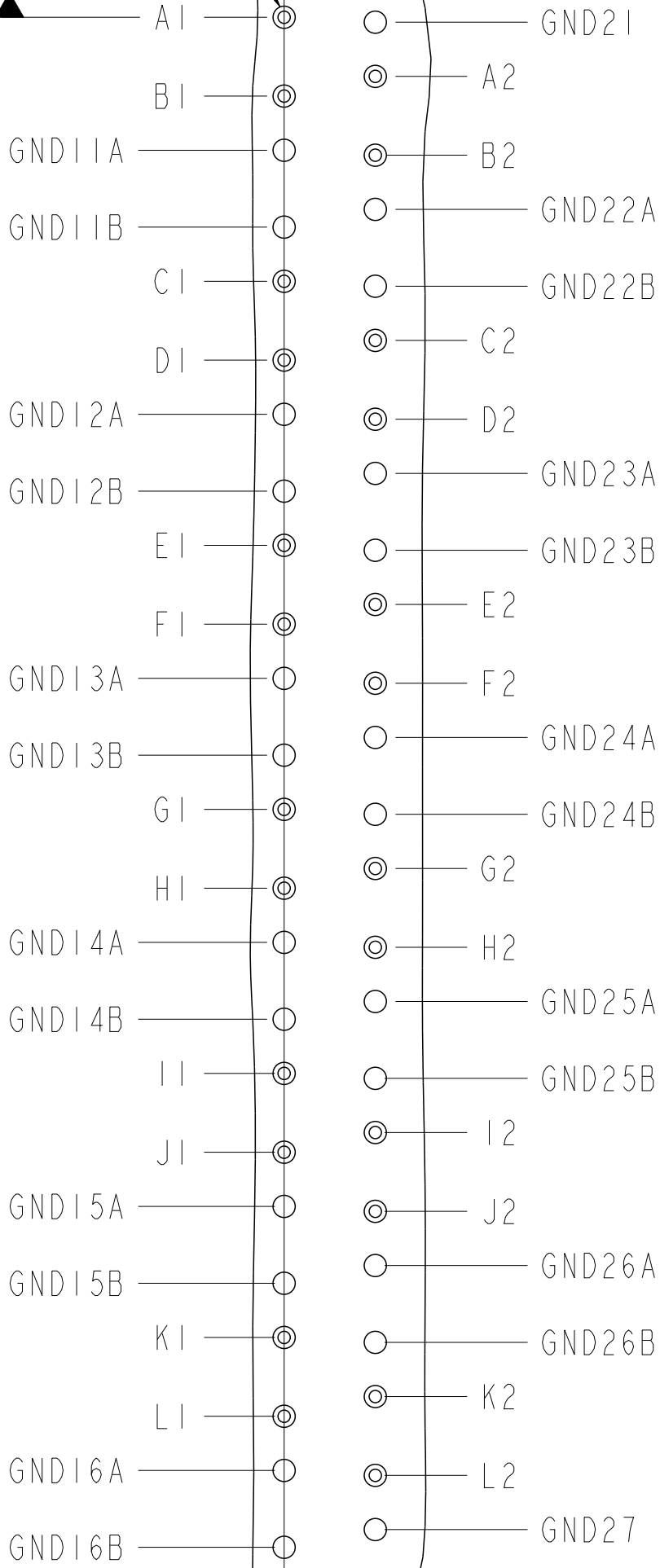
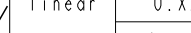


TABLE 3: PTH AND PAD SIZES WITH REFERENCE TO COMPLIANT PIN DRILL

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		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 8 of 8													

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

FCI / Amphenol:

[10104999-00E-10B](#) [10104999-00E-10DLF](#) [10104999-00E-20B](#) [10104999-00E-20DLF](#) [10104999-00E-30B](#)
[10104999-00E-30DLF](#) [10104999-00E-40B](#) [10104999-00E-40DLF](#) [10104999-00E-50B](#) [10104999-00E-50DLF](#)
[10104999-00E-60B](#) [10104999-00E-60DLF](#) [10104999-00E-70B](#) [10104999-00E-70DLF](#) [10104999-00E-80B](#) [10104999-](#)
[00E-80DLF](#) [10104999-10E-10B](#) [10104999-10E-10DLF](#) [10104999-10E-20B](#) [10104999-10E-20DLF](#) [10104999-10E-](#)
[30B](#) [10104999-10E-30DLF](#) [10104999-10E-40B](#) [10104999-10E-40DLF](#) [10104999-10E-50B](#) [10104999-10E-50DLF](#)
[10104999-10E-60B](#) [10104999-10E-60DLF](#) [10104999-10E-70B](#) [10104999-10E-70DLF](#) [10104999-10E-80B](#) [10104999-](#)
[10E-80DLF](#) [10104999-A0E-10B](#) [10104999-A0E-10DLF](#) [10104999-A0E-20B](#) [10104999-A0E-20DLF](#) [10104999-A0E-](#)
[30B](#) [10104999-A0E-30DLF](#) [10104999-A0E-40B](#) [10104999-A0E-40DLF](#) [10104999-A0E-50B](#) [10104999-A0E-50DLF](#)
[10104999-A0E-60B](#) [10104999-A0E-60DLF](#) [10104999-A0E-70B](#) [10104999-A0E-70DLF](#) [10104999-A0E-80B](#)
[10104999-A0E-80DLF](#) [10104999-B0E-10B](#) [10104999-B0E-10DLF](#) [10104999-B0E-20B](#) [10104999-B0E-20DLF](#)
[10104999-B0E-30B](#) [10104999-B0E-30DLF](#) [10104999-B0E-40B](#) [10104999-B0E-40DLF](#) [10104999-B0E-50B](#)
[10104999-B0E-50DLF](#) [10104999-B0E-60B](#) [10104999-B0E-60DLF](#) [10104999-B0E-70B](#) [10104999-B0E-70DLF](#)
[10104999-B0E-80B](#) [10104999-B0E-80DLF](#) [10104999-C0E-10B](#) [10104999-C0E-10DLF](#) [10104999-C0E-20B](#)
[10104999-C0E-20DLF](#) [10104999-C0E-30B](#) [10104999-C0E-30DLF](#) [10104999-C0E-40B](#) [10104999-C0E-40DLF](#)
[10104999-C0E-50B](#) [10104999-C0E-50DLF](#) [10104999-C0E-60B](#) [10104999-C0E-60DLF](#) [10104999-C0E-70B](#)
[10104999-C0E-70DLF](#) [10104999-C0E-80B](#) [10104999-C0E-80DLF](#) [10104999-D0E-10B](#) [10104999-D0E-10DLF](#)
[10104999-D0E-20B](#) [10104999-D0E-20DLF](#) [10104999-D0E-30B](#) [10104999-D0E-30DLF](#) [10104999-D0E-40B](#)
[10104999-D0E-40DLF](#) [10104999-D0E-50B](#) [10104999-D0E-50DLF](#) [10104999-D0E-60B](#) [10104999-D0E-60DLF](#)
[10104999-D0E-70B](#) [10104999-D0E-70DLF](#) [10104999-D0E-80B](#) [10104999-D0E-80DLF](#) [10104999-E0E-10B](#)
[10104999-E0E-10DLF](#) [10104999-E0E-20B](#) [10104999-E0E-20DLF](#)