

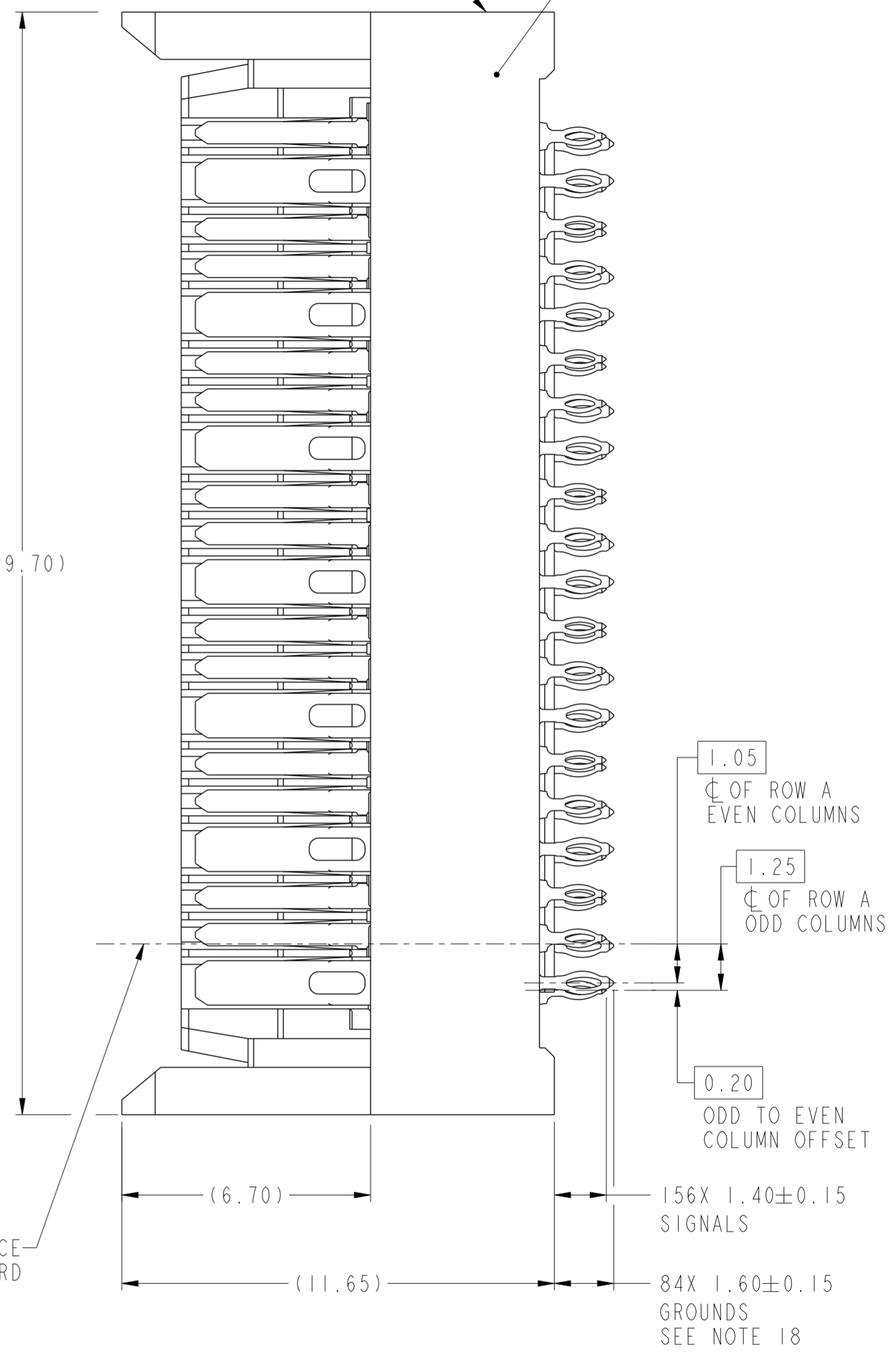
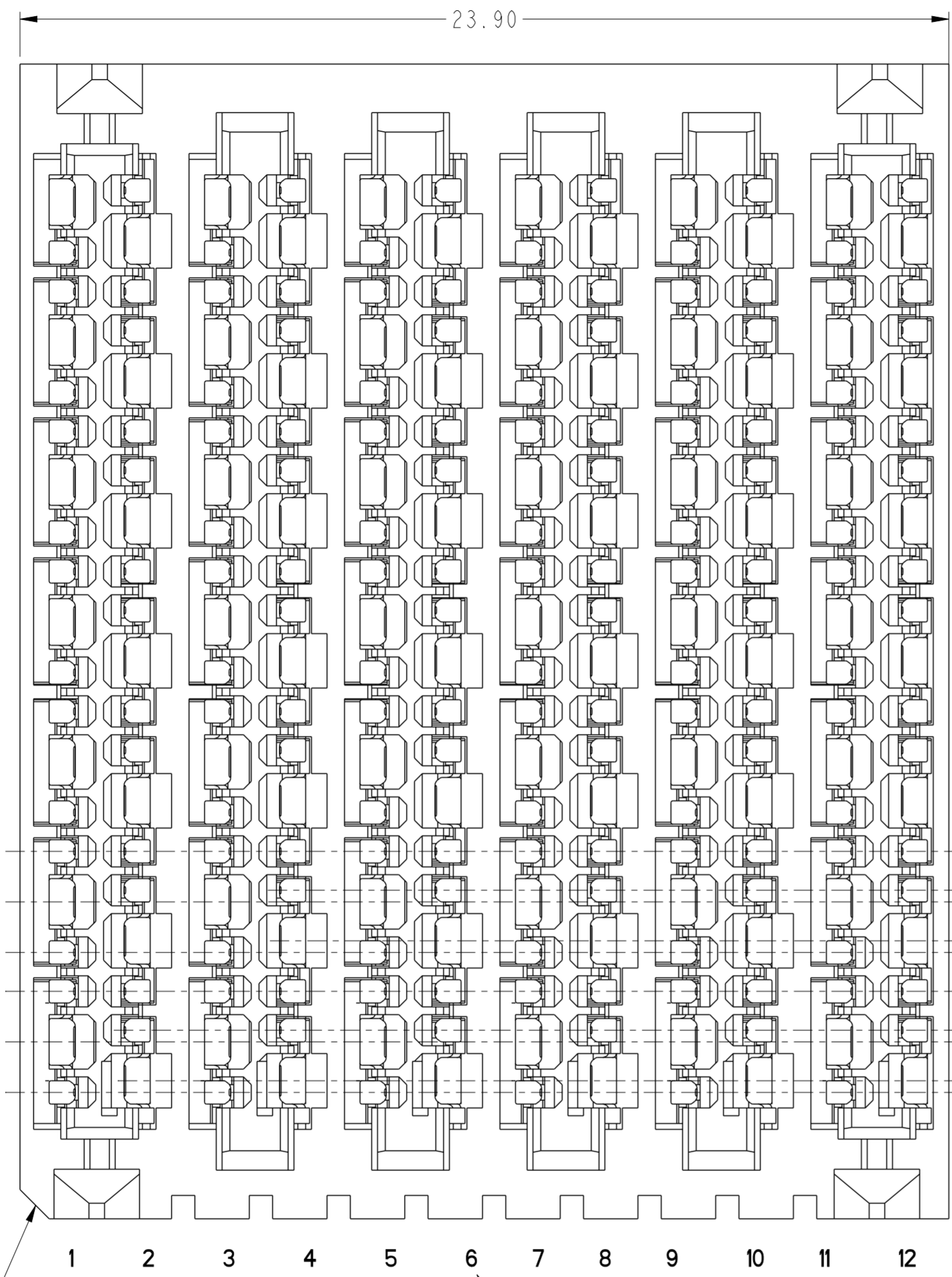
PRODUCT NUMBER
SEE TABLE

ODD COLUMN, CONTACT ROW ID
ODD AND EVEN COLUMNS
ARE OFFSET

EVEN COLUMN, CONTACT ROW ID

NOTE 6

HOUSING



10123162-Y01YLF
(10123162-101YLF STANDARD MATE CONNECTOR SHOWN)

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	8:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1	rel level	Released
ASME Y14.5M		chr	-							
		appr	Heaven Cen	2020/04/22						
surface	linear	0.X	±.3		ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA	cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 1 of 11	rev C	
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							

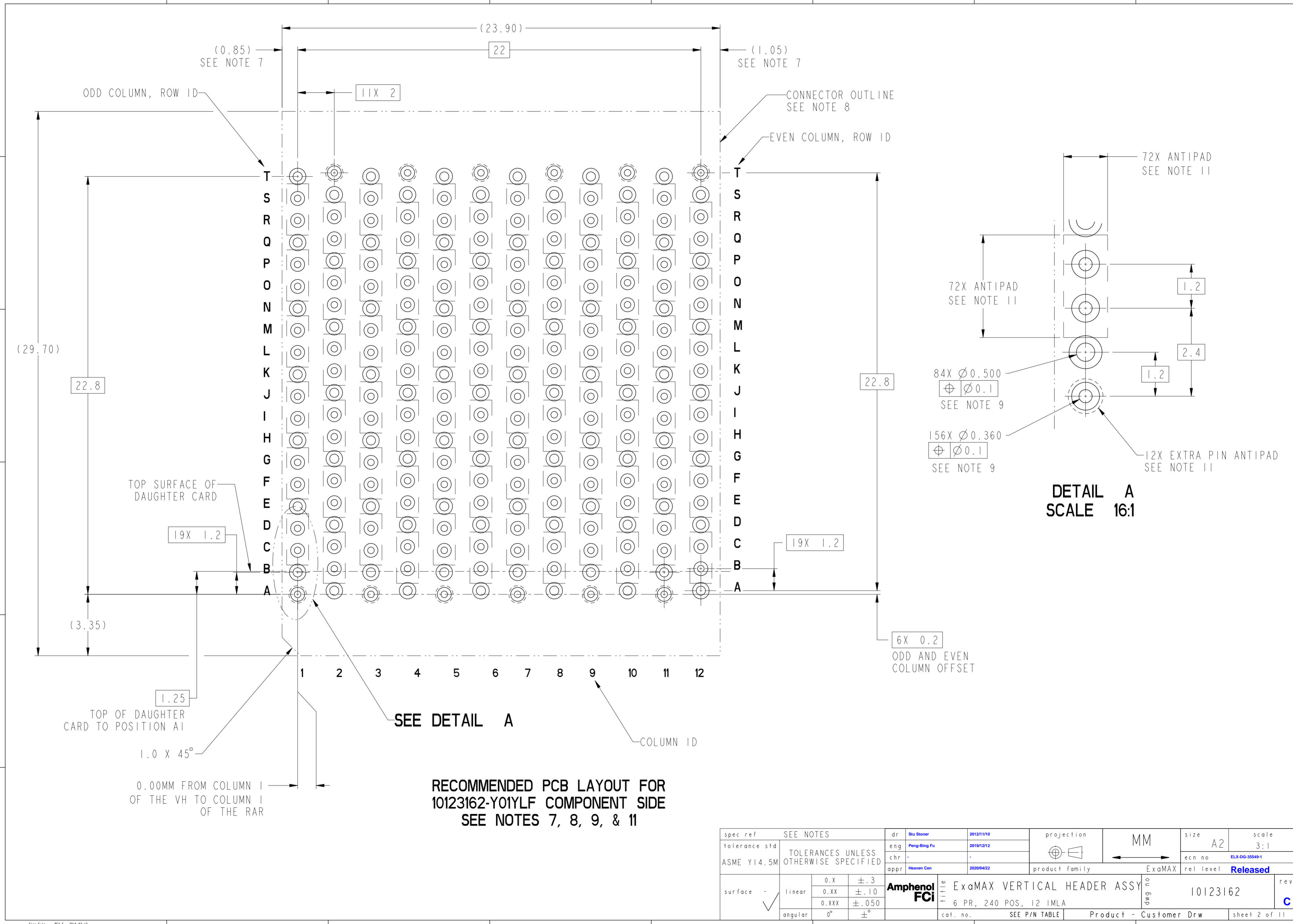
PDS: Rev :C

STATUS:Released

Printed: Apr 22, 2020

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**RECOMMENDED PCB LAYOUT FOR
10123162-Y01YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

**DETAIL A
SCALE 16:1**

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	3:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1	rel level	Released										
ASME Y14.5M		chr	-	apppr							Heaven Cen	2020/04/22	product family	ExaMAX						
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±°			Amphenol FCI title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA		cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 2 of 11
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		

1 2 3 4 5 6 7 8

A

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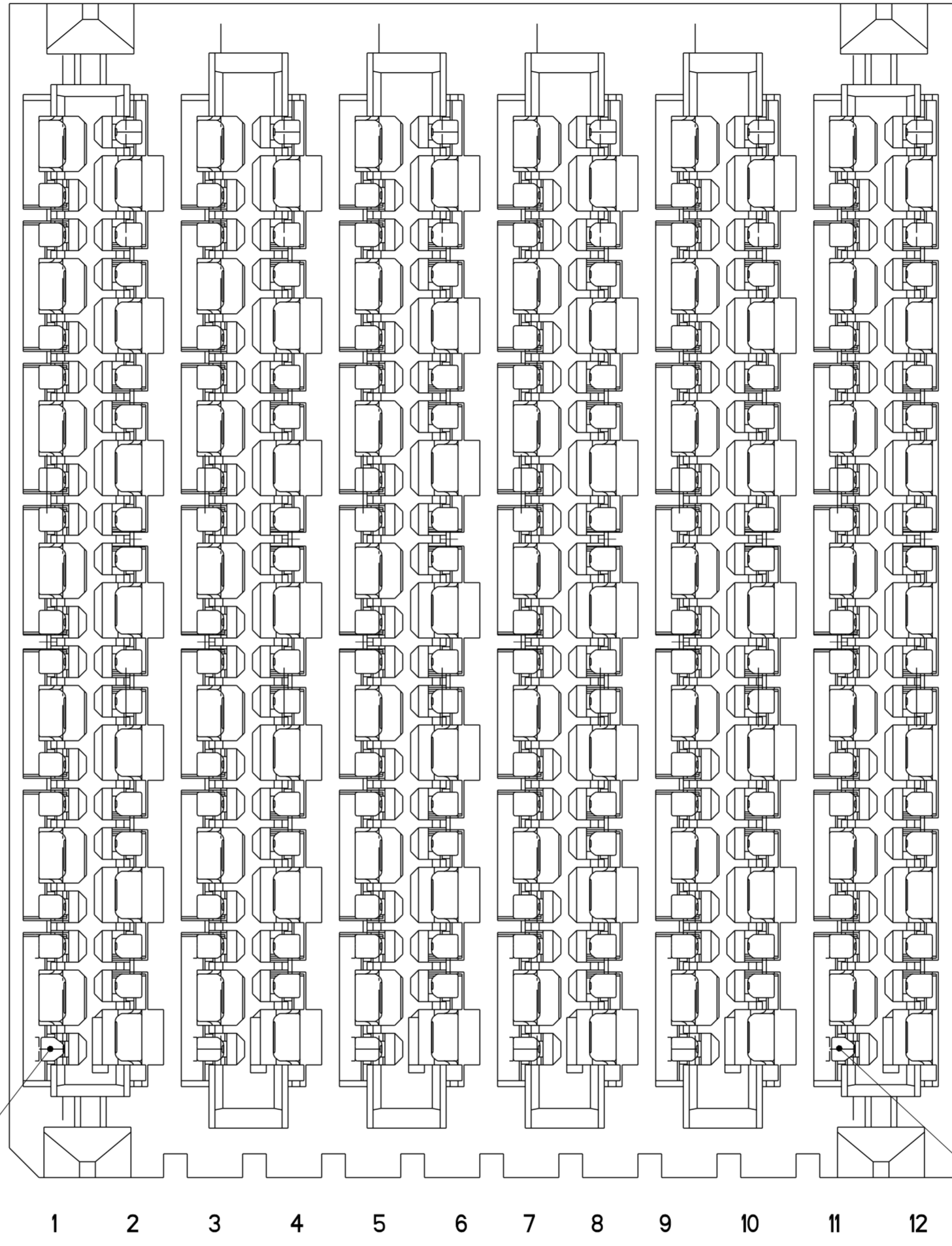
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D
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A



ADVANCED MATE POSITION A1
SEE NOTE 13

ADVANCED MATE POSITION A11
SEE NOTE 13

10123162-201YLF
ADVANCED MATE CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

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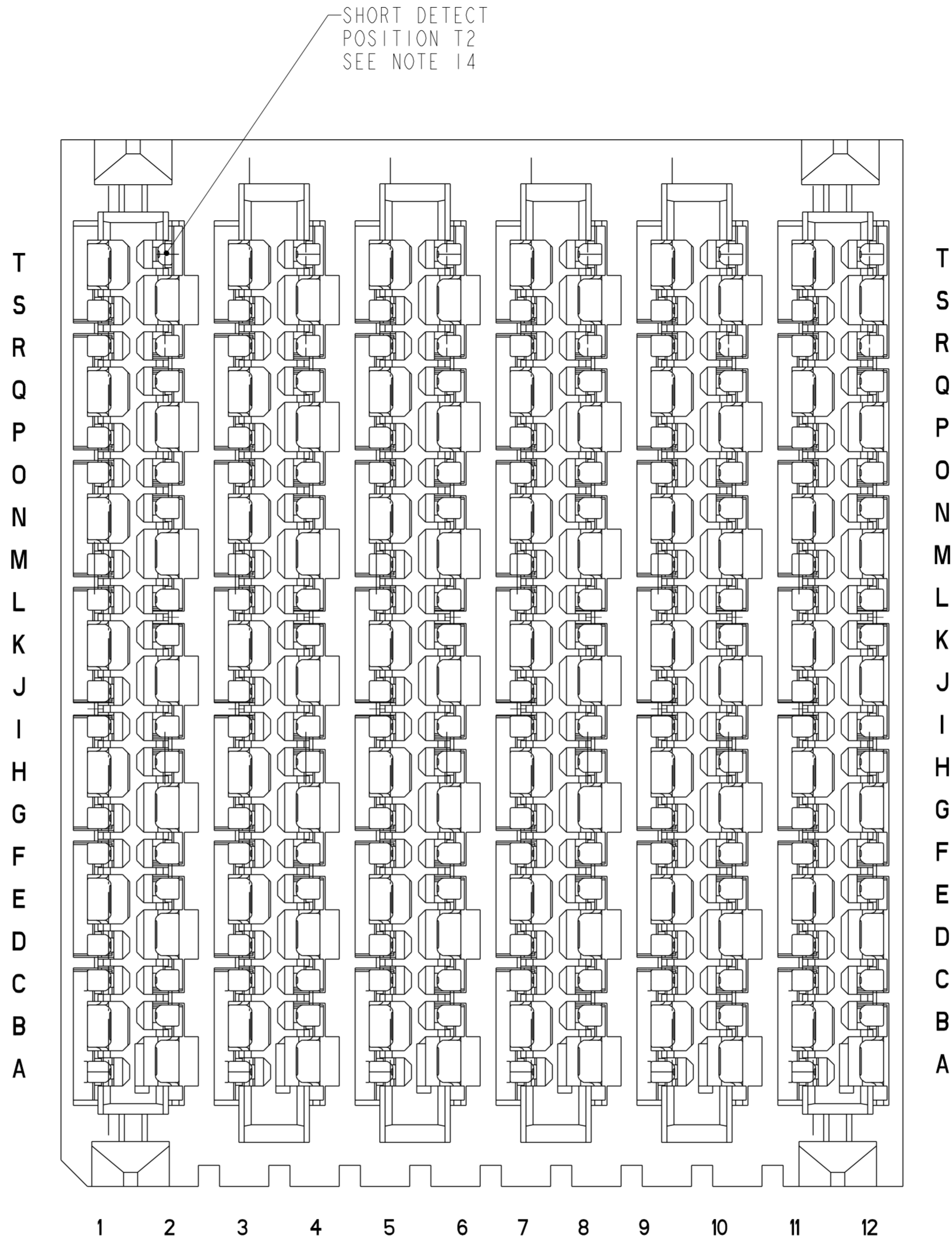
© 2016 APCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1				
surface	-	chr	-	appr			Heaven Cen	2020/04/22	product family	ExaMAX	rel level	Released
linear	0.X ±.3 0.XX ±.10 0.XXX ±.050	Amphenol FCi		title		ExaMAX VERTICAL HEADER ASSY		dwg no	10123162		rev	C
angular	0° ±°	cat. no.		SEE P/N TABLE		Product - Customer Drw		sheet 3 of 11				

PDS: Rev :C

STATUS:Released

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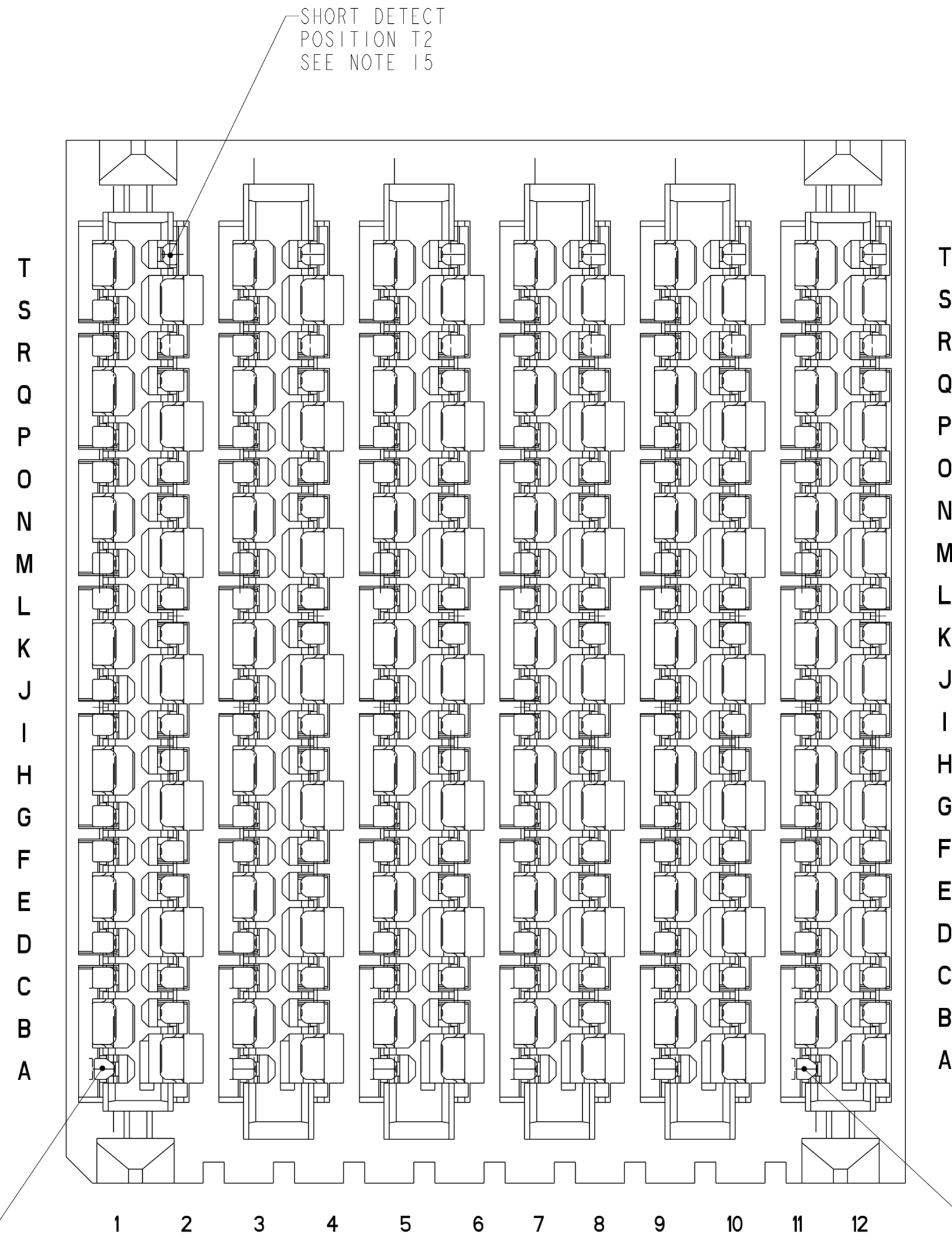


10123162-301YLF
 SHORT DETECT CONNECTOR
 SHORT DETECT POSITION IS T2 ONLY
 FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

Amphenol
FCi

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spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1														
ASME Y14.5M		chr	-				rel level	Released														
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±°	appr	Heaven Cen	2020/04/22	product family	ExaMAX		rel level	Released	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		Amphenol FCi	title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA			cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 4 of 11	rev	C											



ADVANCED MATE
POSITION A1
SEE NOTE 15

SHORT DETECT
POSITION T2
SEE NOTE 15

ADVANCED MATE
POSITION A11
SEE NOTE 15

10123162-401YLF
ADVANCED MATE/SHORT DETECT CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
 SHORT DETECT POSITION IS T2 ONLY
 FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

Amphenol
FCi

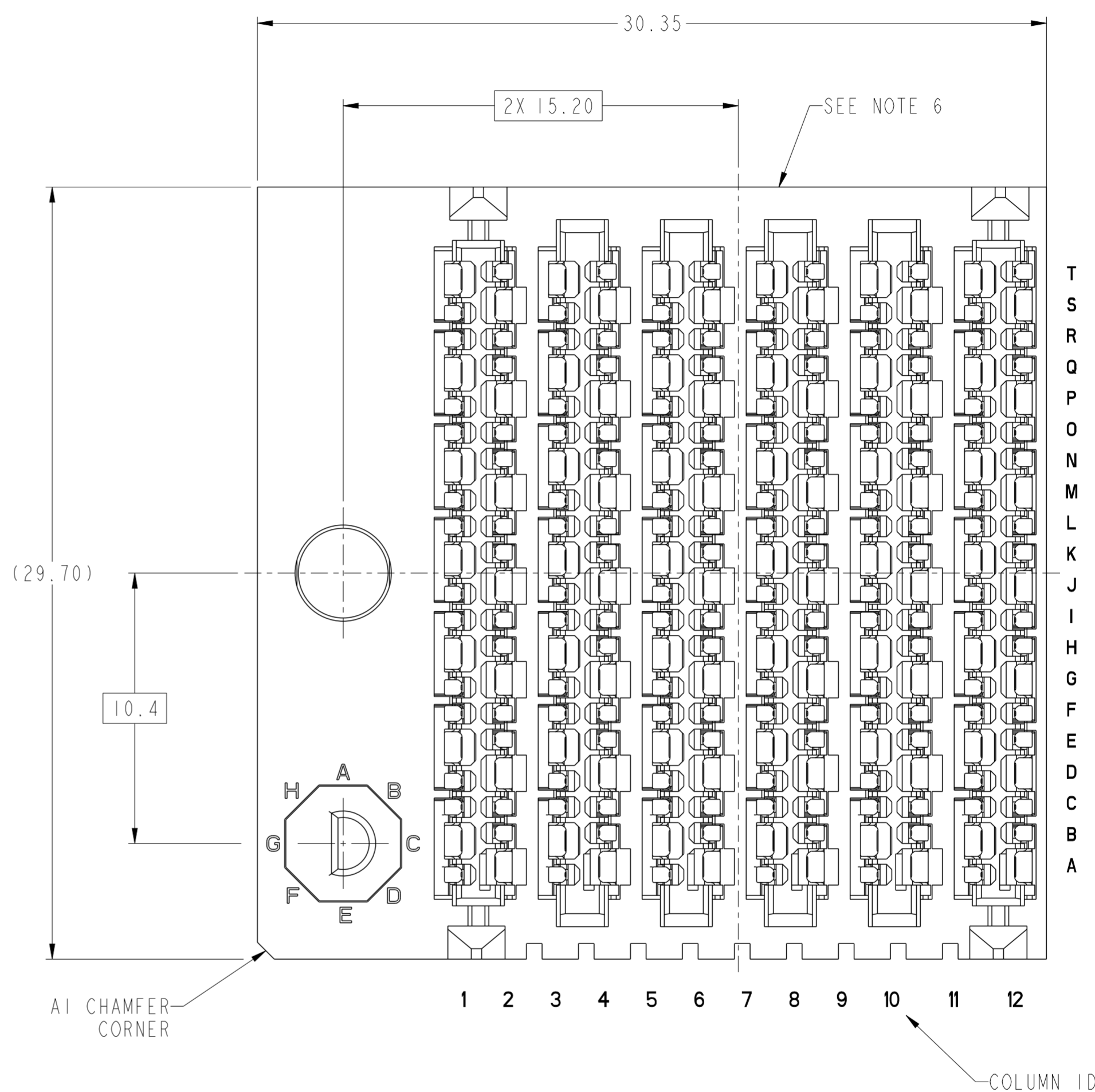
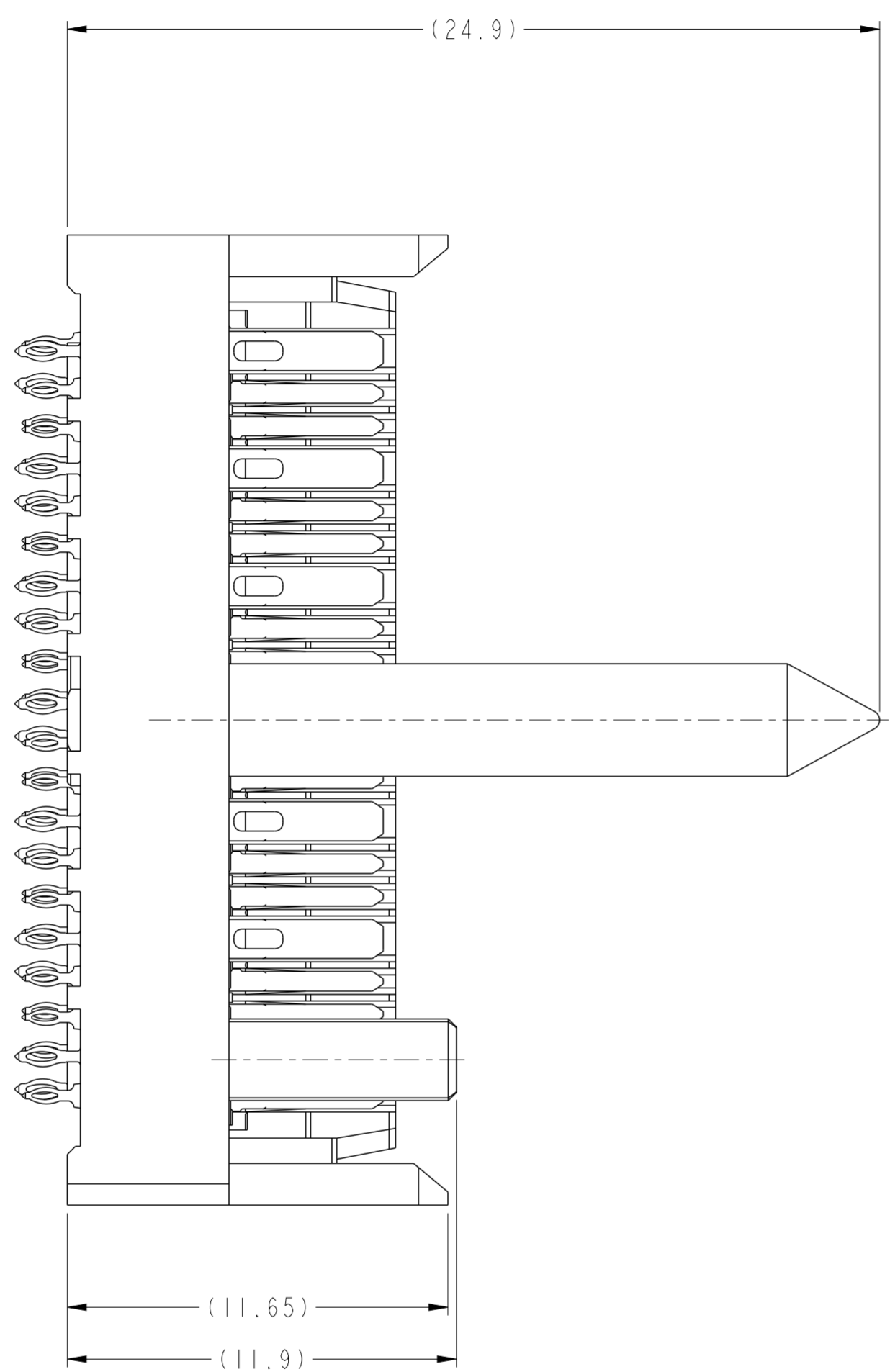
© 2016 AFci

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	1:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1	rel level	Released									
ASME Y14.5M		chr	-	app			Heaven Cen	2020/04/22		product family	ExaMAX								
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±°			title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA		dwg no 10123162	rev C
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±°																	
		cat. no.	SEE P/N TABLE		Product - Customer Drw		sheet 5 of 11												

PDS: Rev :C

STATUS:Released

Printed: Apr 22, 2020



10123162-Y1AYLF THRU -Y1JYLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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FCi

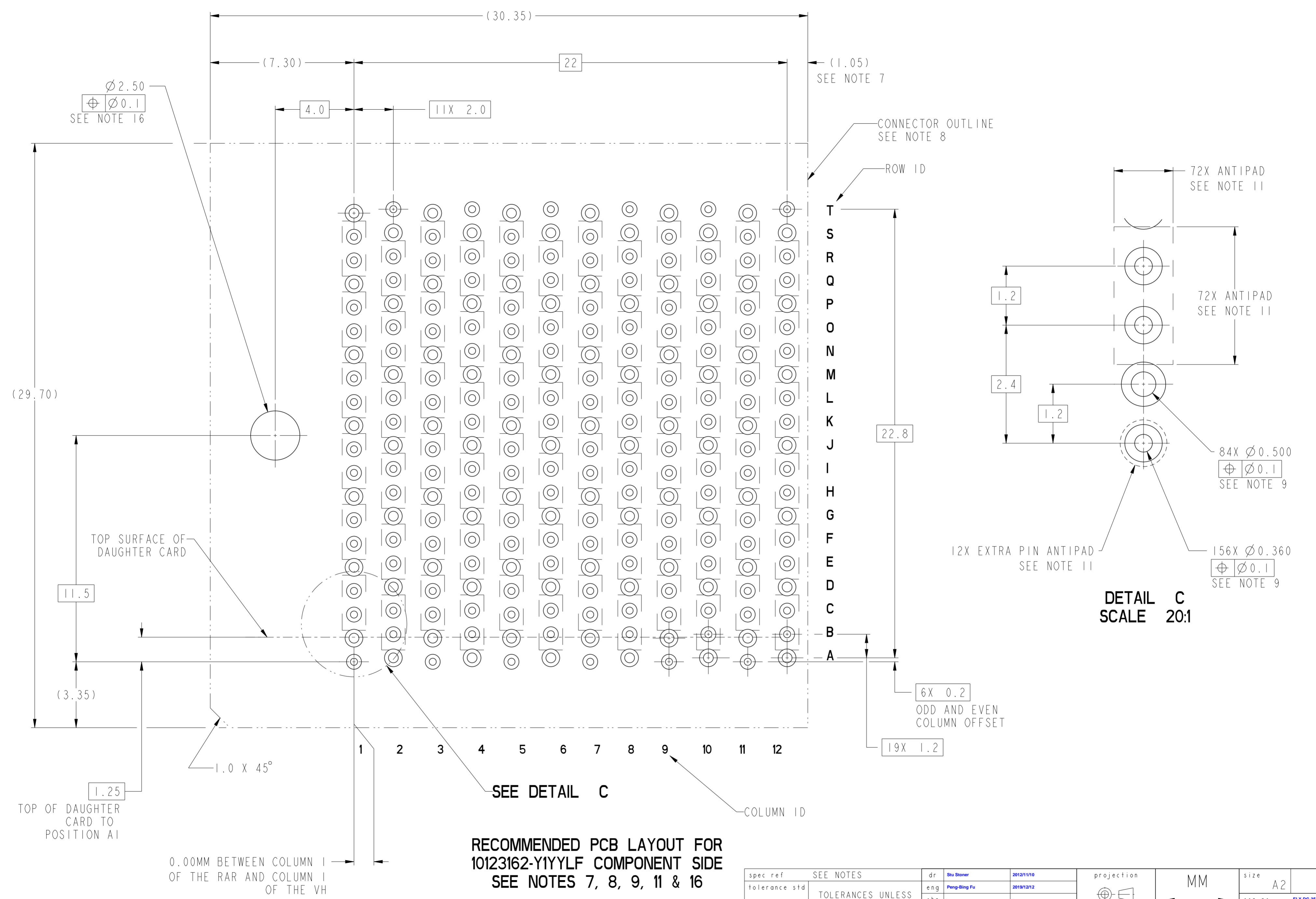
© 2016 AFci

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1	rel level	Released										
ASME Y14.5M		chr	-	app			Heaven Cen	2020/04/22		product family	ExaMAX									
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±°			title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA		cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 6 of 11
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		

PDS: Rev :C

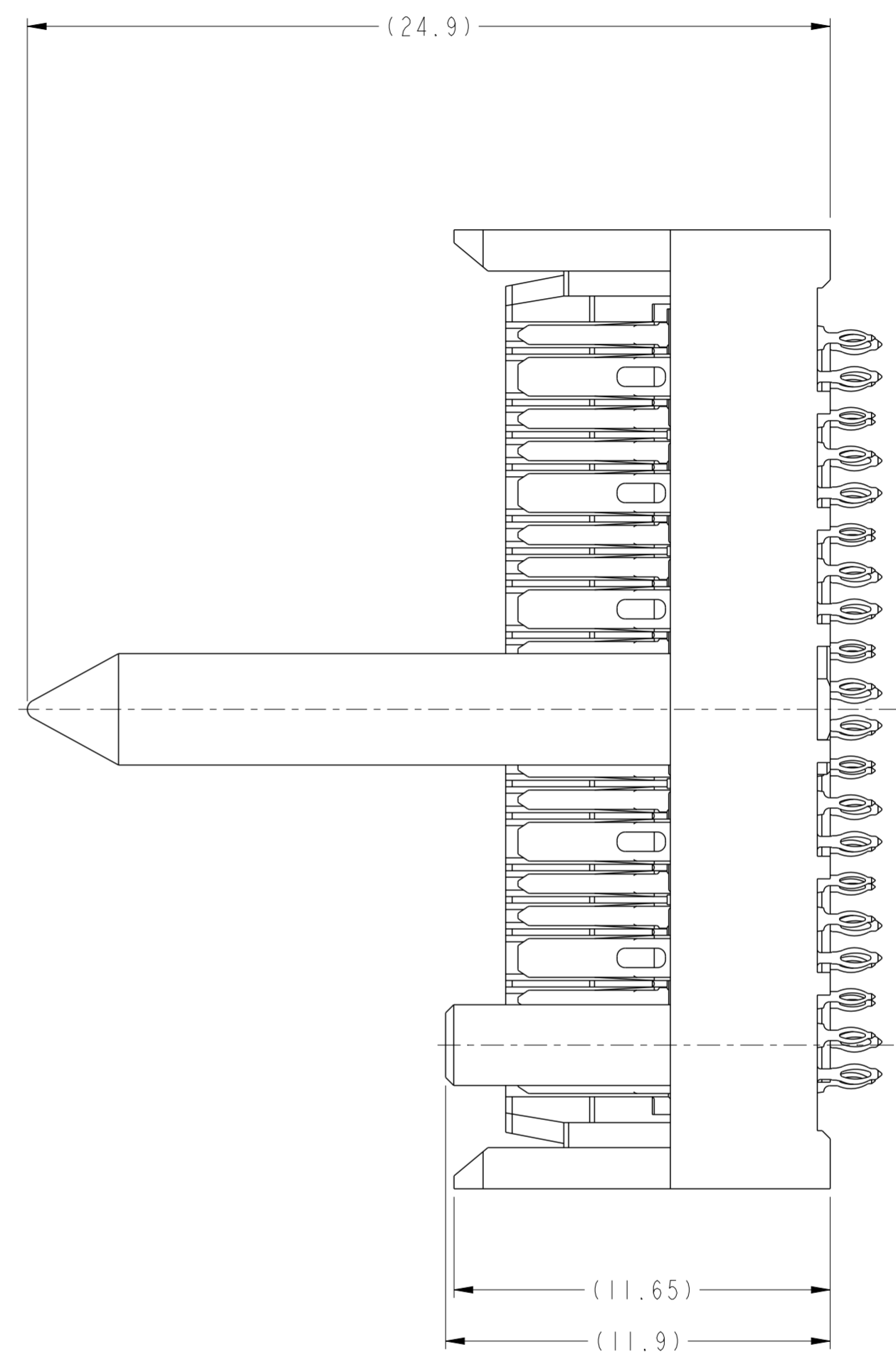
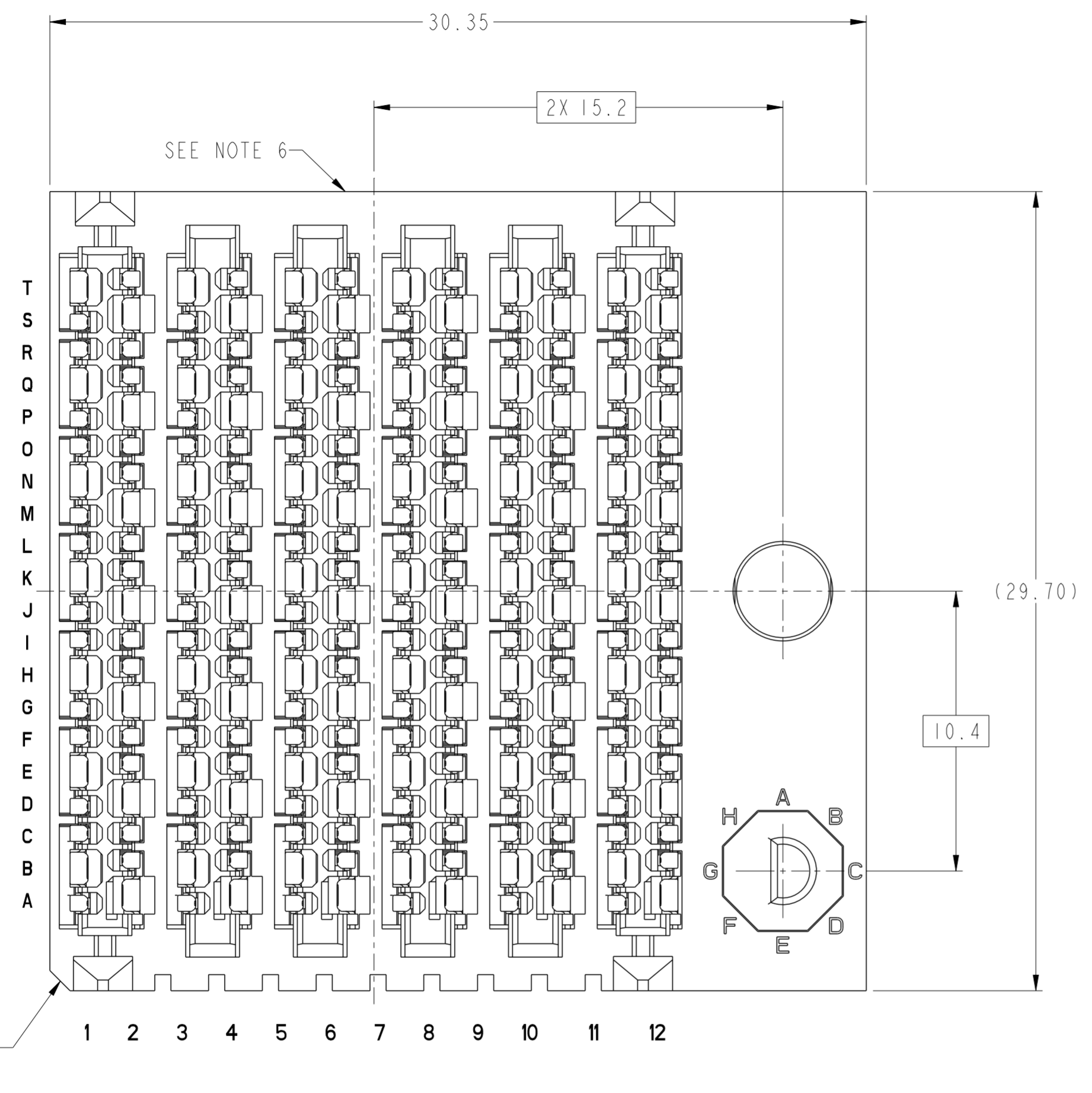
STATUS:Released

Printed: Apr 22, 2020



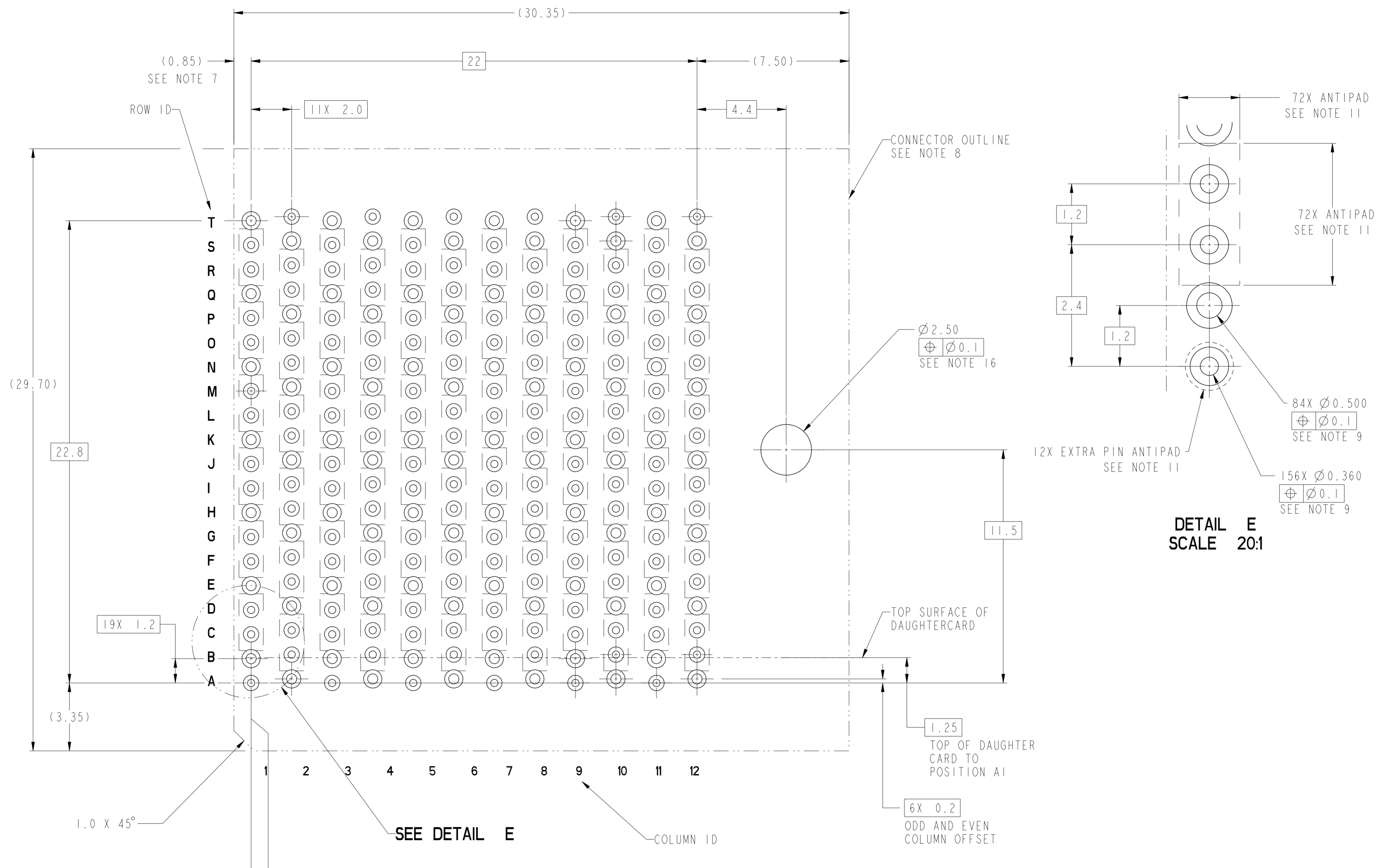
**RECOMMENDED PCB LAYOUT FOR
10123162-Y1YYLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16**

spec ref	SEE NOTES	dr	Siu Stoner	2012/11/10	projection	MM	size	A2	scale	2:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1				
ASME Y14.5M		chr	-	rel level			Released					
		appr	Heaven Cen	2020/04/22								
surface	linear	0.X	±.3	Amphenol FCI		title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA	dwg no 10123162	rev C				
		0.XX	±.10						cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 7 of 11
	angular	0°	±°									



10123162-Y2AYLF THRU -Y2JYLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1							
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1									
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/22	product family	ExaMAX	rel level	Released					
surface	<table border="1"> <tr> <td rowspan="3">-</td> <td rowspan="3">linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td></td> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	-	linear	0.X	±.3	0.XX	±.10	0.XXX	±.050		angular	0°	±°		title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA	dwg no 10123162	rev C
-	linear			0.X	±.3												
				0.XX	±.10												
		0.XXX	±.050														
	angular	0°	±°														
		cat. no.	SEE P/N TABLE		Product - Customer Drw		sheet 8 of 11										

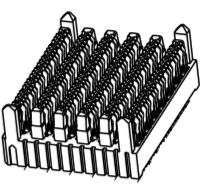
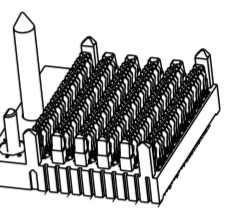
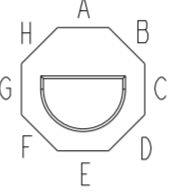
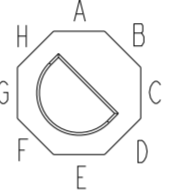
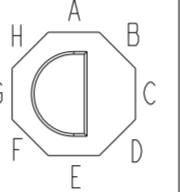
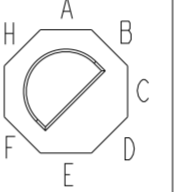
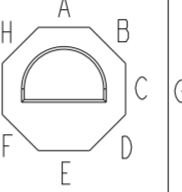
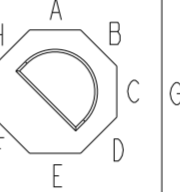
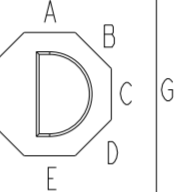
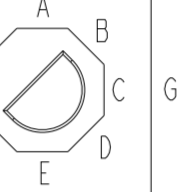
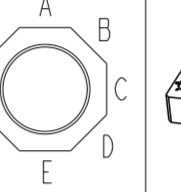
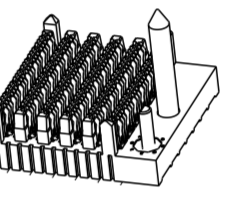
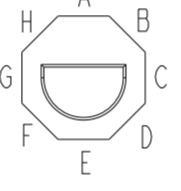

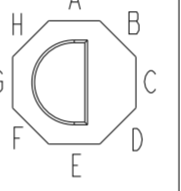
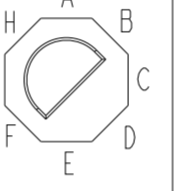
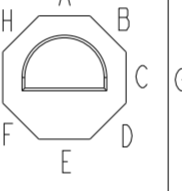
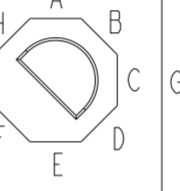
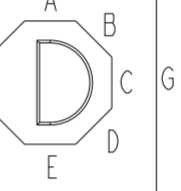
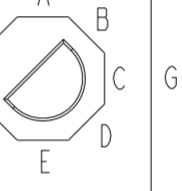
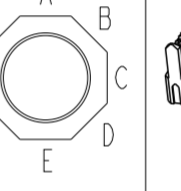


**RECOMMENDED PCB LAYOUT FOR
10123162-Y2YYLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16**

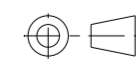
spec ref	SEE NOTES	dr	Siu Stoner	2012/11/10	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1	rel level	Released
ASME Y14.5M		chr	-	apppr						
surface	linear	0.X	±.3		title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA	cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 9 of 11	rev C	
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							

10123162 - Y Y Y Y L F

PLATING
SEE NOTE 2

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
STANDARD NO GUIDANCE (SEE SHEET 1)	01										
RIGHT GUIDANCE MODULE (SEE SHEET 8)	1A	1B	1C	1D	1E	1F	1G	1H	1J (NO KEY)		
											
LEFT GUIDANCE MODULE (SEE SHEET 12)	2A	2B	2C	2D	2E	2F	2G	2H	2J (NO KEY)		
											

ASSEMBLY PART NUMBER	DESCRIPTION
10123162-1YYYYLF	STANDARD MATE
10123162-2YYYYLF	ADVANCED MATE
10123162-3YYYYLF	SHORT DETECT
10123162-4YYYYLF	ADVANCED MATE & SHORT DETECT

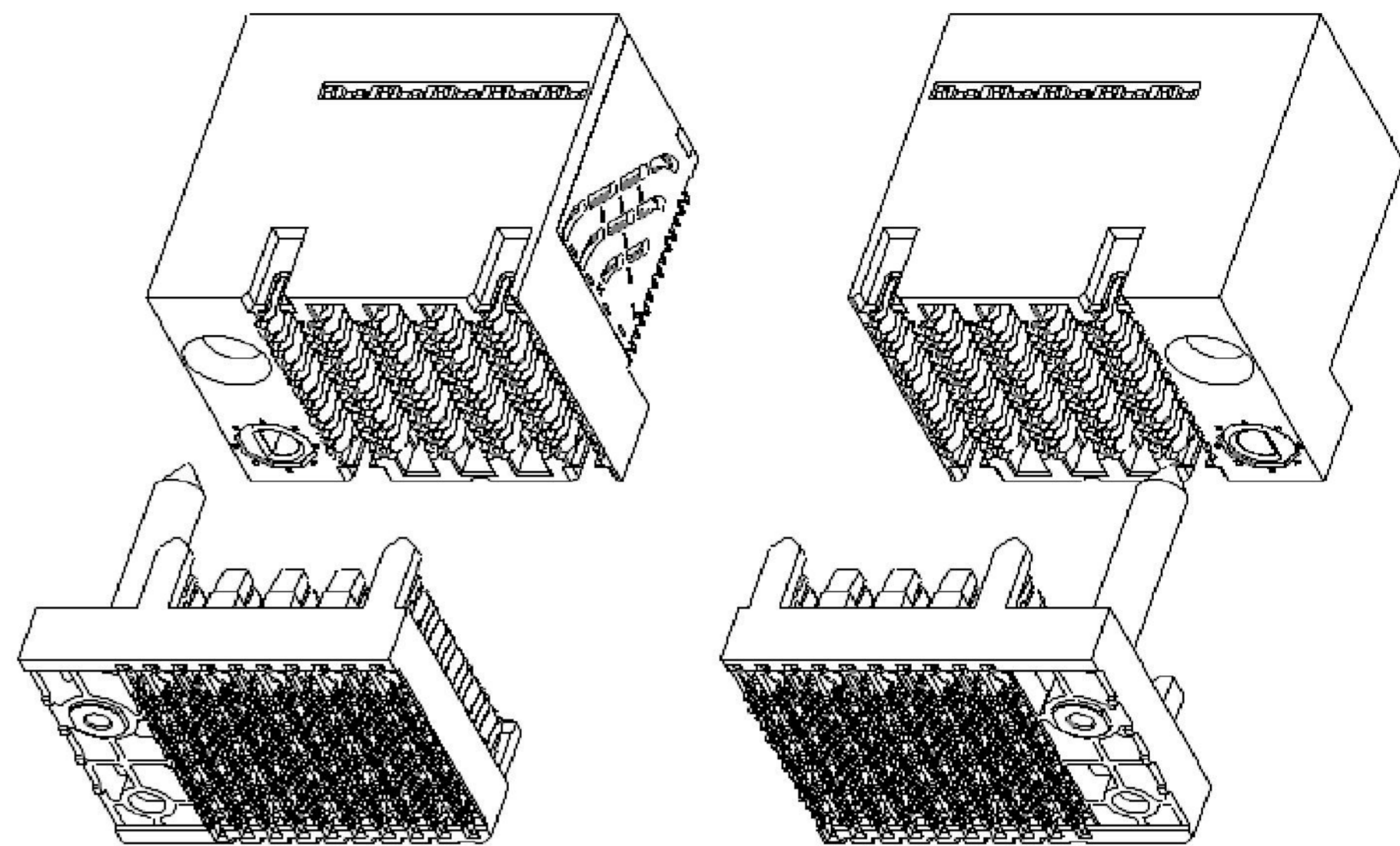
spec ref	SEE NOTES	dr	Stu Stoner	2012/1/10	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12		← →	ecn no	ELX-DG-35549-1	rel level	Released
ASME Y14.5M		chr	-	-						
surface		appr	Heaven Cen	2020/04/22						
linear	0.X	±.3	Amphenol FCI	title		ExaMAX VERTICAL HEADER ASSY	dwg no	10123162	rev	C
angular	0°	±°		6 PR, 240 POS, 12 IMLA						
				cat. no.	SEE P/N TABLE	Product - Customer Drw				

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NOTES

- ① - CONNECTOR MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
CONTACT: COPPER ALLOY
GUIDE PIN: ZINC ALLOY
POLARIZING PIN: ZINC ALLOY
- 2 - CONTACT PLATING:
SEPARABLE INTERFACE:
-YYYLF: PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-1096 INCLUDING TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST SEQUENCE
-YYY2LF: GXT+ OVER NICKEL
-YYY9LF: GXT OVER NICKEL
PRESS-FIT TAILS: TIN OVER NICKEL (LEAD FREE)
- 3 - PRODUCT SPECIFICATION: GS-12-1096
- 4 - APPLICATION SPECIFICATION: GS-20-0361
- 5 - PACKAGING MEETS GS-14-920 LEAD FREE LABELING SPECIFICATION.
- ⑥ - PRODUCT MARKING, (PART NUMBER & LOT CODE), ON THIS SURFACE.
- ⑦ - THE MINIMUM VIA SPACING BETWEEN STACKED CONNECTORS WILL BE 2.0 mm OR 3.0 mm AS DEFINED BY NOTE 7 ON THE MATING RECEPTACLE CUSTOMER DRAWING. REFER TO THE APPLICATION SPECIFICATION FOR DETAILS.
- ⑧ - CONNECTOR OUTLINE MAY BE SCREEN PRINTED ONTO CUSTOMER PCB TO BE USED AS A GUIDE FOR MANUAL CONNECTOR PLACEMENT.
- ⑨ - REFER TO CUSTOMER DRAWING 10119933 FOR INFORMATION ON PCB HOLE DIAMETERS AND PLATING OPTIONS
- 10 - THIS PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES & OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
- ⑪ - REFER TO ROUTING GUIDE GS-20-0511 FOR RECOMMENDATIONS ON OPTIMIZATION OF FOOTPRINT AND TRACE ROUTING LAYOUT.
- 12 - THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- ⑬ - THE ADVANCED MATE HEADER, 10123162-2YYYYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑭ - THE SHORT DETECT HEADER, 10123162-3YYYYLF, WHEN MATED WITH A STANDARD MATE RECEPTACLE WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮ - THE ADVANCED MATE/SHORT DETECT HEADER, 10123162-4YYYYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE, WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS, AND 1 PAIR OF MATING CONTACTS THAT MATE 1.00MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑯ - FOR CONNECTORS WITH EITHER A RIGHT OR LEFT GUIDE MODULE, ONE PHILLIPS PAN HEAD M2 HOLD DOWN SCREW MUST BE USED TO SECURE GUIDE PIN/CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE 2.0 - 6.0mm PLUS THE THICKNESS OF THE BOARD. SCREW IS NOT PROVIDED WITH CONNECTOR.
- ⑰ - LEFT / RIGHT INTEGRATED GUIDE ORIENTATION IS DETERMINED BY THE LOCATION OF THE GUIDE FEATURES WHEN LOOKING AT THE MATING FACE OF THE RIGHT ANGLE RECEPTACLE. THE LEFT / RIGHT DESIGNATION OF THE MATING HEADER IS DEFINED BY THE RIGHT ANGLE RECEPTACLE THAT IT MATES WITH (i.e. A RIGHT GUIDE VERTICAL HEADER MATES WITH A RIGHT GUIDE RIGHT ANGLE RECEPTACLE).
- ⑱ - ALL GROUND CONTACTS WITHIN A COLUMN ARE COMMONED.



LEFT GUIDE

RIGHT GUIDE

**ExaMAX INTEGRATED GUIDE ORIENTATION
4-PAIR 10-IMLA CONNECTORS SHOWN FOR REFERENCE ONLY
SEE NOTE 17**

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	2:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1	rel level	Released									
ASME Y14.5M		chr	-	appr							Heaven Cen	2020/04/22	product family	ExaMAX					
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±°			title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA		dwg no 10123162	rev C
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±°																	
		cat. no.	SEE P/N TABLE		Product - Customer Drw		sheet 11 of 11												