

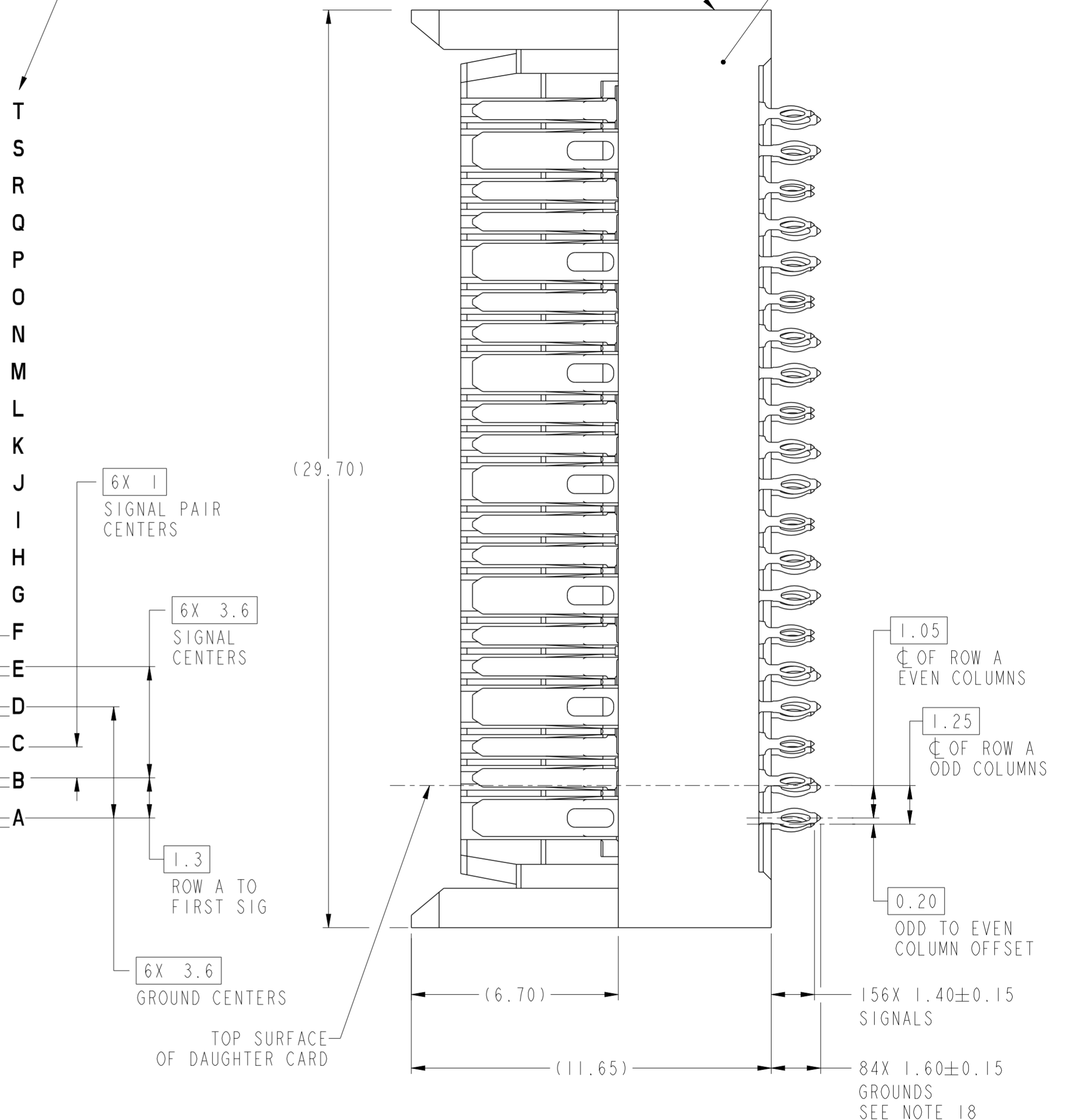
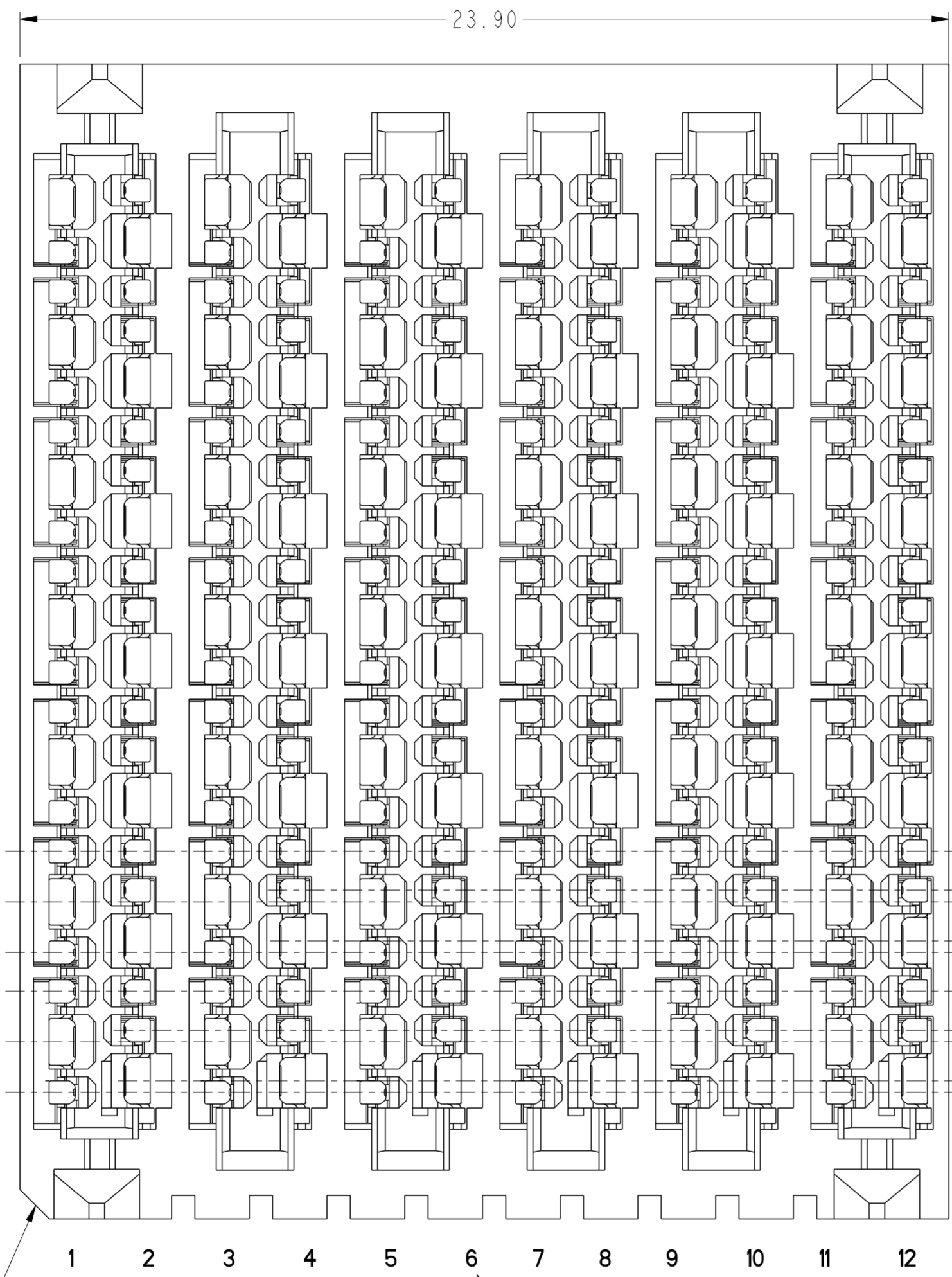
PRODUCT NUMBER
SEE TABLE

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

EVEN COLUMN, CONTACT ROW ID

NOTE 6

HOUSING



10123162-Y01LF
(10123162-101LF STANDARD MATE CONNECTOR SHOWN)

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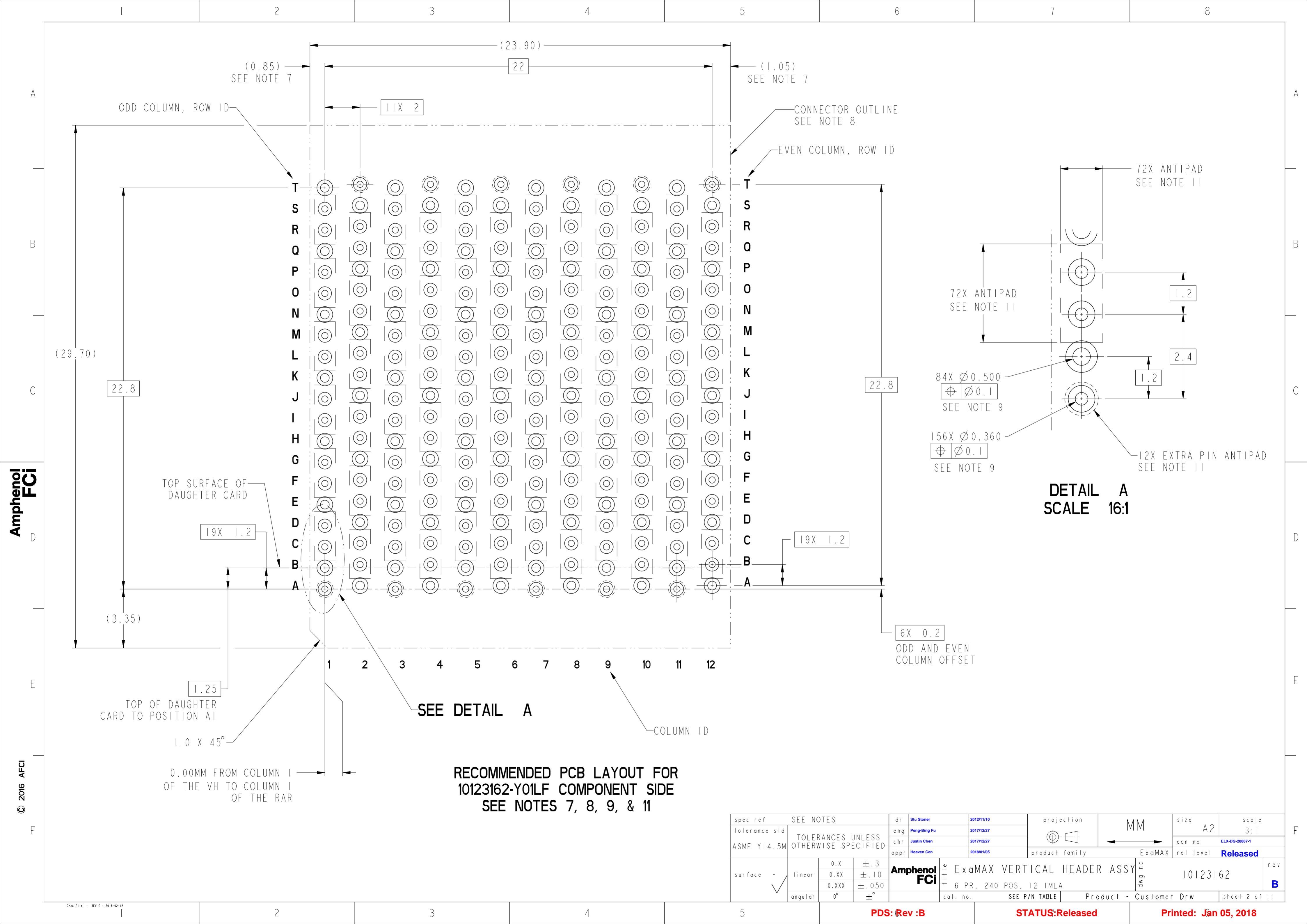
© 2016 AFci

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	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released		
ASME Y14.5M		chr	Justin Chen	2017/12/27								
		appr	Heaven Cen	2018/01/05								
surface	linear	0.X	±.3		product family ExaMAX	title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA	dwg no 10123162	rev B	angular 0° ±°	cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 1 of 11
		0.XX	±.10									
		0.XXX	±.050									

PDS: Rev :B

STATUS:Released

Printed: Jan 05, 2018



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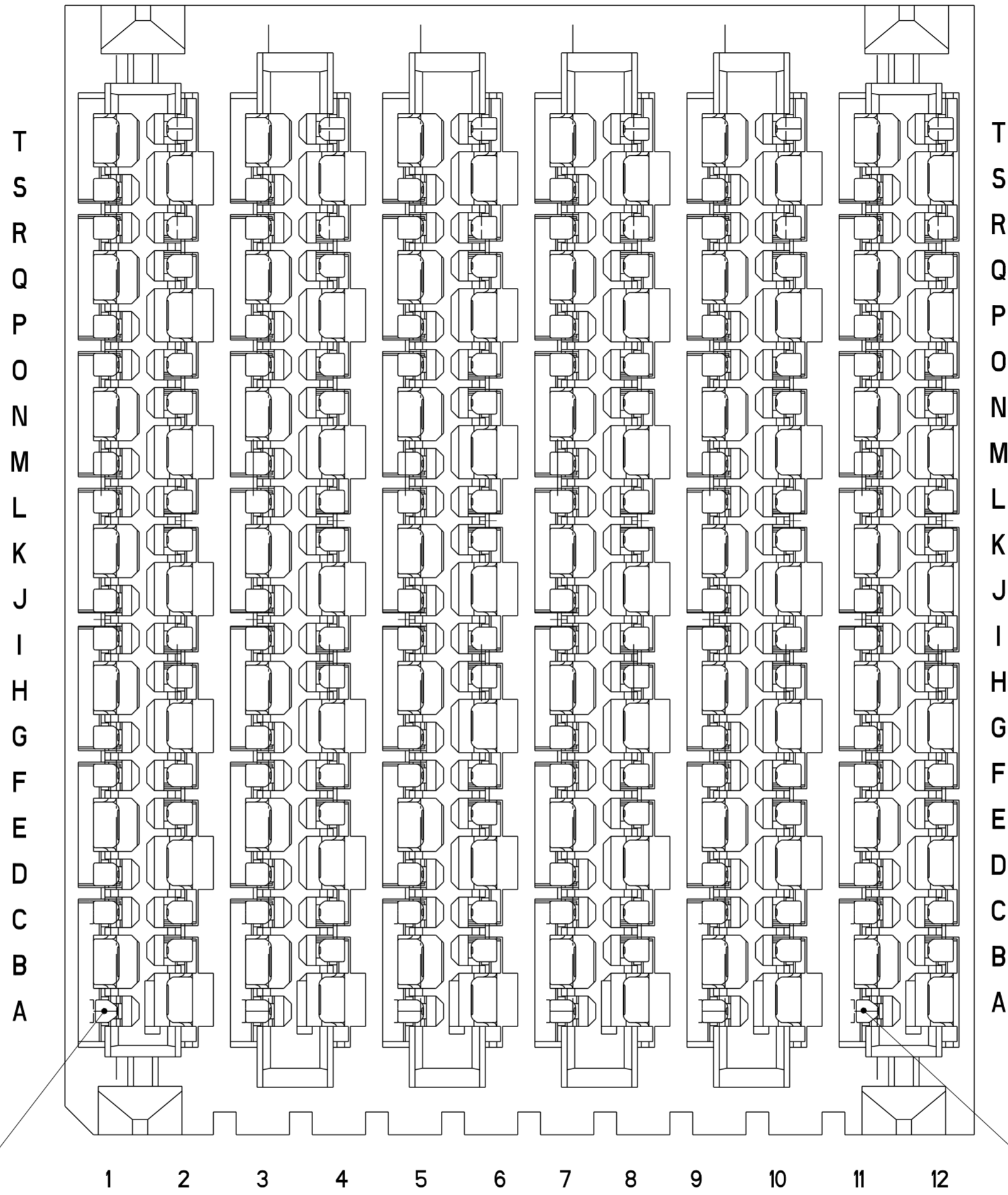
**RECOMMENDED PCB LAYOUT FOR
10123162-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

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	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/12/27						
		appr	Heaven Cen	2018/01/05						
surface	linear	0.X	±.3		ExdMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA	cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 2 of 11	rev B	
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							

PDS: Rev :B

STATUS:Released

Printed: Jan 05, 2018



ADVANCED MATE POSITION A1
SEE NOTE 13

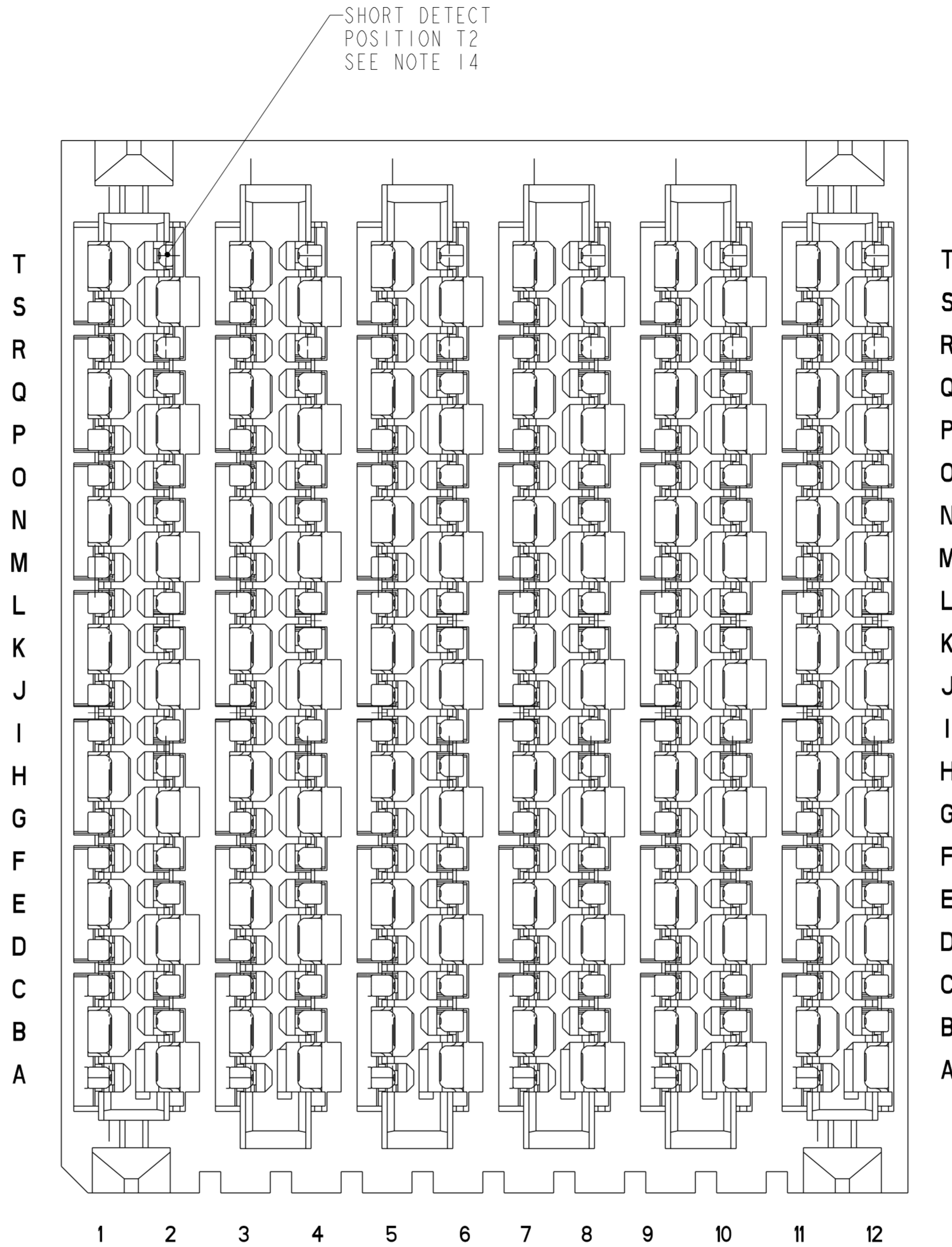
ADVANCED MATE POSITION A11
SEE NOTE 13

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

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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	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released													
ASME Y14.5M		chr	Justin Chen	2017/12/27			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°	±°	appr	Heaven Cen	2018/01/05	Amphenol FCi	title	ExaMAX VERTICAL HEADER ASSY	dwg no	10123162	rev	B
linear	0.X	±.3																					
	0.XX	±.10																					
	0.XXX	±.050																					
angular	0°	±°																					
						6 PR, 240 POS, 12 IMLA	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 3 of 11													

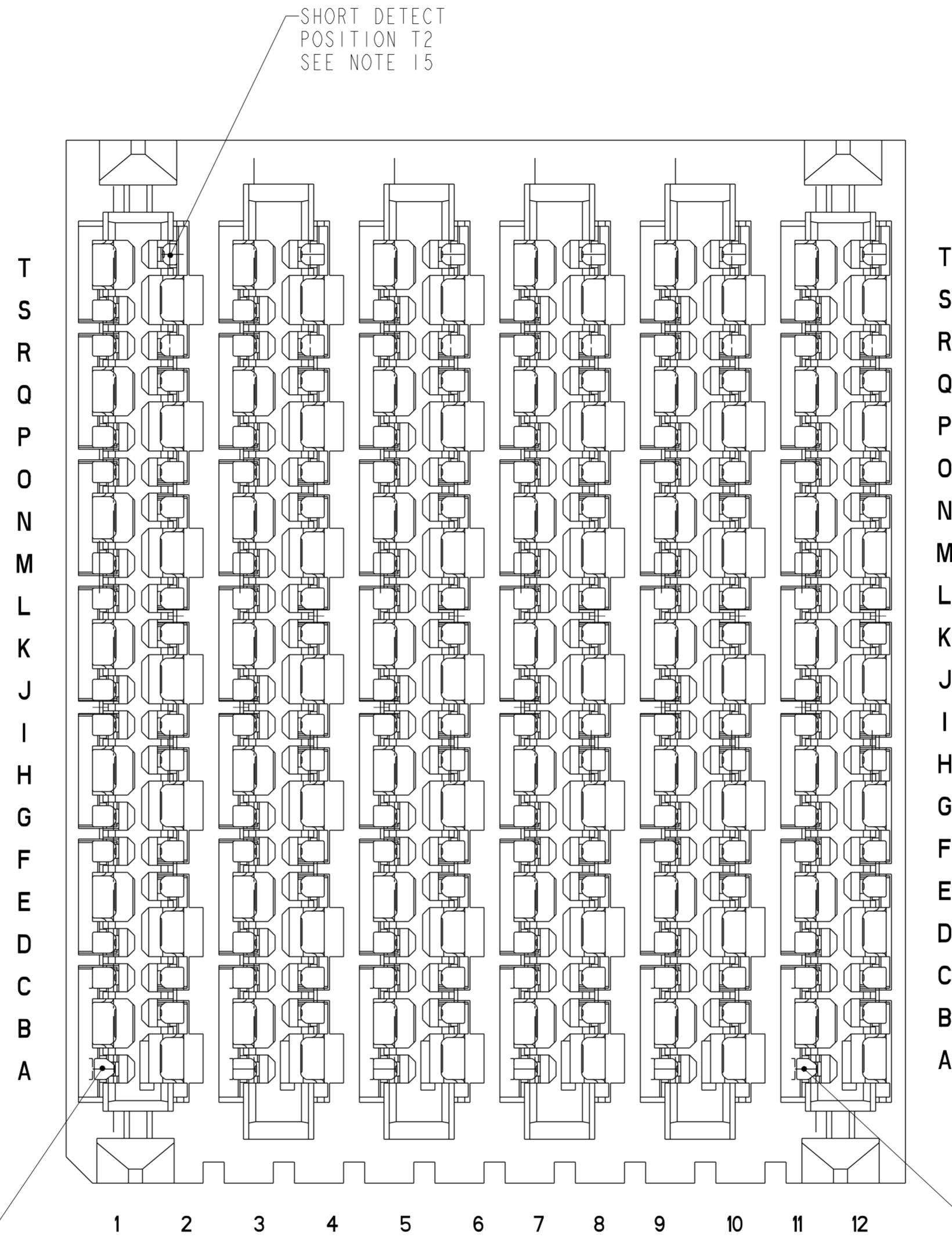


10123162-301LF
 SHORT DETECT CONNECTOR
 SHORT DETECT POSITION IS T2 ONLY
 FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

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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	2017/12/27			ecn no	ELX-DG-28887-1														
ASME Y14.5M		chr	Justin Chen	2017/12/27			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°	±°	apppr	Heaven Cen	2018/01/05	product family	ExaMAX	rel level	Released		
-	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 B														
		cat. no.		SEE P/N TABLE		Product - Customer Drw		sheet 4 of 11														



ADVANCED MATE POSITION A1
SEE NOTE 15

SHORT DETECT POSITION T2
SEE NOTE 15

ADVANCED MATE POSITION A11
SEE NOTE 15

10123162-401LF
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

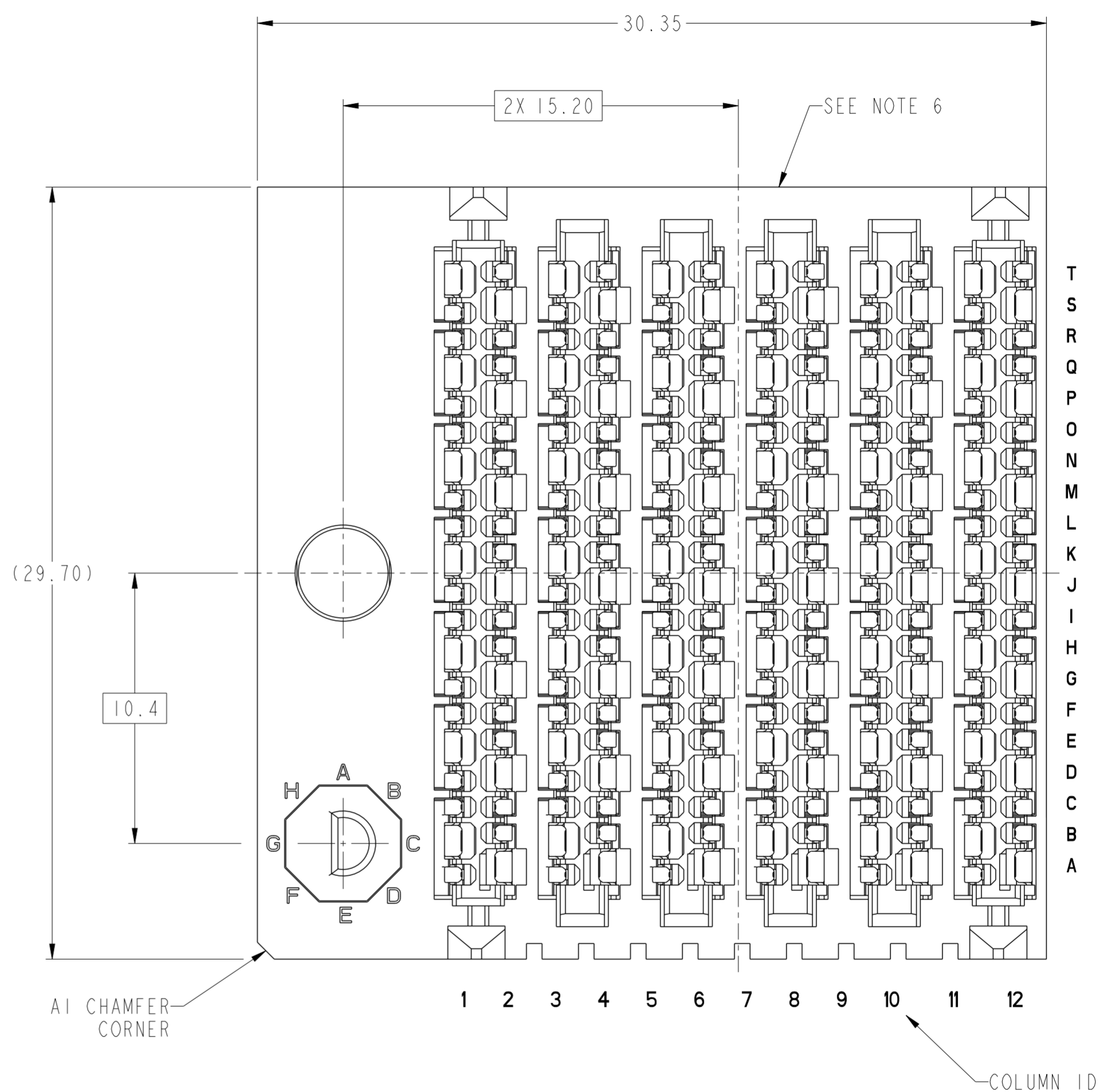
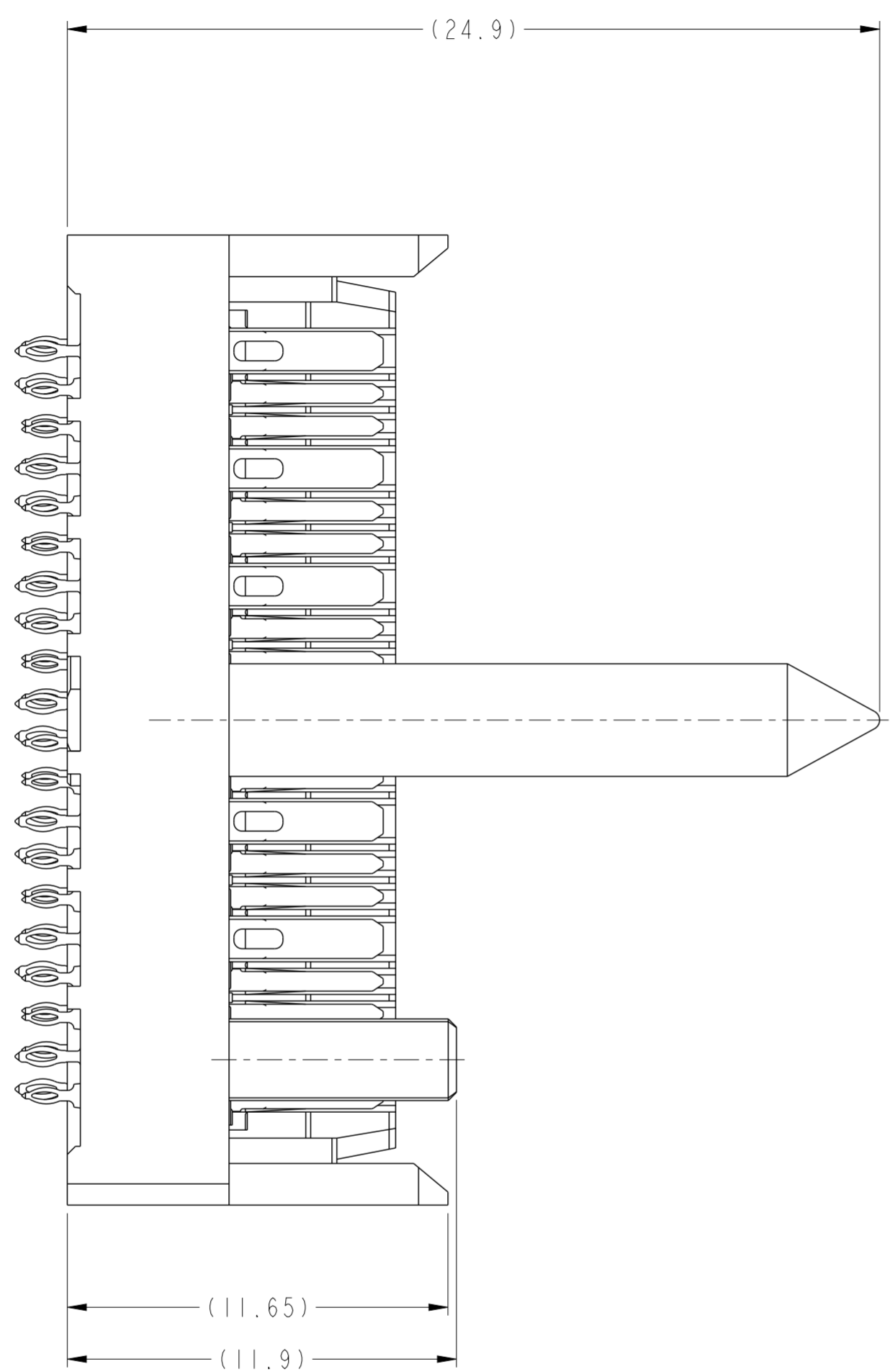
© 2016 AFci

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	2017/12/27			ecn no	ELX-DG-28887-1														
ASME Y14.5M		chr	Justin Chen	2017/12/27			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	2018/01/05	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			dwg no	10123162		rev	B												
			cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 5 of 11																

PDS: Rev :B

STATUS:Released

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1 2 3 4 5 6 7 8 9 10 11 12

10123162-Y1ALF THRU -Y1JLF
RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

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FCi

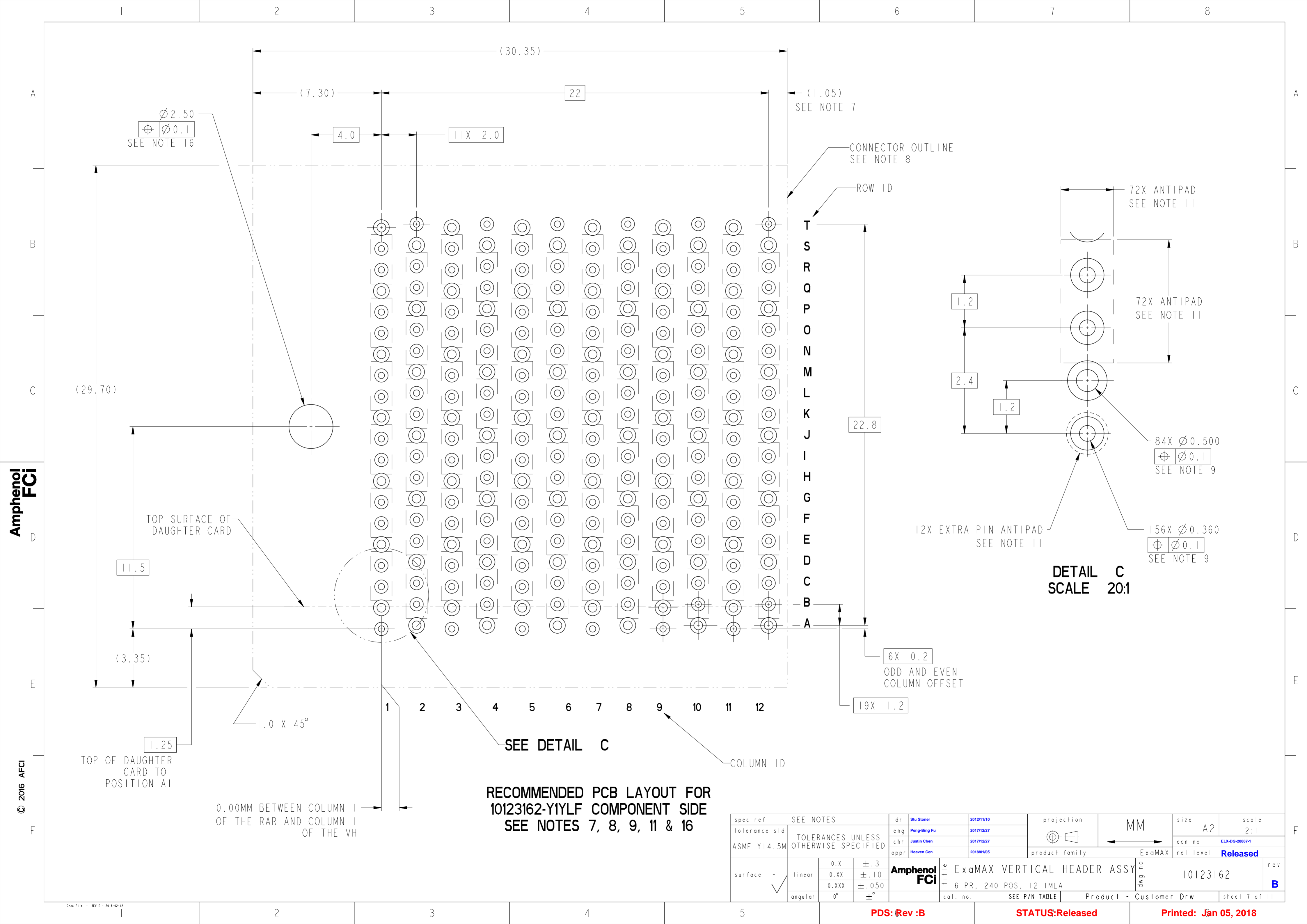
© 2016 AFCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/1/10	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/12/27			product family	ExaMAX		
surface	linear	0.X	±.3		title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA		dwg no	10123162	rev	B
		0.XX	±.10		cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 6 of 11		
	angular	0°	±°							

PDS: Rev :B

STATUS:Released

Printed: Jan 05, 2018



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**RECOMMENDED PCB LAYOUT FOR
10123162-Y1YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16**

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	2017/12/27			ecn no	ELX-DG-28887-1		
ASME Y14.5M		chr	Justin Chen	2017/12/27				rel level	Released	
surface	linear	0.X	±.3		product family	ExaMAX		title ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA cat. no. SEE P/N TABLE Product - Customer Drw sheet 7 of 11	dwg no 10123162 rev B	
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							

PDS: Rev :B

STATUS:Released

Printed: Jan 05, 2018

(29.70)

(30.35)

(7.30)

22

(1.05)
SEE NOTE 7

Ø2.50
Ø0.1
SEE NOTE 16

4.0

11X 2.0

CONNECTOR OUTLINE
SEE NOTE 8

ROW ID

T
S
R
Q
P
O
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H
G
F
E
D
C
B
A

72X ANTIPAD
SEE NOTE 11

72X ANTIPAD
SEE NOTE 11

22.8

84X Ø0.500
Ø0.1
SEE NOTE 9

12X EXTRA PIN ANTIPAD
SEE NOTE 11

156X Ø0.360
Ø0.1
SEE NOTE 9

DETAIL C
SCALE 20:1

6X 0.2
ODD AND EVEN
COLUMN OFFSET

19X 1.2

TOP SURFACE OF
DAUGHTER CARD

11.5

(3.35)

1.0 X 45°

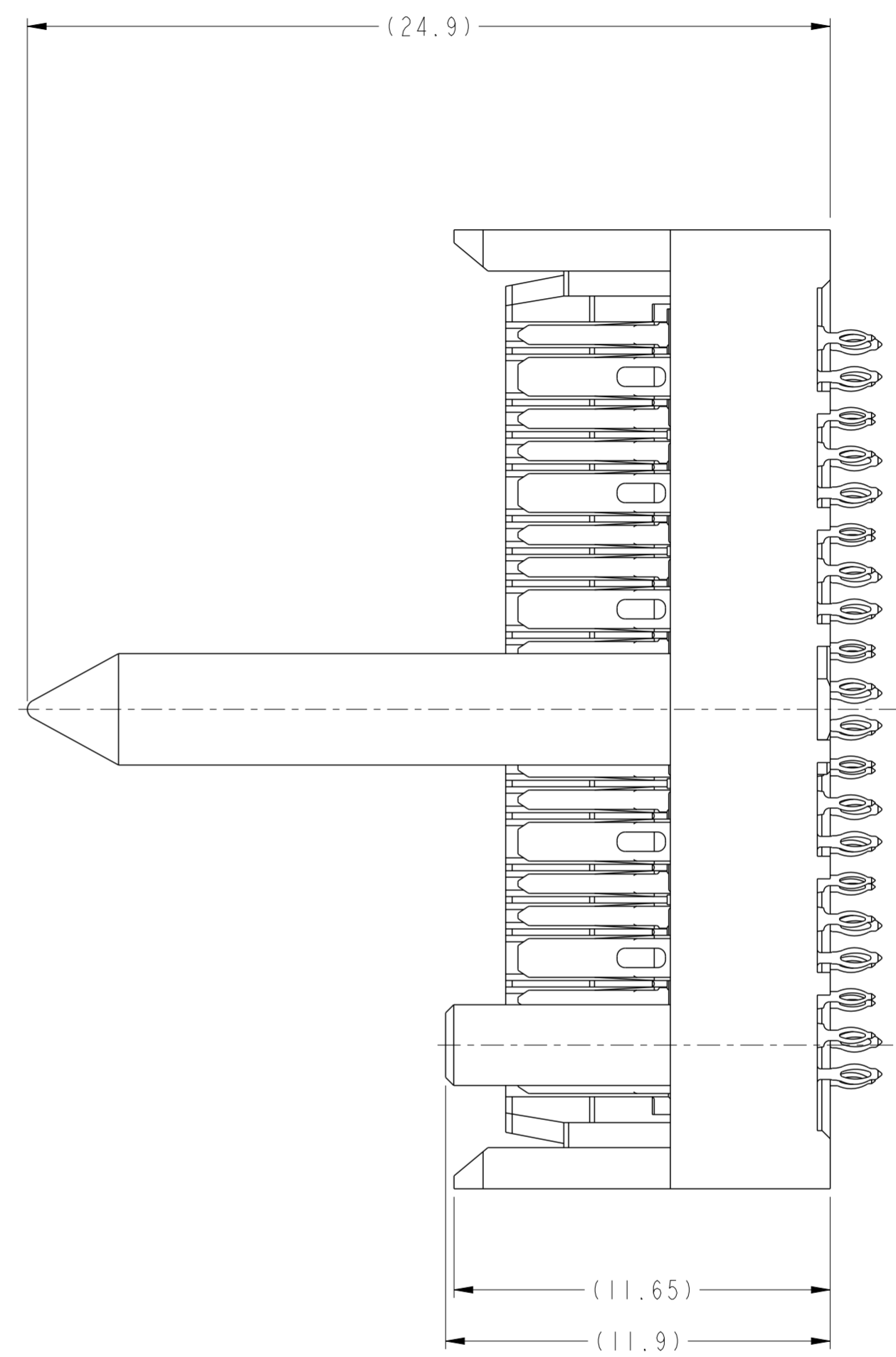
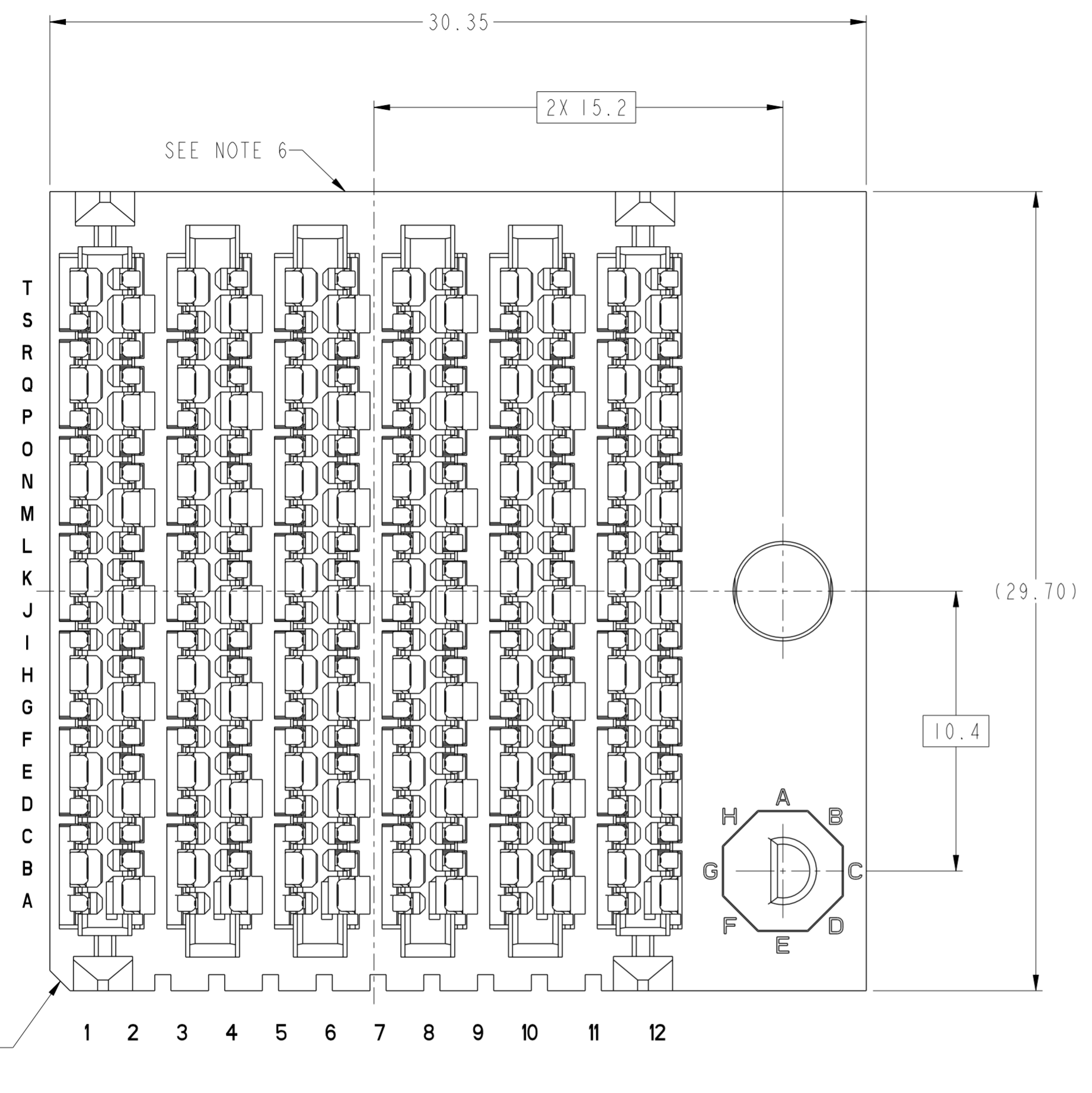
TOP OF DAUGHTER
CARD TO
POSITION A1

1.25

SEE DETAIL C

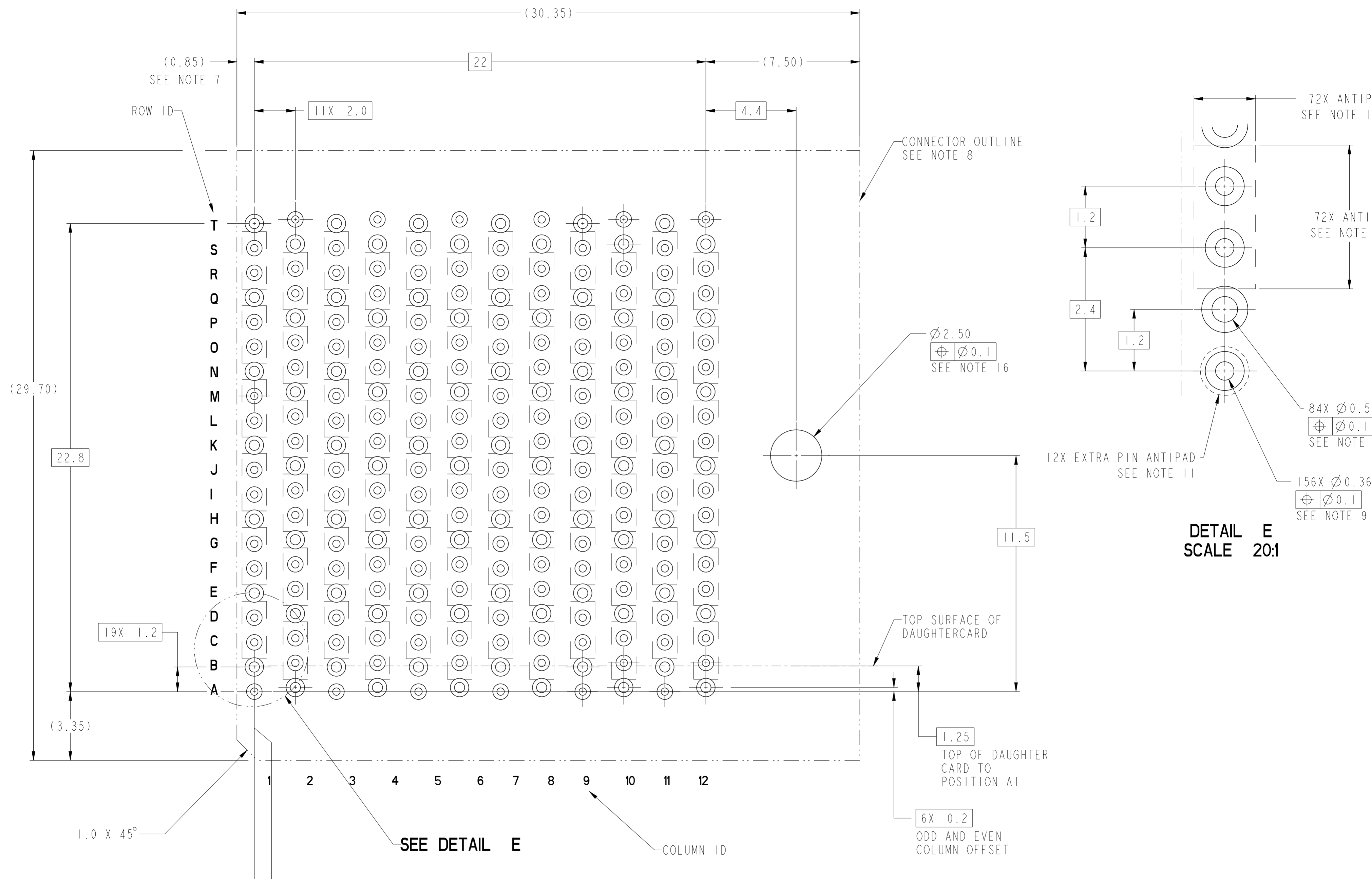
COLUMN ID

0.00MM BETWEEN COLUMN 1
OF THE RAR AND COLUMN 1
OF THE VH



10123162-Y2ALF THRU -Y2JLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

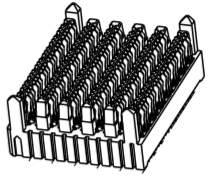
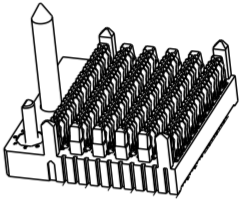
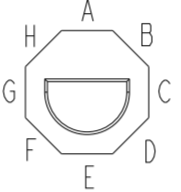
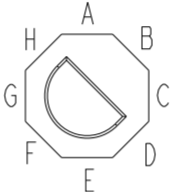
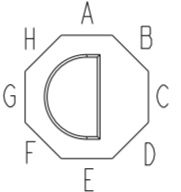
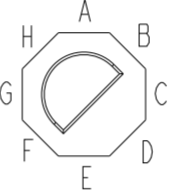
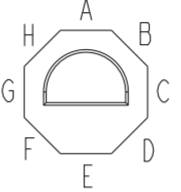
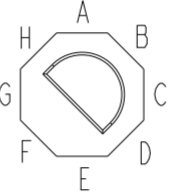
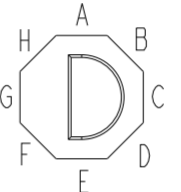
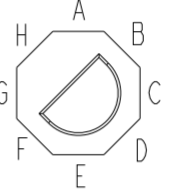
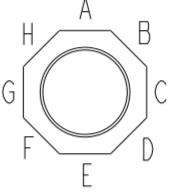
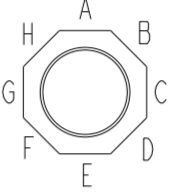
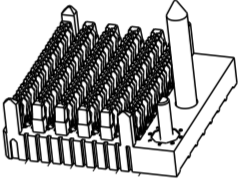
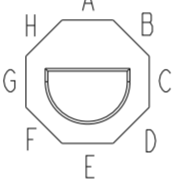

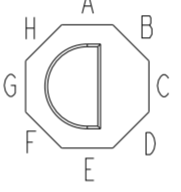
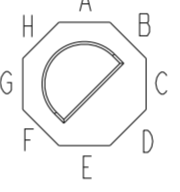
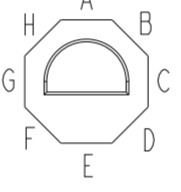
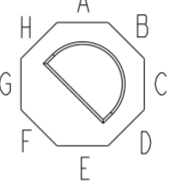
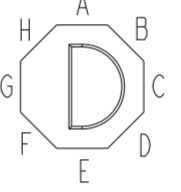

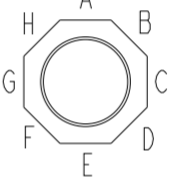
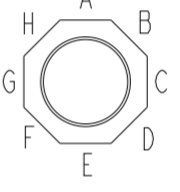
spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released										
ASME Y14.5M		chr	Justin Chen	2017/12/27			product family	ExaMAX												
		appr	Heaven Cen	2018/01/05																
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		dwg no	10123162	rev	B
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															



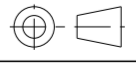
**RECOMMENDED PCB LAYOUT FOR
10123162-Y2YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16**

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	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released	
ASME Y14.5M		chr	Justin Chen	2017/12/27							
		appr	Heaven Cen	2018/01/05							
surface	linear	0.X	±.3	Amphenol FCi	title ExdMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA	product family ExdMAX	rel no 10123162	rev B	cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 9 of 11
		0.XX	±.10								
		0.XXX	±.050								
	angular	0°	±°								

10123162 - Y Y Y L F

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)		
											

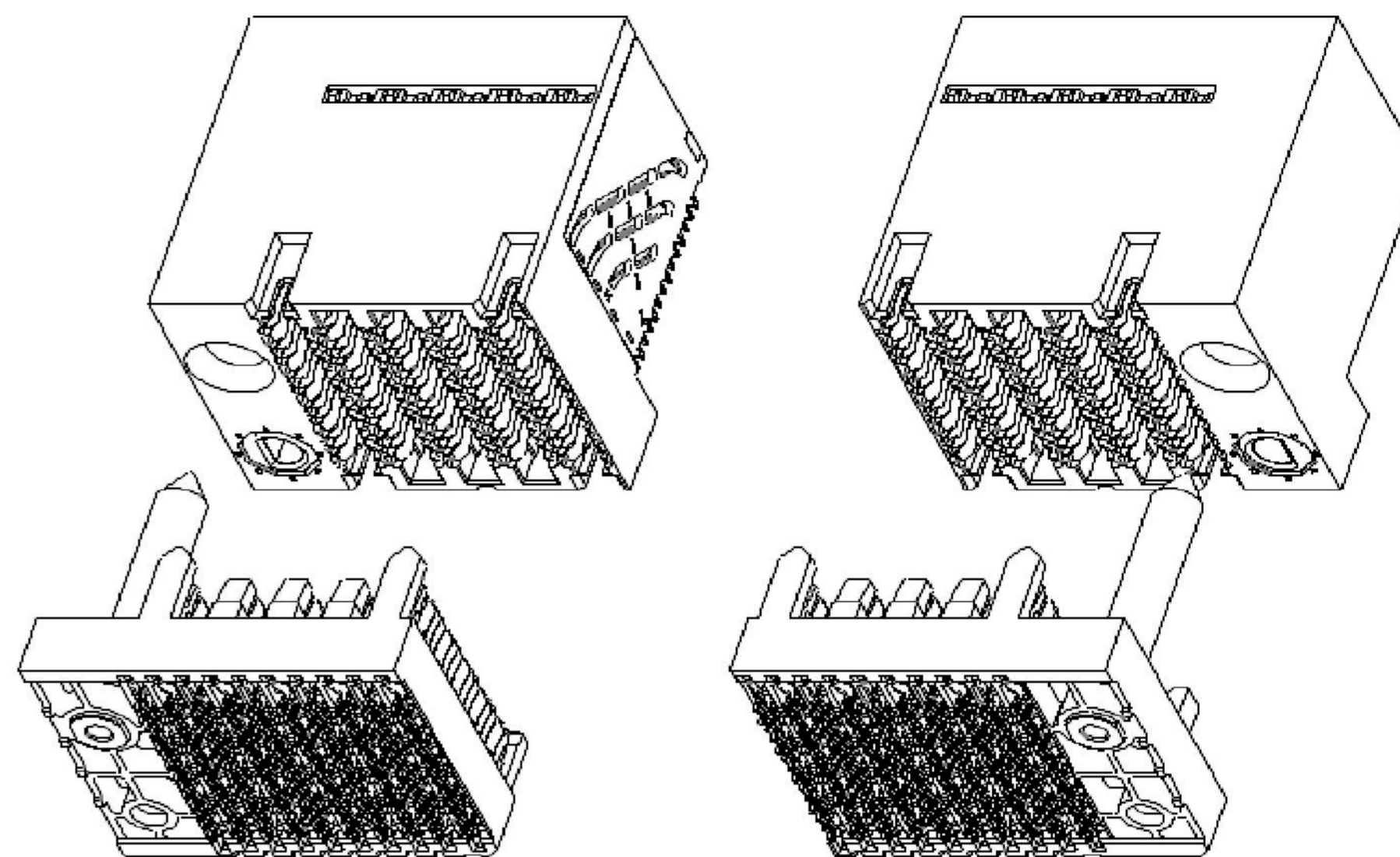
ASSEMBLY PART NUMBER	DESCRIPTION
10123162-1YYLF	STANDARD MATE
10123162-2YYLF	ADVANCED MATE
10123162-3YYLF	SHORT DETECT
10123162-4YYLF	ADVANCED MATE & SHORT DETECT

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	2017/12/27		← →	ecn no	ELX-DG-28887-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/12/27						
		appr	Heaven Cen	2018/01/05						
surface	linear	0.X	±.3	Amphenol FCI	title	ExdMAX VERTICAL HEADER ASSY	dwg no	10123162	rev	B
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 10 of 11			

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:
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

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, 10123162-2YYLF, 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, 10123162-3YYLF, 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, 10123162-4YYLF, 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	2012/1/10	projection	MM	size	A2	scale	2:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1														
ASME Y14.5M		chr	Justin Chen	2017/12/27			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	2018/01/05	product family	ExaMAX	rel level	Released		
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 B															
		cat. no.		SEE P/N TABLE	Product - Customer Drw		sheet 11 of 11															