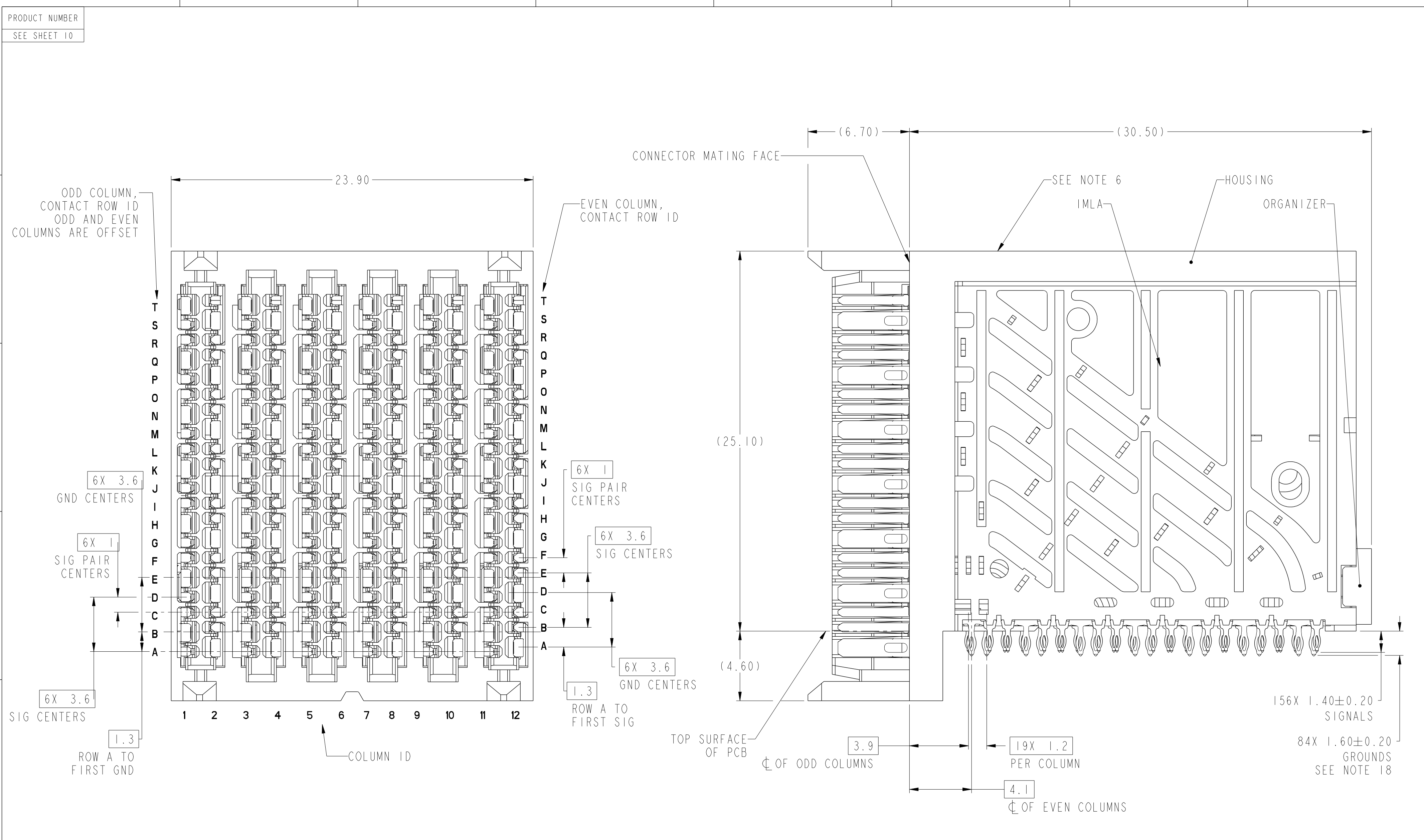


PRODUCT NUMBER
SEE SHEET 10



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

EVEN COLUMN,
CONTACT ROW ID

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B
A

6X 3.6
GND CENTERS

6X 1
SIG PAIR CENTERS

6X 3.6
SIG CENTERS

1.3
ROW A TO FIRST GND

6X 1
SIG PAIR CENTERS

6X 3.6
SIG CENTERS

6X 3.6
GND CENTERS

1.3
ROW A TO FIRST SIG

**10124560-101LF
STANDARD MATE CONNECTOR**

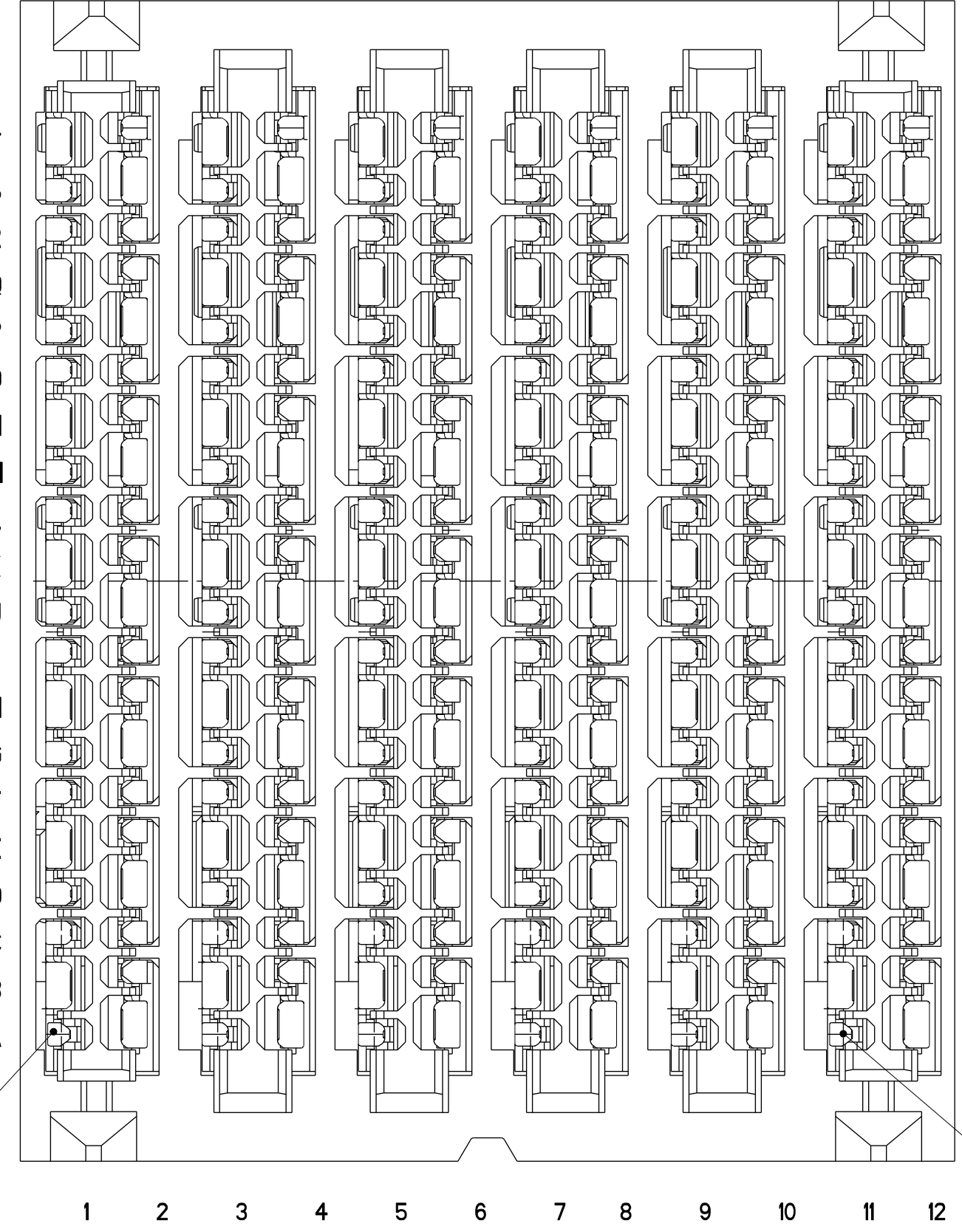
spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/19						
surface	linear	appr	Pei-Ming Zheng	2017/01/19	product family	ExaMAX	rel level	Released	cat. no.	10124560
	angular									
	0.X	±.3								
	0.XX	±.10								
	0.XXX	±.050								
	0°	±°								

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FCi

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1 2 3 4 5 6 7 8

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ADVANCED MATE POSITION A1
SEE NOTE 13

ADVANCED MATE POSITION A11
SEE NOTE 13

10124560-201LF
ADVANCED MATE CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
 FOR ALL DIMENSIONS SEE 10124560-101LF ON SHEET 1

**Amphenol
FCi**

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spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	6:1
tolerance std	ASME Y14.5M	eng	Justin Chen	2017/01/19			ecn no	-		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/19			rel level	Released		
surface	-	appr	Pei-Ming Zheng	2017/01/19	product family	ExaMAX	rel level	Released		
linear 	0.X	±.3	Amphenol FCi	title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 240 POS, 12 IMLA, 2MM		dwg no 10124560	rev A			
	0.XX	±.10								
	0.XXX	±.050								
angular	0°	±°	cat. no.	Product - Customer Drw		sheet 2 of 11				

1 2 3 4 5 6 7 8

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A

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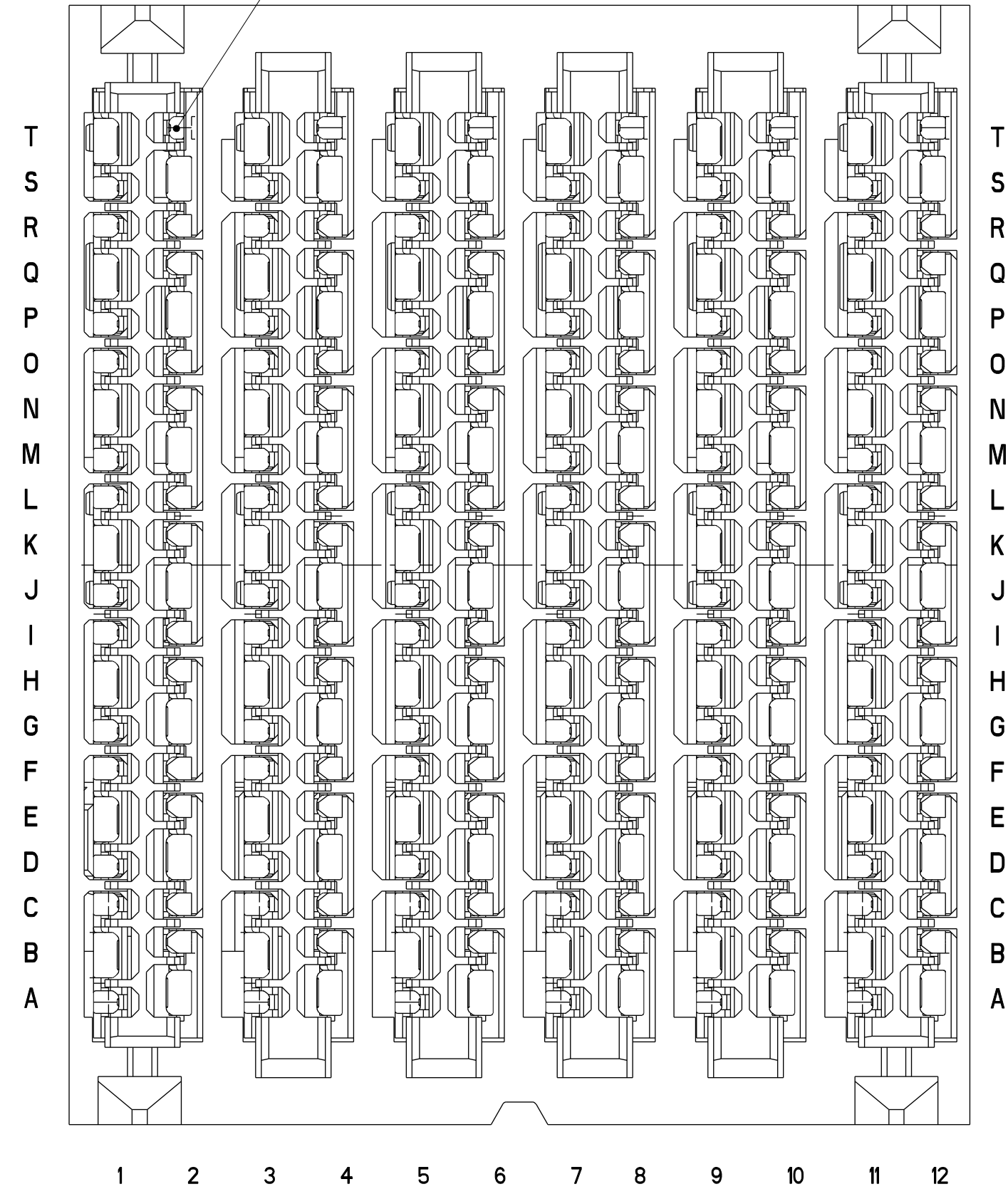
C

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SHORT DETECT
POSITION T2
SEE NOTE 14

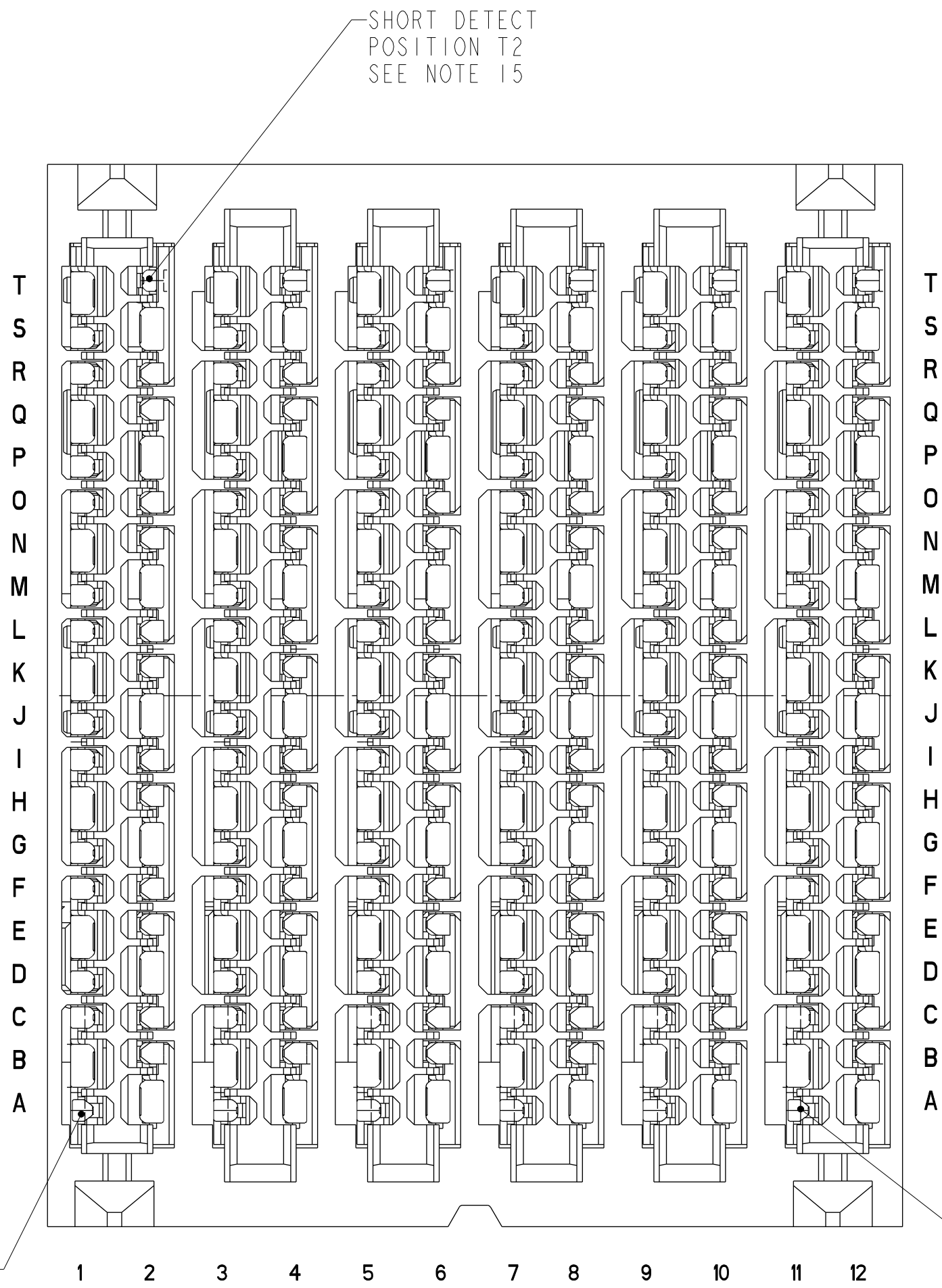


10124560-301LF
SHORT DETECT CONNECTOR
 SHORT DETECT POSITION IS T2 ONLY
 FOR ALL DIMENSIONS SEE 10124560-101LF ON SHEET 1

**Amphenol
FCi**

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spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	6:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-												
ASME Y14.5M		chr	Heaven Cen	2017/01/19			rel level	Released												
surface	<table border="1"> <tr> <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>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3	0.XX	±.10	0.XXX	±.050	angular	0°	±°	appr	Pei-Ming Zheng	2017/01/19	product family	ExaMAX	rel level	Released		
linear	0.X		±.3																	
	0.XX		±.10																	
	0.XXX	±.050																		
angular	0°	±°																		
				title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 240 POS, 12 IMLA, 2MM		dwg no 10124560	rev A													
		cat. no.		Product - Customer Drw		sheet 3 of 11														



10124560-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
 SHORT DETECT POSITION IS T2 ONLY
 FOR ALL DIMENSIONS SEE 10124560-101LF ON SHEET 1

**Amphenol
FCi**

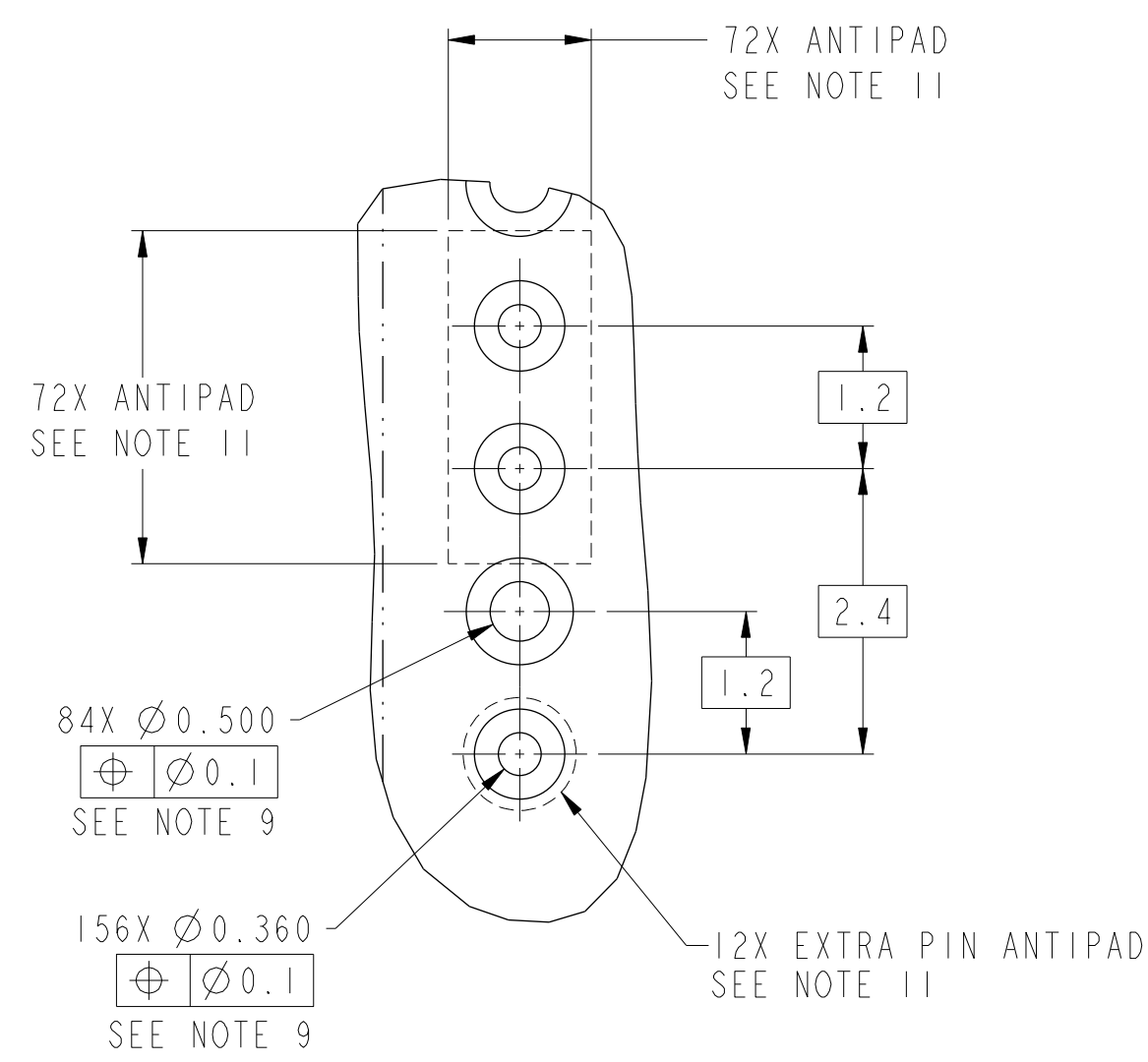
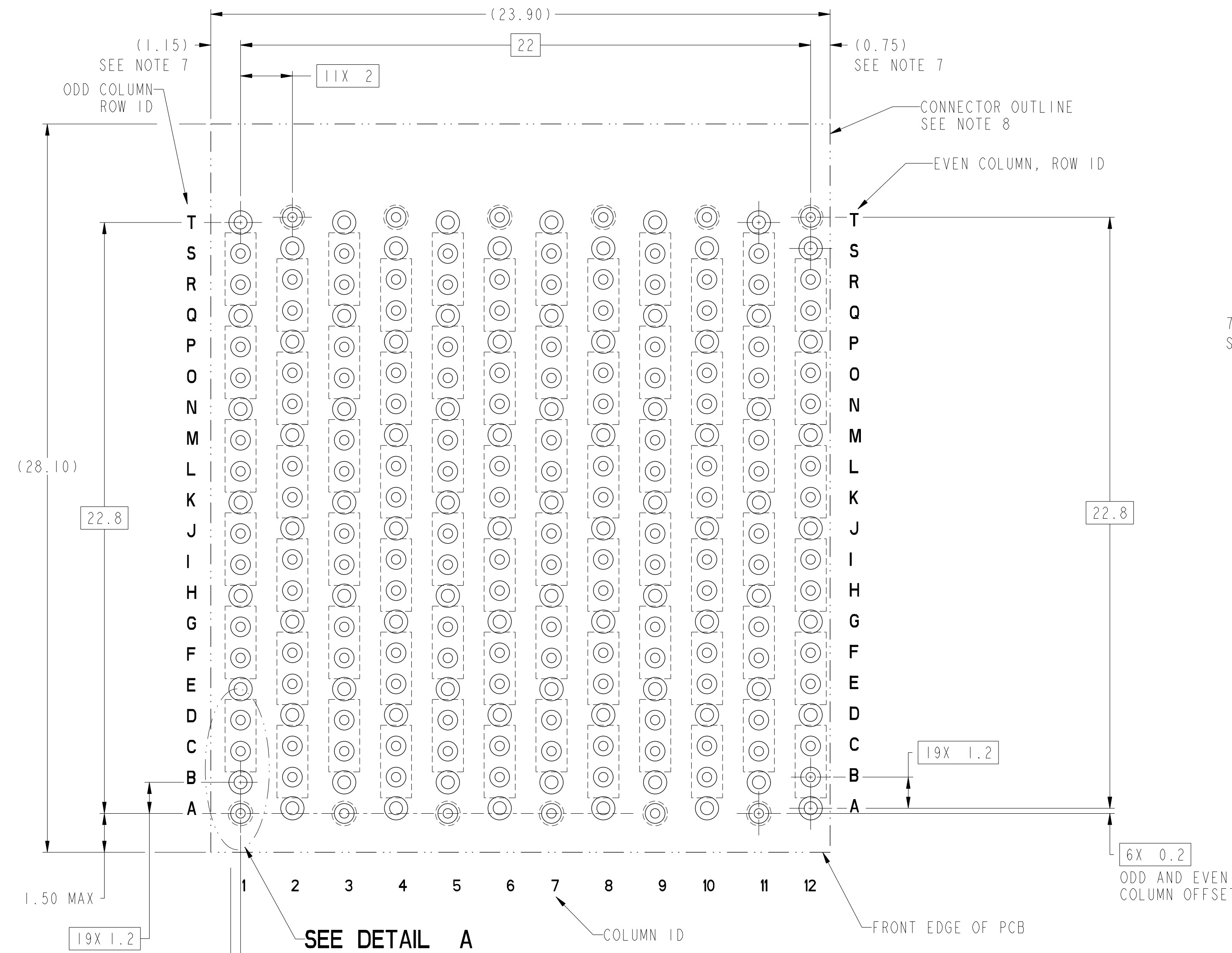
© 2016 AFci

spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	1:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-														
ASME Y14.5M		chr	Heaven Cen	2017/01/19			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	Pei-Ming Zheng	2017/01/19	product family	ExaMAX	rel level	Released		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 240 POS, 12 IMLA, 2MM		dwg no 10124560	rev A															
		cat. no.		Product - Customer Drw		sheet 4 of 11																

PDS: Rev :A

STATUS:Released

Printed: Jan 20, 2017



DETAIL A
SCALE 16:1

**RECOMMENDED PCB LAYOUT FOR
10124560-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/19						
surface	linear	appr	Pei-Ming Zheng	2017/01/19	product family	ExaMAX	rel level	Released	cat. no.	Product - Customer Drw
	angular				title	ExaMAX RIGHT-ANGLE HDR	rel level	Released	cat. no.	Product - Customer Drw
					assy	ASSY 6 PR, 240 POS, 12 IMLA, 2MM	rel level	Released	cat. no.	Product - Customer Drw
					dwg no	10124560	rel level	Released	cat. no.	Product - Customer Drw
					rev	A	rel level	Released	cat. no.	Product - Customer Drw

1 2 3 4 5 6 7 8

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A

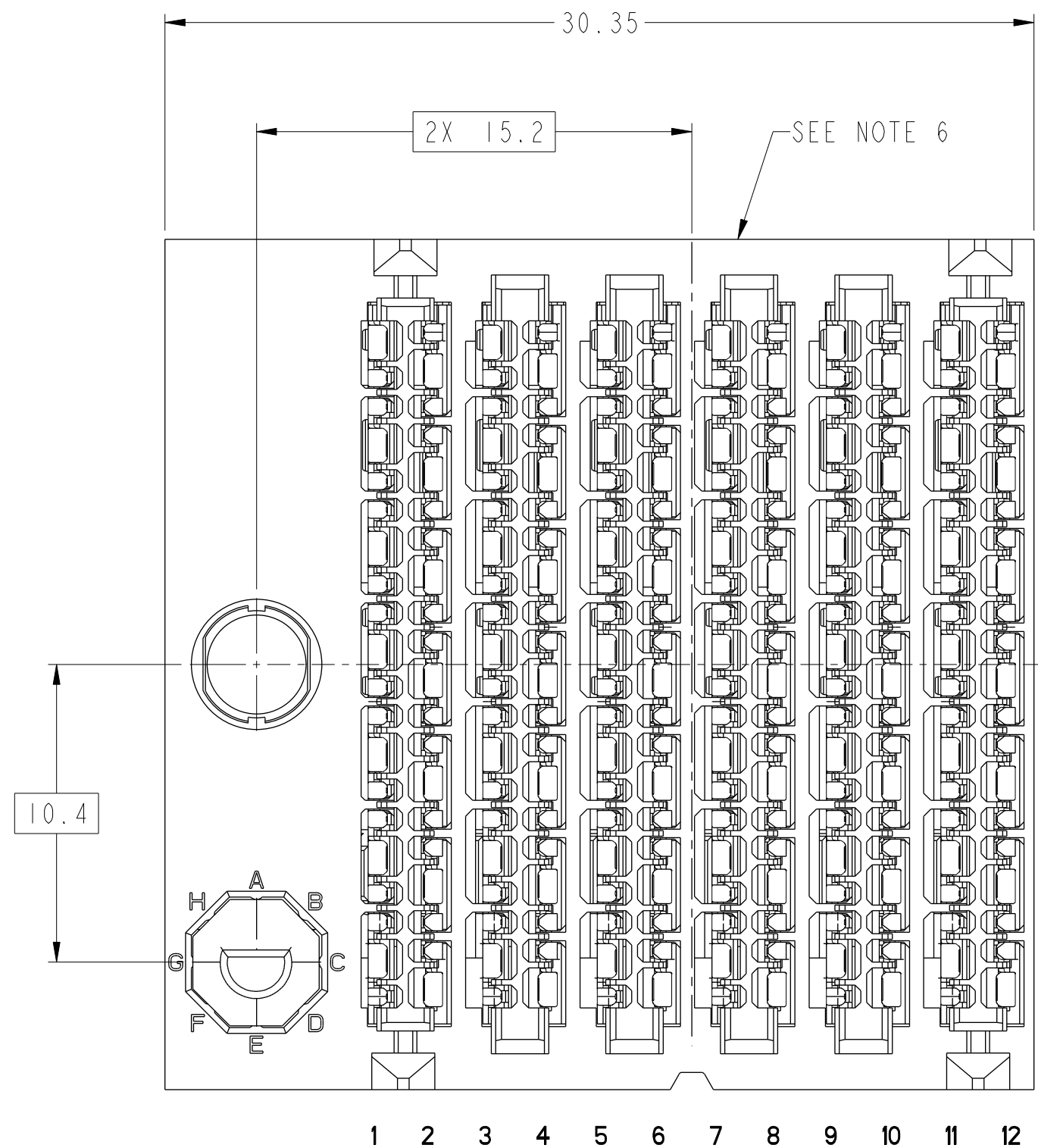
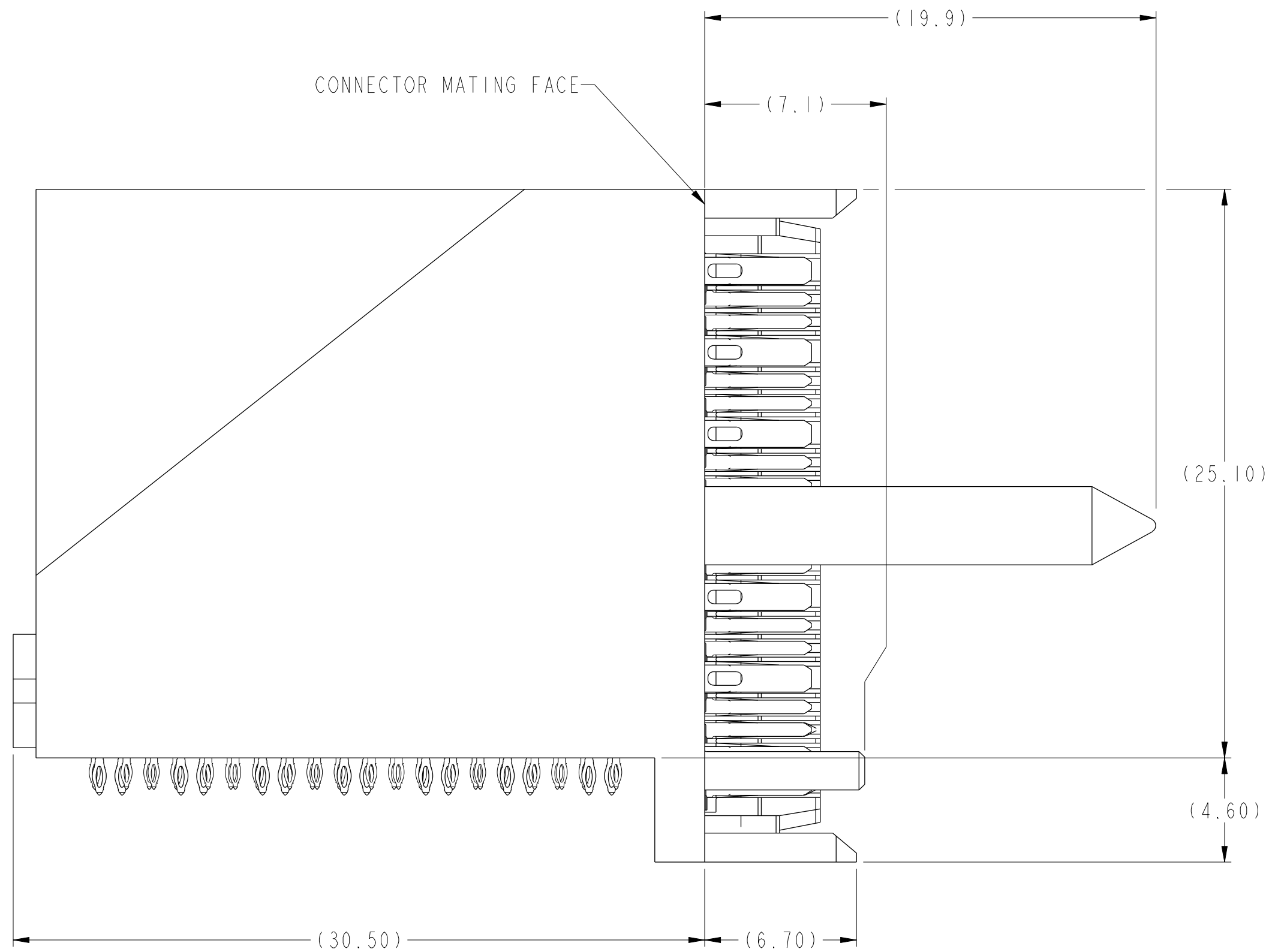
B

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10124560-Y1ALF THRU -Y1JLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol
 FCI

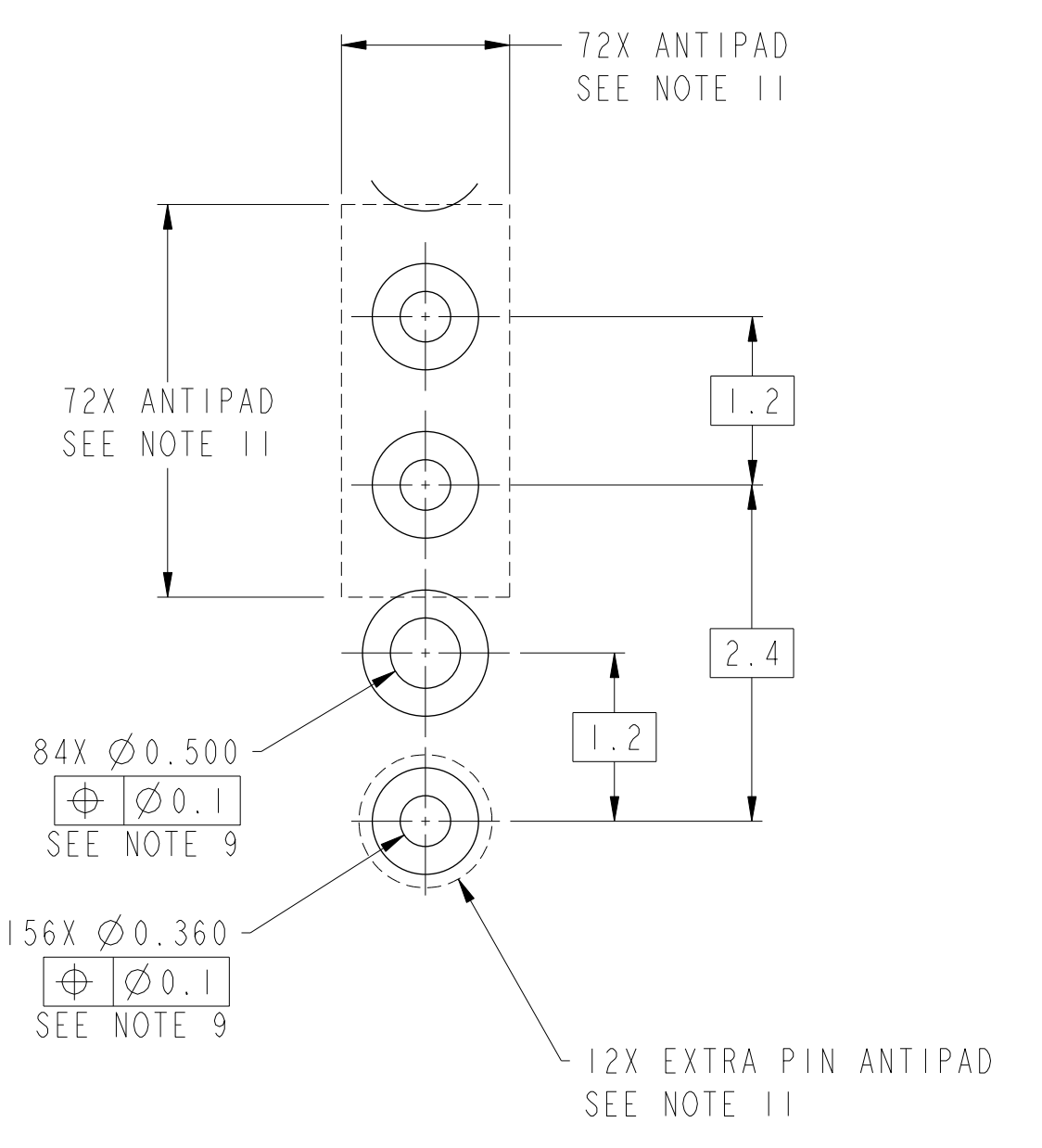
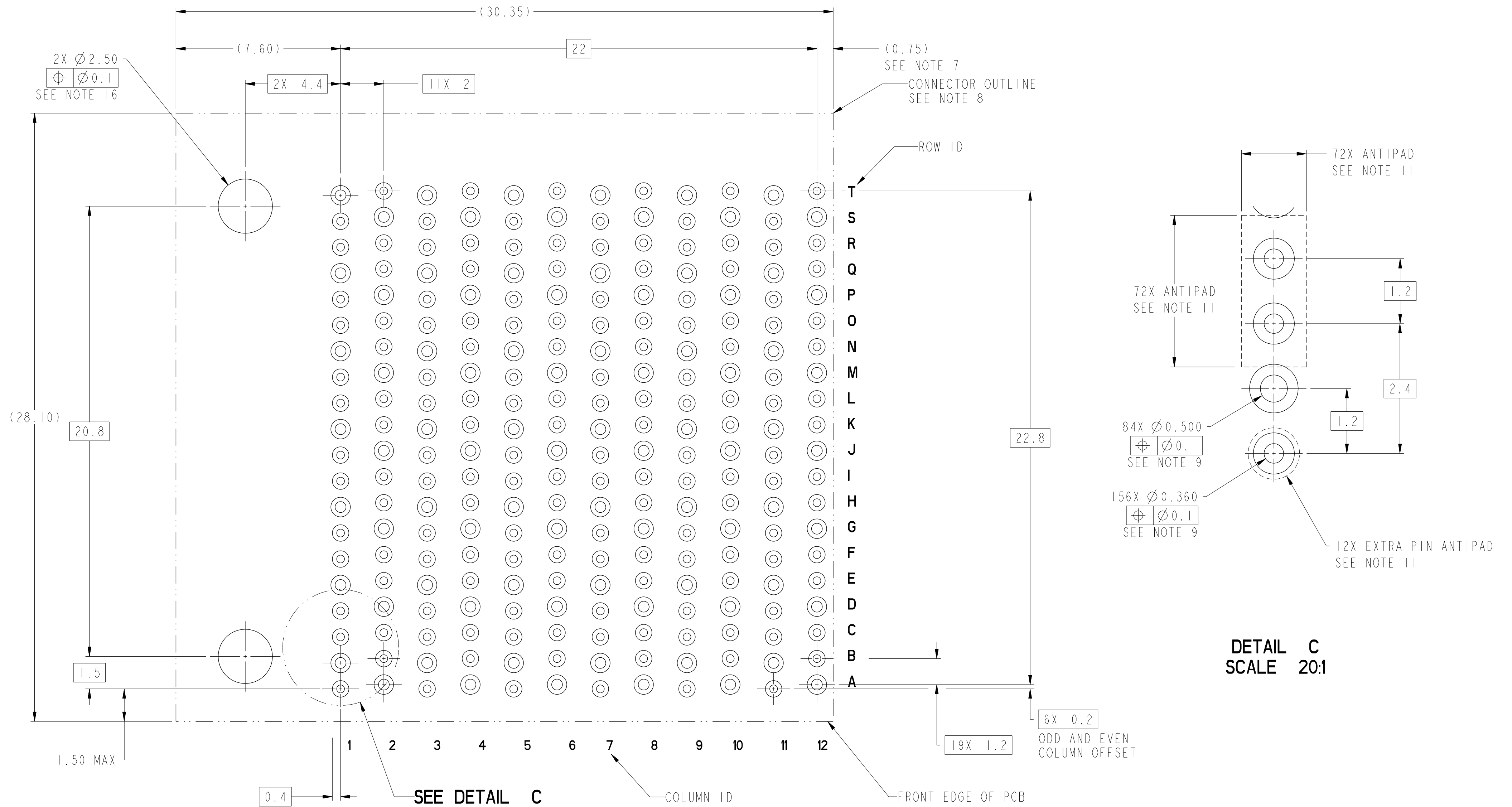
© 2016 APCI

spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	6:1								
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-	rel level	Released								
ASME Y14.5M		chr	Heaven Cen	2017/01/19														
		appr	Pei-Ming Zheng	2017/01/19														
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 RIGHT-ANGLE HDR ASSY 6 PR, 240 POS, 12 IMLA, 2MM	cat. no. Product - Customer Drw	dwg no 10124560	rev A
-	linear			0.X	±.3													
				0.XX	±.10													
		0.XXX	±.050															
	angular	0°	±°															

PDS: Rev :A

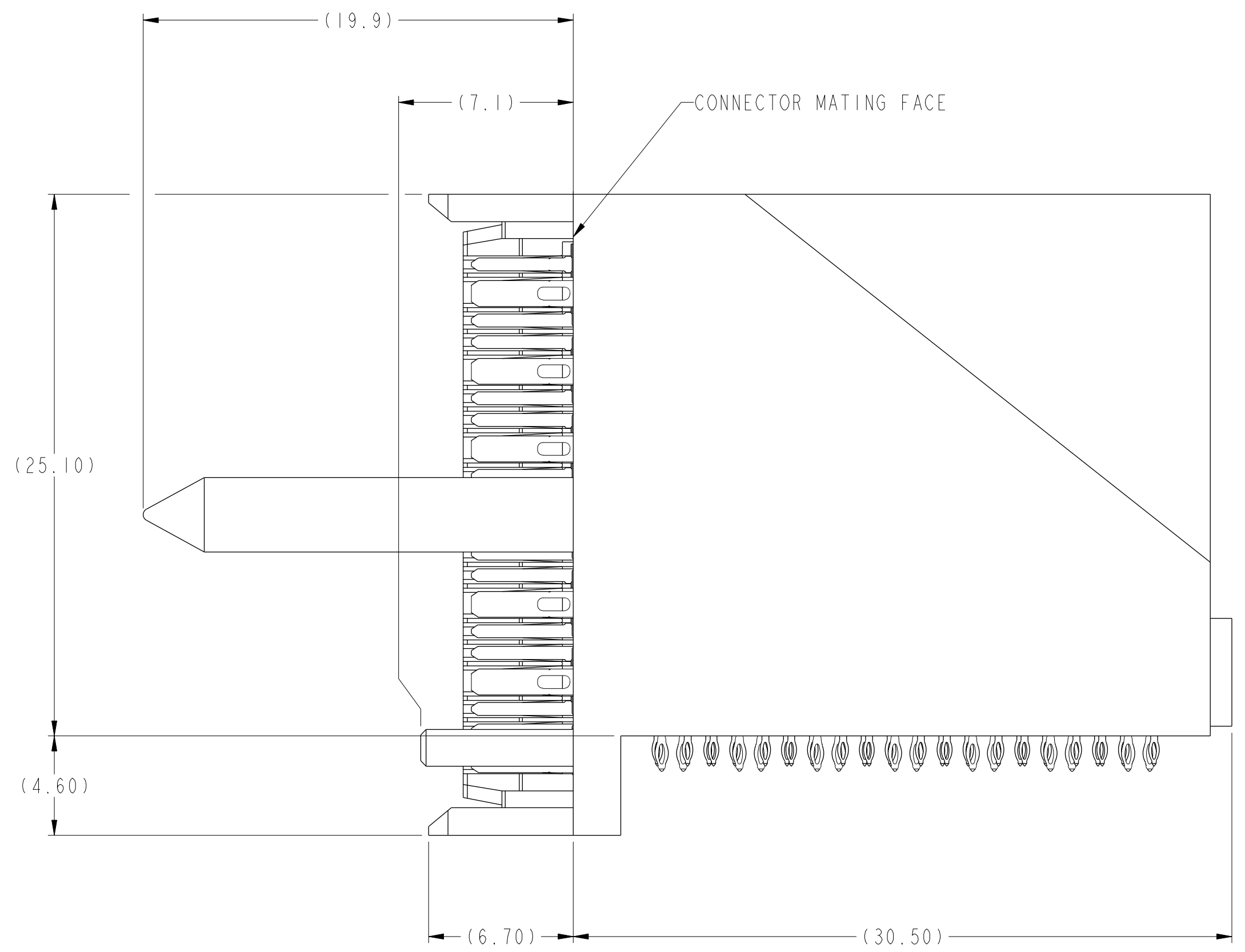
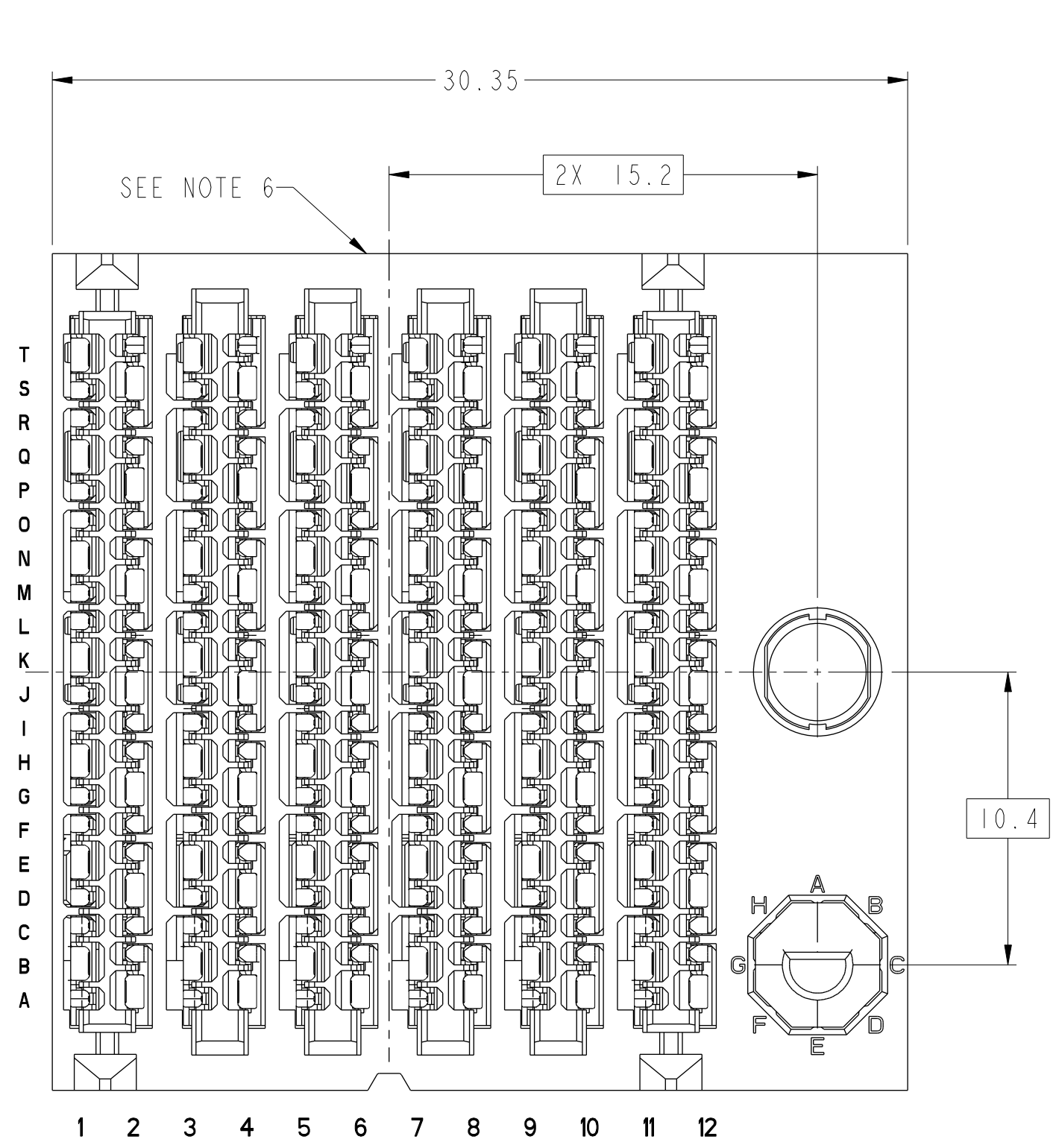
STATUS:Released

Printed: Jan 20, 2017



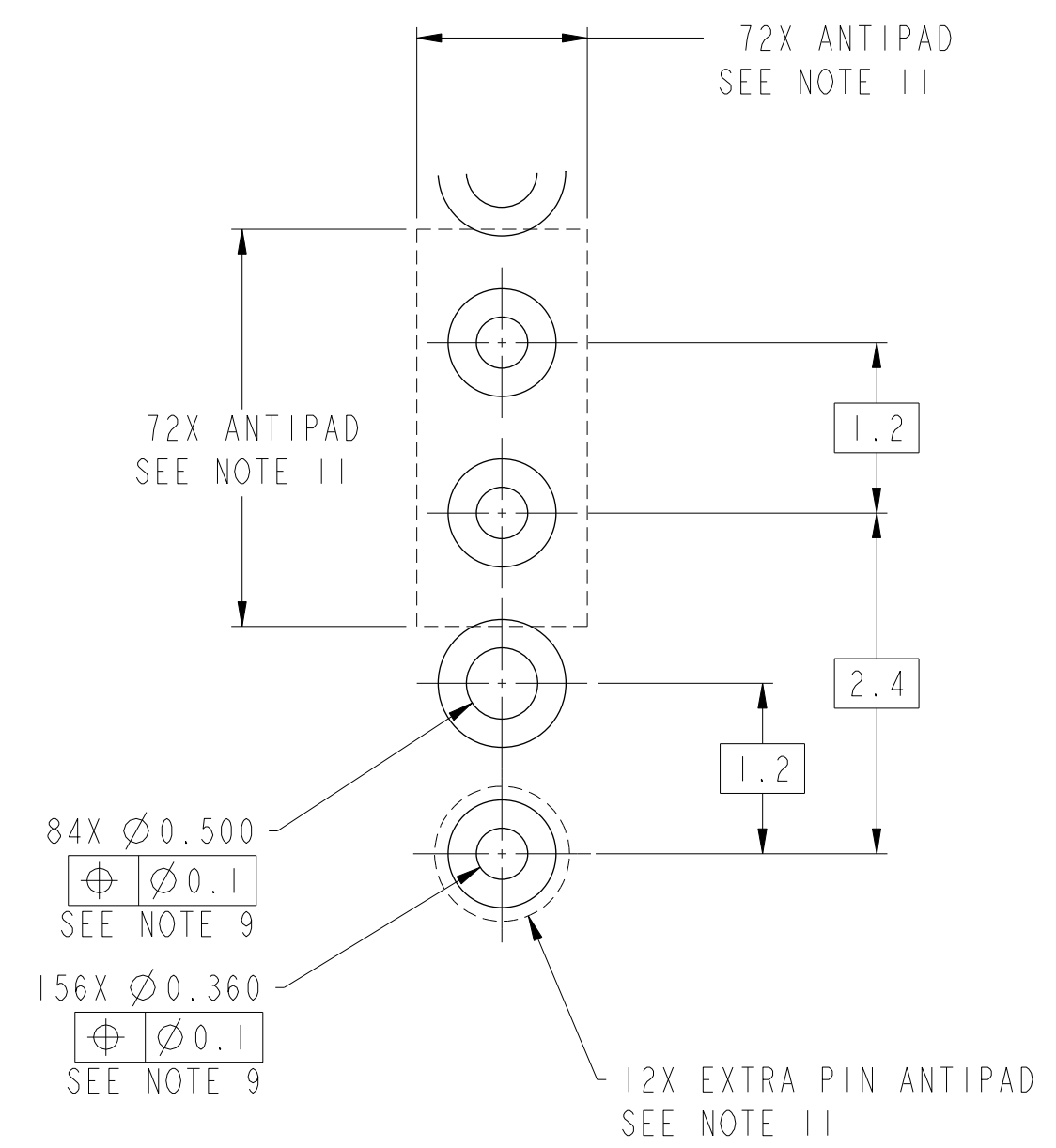
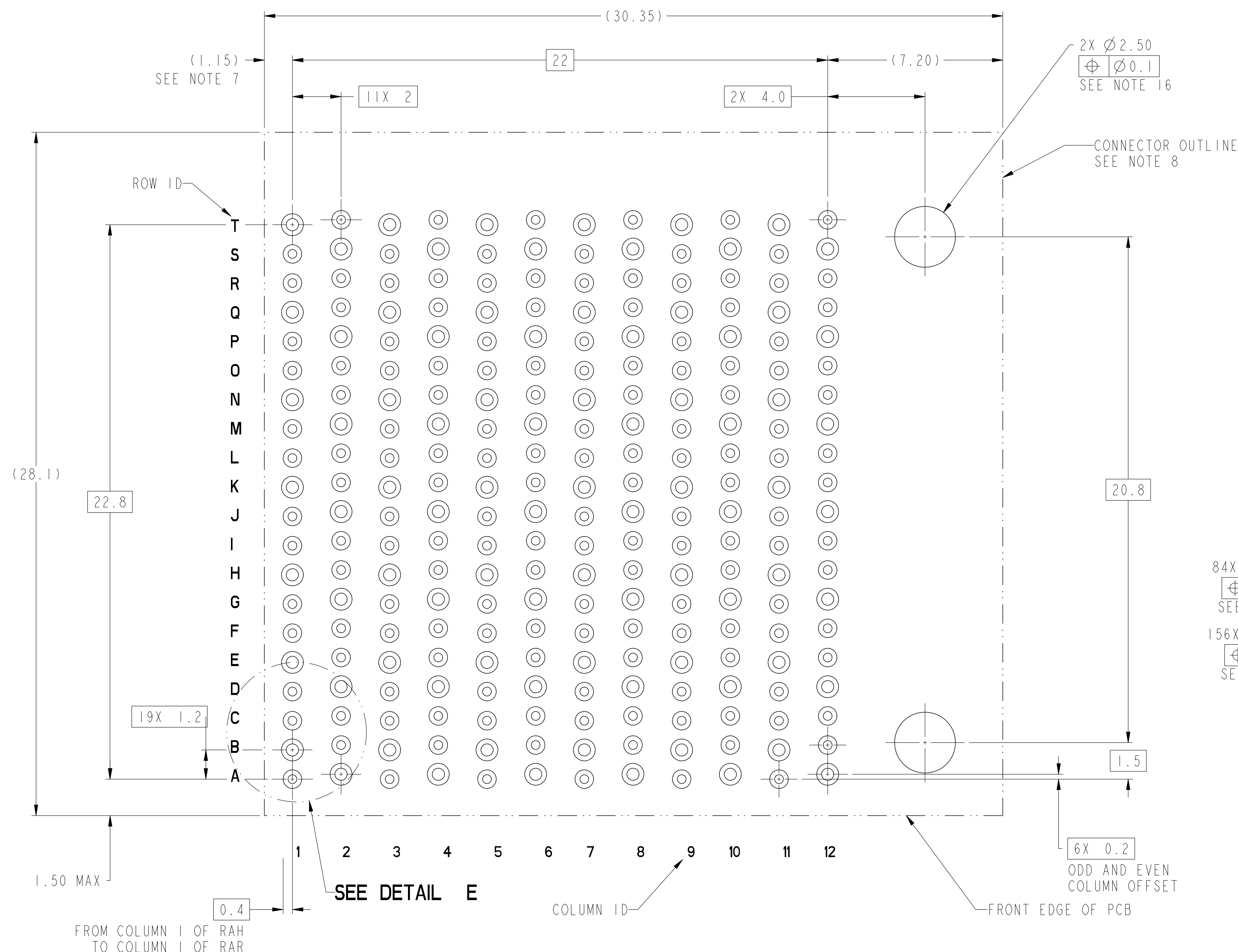
**RECOMMENDED PCB LAYOUT FOR
10124560-Y1ALF THRU -Y1JLF
w/RIGHT GUIDANCE AND NO END WALLS
COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16**

spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-	rel level	Released	
ASME Y14.5M		chr	Heaven Cen	2017/01/19							
surface	linear	appr	Pei-Ming Zheng	2017/01/19	product family	ExaMAX	rel level	Released	cat. no.	10124560	
	angular									rev	A
										Product - Customer Drw	sheet 7 of 11



10124560-Y2ALF THRU -Y2JLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	6:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-	rel level	Released									
ASME Y14.5M		chr	Heaven Cen	2017/01/19															
		appr	Pei-Ming Zheng	2017/01/19															
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 RIGHT-ANGLE HDR ASSY 6 PR, 240 POS, 12 IMLA, 2MM		dwg no 10124560	rev A
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±°																	
		cat. no.	Product - Customer Drw			sheet 8 of 11													



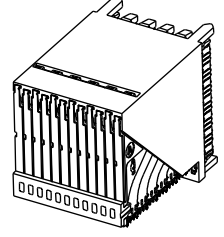
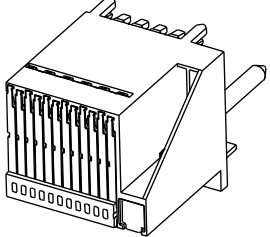
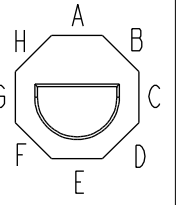
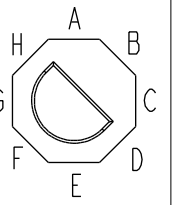
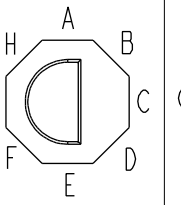
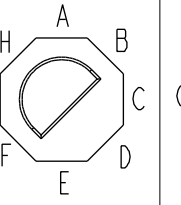
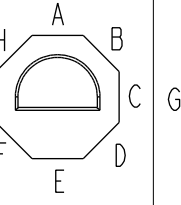
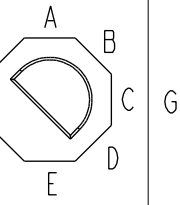
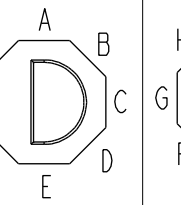
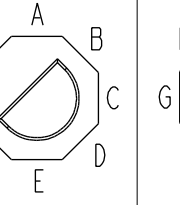
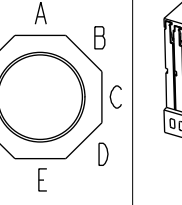
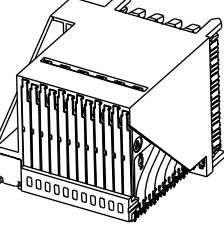
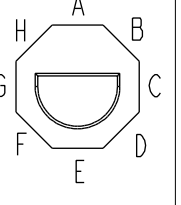
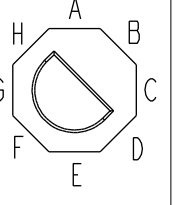
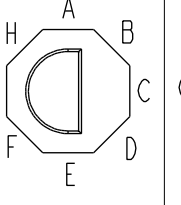
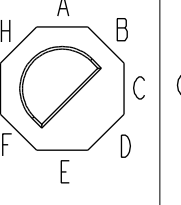
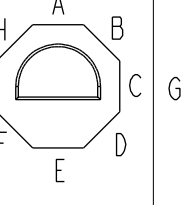
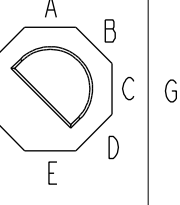
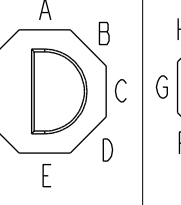
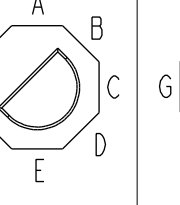
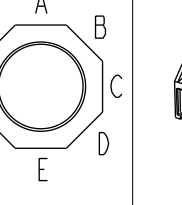
DETAIL E
SCALE 20:1

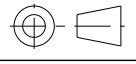
**RECOMMENDED PCB LAYOUT FOR
10124560-Y2ALF THRU -Y2JLF
w/LEFT GUIDANCE AND NO END WALLS
COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16**

spec ref	SEE NOTES	dr	Stu Stoner	2013/11/19	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/19						
		appr	Pei-Ming Zheng	2017/01/19						
surface	linear	0.X	±.3		product family ExaMAX	title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 240 POS, 12 IMLA, 2MM	dwg no 10124560	rev A	cat. no. Product - Customer Drw	sheet 9 of 11
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							

10124560 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10124560-1YYLF	STANDARD MATE
10124560-2YYLF	ADVANCED MATE
10124560-3YYLF	SHORT DETECT
10124560-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
STANDARD NO GUIDANCE (SEE SHEET 1)	01										
RIGHT GUIDANCE MODULE (SEE SHEET 6)	1A	1B	1C	1D	1E	1F	1G	1H	1J (NO KEY)		
											
LEFT GUIDANCE MODULE (SEE SHEET 8)	2A	2B	2C	2D	2E	2F	2G	2H	2J (NO KEY)		
											

spec ref	SEE NOTES	dr	Stu Stoner	2013/1/19	projection	MM	size	A2	scale	1:1	
tolerance std	ASME Y14.5M	eng	Justin Chen	2017/01/19		← →	ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/19							product family
surface	- ✓	linear	0.X	±.3	Amphenol FCI	title	ExaMAX RIGHT-ANGLE HDR	drg no	10124560	rev	A
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±°	cat. no.	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
ORGANIZER: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
- 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 THE APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTHS, TRACE SPACING, ETC.
- 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, 10124560-2YYLF, 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, 10124560-3YYLF, WHEN MATED WITH A STANDARD MATE RECEPTACLE WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮- THE ADVANCED MATE/SHORT DETECT HEADER, 10124560-4YYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75 MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS AND 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑯- FOR CONNECTORS WITH EITHER A RIGHT OF LEFT GUIDE MODULE, TWO PHILLIPS PAN HEAD M2 HOLD-DOWN SCREWS MUST BE USED TO SECURE THE CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE 2.0-6.0mm PLUS THE THICKNESS OF THE PCB BOARD. SCREWS ARE NOT PROVIDED WITH THE CONNECTOR.
- ⑰- LEFT / RIGHT INTEGRATED GUIDE ORIENTATION IS DETERMINED BY THE LOCATION OF THE GUIDE FEATURE WHEN LOOKING AT THE MATING FACE OF THE RIGHT ANGLE RECEPTACLE THAT IT MATES WITH (i. e. A RIGHT GUIDE RIGHT ANGLE HEADER MATES WITH A RIGHT GUIDE RIGHT ANGLE RECEPTACLE.)
- ⑱- ALL GROUND CONTACTS ARE COMMONED WITHIN A COLUMN.

spec ref	SEE NOTES	dr	Stu Stoner	2013/1/19	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Justin Chen	2017/01/19		← →	ecn no	-		
ASME Y14.5M		chr	Heaven Cen	2017/01/19			rel level	Released		
surface	linear	appr	Pei-Ming Zheng	2017/01/19	product family	ExaMAX	cat. no.	10124560	rev	A
	angular	Amphenol FCI		title		ExaMAX RIGHT-ANGLE HDR		sheet 11 of 11		
				ASSY 6 PR, 240 POS, 12 IMLA, 2MM		Product - Customer Drw				

Amphenol FCI

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