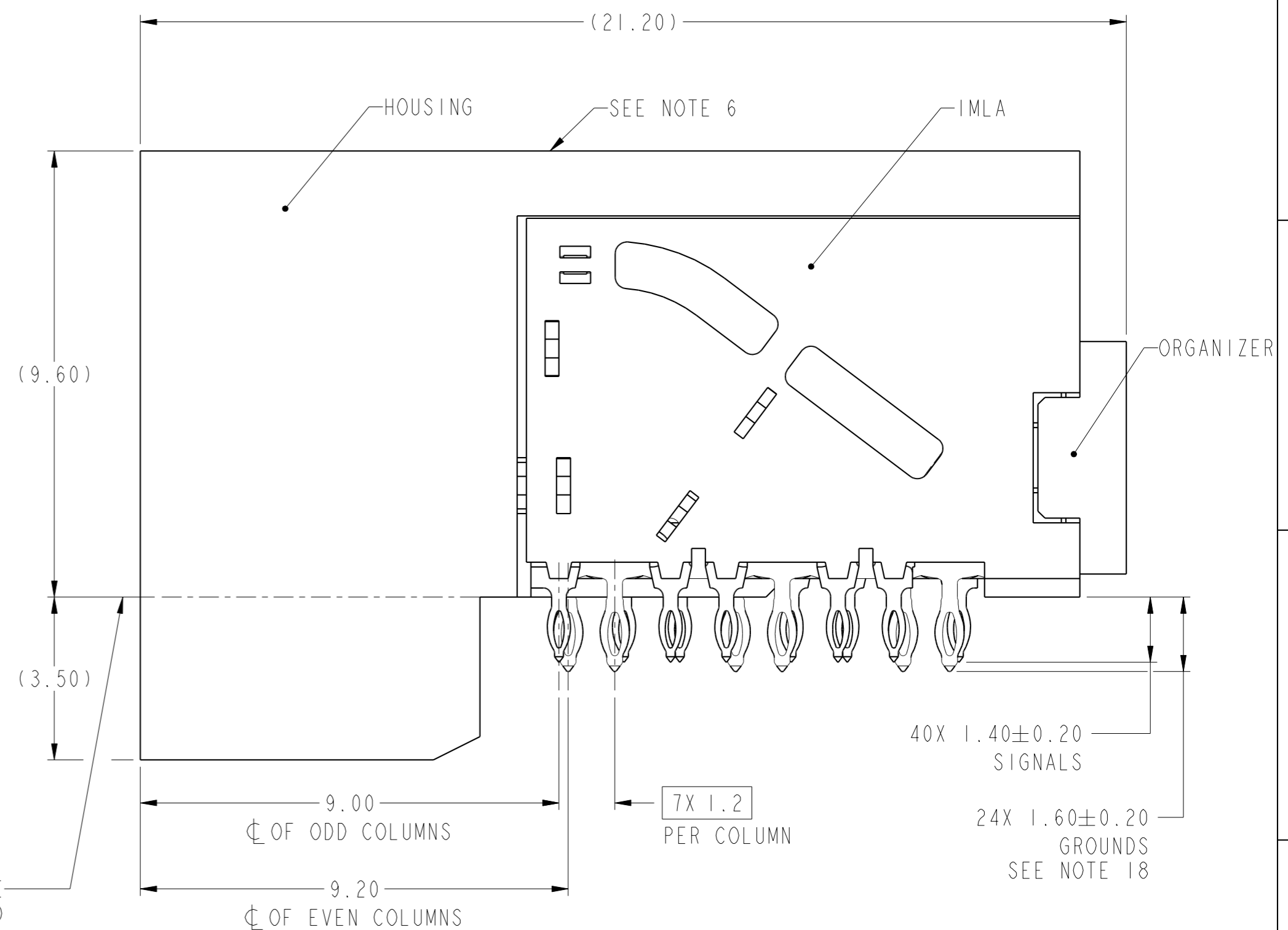
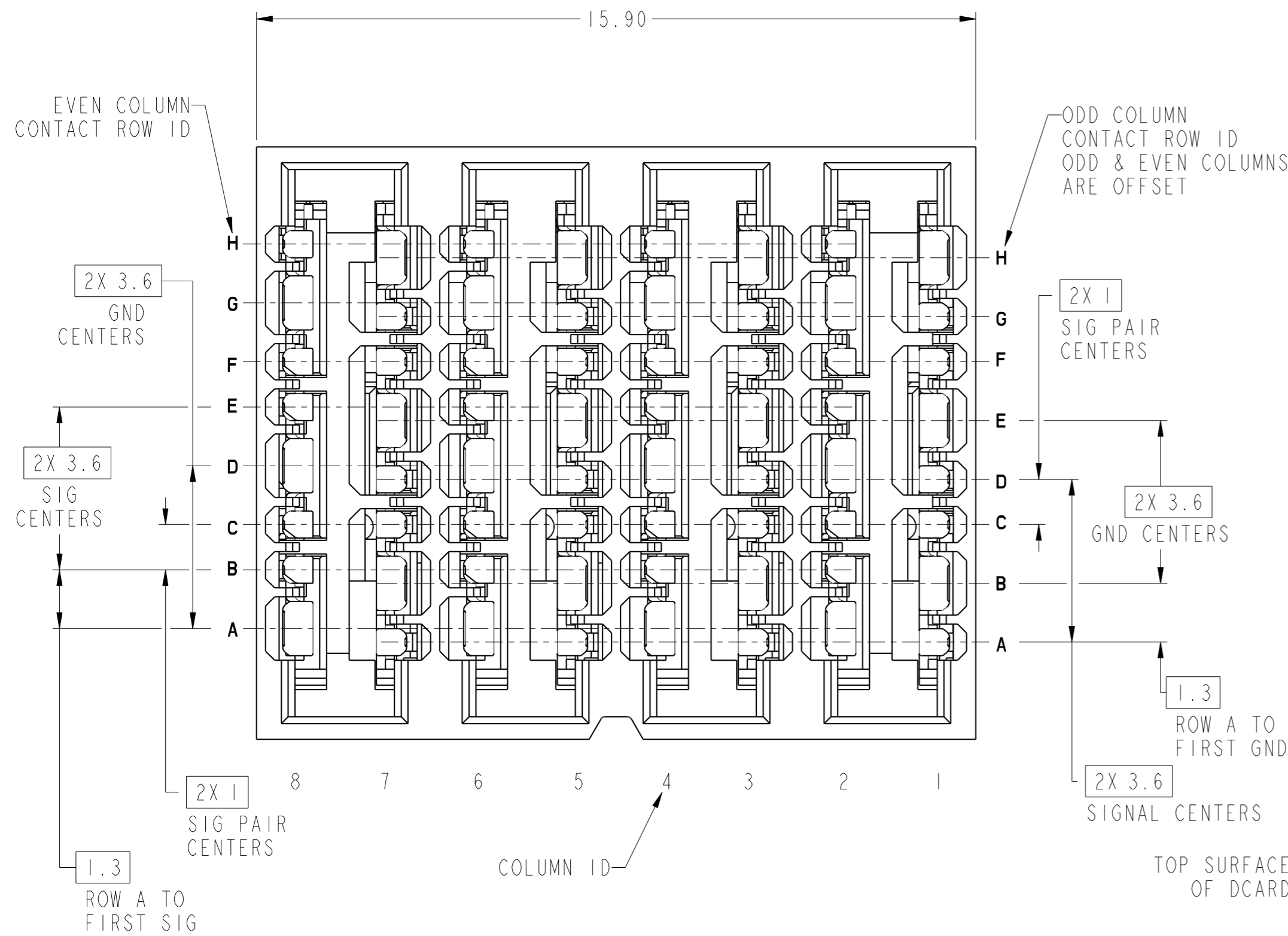


PRODUCT NUMBER  
SEE TABLE



**10124411-101LF  
STANDARD MATE RECEPTACLE**

spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	10:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released			
		appr	Heaven Cen	2017/11/30			product family	ExaMAX			
surface	✓			<b>ExaMAX R.A. RECEPTACLE</b> ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM		dwg no <b>10124411</b>	rev <b>B</b>	cat. no. SEE TABLE    Product - Customer Drw    sheet 1 of 10			

PDS: Rev :B

STATUS:Released

Printed: Dec 07, 2017

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

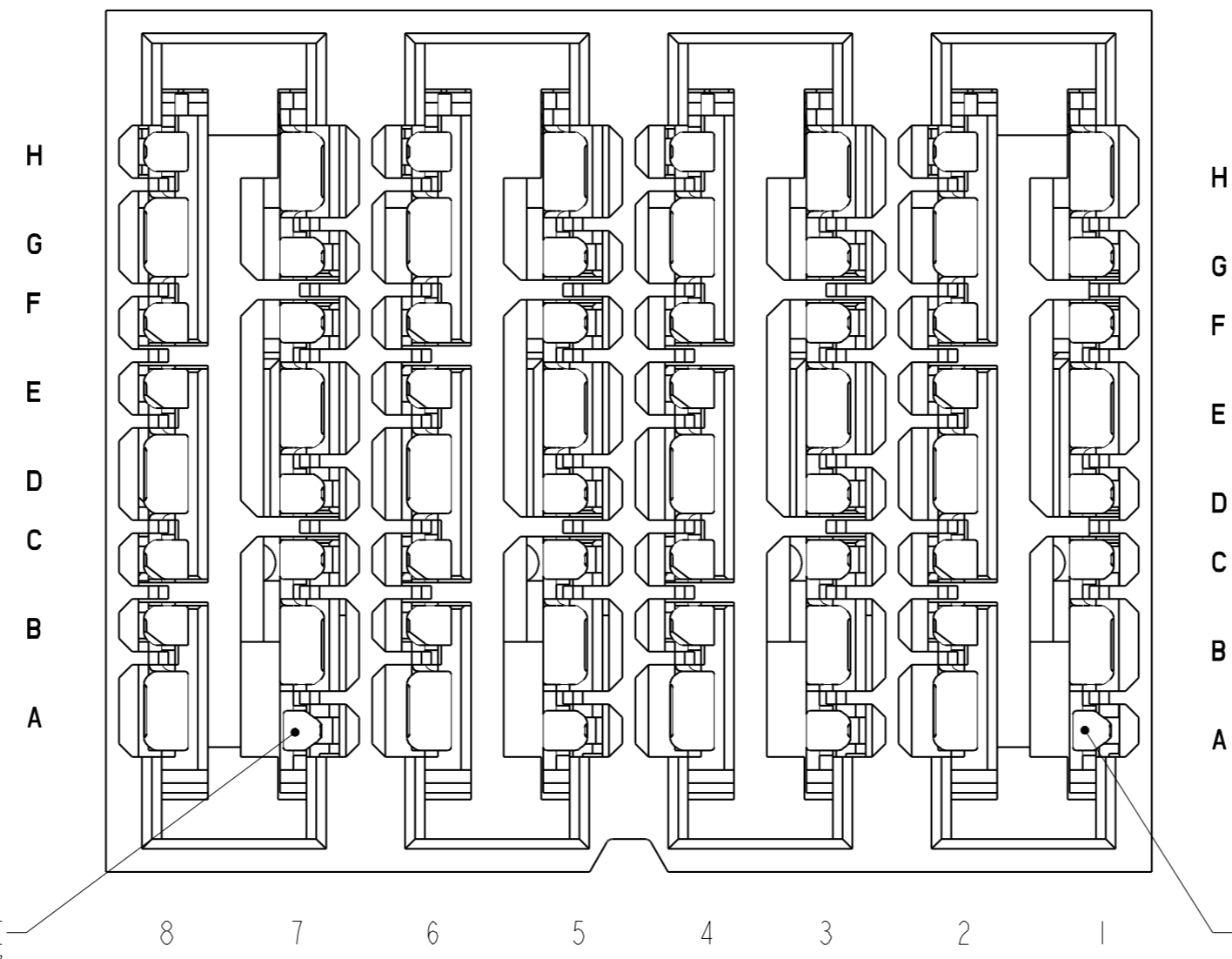
B

C

D

E

F



ADVANCED MATE POSITION A7  
SEE NOTE 13

ADVANCED MATE POSITION A1  
SEE NOTE 13

**10124411-201LF**  
**ADVANCED MATE RECEPTACLE**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY  
 FOR ALL DIMENSIONS SEE 10124411-101LF ON SHEET 1

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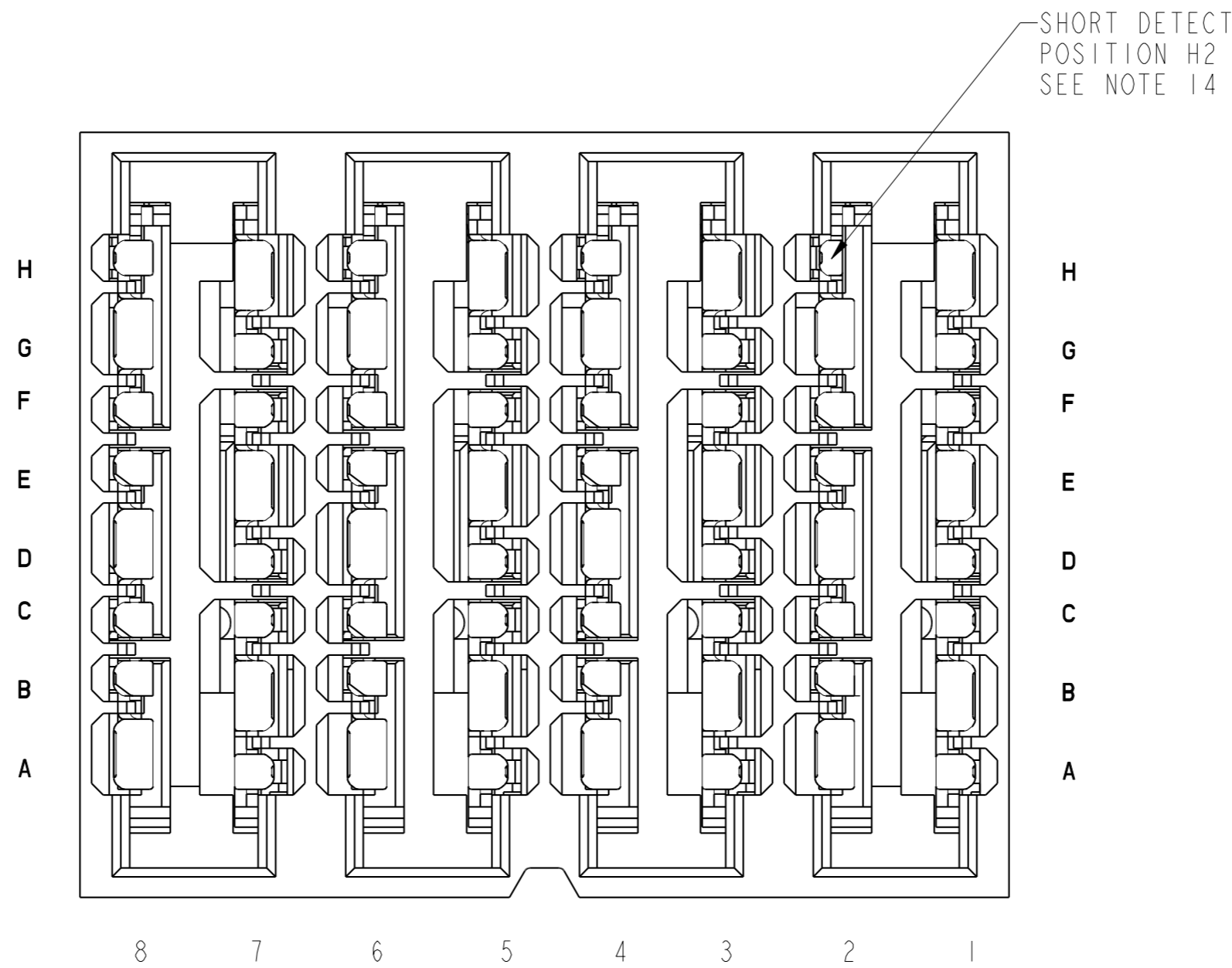
© 2016 AFci

spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	10:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released		
surface	✓	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear	0.X ±.3 0.XX ±.10 0.XXX ±.050			<b>ExaMAX R.A. RECEPTACLE</b> ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM		divg no	10124411			
angular	0° ±°	cat. no.		SEE TABLE	Product - Customer Drw	rev	B			
				PDS: Rev :B		STATUS:Released		Printed: Dec 07, 2017		

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

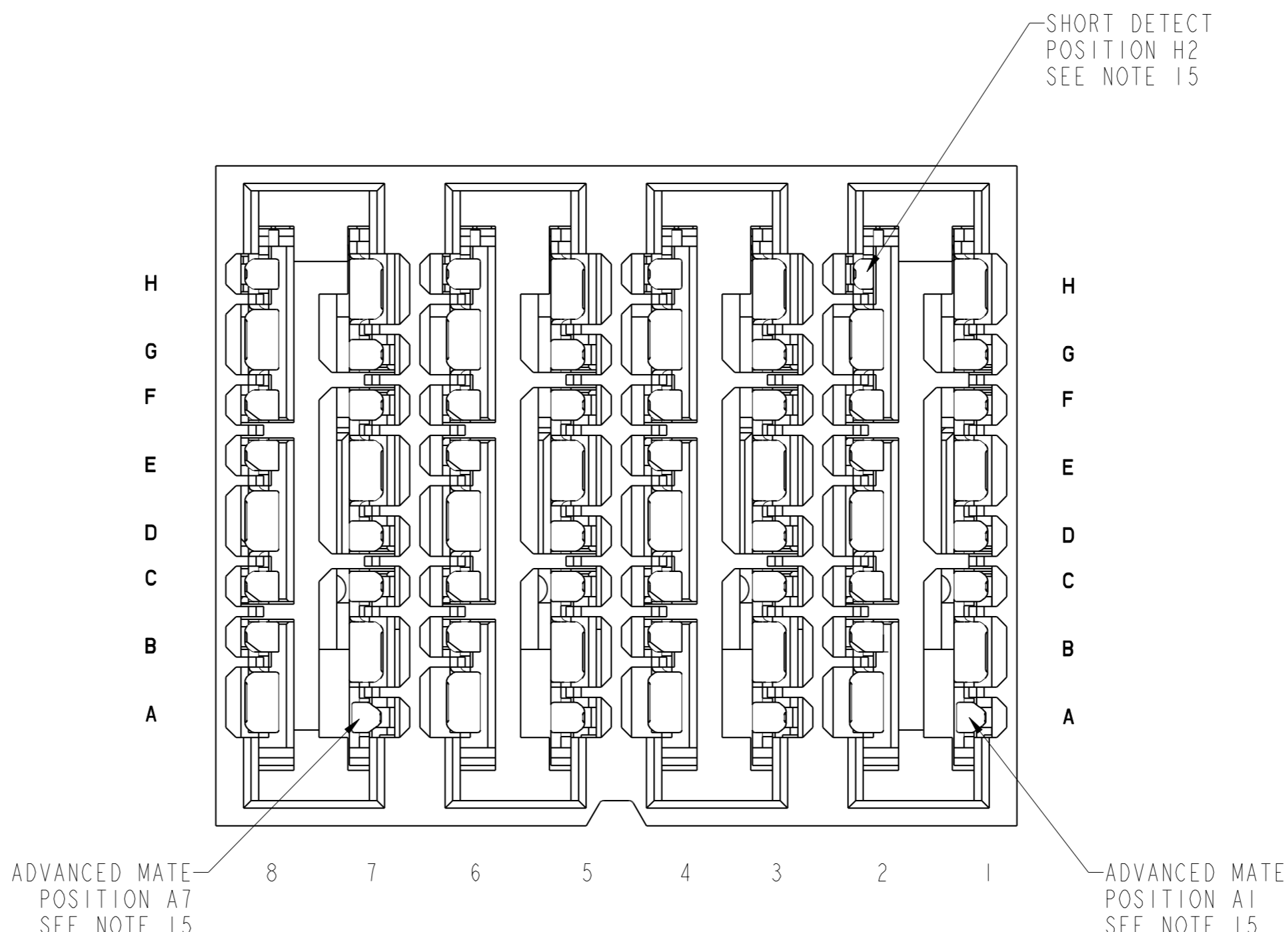


10124411-301LF  
 SHORT DETECT RECEPTACLE  
 SHORT DETECT POSITION IS H2  
 FOR ALL DIMENSIONS SEE 10124411-101LF ON SHEET 1

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spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	1:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released		
surface	-	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear angular	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM	dwg no 10124411	rev B				
	0.XX	±.10								
	0.XXX	±.050								
	0°	±°	cat. no.		SEE TABLE	Product - Customer Drw	sheet 3 of 10			

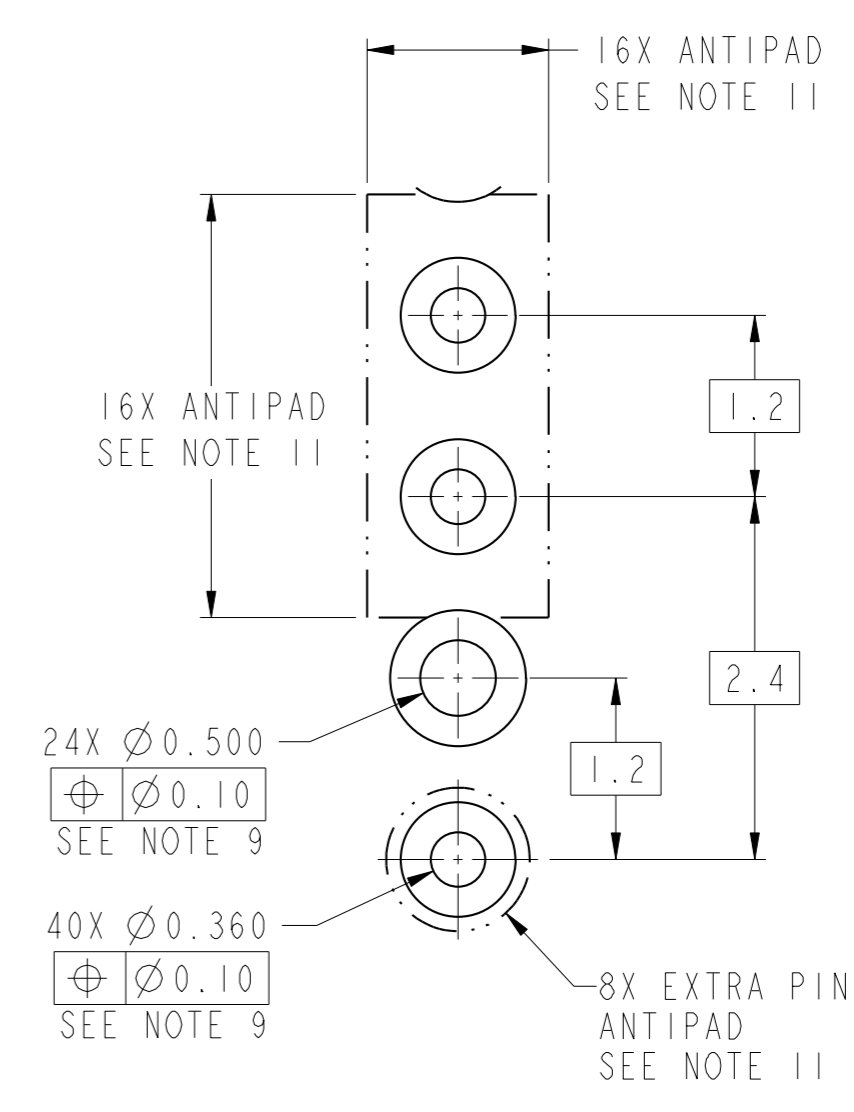
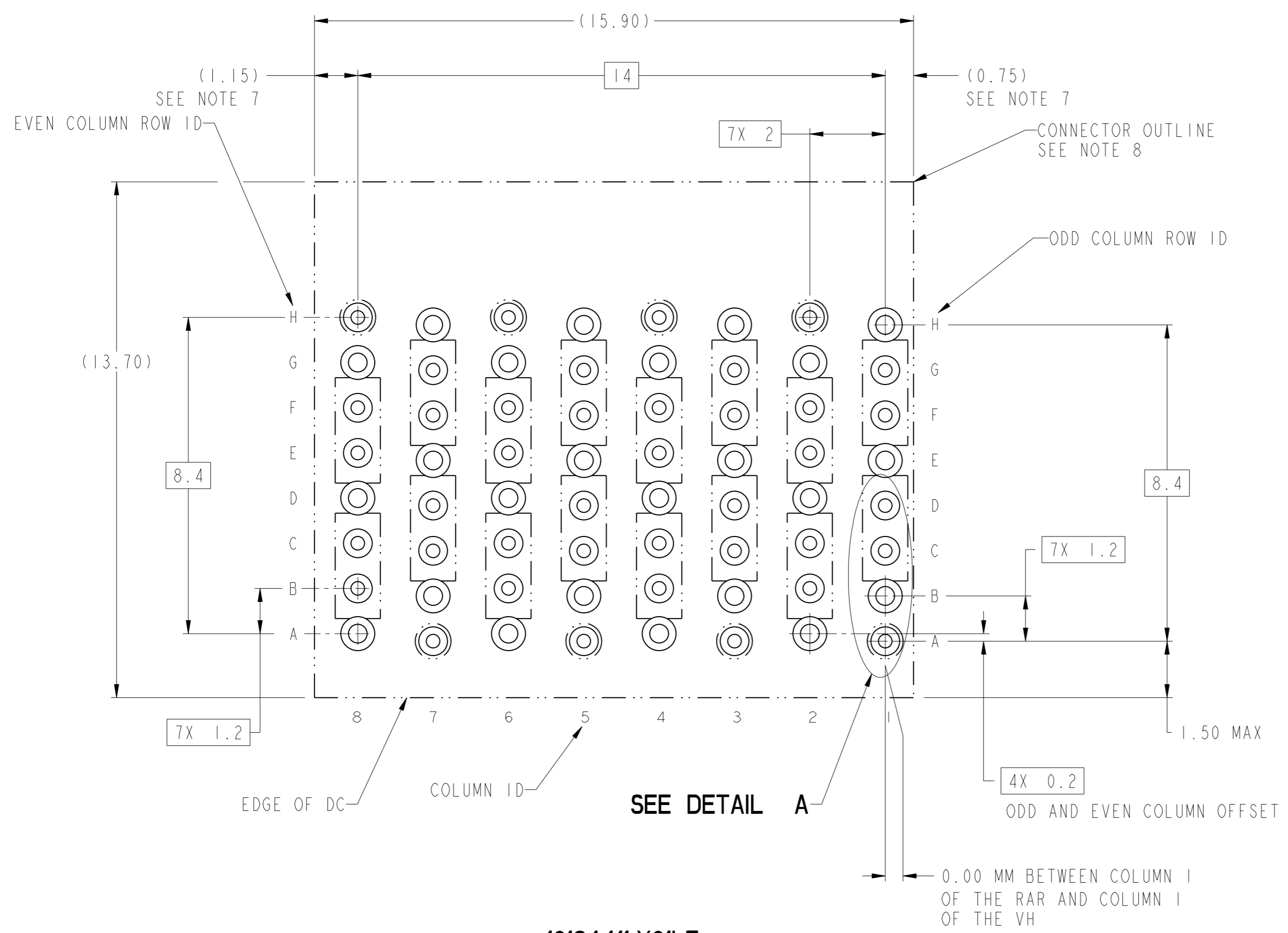


**10124411-401LF**  
**ADVANCED MATE/SHORT DETECT RECEPTACLE**  
**ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY**  
**SHORT DETECT POSITION IS H2**  
**FOR ALL DIMENSIONS SEE 10124411-101LF ON SHEET 1**

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spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	4:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1				
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released				
surface	-	linear	0.X	±.3		product family ExaMAX	title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM	dwg no 10124411	rev B	cat. no. SEE TABLE	Product - Customer Drw	sheet 4 of 10
			0.XX	±.10								
			0.XXX	±.050								
		angular	0°	±°								



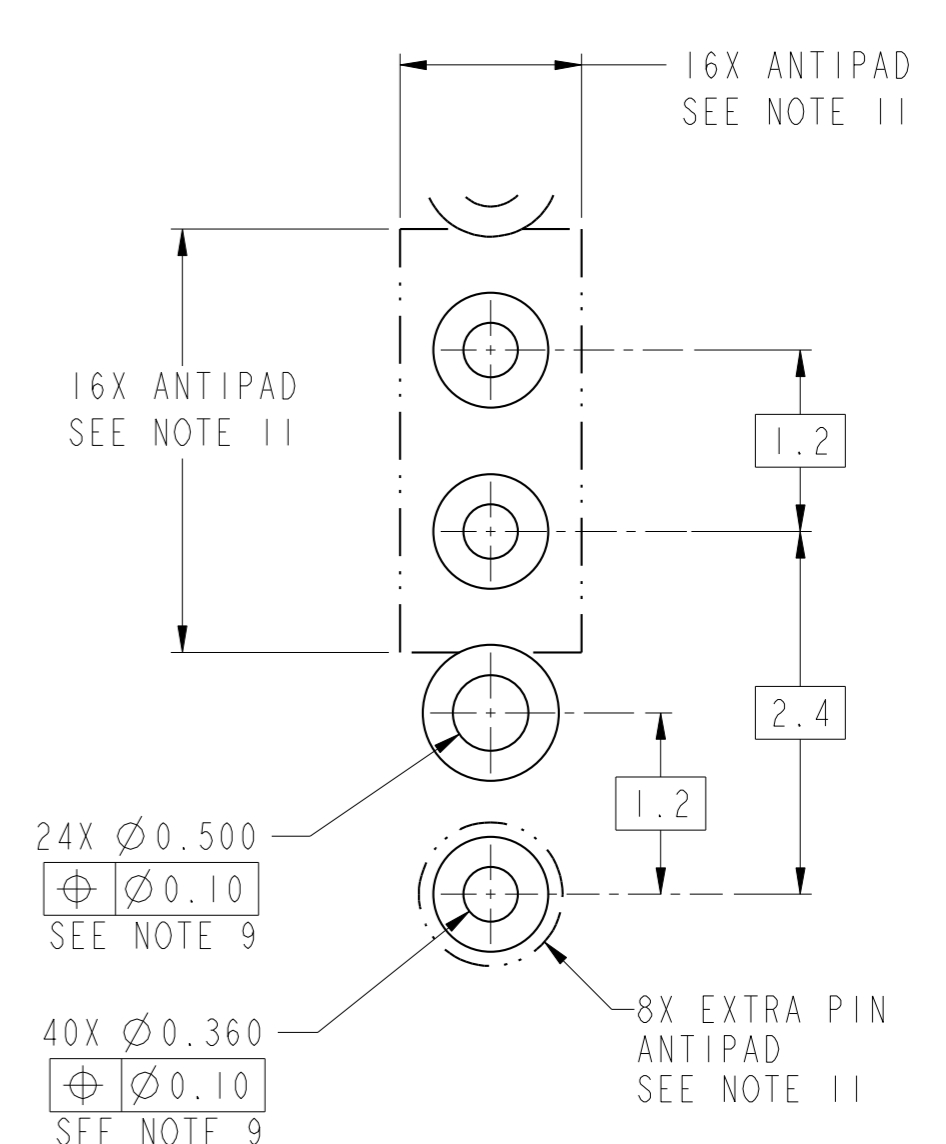
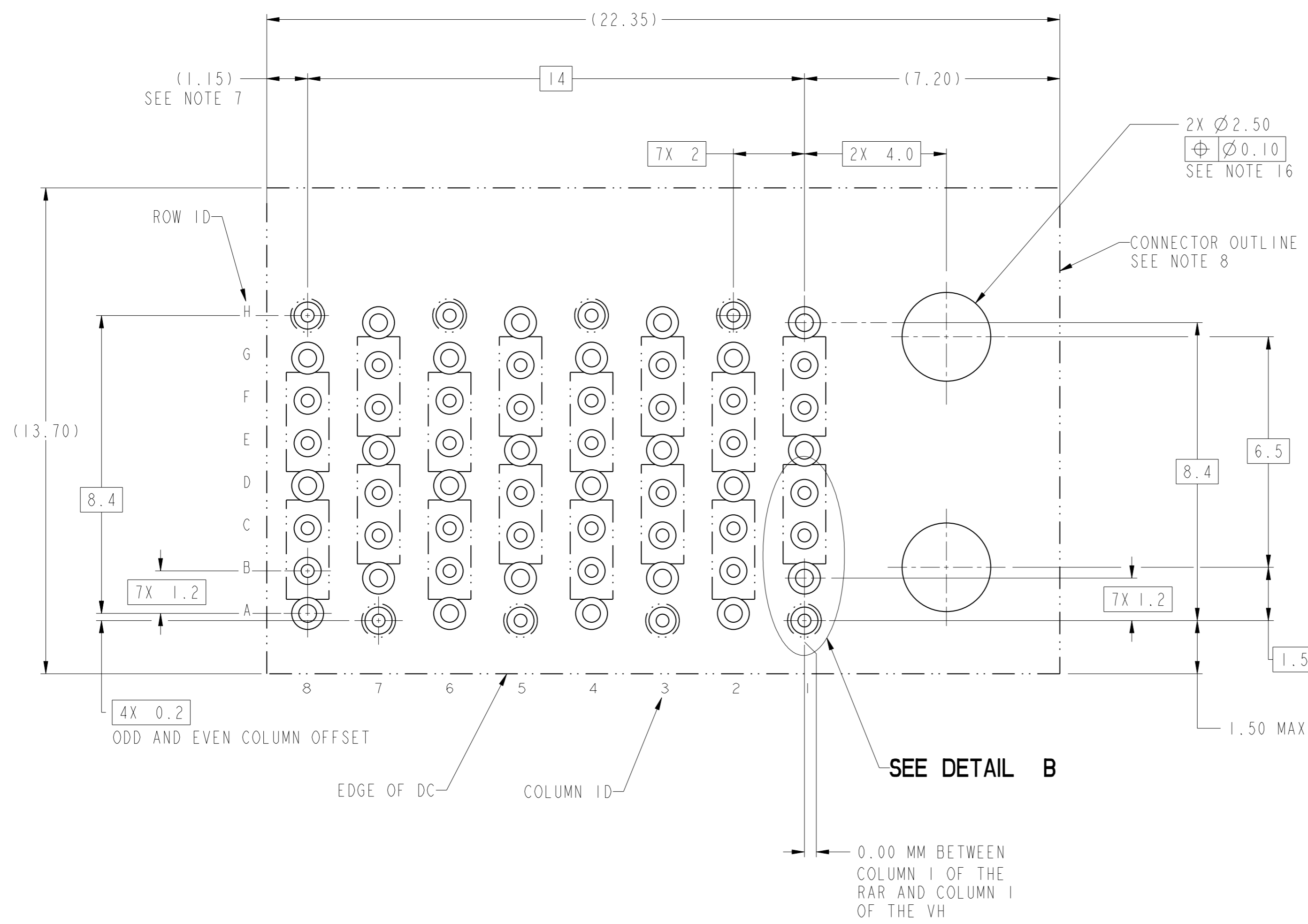
DETAIL A  
SCALE 20:1

10124411-X01LF  
RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
NOTES 7, 8, 9, & 11  
SCALE 10:1

spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	4:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released		
surface	-	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear angular	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM		cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 10	
	0.XX	±.10		no	10124411	rev	B			
	0.XXX	±.050		no		rev				
	0°	±°								



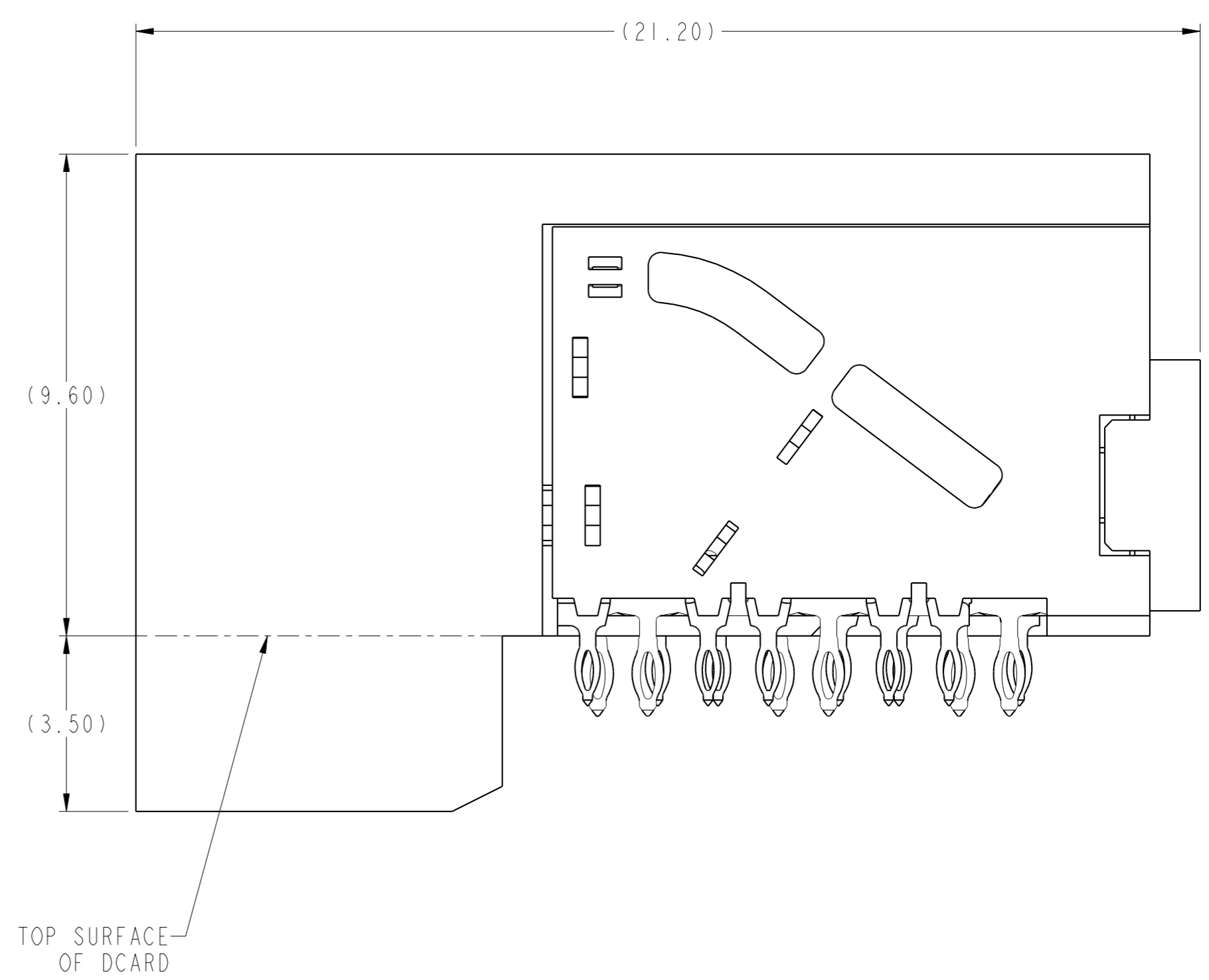
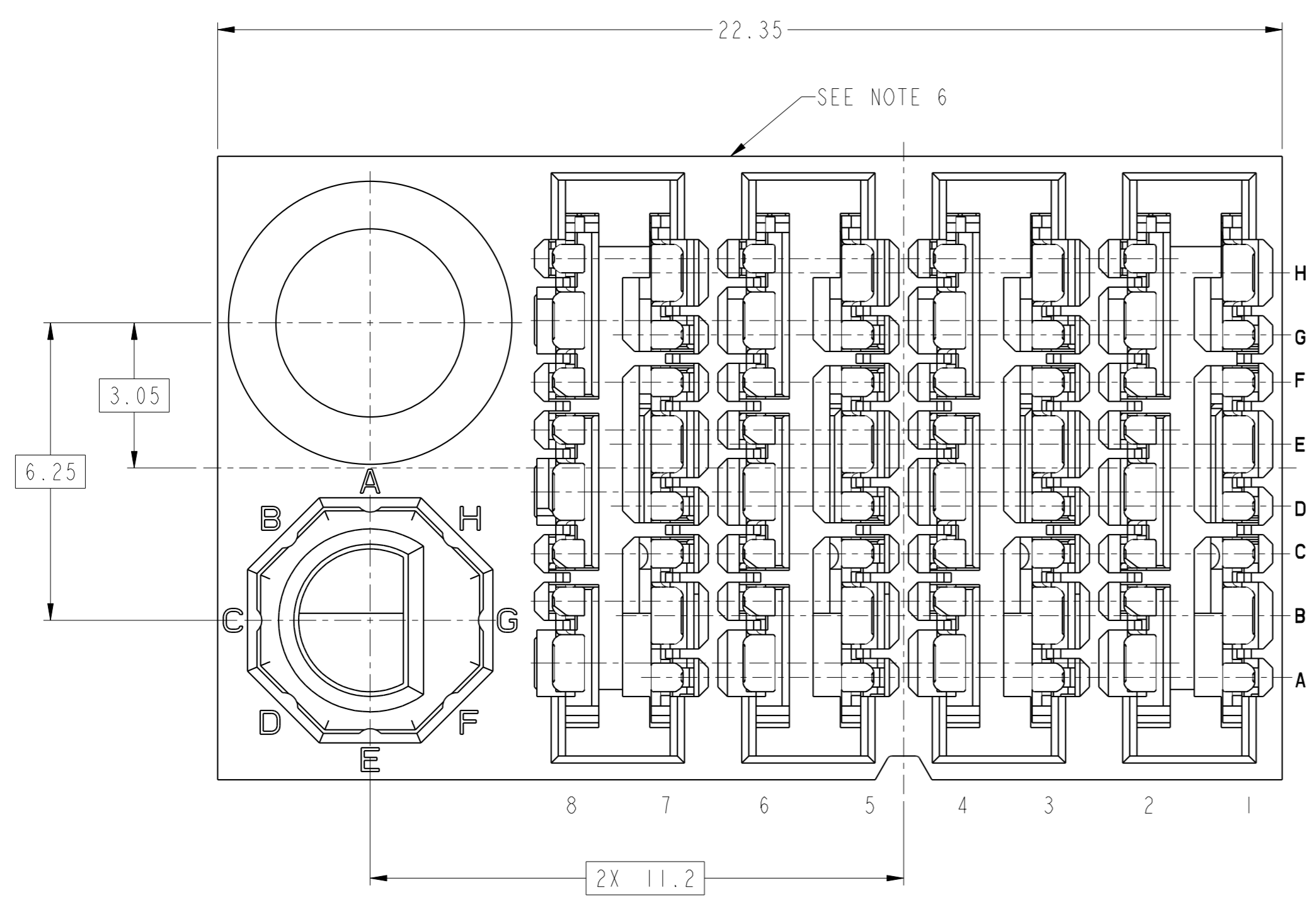




10124411-X1ALF THRU -X1JLF  
RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
NOTES 7, 8, 9, 11 & 16  
SCALE 10:1

DETAIL B  
SCALE 20:1

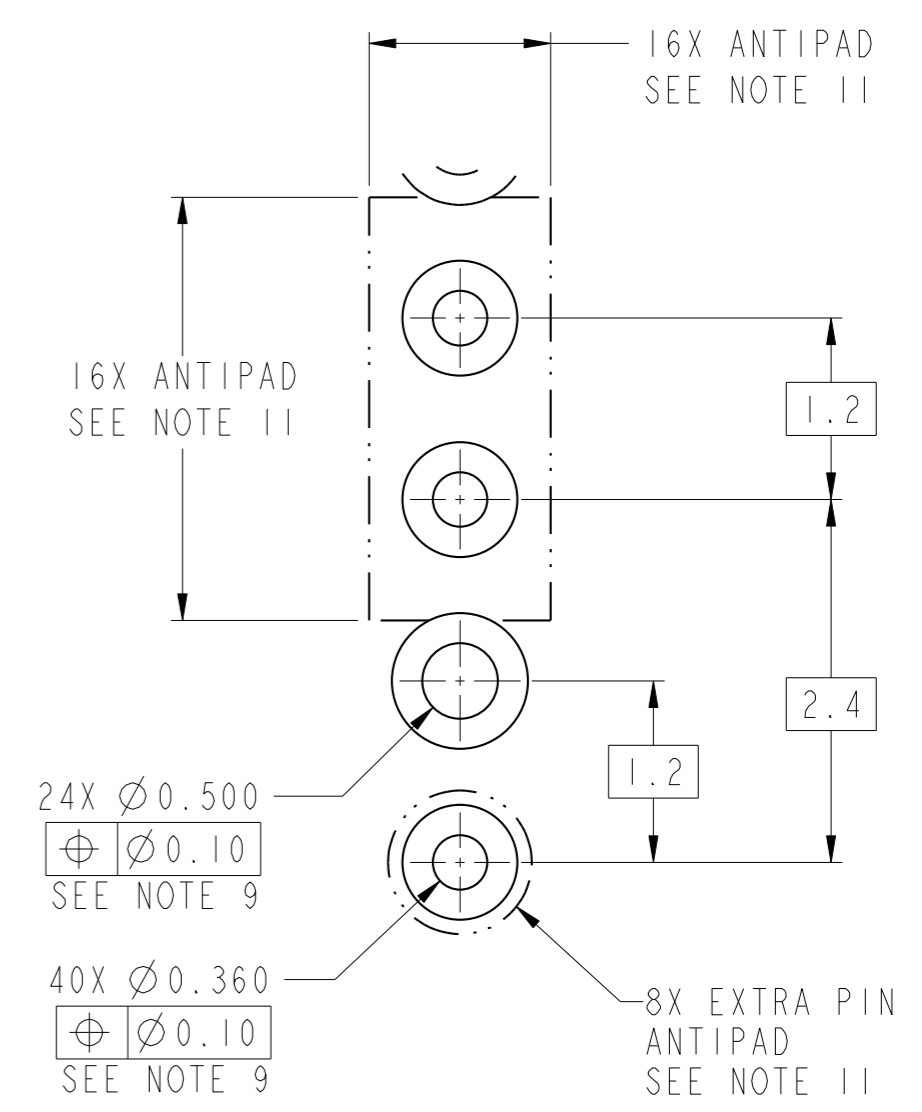
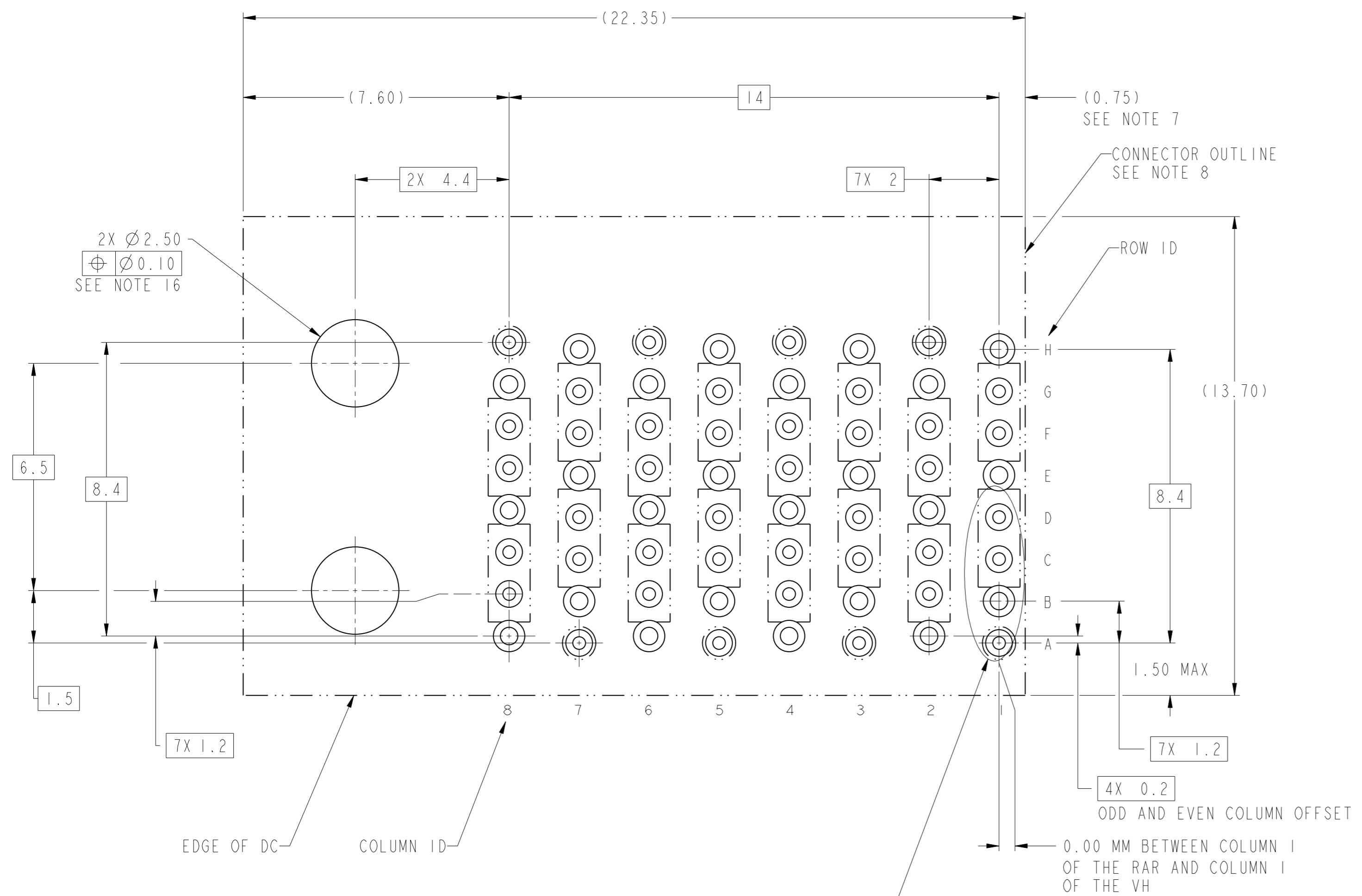
spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	4:1			
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/1/01			ecn no	ELX-DG-28208-1					
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released					
		appr	Heaven Cen	2017/1/30			product family	ExaMAX					
surface	✓	linear	0.X	±.3			title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM		cat. no.	SEE TABLE	Product - Customer Drw	sheet 7 of 10	
			0.XX	±.10					dwg no	10124411		rev	B
			0.XXX	±.050									
		angular	0°	±°									



10124411--X2ALF THRU -X2JLF  
LEFT GUIDANCE (SEE NOTE 17)  
FOR ALL DIMENSIONS SEE 10124411-101LF ON SHEET 1  
SCALE 10:1

spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	2:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/1/01			ecn no	ELX-DG-28208-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			product family	ExaMAX		rel level	Released
surface	-	linear	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM	dwg no 10124411	rev B	cat. no. -	Product - Customer Drw	sheet 8 of 10
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±°							





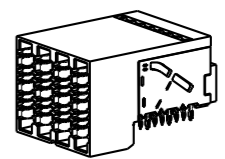
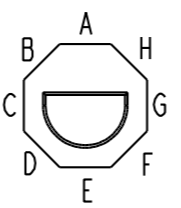
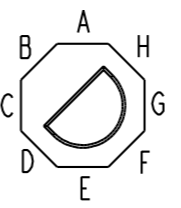
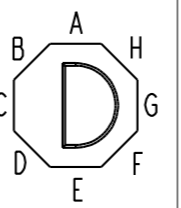
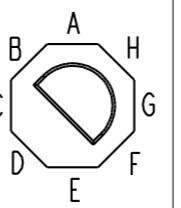
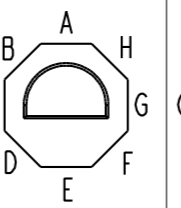
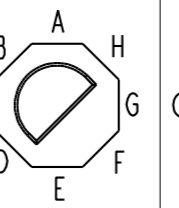
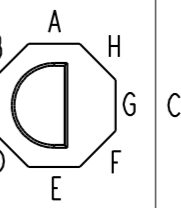
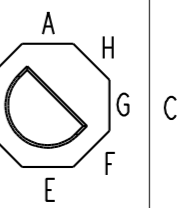
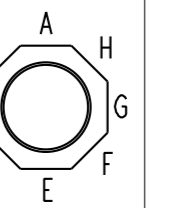
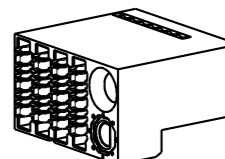
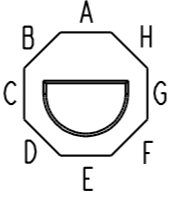
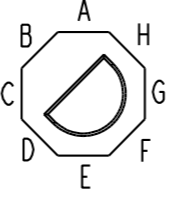
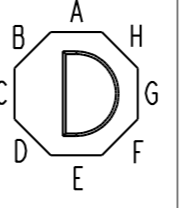
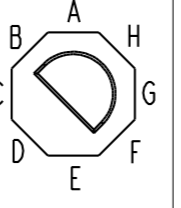
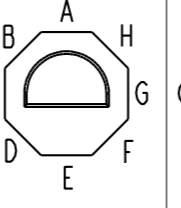
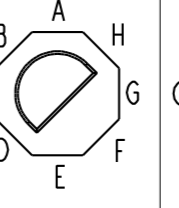
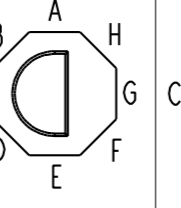
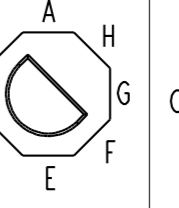
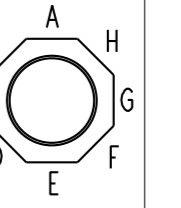
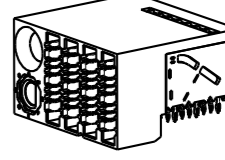
10124411--X2ALF THRU -X2JLF  
RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
NOTES 7, 8, 9, 11 & 16  
SCALE 10:1

SEE DETAIL C

spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	4:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/1/01			ecn no	ELX-DG-28208-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released			
surface	linear	appr	Heaven Cen	2017/1/30			product family	ExaMAX			
	angular			title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 64 POS, 8 IMLA, 16.0 MM		dwg no 10124411	rev B		cat. no. SEE TABLE Product - Customer Drw sheet 9 of 10		

10124411 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10124411-1YYLF	STANDARD MATE
10124411-2YYLF	ADVANCED MATE
10124411-3YYLF	SHORT DETECT
10124411-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
	1A	1B	1C	1D	1E	1F	1G	1H	1J (NO KEY)		
WITHOUT END GUIDES MODULE (SEE SHEET 1)	01										
RIGHT GUIDANCE MODULE (SEE SHEET 6)											
LEFT GUIDANCE MODULE (SEE SHEET 8)											

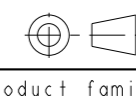
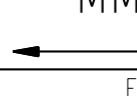
NOTES:

- 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, (PROTOTYPE, PART NUMBER & LOT CODE), ON THIS SURFACE.
- 7 - THE MINIMUM VIA SPACING BETWEEN STACKED CONNECTORS IS 2.0 MM FOR THIS RAR AND THE MATING HEADER. 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 RECEPTACLE, 10124411-2XXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER OR AN ADVANCED MATE RIGHT-ANGLE HEADER WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.

- 14 - THE SHORT DETECT RECEPTACLE, 10124411-3XXLF, WHEN MATED WITH A STANDARD MATE VERTICAL HEADER OR A STANDARD MATE RIGHT-ANGLE HEADER WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- 15 - THE ADVANCE MATE/SHORT DETECT RECEPTACLE, 10124411-4XXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER OR AN ADVANCED MATE RIGHT-ANGLE HEADER 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, TWO PHILLIPS PAN HEAD HOLD DOWN SCREWS MUST BE USED TO SECURE THE CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE 1.5 - 2.7 mm PLUS THE THICKNESS OF THE BOARD. SCREWS ARE 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 ARE COMMONED WITHIN A COLUMN.

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spec ref	---	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	1:1									
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1											
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29				product family	ExaMAX	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°	±°
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±°																	
		appr	Heaven Cen	2017/11/30	cat. no.	SEE TABLE	Product - Customer Drw		sheet 10 of 10										