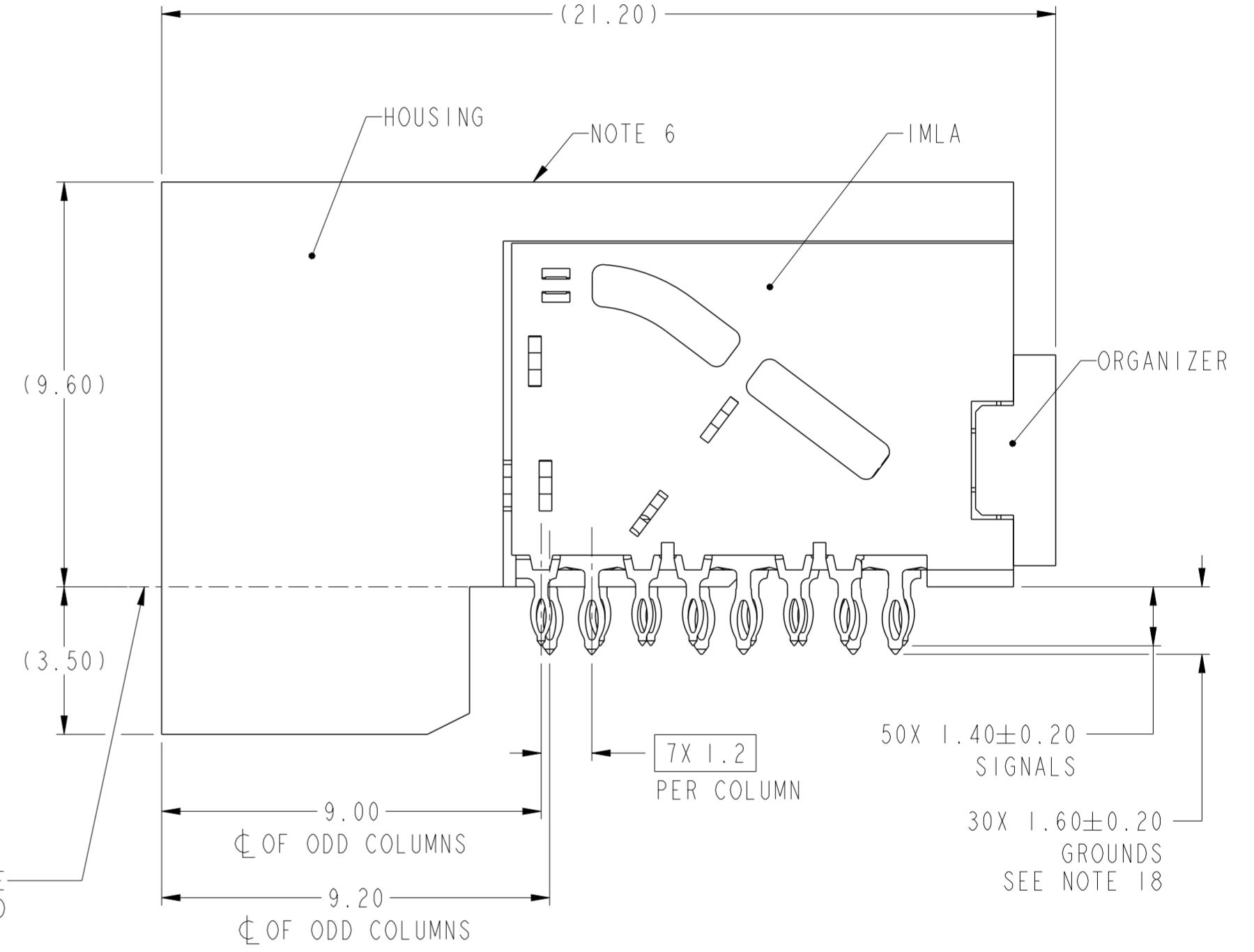
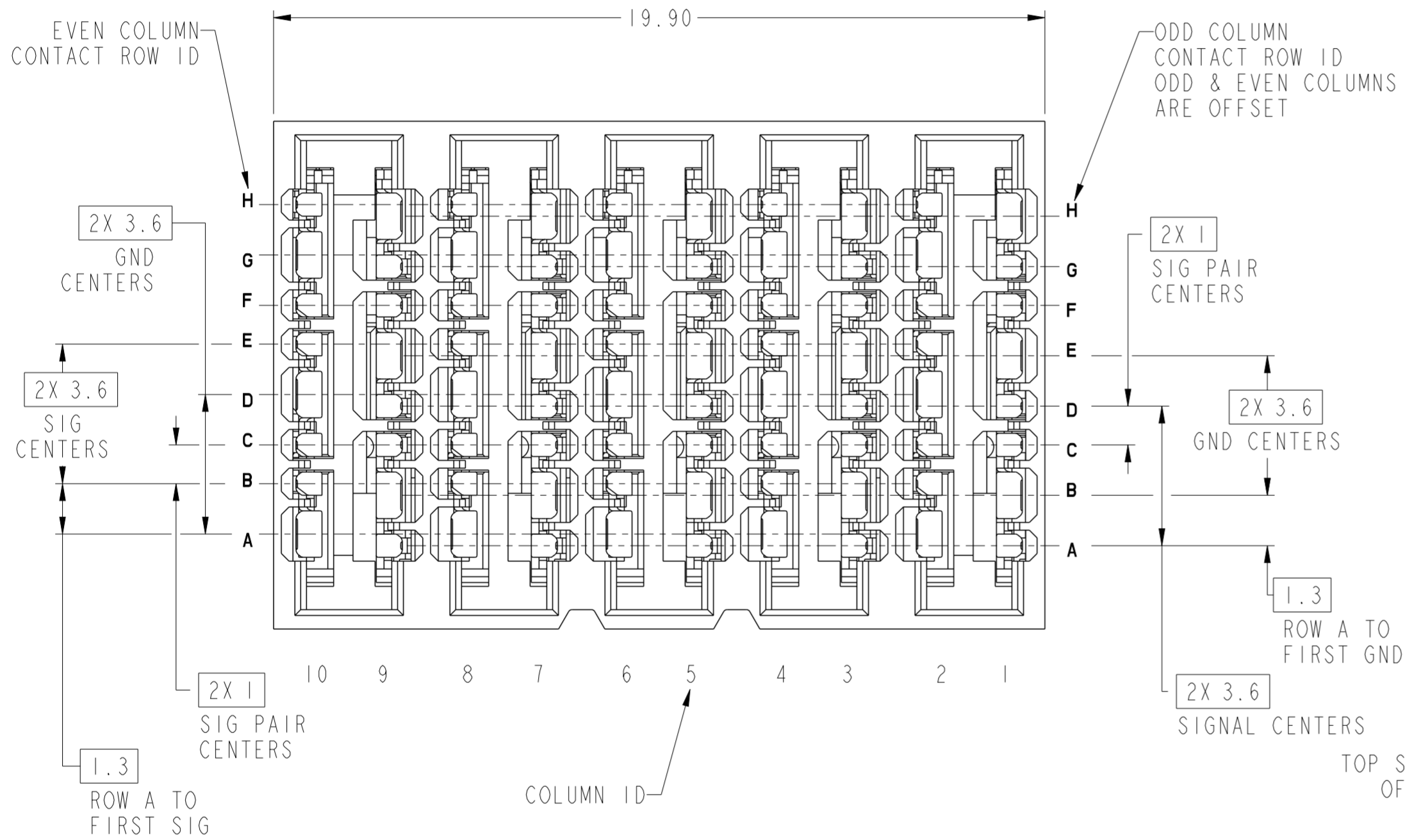


PRODUCT NUMBER
SEE TABLE



10124413-101LF
STANDARD MATE RECEPTACLE

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spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	8:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1	rel level Released	rev B		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			product family	ExaMAX			dwg no	10124413
surface	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 1 of 10

PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

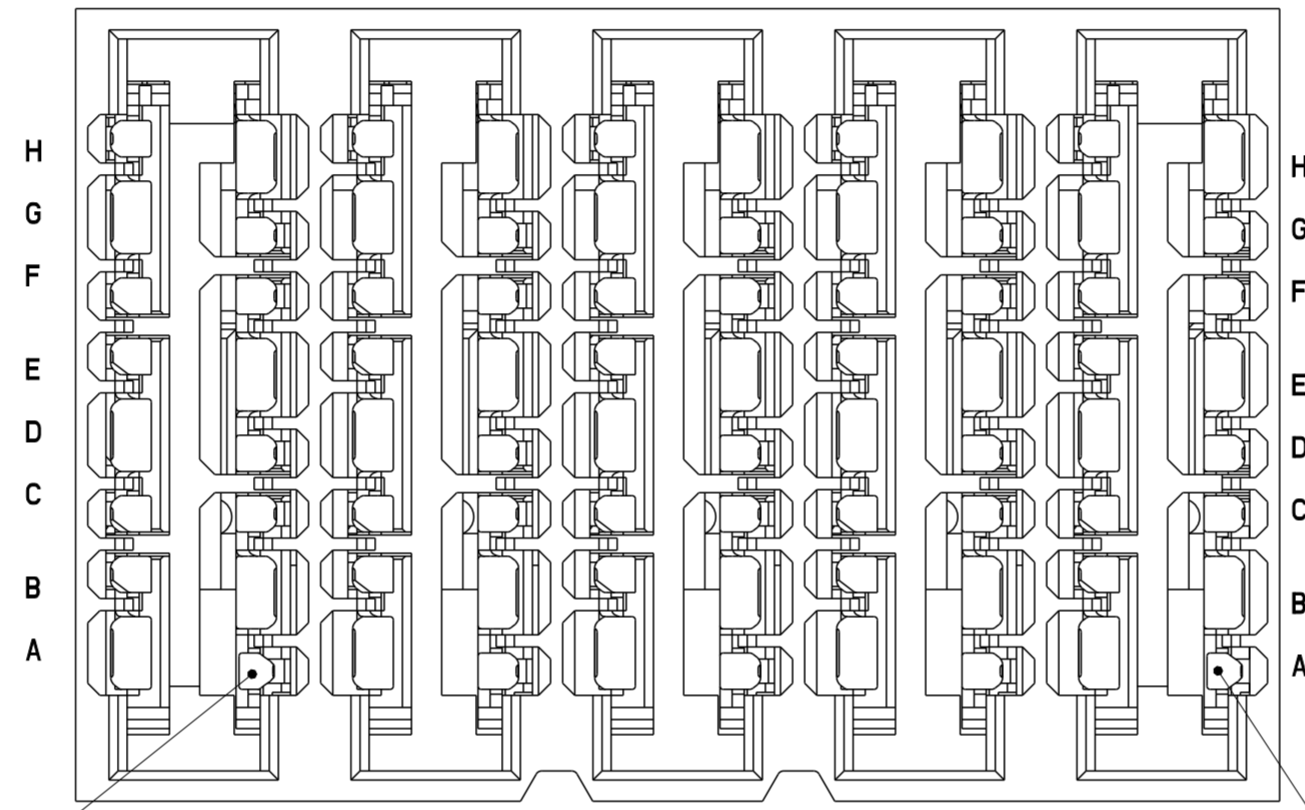
B

C

D

E

F



ADVANCED MATE POSITION A9
SEE NOTE 13

ADVANCED MATE POSITION A1
SEE NOTE 13

10124413-201LF
ADVANCED MATE RECEPTACLE
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
 FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1

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spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	8:1	
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			
	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE		cat. no. SEE TABLE Product - Customer Drw	rev	B
		0.XX	±.10		title		ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM			divg no	10124413
	angular	0°	±°		title		SEE TABLE			sheet 2 of 10	

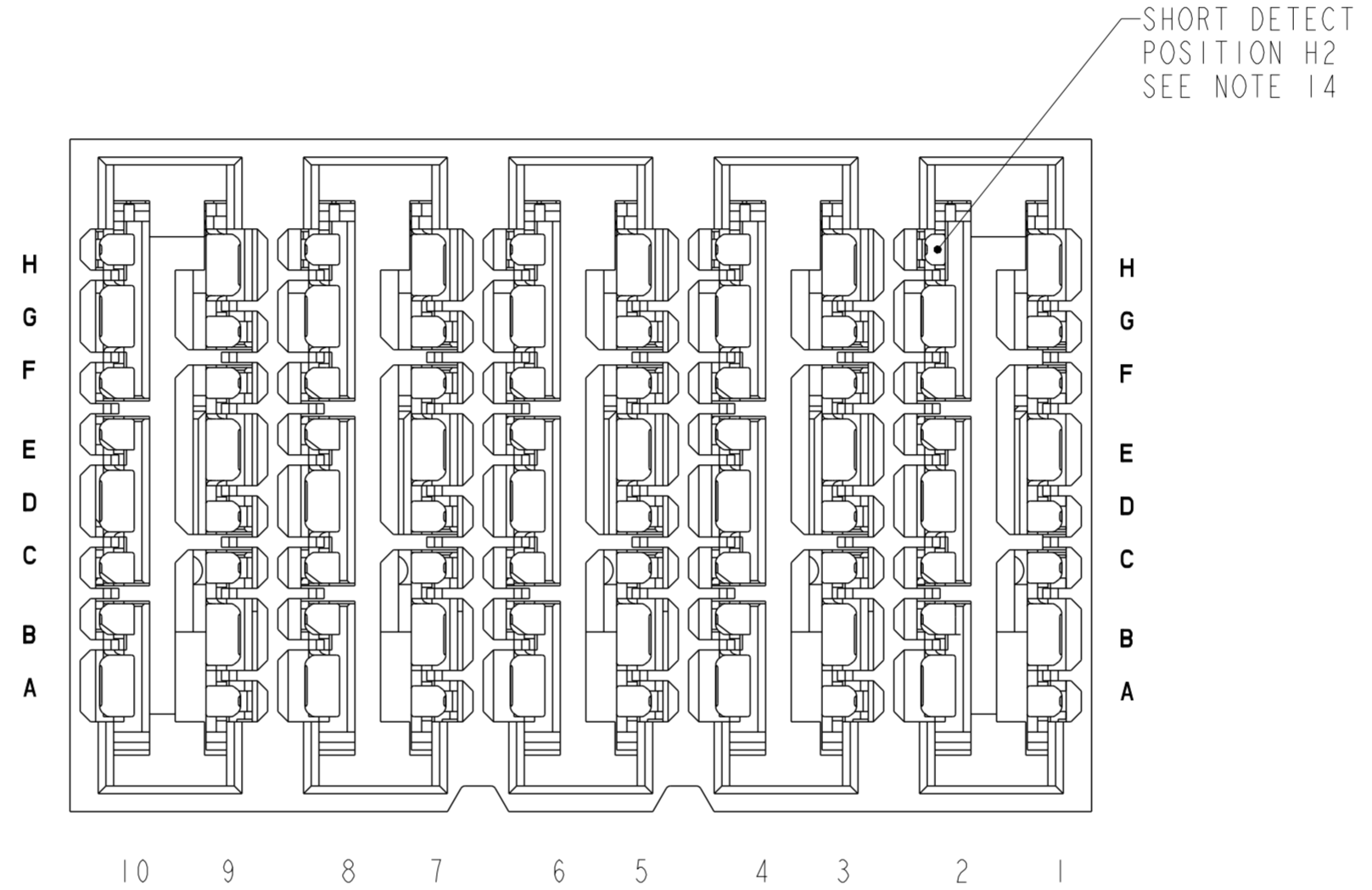
PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017

1 2 3 4 5 6 7 8

A
B
C
D
E
F



10124413-301LF
 SHORT DETECT RECEPTACLE
 SHORT DETECT POSITION IS H2
 FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1

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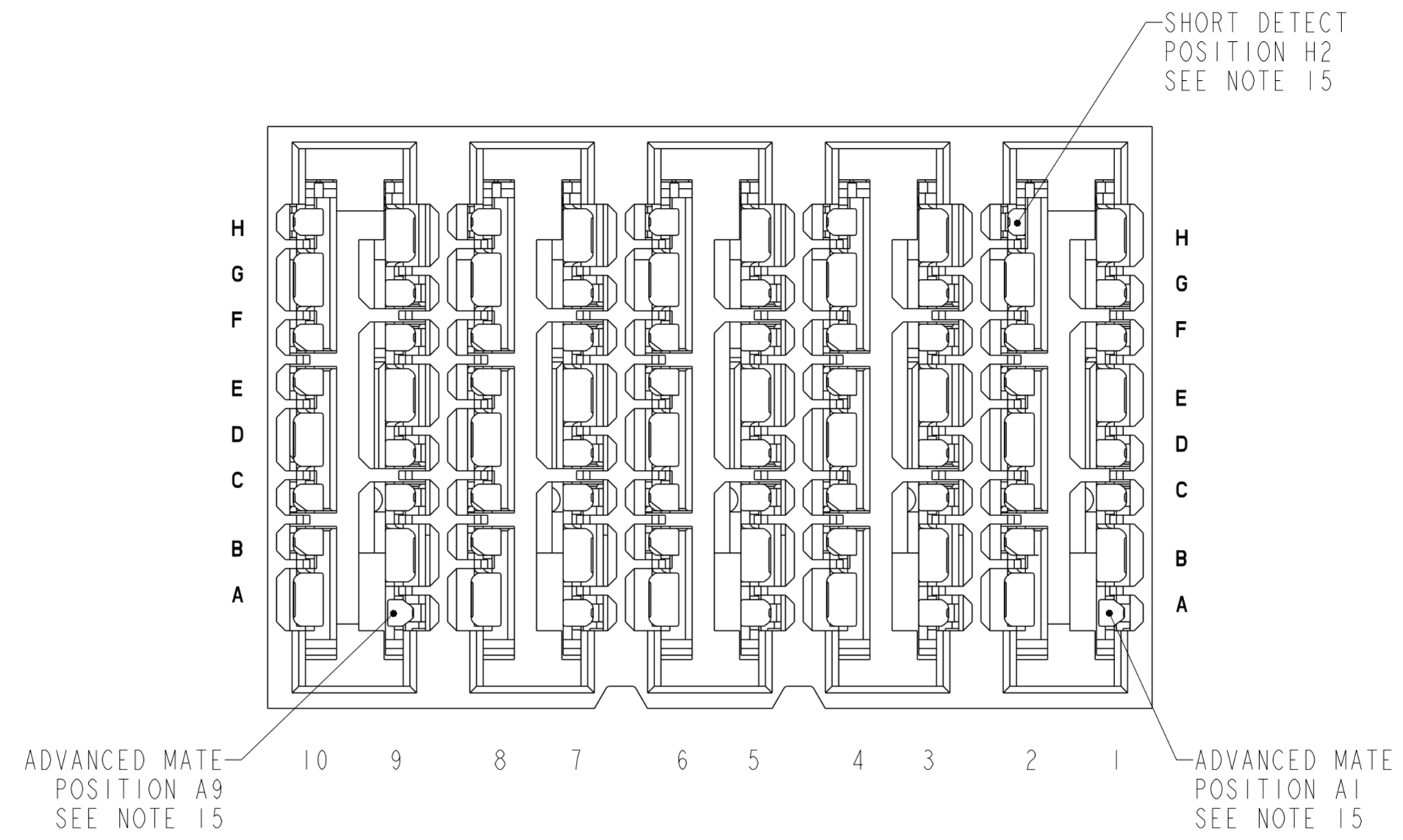
© 2016 AFci

spec ref	---	dr	Daniel Xiao	2014/01/07	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	-	linear	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM	dwg no 10124413	rev B	cat. no.		SEE TABLE
			0.XX	±.10					Product - Customer Drw		sheet 3 of 10
			0.XXX	±.050							
		angular	0°	±°							

PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017



10124413-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 AND A9 ONLY
SHORT DETECT POSITION IS H2
FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1

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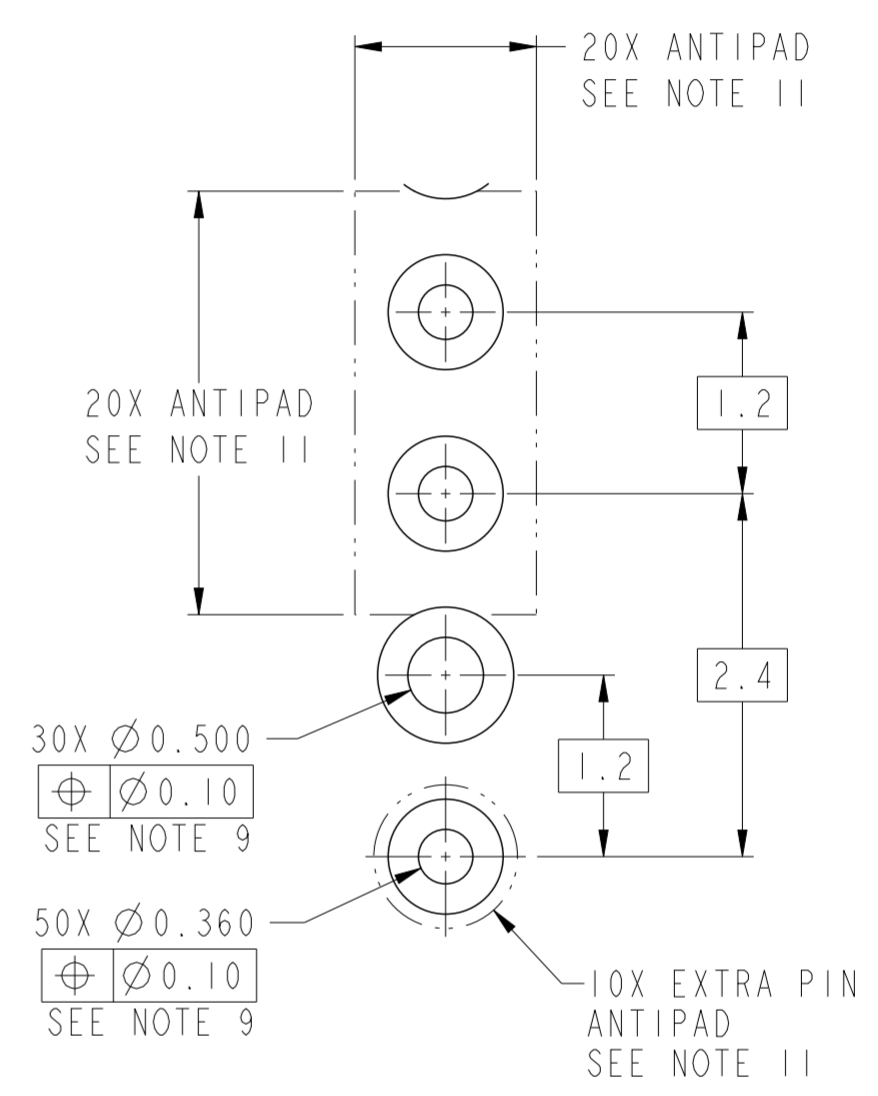
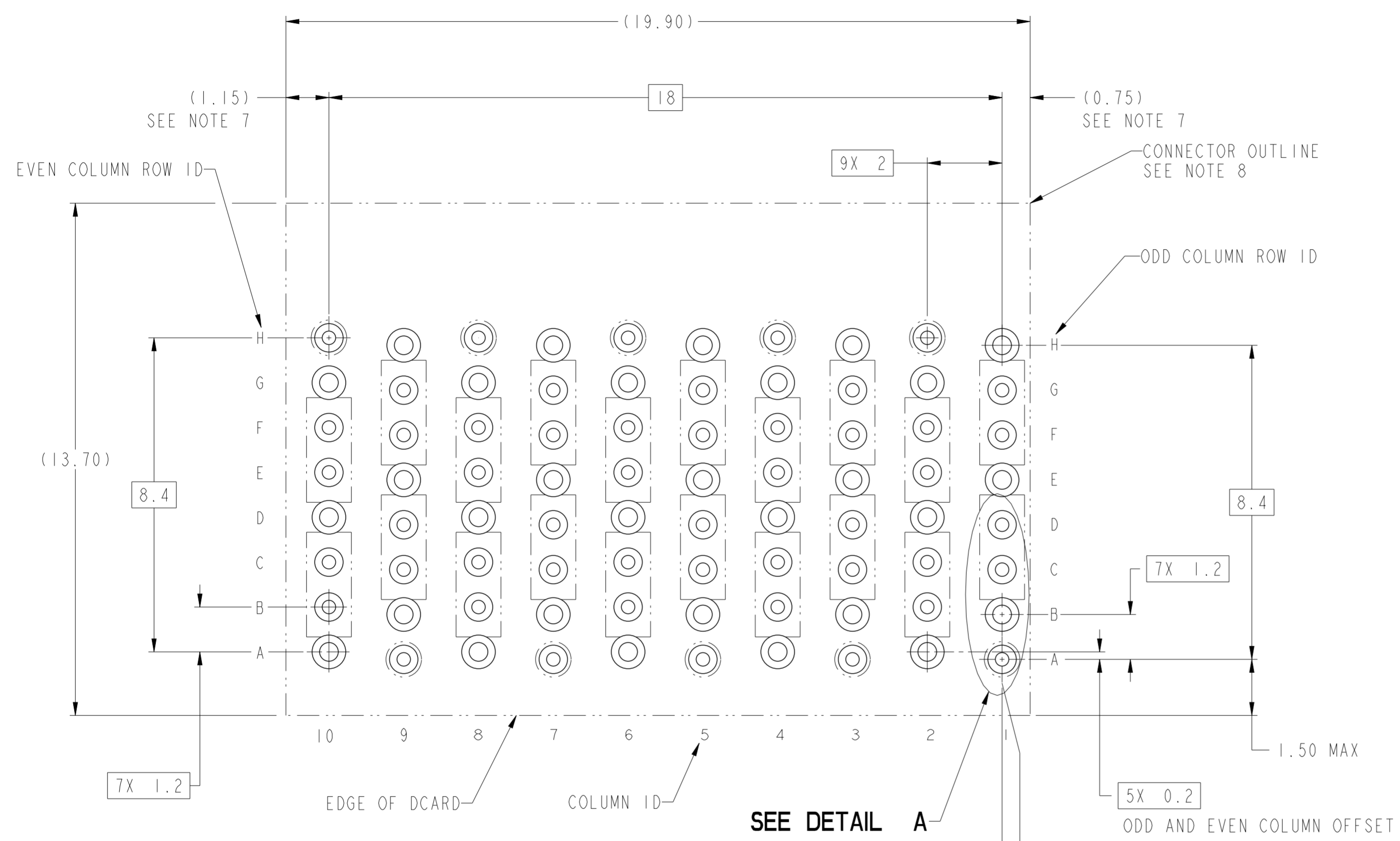
© 2016 AFCI

spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	8:1											
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	<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 R.A. RECEPTACLE		cat. no. SEE TABLE	Product - Customer Drw	rev B
-	linear			0.X	±.3																
				0.XX	±.10																
		0.XXX	±.050																		
	angular	0°	±°																		
ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		divg no 10124413	sheet 4 of 10																		

PDS: Rev :B

STATUS:Released

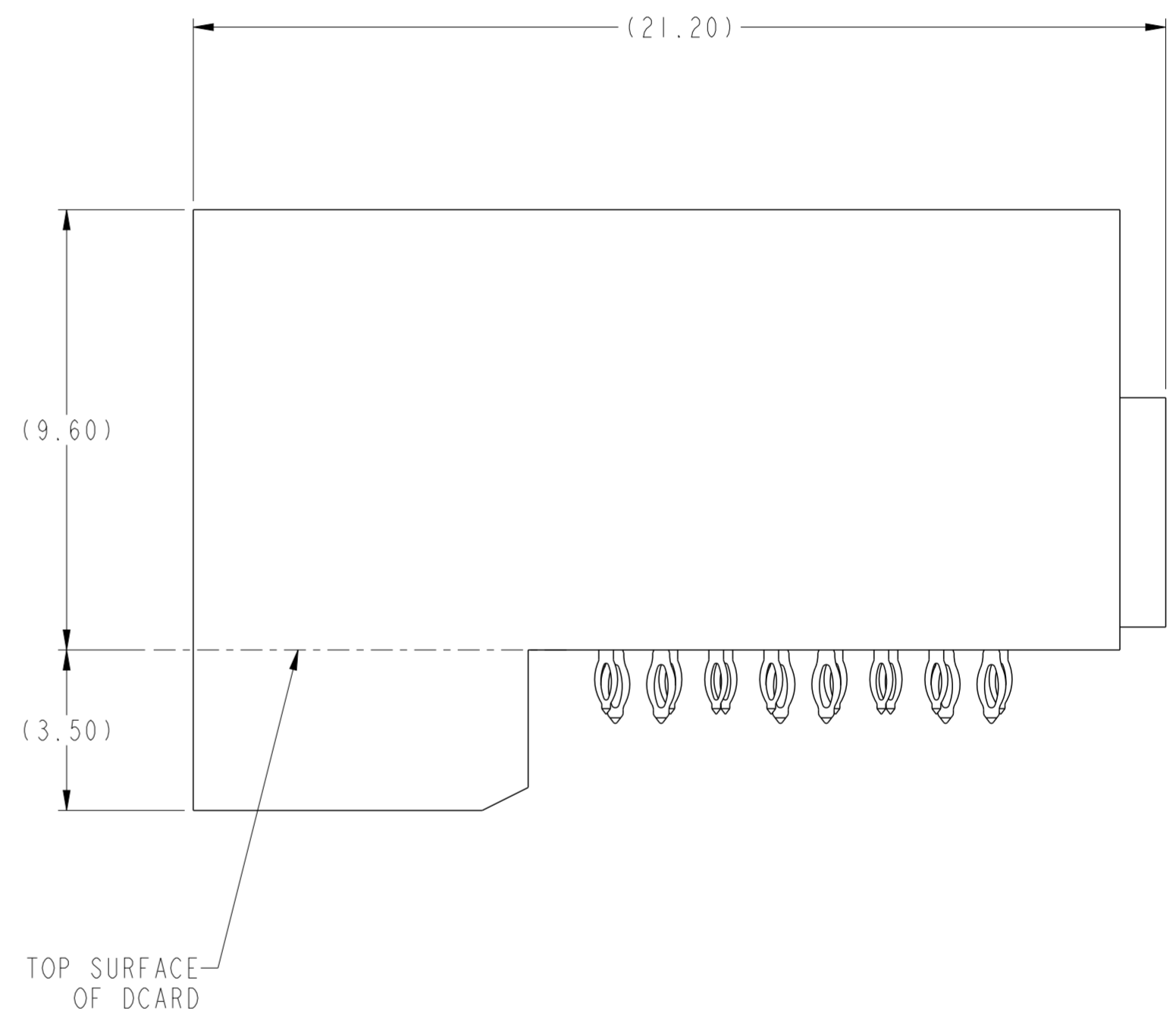
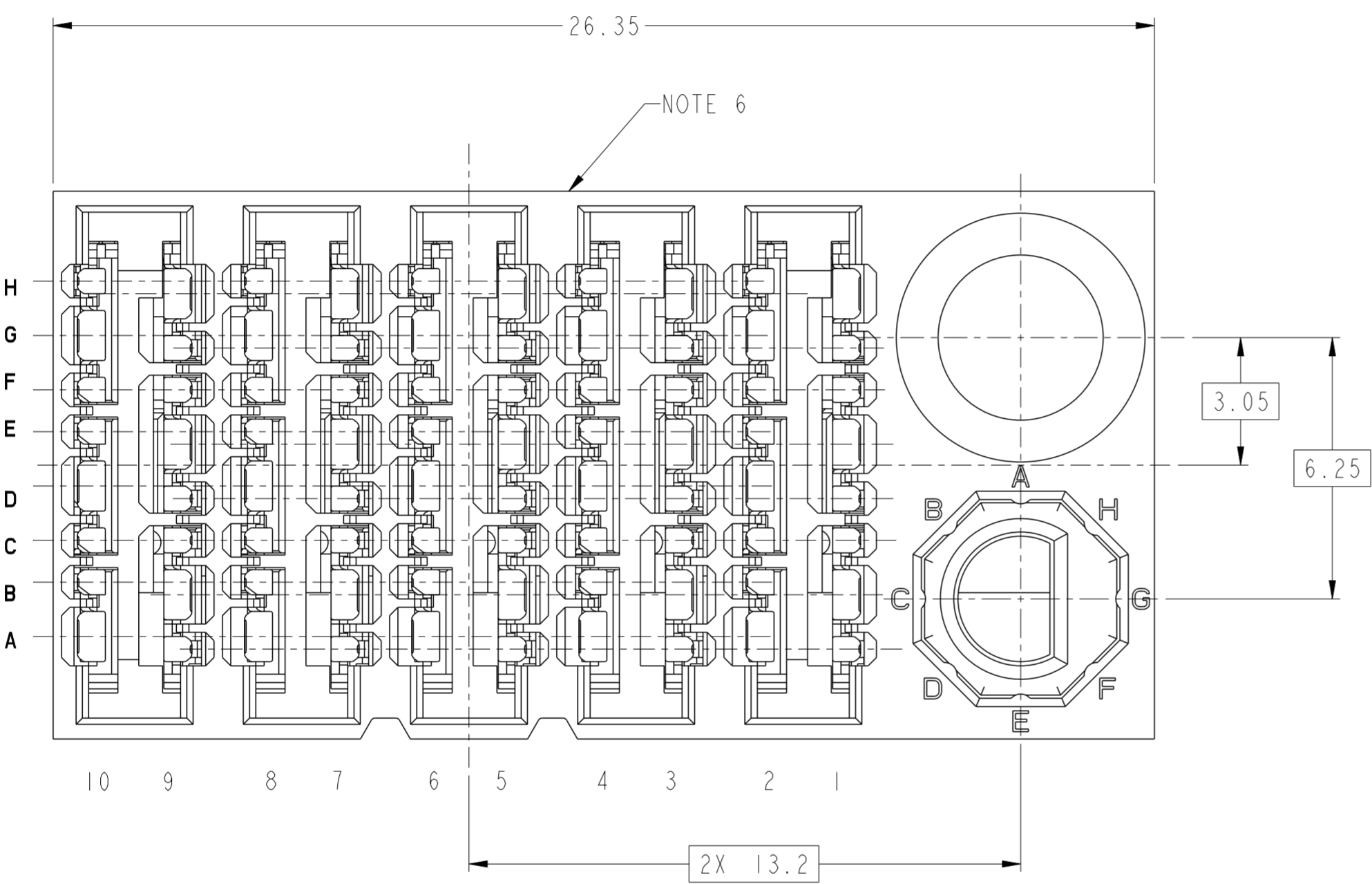
Printed: Dec 01, 2017



DETAIL A
SCALE 20:1

10124413-X01LF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 10:1

spec ref	---	dr	Daniel Xiao	2014/01/07	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	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	-	product family	ExaMAX		title	ExaMAX R.A. RECEPTACLE		dwg no	10124413	
	linear					ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		rev	B	
	angular				cat. no.	SEE TABLE	Product - Customer Drw	sheet	5 of 10	



10124413-X1ALF THRU 10124413-X1JLF
 RIGHT GUIDANCE (SEE NOTE 17)
 FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1
 SCALE 8:1

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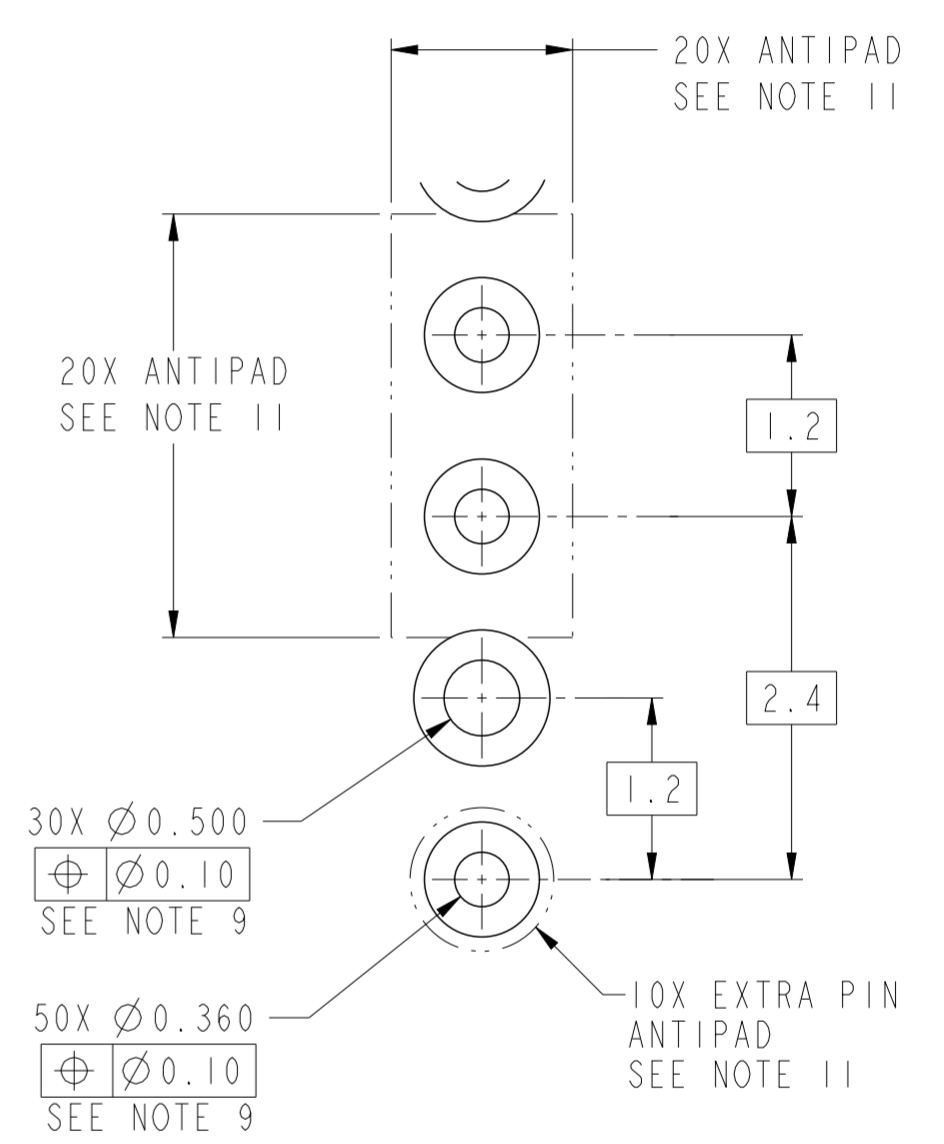
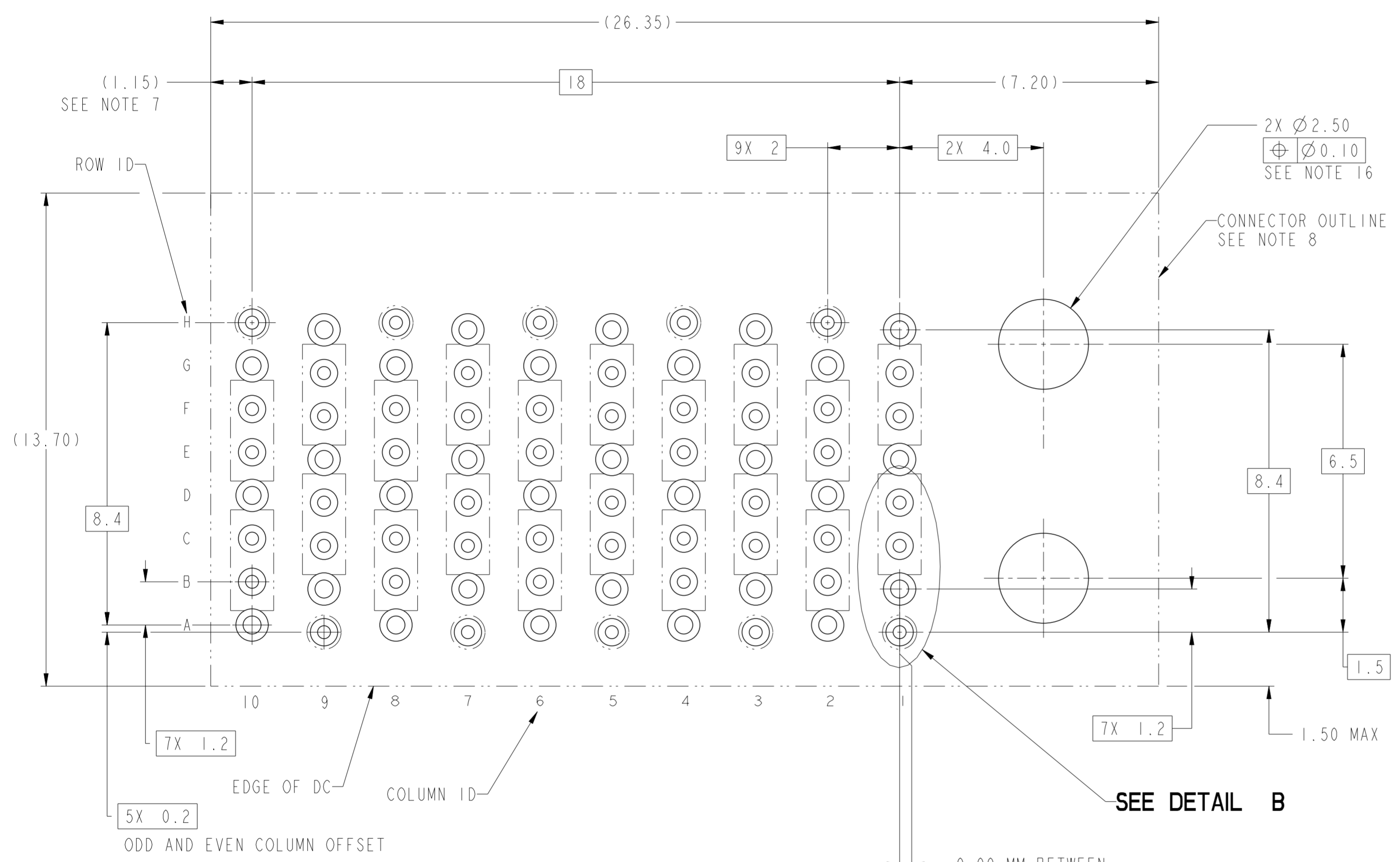
© 2016 APCI

spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	8:1										
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	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°	±°			ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		cat. no. SEE TABLE Product - Customer Drw	dwg no. 10124413 sheet 6 of 10	rev B
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		

PDS: Rev :B

STATUS:Released

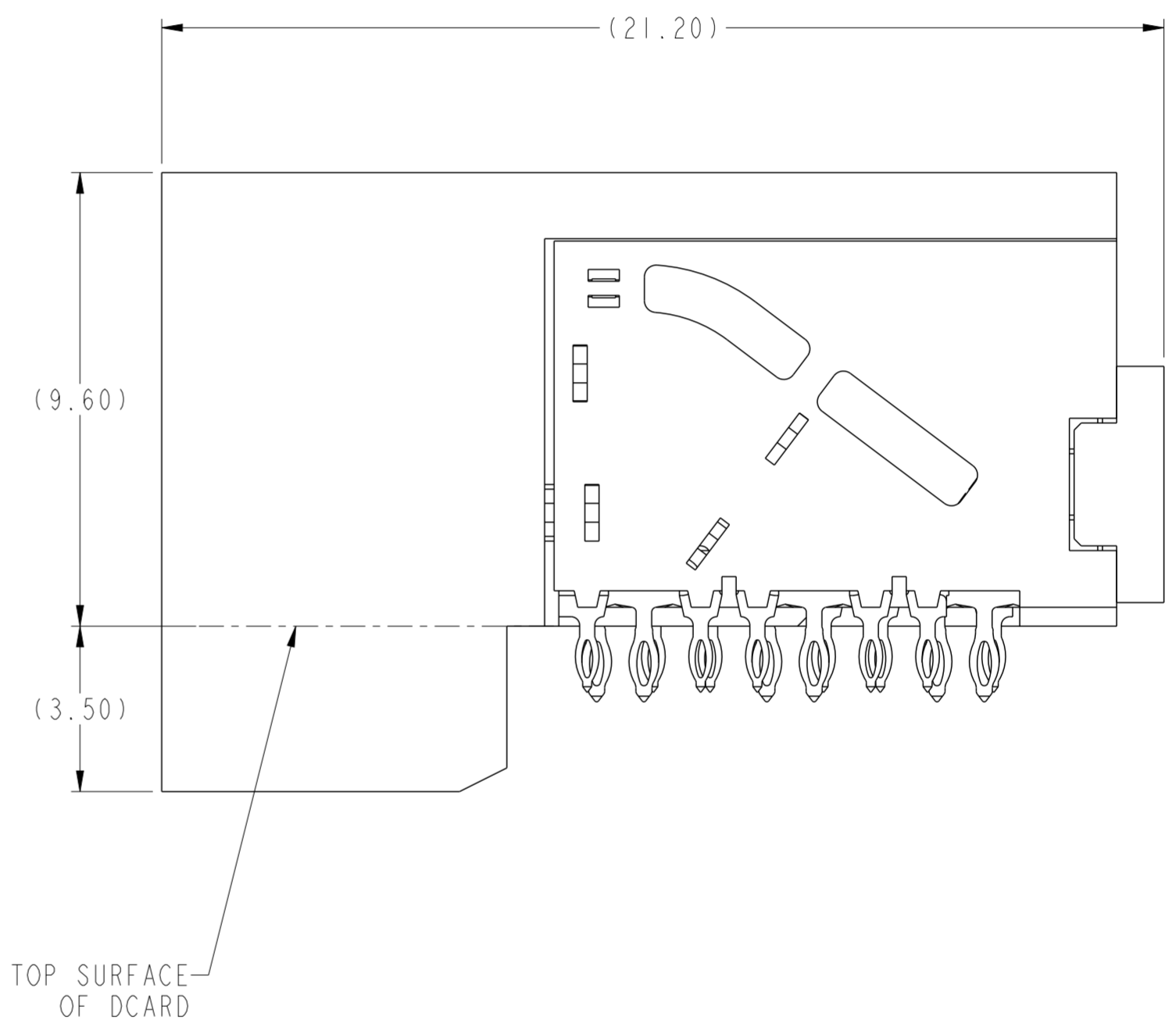
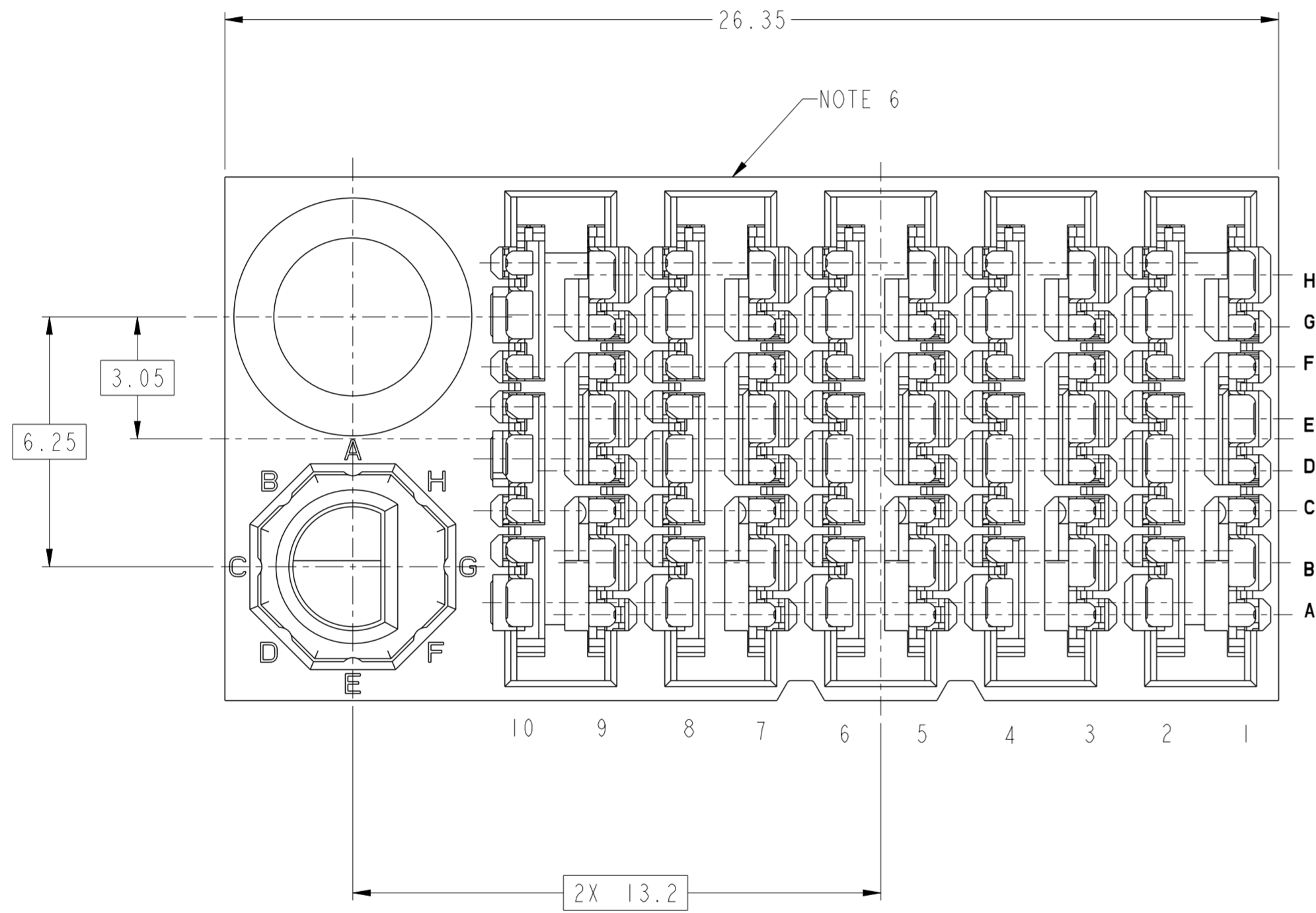
Printed: Dec 01, 2017



DETAIL B
SCALE 20:1

10124413-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	---	dr	Daniel Xiao	2014/01/07	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				product family	ExaMAX	rel level	Released	
surface	-	appr	Heaven Cen	2017/11/30							title	ExaMAX R.A. RECEPTACLE
	linear	0.X	±.3		cat. no.	SEE TABLE	Product - Customer Drw	sheet 7 of 10				
		0.XX	±.10									
		0.XXX	±.050									
	angular	0°	±°									



10124413-X2ALF THRU 10124413-X2JLF
 LEFT GUIDANCE (SEE NOTE 17)
 FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1
 SCALE 8:1

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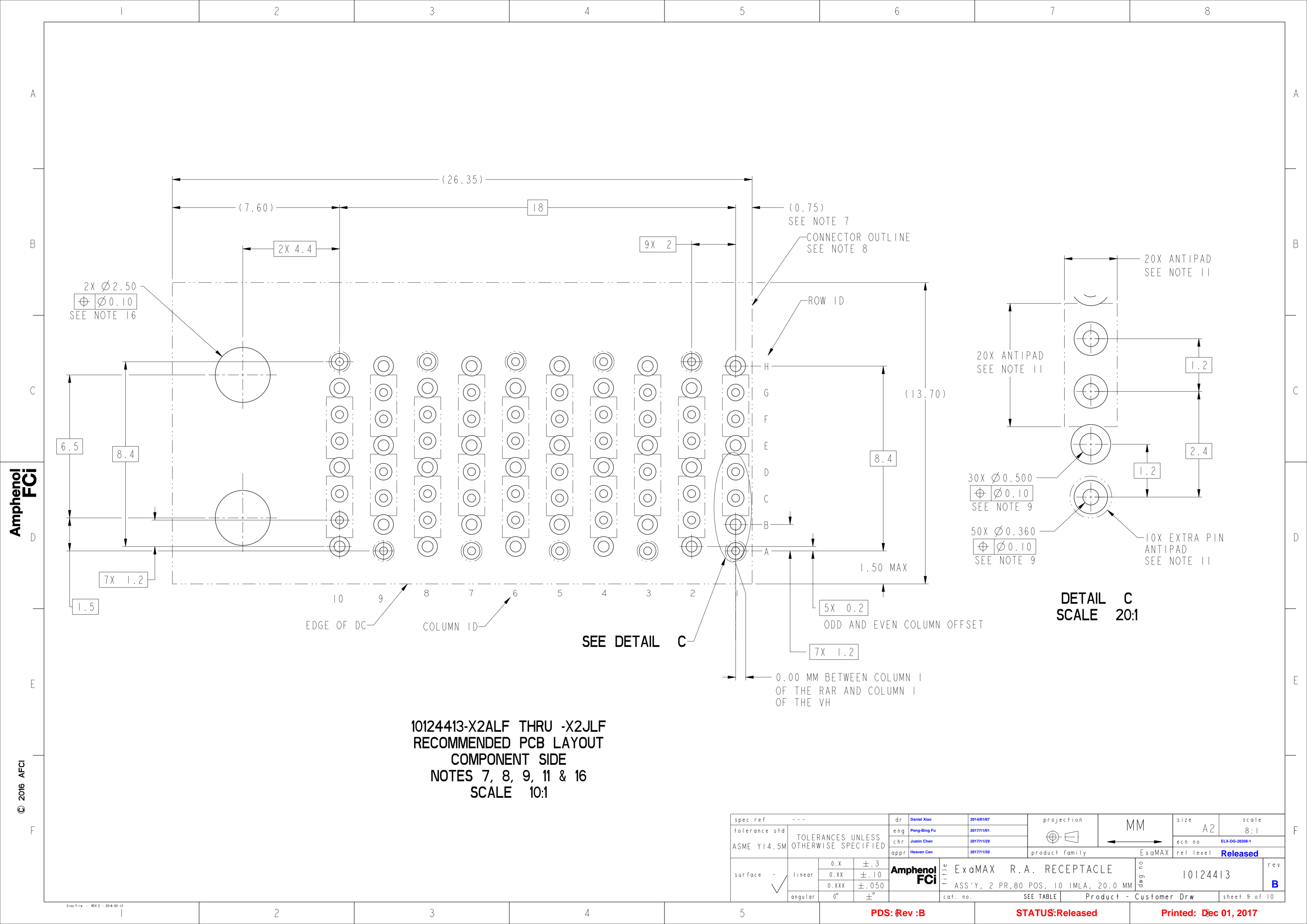
© 2016 AFci

spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	2:1
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	dwg no	10124413
surface	linear	0.X	±.3	Amphenol FCi		title		ExaMAX R.A. RECEPTACLE		
		0.XX	±.10			title		ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		
		0.XXX	±.050			cat. no.		-		Product - Customer Drw
	angular	0°	±°			sheet 8 of 10				

PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017

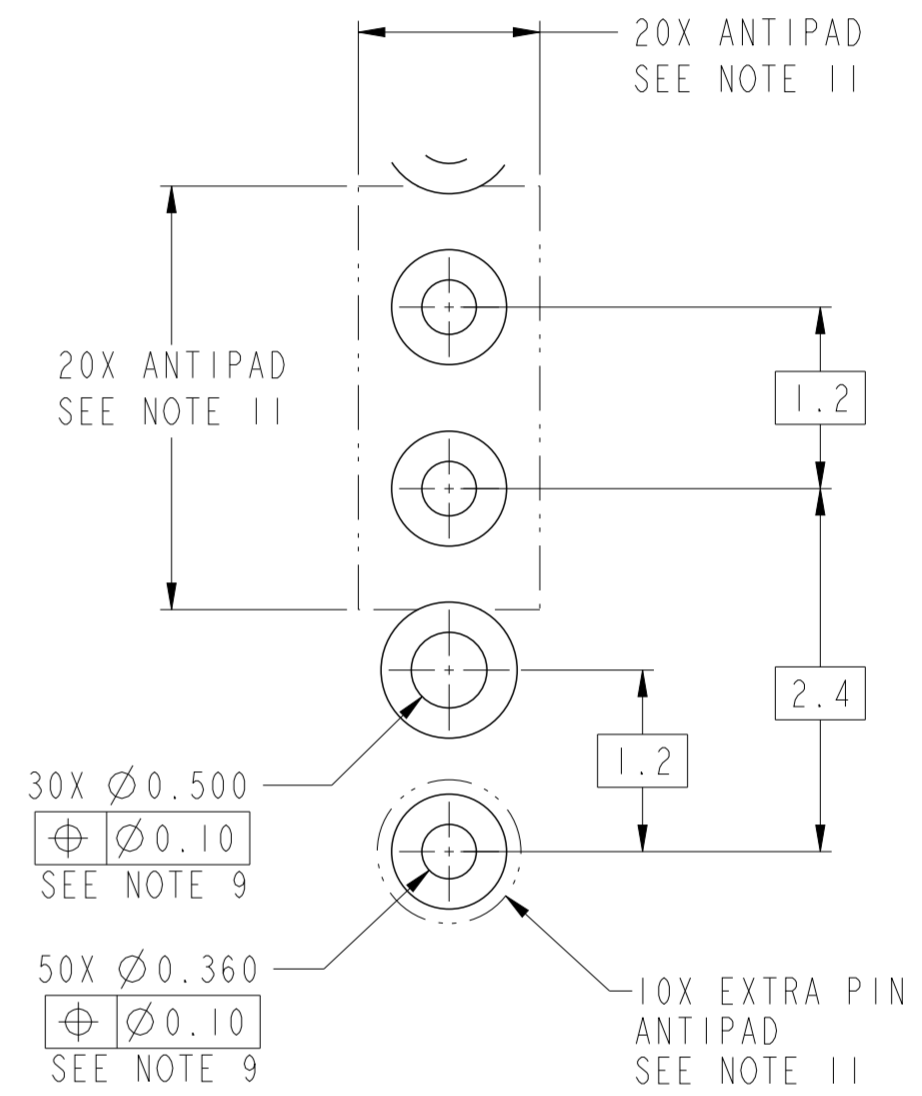


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**10124413-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1**

SEE DETAIL C



**DETAIL C
SCALE 20:1**

spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	8:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/01			ecn no	ELX-DG-28208-1	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	-	linear	0.X	±.3	product family		ExaMAX	rel level	Released	
			0.XX	±.10	title		ExaMAX R.A. RECEPTACLE	dwg no	10124413	rev
			0.XXX	±.050	Amphenol FCI		ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM			B
		angular	0°	±°	cat. no.		SEE TABLE	Product - Customer Drw	sheet 9 of 10	

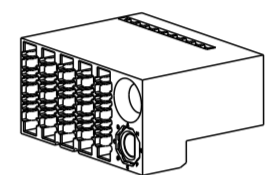
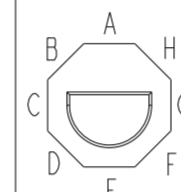
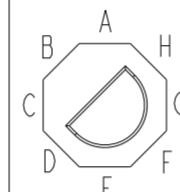
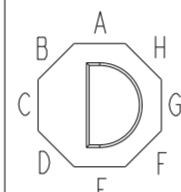
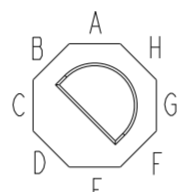
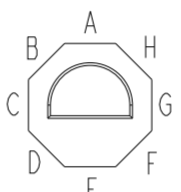
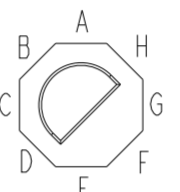
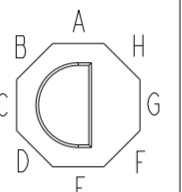
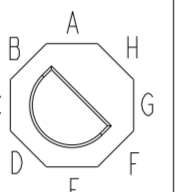
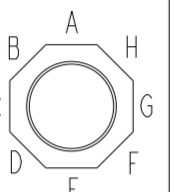
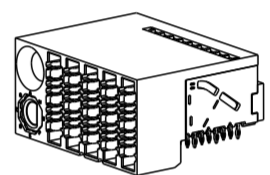
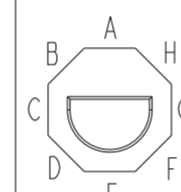
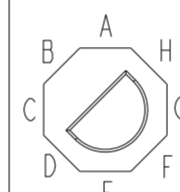
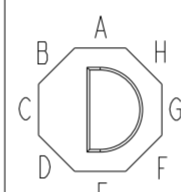
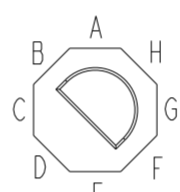
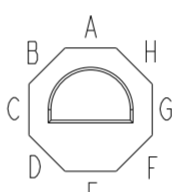
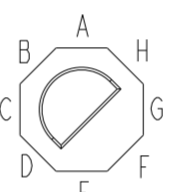
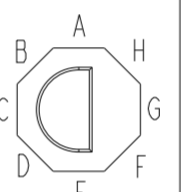
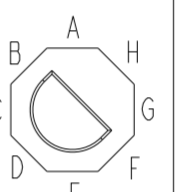
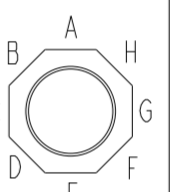
PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017

10124413 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10124413-1YYLF	STANDARD MATE
10124413-2YYLF	ADVANCED MATE
10124413-3YYLF	SHORT DETECT
10124413-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
	WITHOUT END GUIDES MODULE (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)		
											

NOTES:

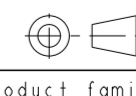
- ① - CONNECTOR MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
CONTACT: COPPER ALLOY
ORGANIZER: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
- 2 - CONTACT PLATING:
SEPARABLE INTERFACE:
PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS 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 BAR 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, 10124413-2XXLF, 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, 10124413-3XXLF, 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, 10124413-4XXLF, 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 M2 HOLD DOWN SCREWS MUST BE USED TO SECURE THE CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE 1.5-2.7MM 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	Daniel Xiao	2014/01/07	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	linear	appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level	Released		
	angular	Amphenol FCI		title	ExaMAX R.A. RECEPTACLE		dwg no	10124413		
				part no.	SEE TABLE	Product - Customer Drw	rev	B		
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PDS: Rev :B

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