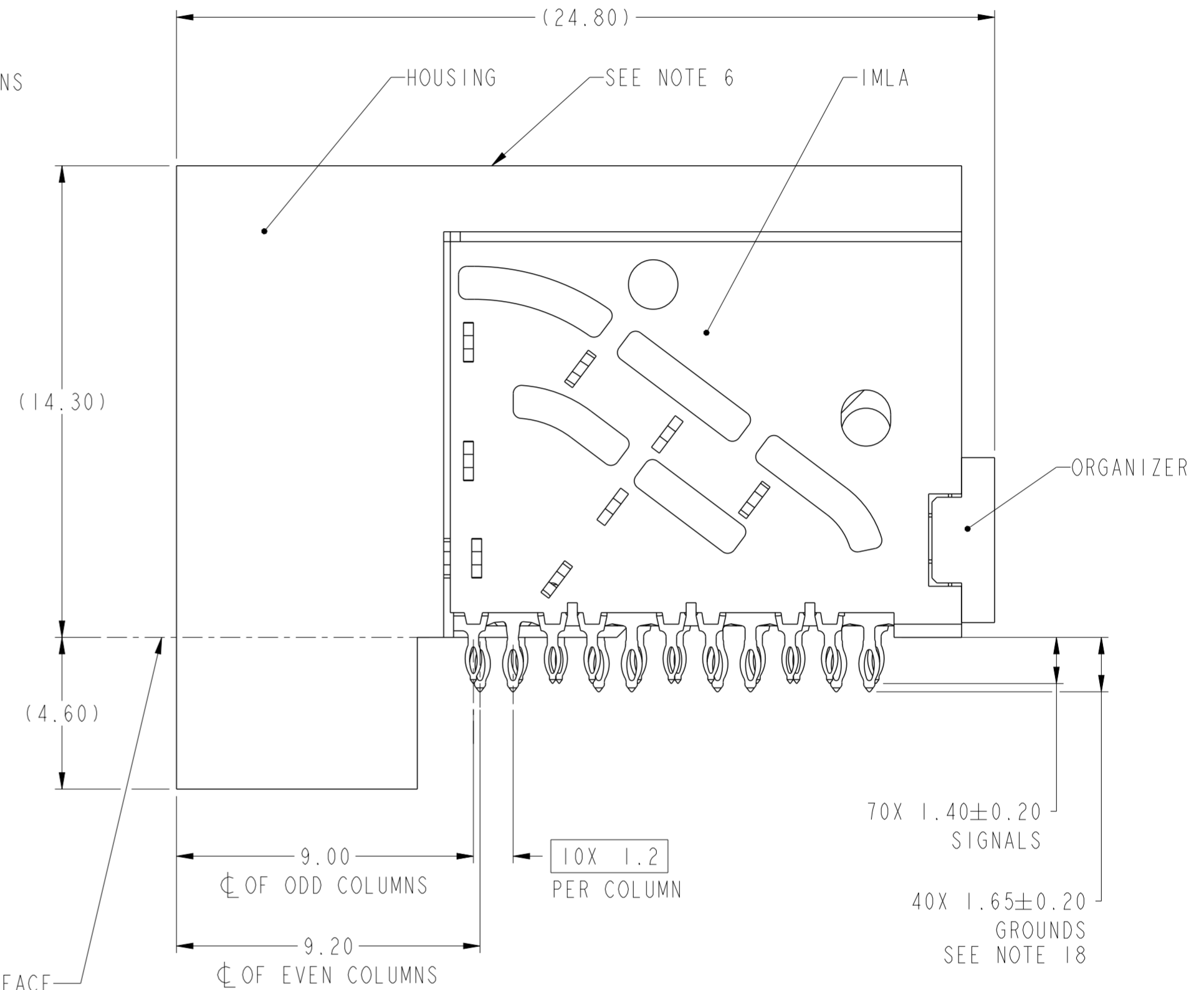
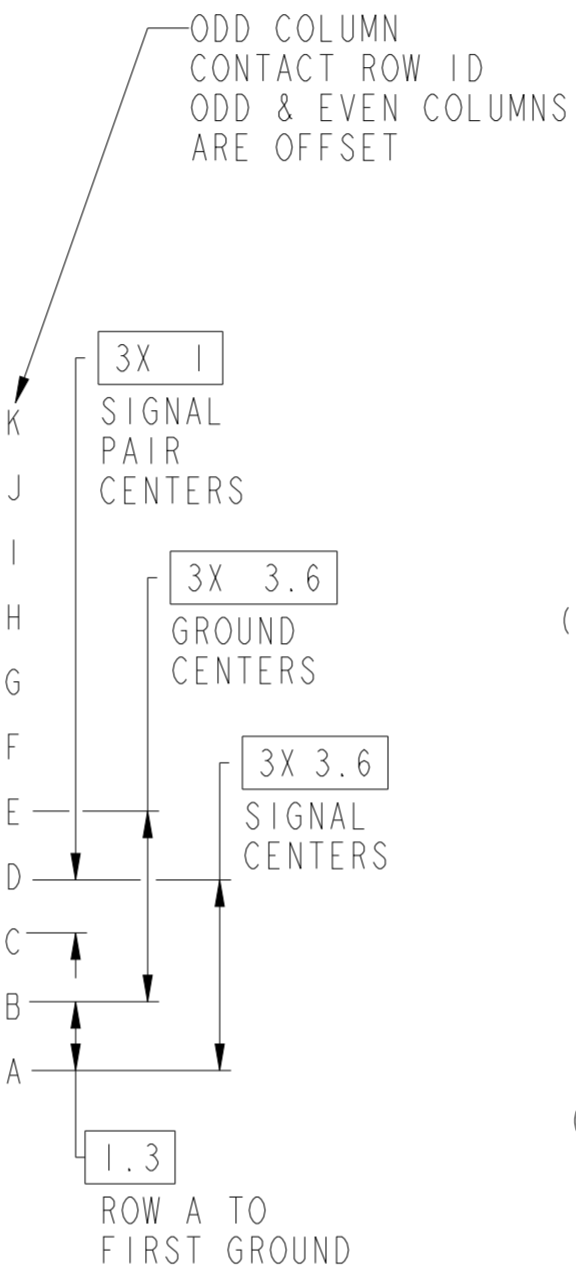
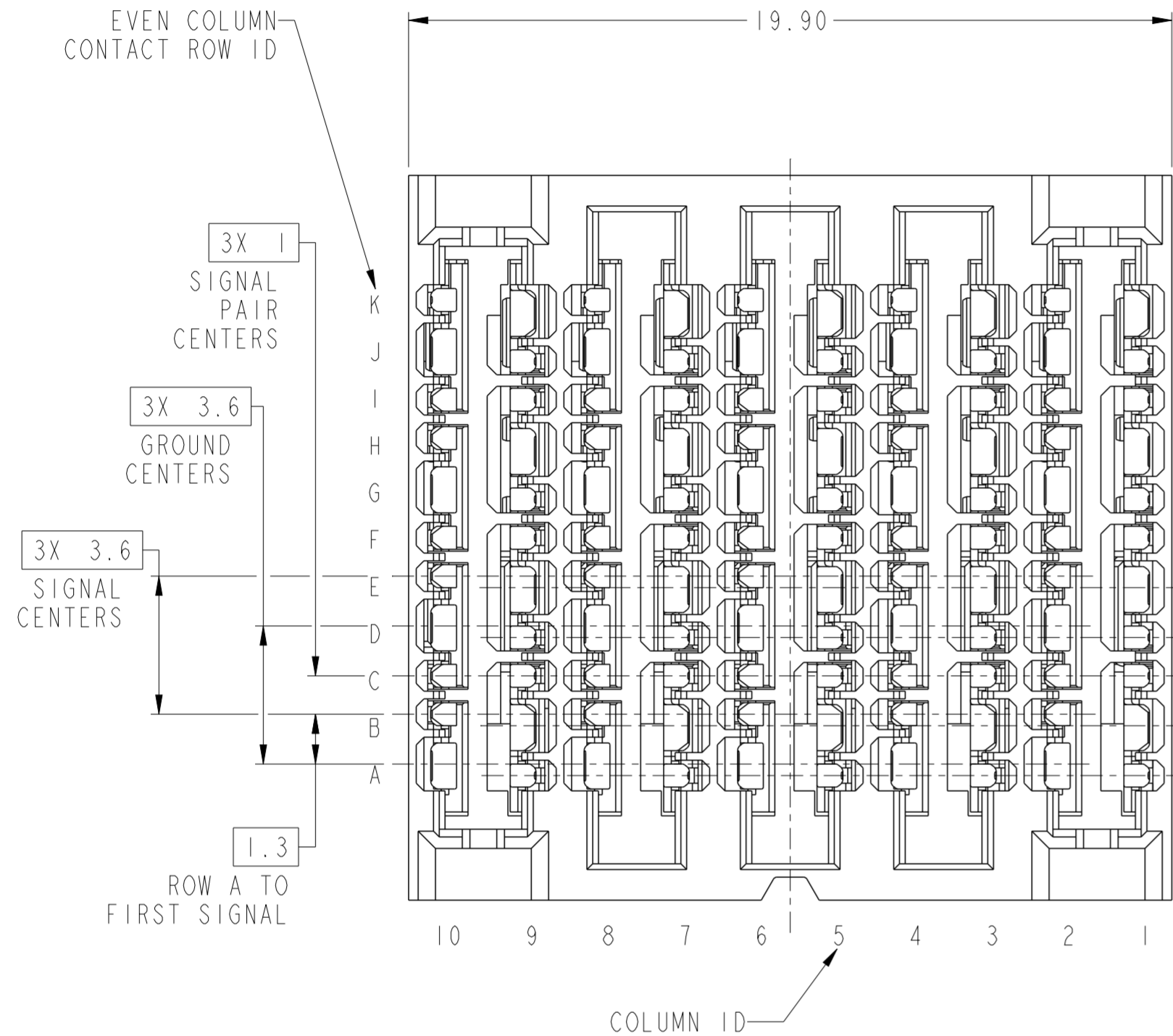


PRODUCT NUMBER  
SEE TABLE



10121401-Y01YLF (10121401-101YLF SHOWN)  
STANDARD MATE RECEPTACLE

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1	rel level	Released										
ASME Y14.5M		chr	-	app							Heaven Cen	2020/04/03	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°	±°			<b>ExaMAX R.A. RECEPTACLE</b> ASS'Y, 3 PR, 110 POS, 10 IMLA		cat. no.	Product - Customer Drw	sheet 1 of 10
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		

PDS: Rev :C

STATUS:Released

Printed: Apr 03, 2020

Amphenol FCI

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1 2 3 4 5 6 7 8

A

B

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A

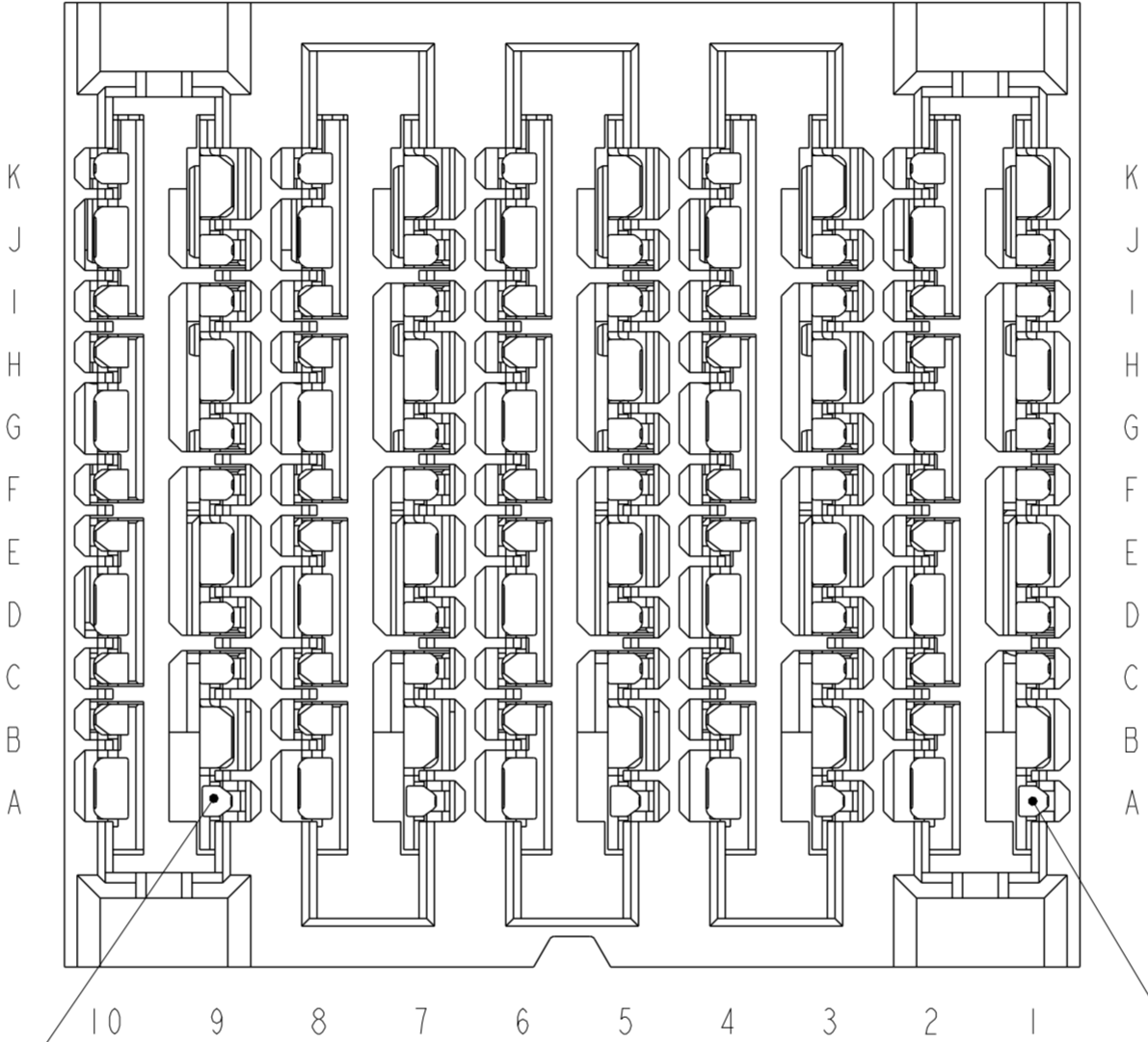
B

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D

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F



ADVANCED MATE  
POSITION A9  
SEE NOTE 13

ADVANCED MATE  
POSITION A1  
SEE NOTE 13

**10121401-201YLF**  
**ADVANCED MATE RECEPTACLE**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9  
 FOR ALL DIMENSIONS SEE 10121401-101YLF ON SHEET 1

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spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1												
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1														
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-				rel level	Released														
surface -		appr	Heaven Cen				product family	ExaMax														
<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°	±°	<b>Amphenol FCi</b>		<b>title</b> ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA			<b>dwg no</b> 10121401	<b>rev</b> C		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		cat. no.		Product - Customer Drw			sheet 2 of 10															

1 2 3 4 5 6 7 8

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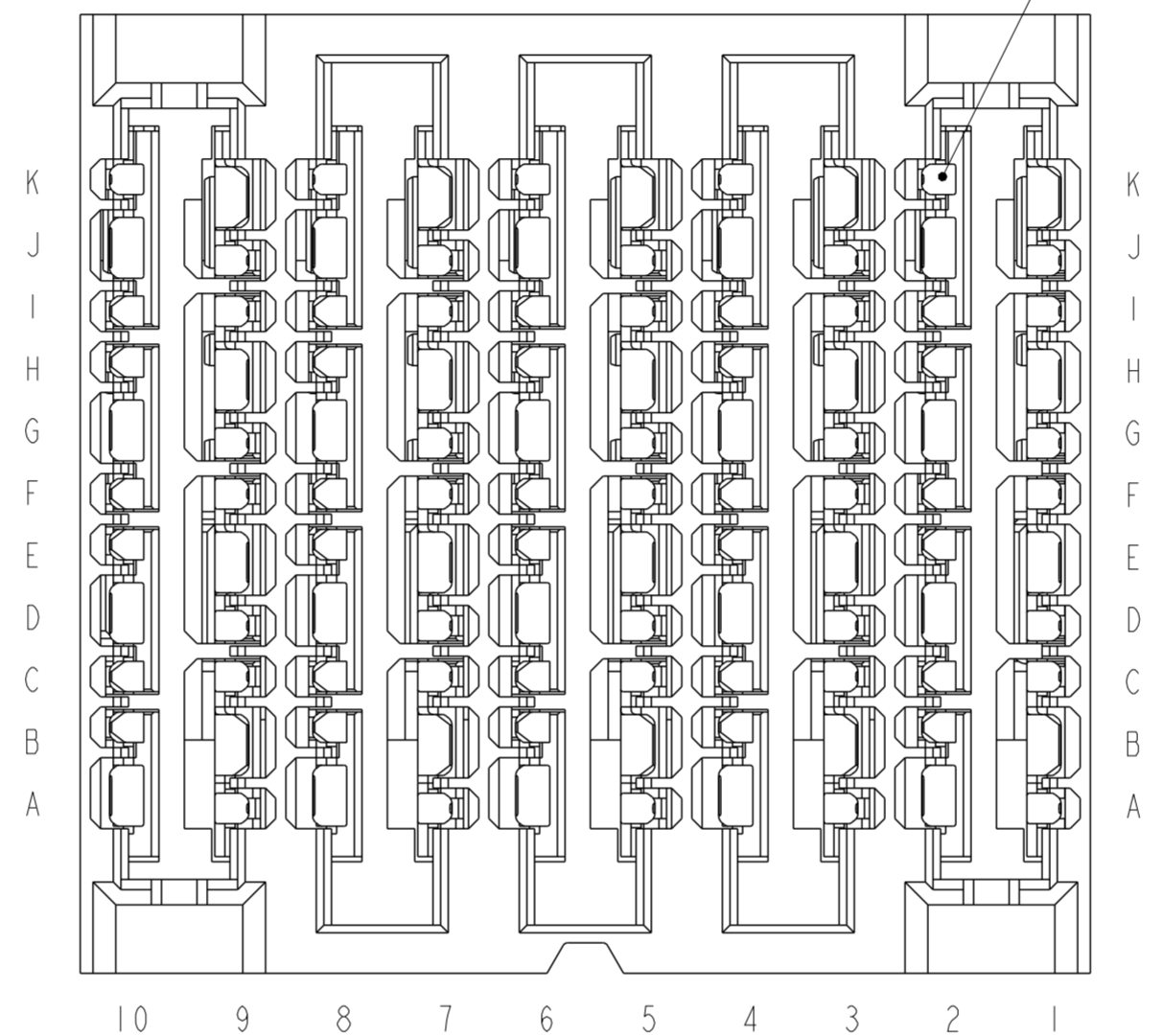
C

D

E

F

SHORT DETECT  
POSITION K2  
SEE NOTE 14

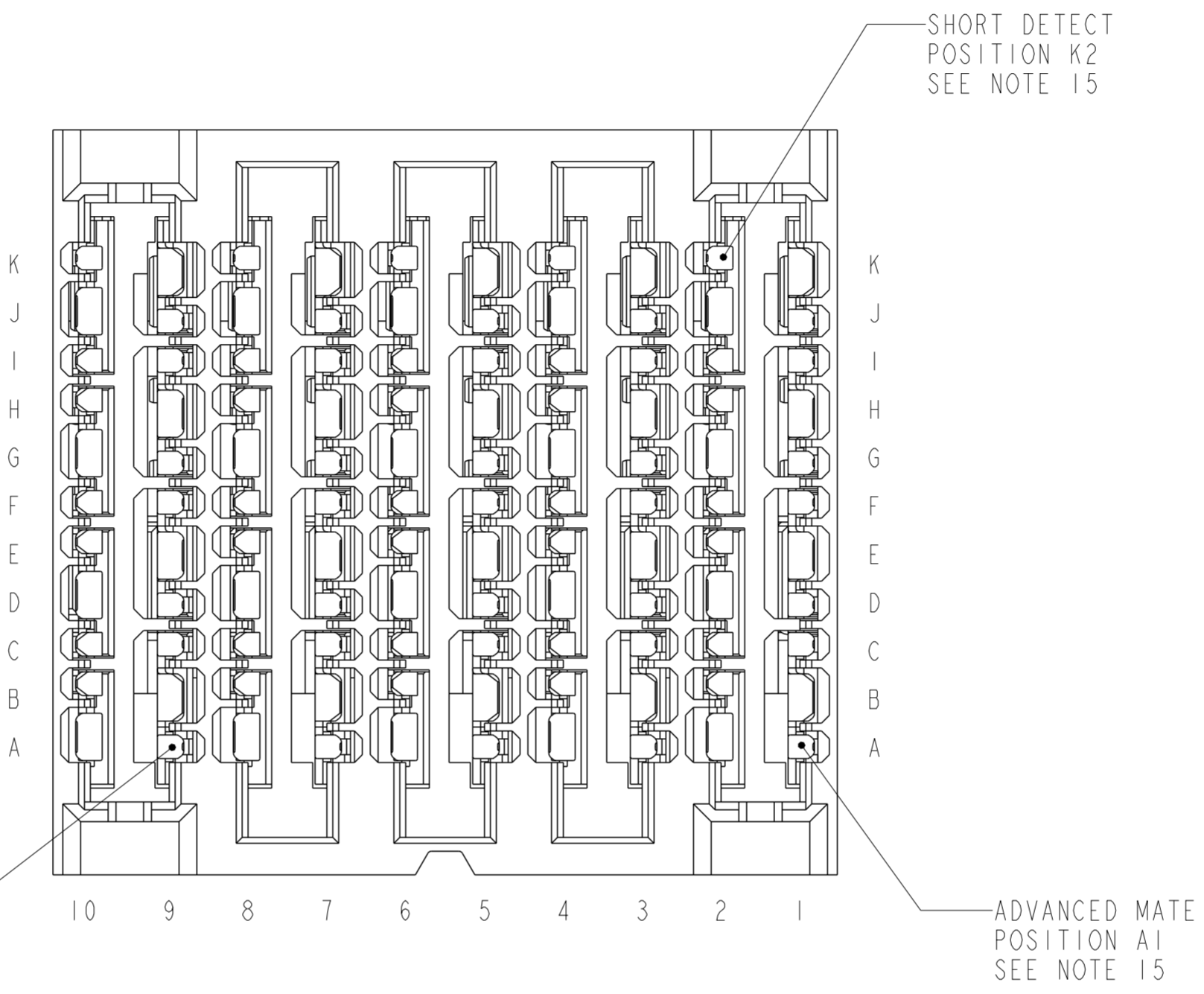


10121401-301YLF  
SHORT DETECT RECEPTACLE  
SHORT DETECT POSITION IS K2 ONLY  
FOR ALL DIMENSIONS SEE 10121401-101YLF ON SHEET 1

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spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1		
ASME Y14.5M		chr	-	rel level			Released			
		appr	Heaven Cen	2020/04/03			product family	ExaMax		
surface	-	linear	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA	dwg no 10121401	rev C	cat. no. Product - Customer Drw	sheet 3 of 10
			0.XX	±.10						
			0.XXX	±.050						
		angular	0°	±°						

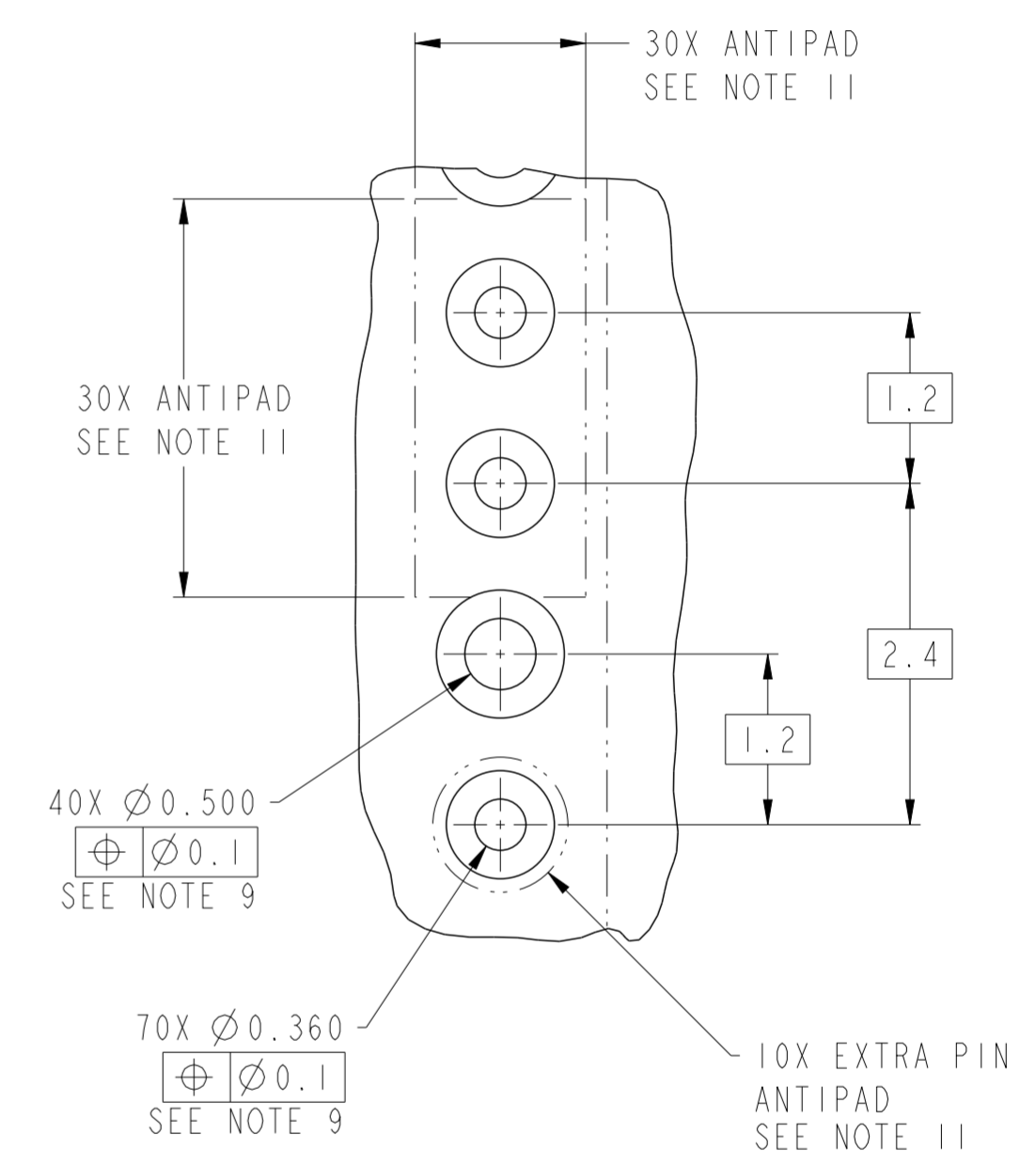
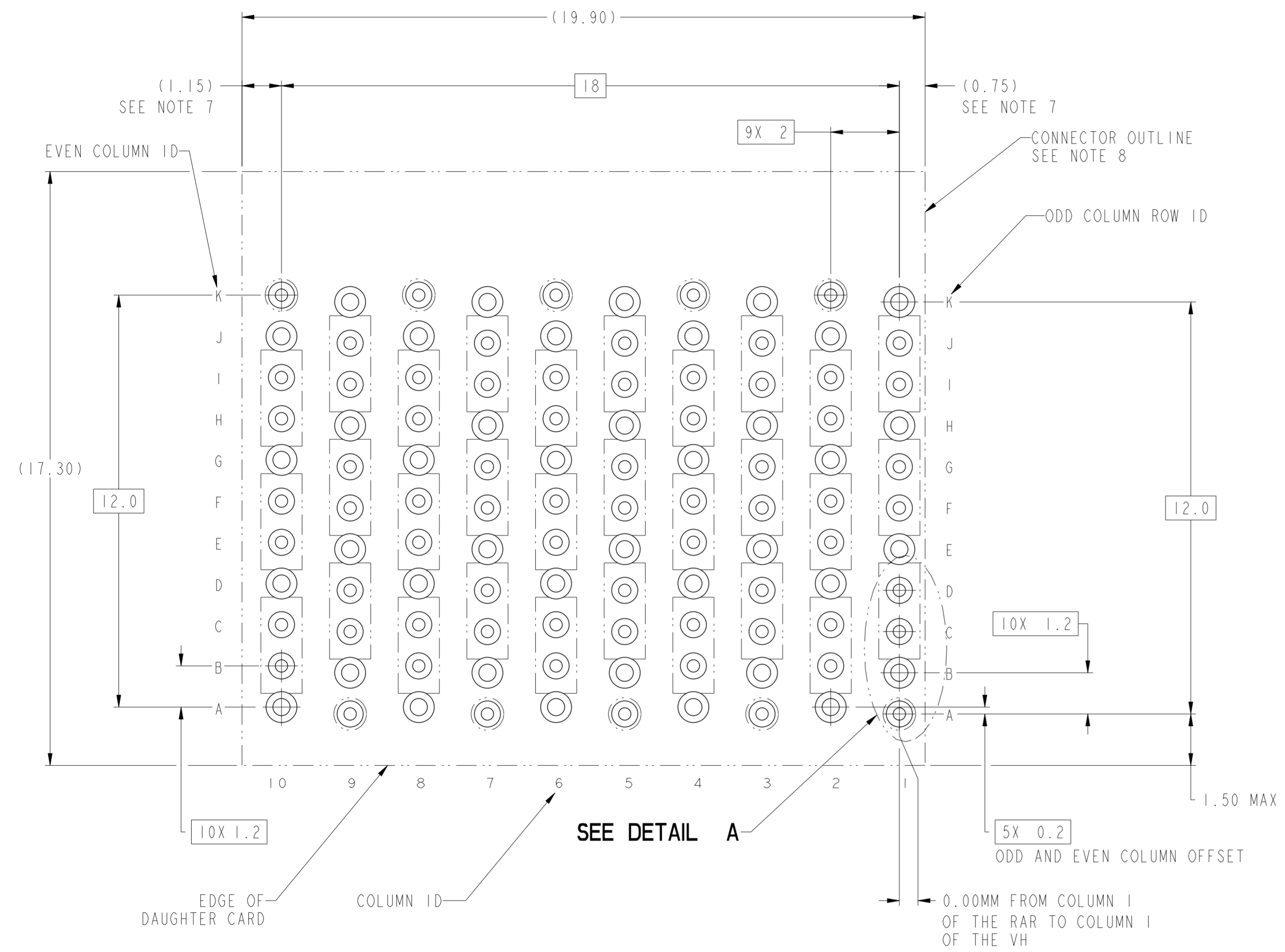


**10121401-401YLF**  
**ADVANCED MATE/SHORT DETECT RECEPTACLE**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9  
 SHORT DETECT POSITION IS K2 ONLY  
 FOR ALL DIMENSIONS SEE 10121401-101YLF ON SHEET 1

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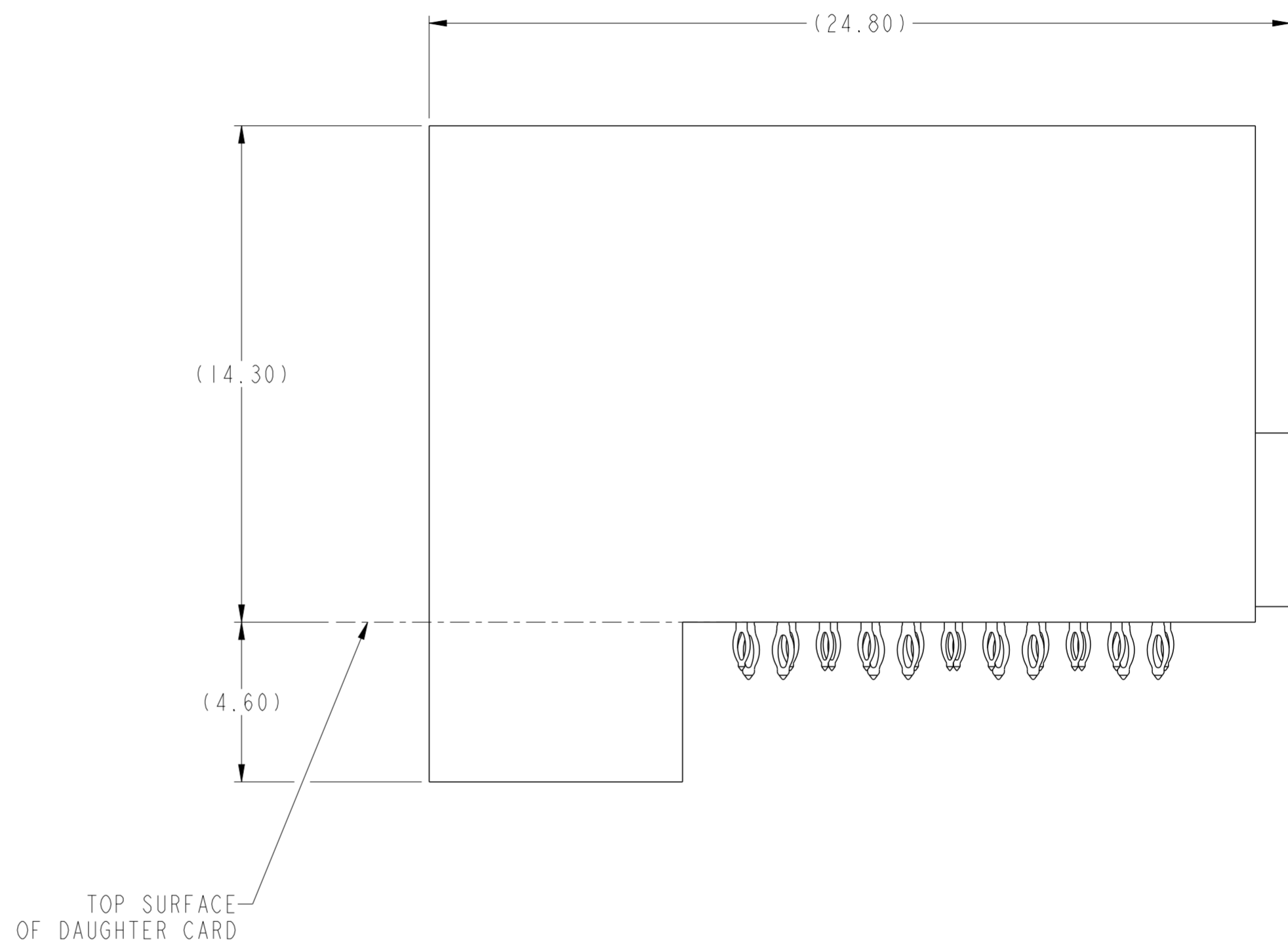
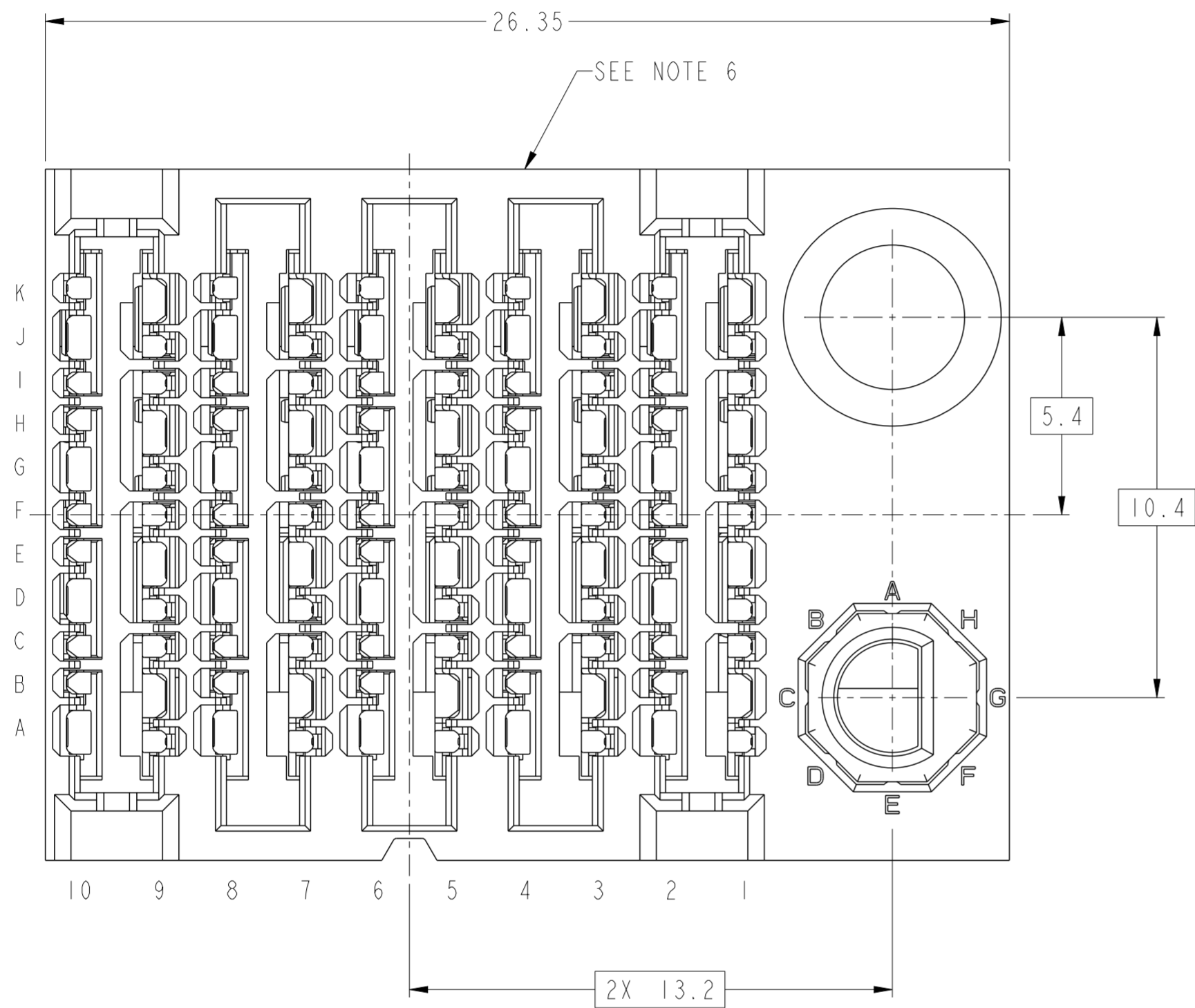
spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1											
ASME Y14.5M		chr	-	rel level			Released												
		appr	Heaven Cen	2020/04/03			product family	ExaMax											
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 R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA			dwg no 10121401	rev C
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±°																	
		cat. no.	Product - Customer Drw			sheet 4 of 10													



**DETAIL A**  
SCALE 20:1

**10121401-X01YLF RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
NOTES 7, 8, 9, & 11  
SCALE 10:1**

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1				
ASME Y14.5M		chr	-	rel level			Released					
		appr	Heaven Cen	2020/04/03								
surface	linear	0.X	±.3		product family	ExaMax	rel level	Released				
		0.XX	±.10		title	ExaMAX R.A. RECEPTACLE			dwg no	10121401	rev	C
		0.XXX	±.050		ASS'Y, 3 PR, 110 POS, 10 IMLA	cat. no.	Product - Customer Drw	sheet 5 of 10				
	angular	0°	±°									



10121401-X1AYLF THRU 10121401-X1JYLF  
 RIGHT GUIDANCE (SEE NOTE 17)  
 FOR ALL OTHER DIMENSIONS SEE 10121401-101YLF ON SHEET 1

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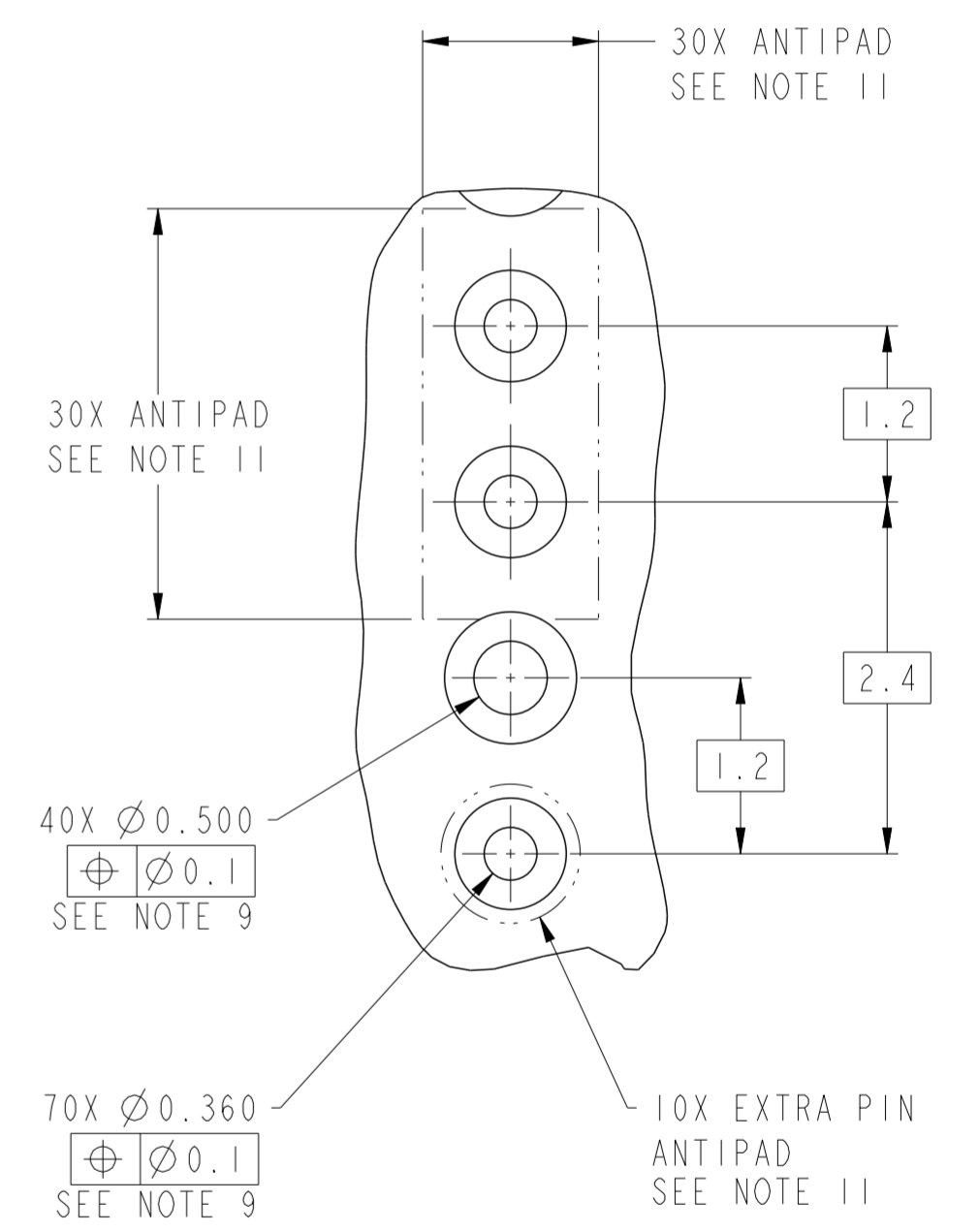
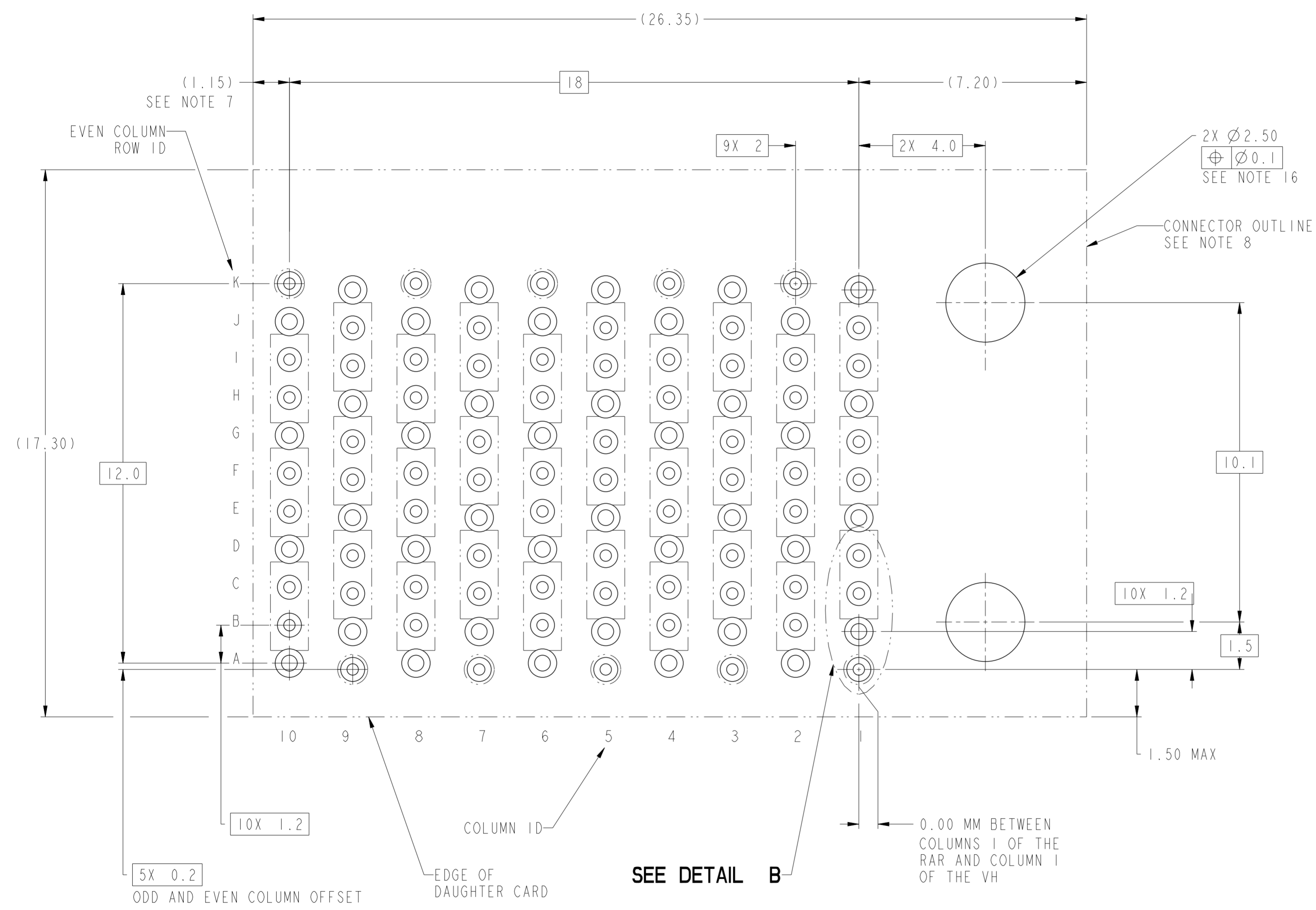
spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1														
ASME Y14.5M		chr	-	app			Heaven Cen	2020/04/03	product family	ExaMax	rel level	Released										
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°	±°			<b>title</b> ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA		<b>dwg no</b> 10121401	<b>rev</b> C			
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		cat. no.		Product - Customer Drw			sheet 6 of 10															

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STATUS:Released

Printed: Apr 03, 2020

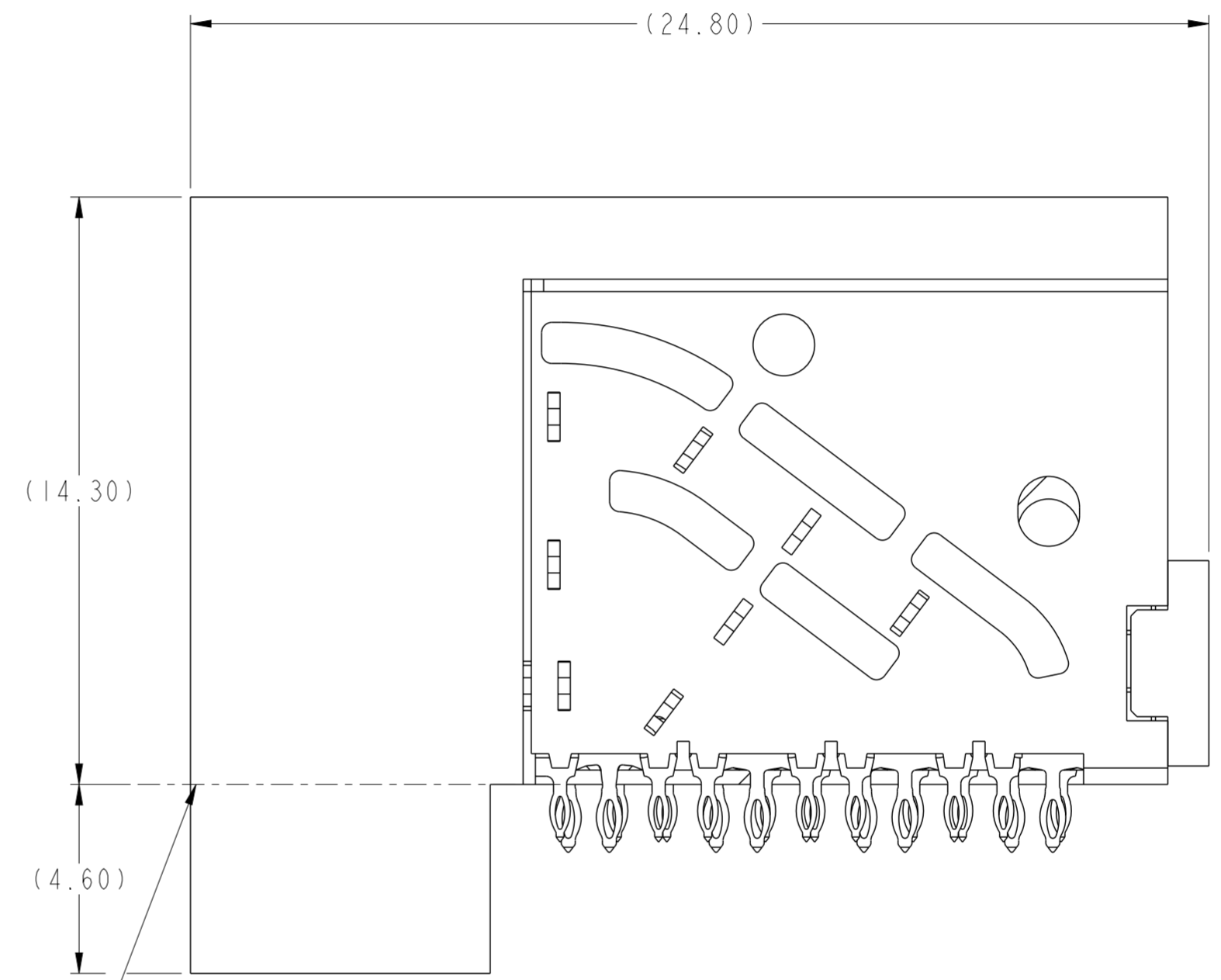
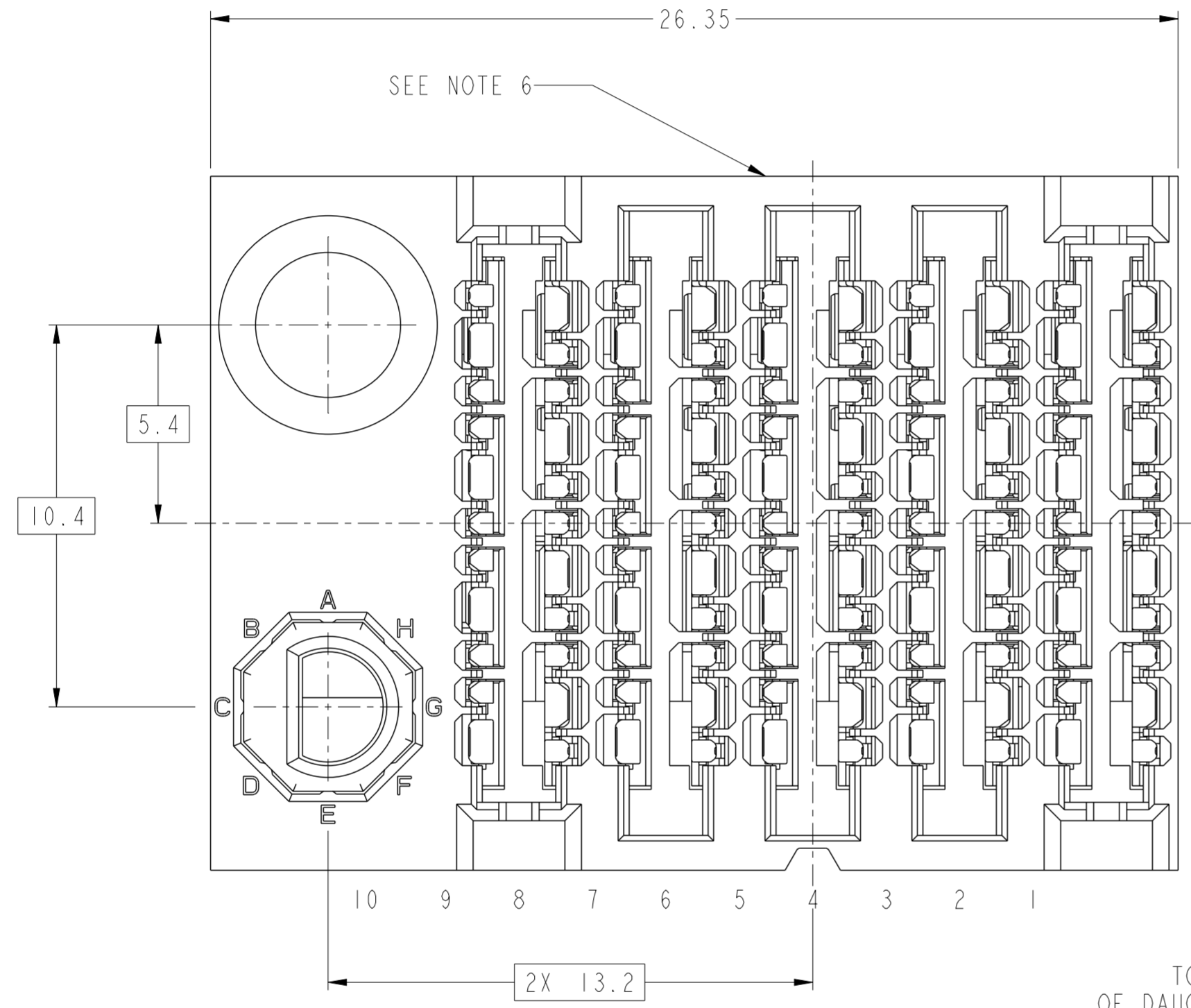




**DETAIL B**  
SCALE 20:1

**10121401-X1AYLF THRU -X1JYLF**  
**RECOMMENDED PCB LAYOUT**  
**COMPONENT SIDE**  
**NOTES 7, 8, 9, 11 & 16**  
**SCALE 10:1**

spec ref	SEE NOTES	dr	Siu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1	rel level	Released				
ASME Y14.5M		chr	-	appr							Heaven Cen	2020/04/03	product family	ExaMax
surface	linear	0.X	±.3								title	ExaMAX R.A. RECEPTACLE	dwg no	10121401
	angular	0°	±°			cat. no.	Product - Customer Drw	sheet 7 of 10						



TOP SURFACE OF DAUGHTER CARD

10121401-X2AYLF THRU 10121401-X2JYLF  
LEFT GUIDANCE (SEE NOTE 17)  
FOR ALL OTHER DIMENSIONS SEE 10121401-101YLF ON SHEET 1

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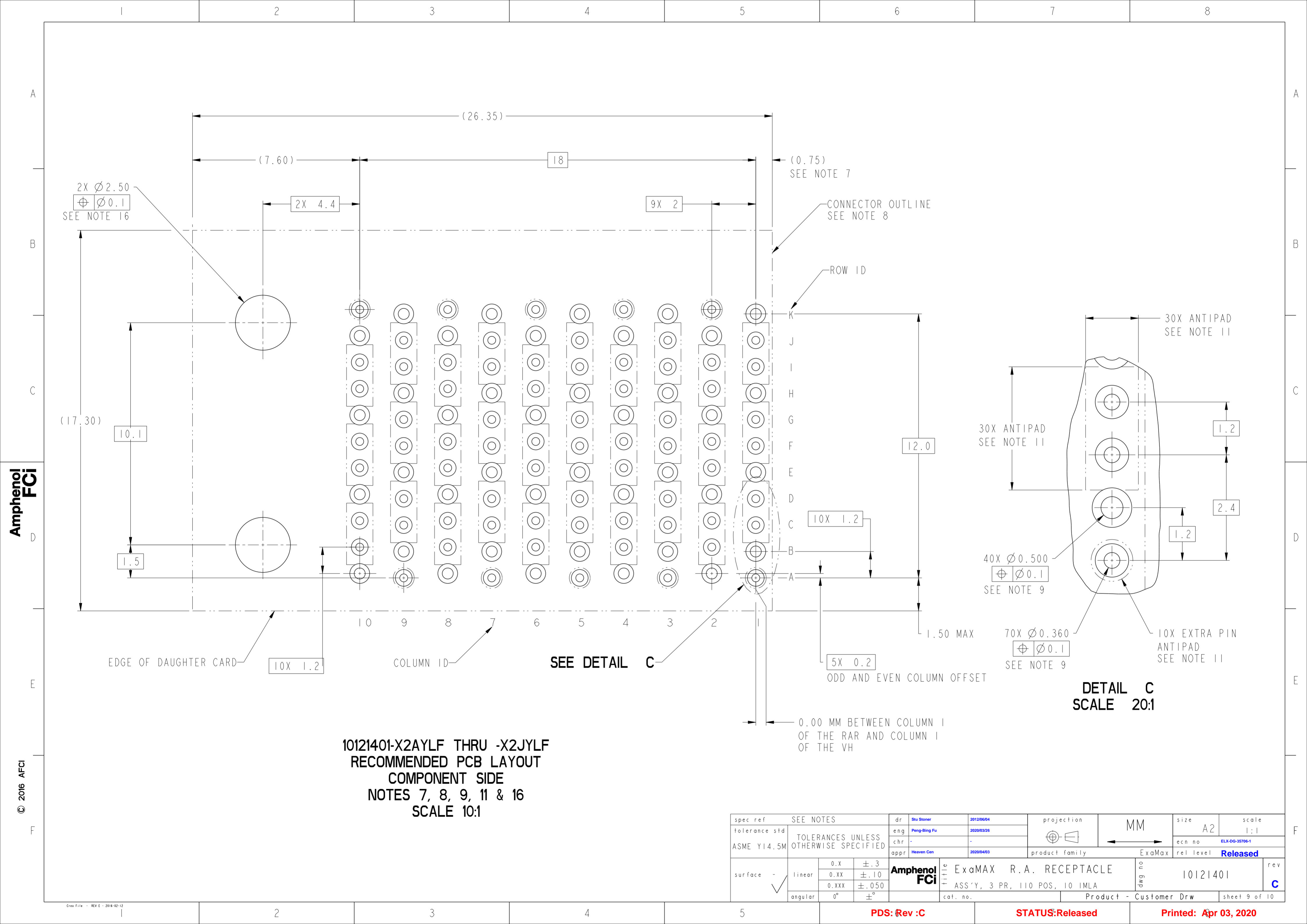
spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1	rel level	Released											
ASME Y14.5M		chr	-	appr							Heaven Cen	2020/04/03	product family	ExaMax							
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 R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA			dwg no 10121401	rev C
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±°																			
		cat. no.			Product - Customer Drw			sheet 8 of 10													

PDS: Rev :C

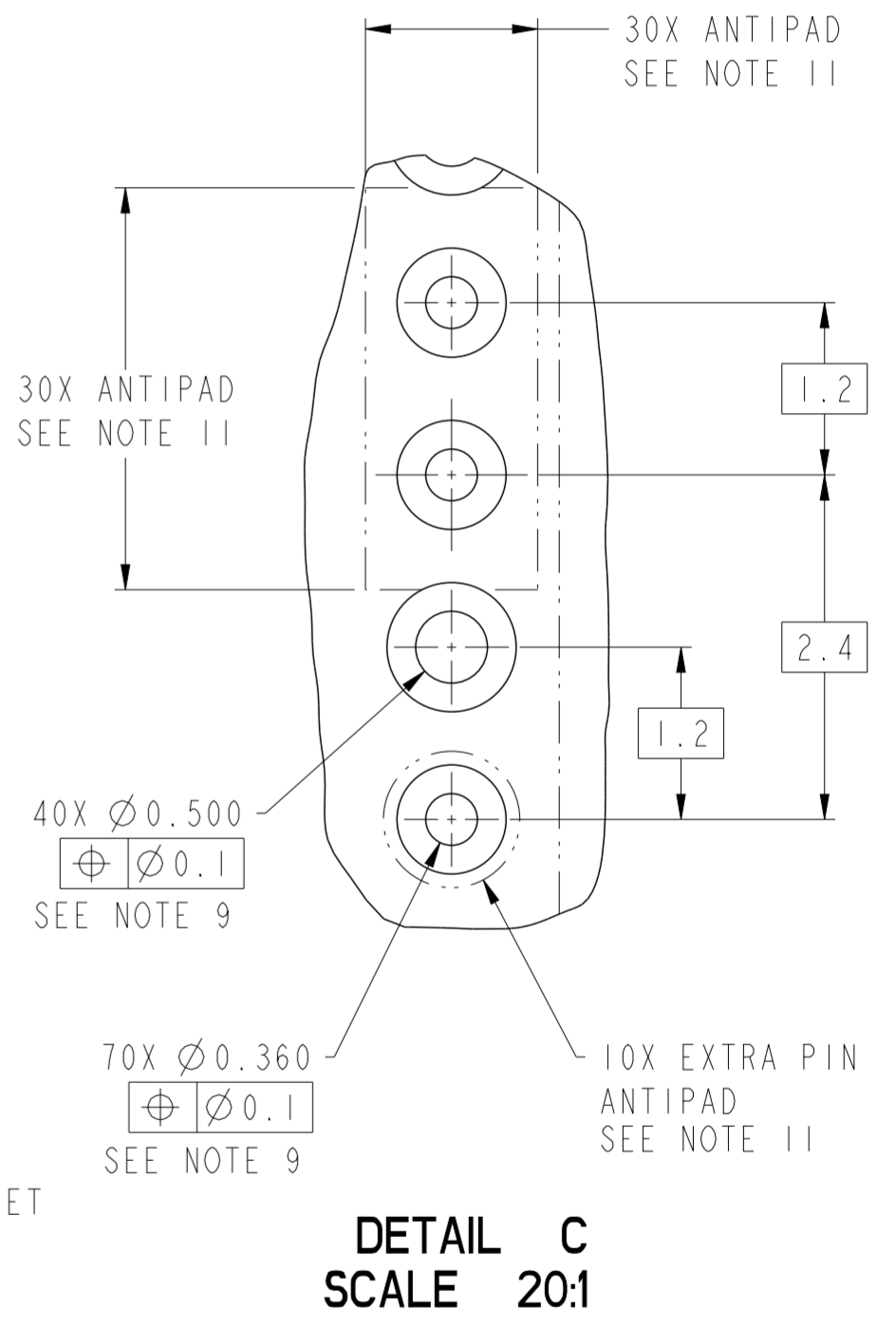
STATUS:Released

Printed: Apr 03, 2020





10121401-X2AYLF THRU -X2JYLF  
 RECOMMENDED PCB LAYOUT  
 COMPONENT SIDE  
 NOTES 7, 8, 9, 11 & 16  
 SCALE 10:1



spec ref	SEE NOTES	dr	Siu Stoner	2012/06/04	projection	MM	size	A2	scale	1:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1	rel level	Released		
ASME Y14.5M		chr	-	2020/04/03							product family	ExaMax
		appr	Heaven Cen									
surface	linear	0.X	±.3		<b>Amphenol FCI</b>		title	ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA		dng no 10121401	rev C	
		0.XX	±.10		cat. no.	Product - Customer Drw		sheet 9 of 10				
		0.XXX	±.050									
	angular	0°	±°									

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STATUS:Released

Printed: Apr 03, 2020

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1012401 - Y Y Y Y L F

PLATING  
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10121401-1YYYYLF	STANDARD MATE
10121401-2YYYYLF	ADVANCED MATE
10121401-3YYYYLF	SHORT DETECT
10121401-4YYYYLF	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:  
-YYYYLF: 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, (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, 10121401-2YYYYLF, 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, 10121401-3YYYYLF, 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, 10121401-4YYYYLF, 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 SCREW MUST BE USED TO SECURE THE CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE 2.0-6.0mm 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 FEATURE 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	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26		← →	ecn no	ELX-DG-35706-1		
ASME Y14.5M		chr					rel level	Released		
surface	linear	appr	Heaven Cen	2020/04/03	product family	ExaMax	rel level	Released		
	angular	Amphenol FCI		title	ExaMAX R.A. RECEPTACLE			cat. no.	10121401	
				part no.	ASS'Y, 3 PR, 110 POS, 10 IMLA			rev	C	
				cat. no.	Product - Customer Drw			sheet	10 of 10	

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