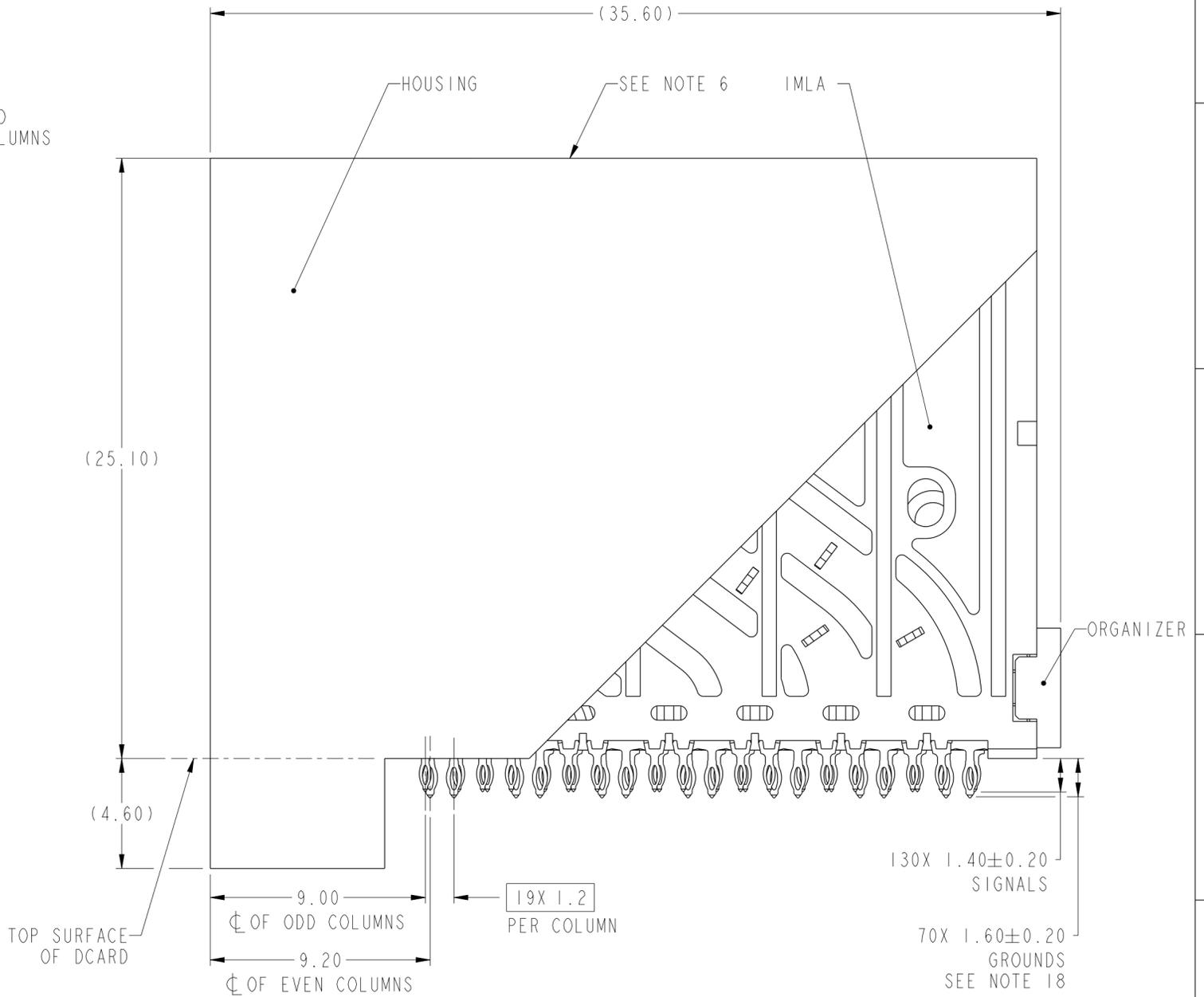
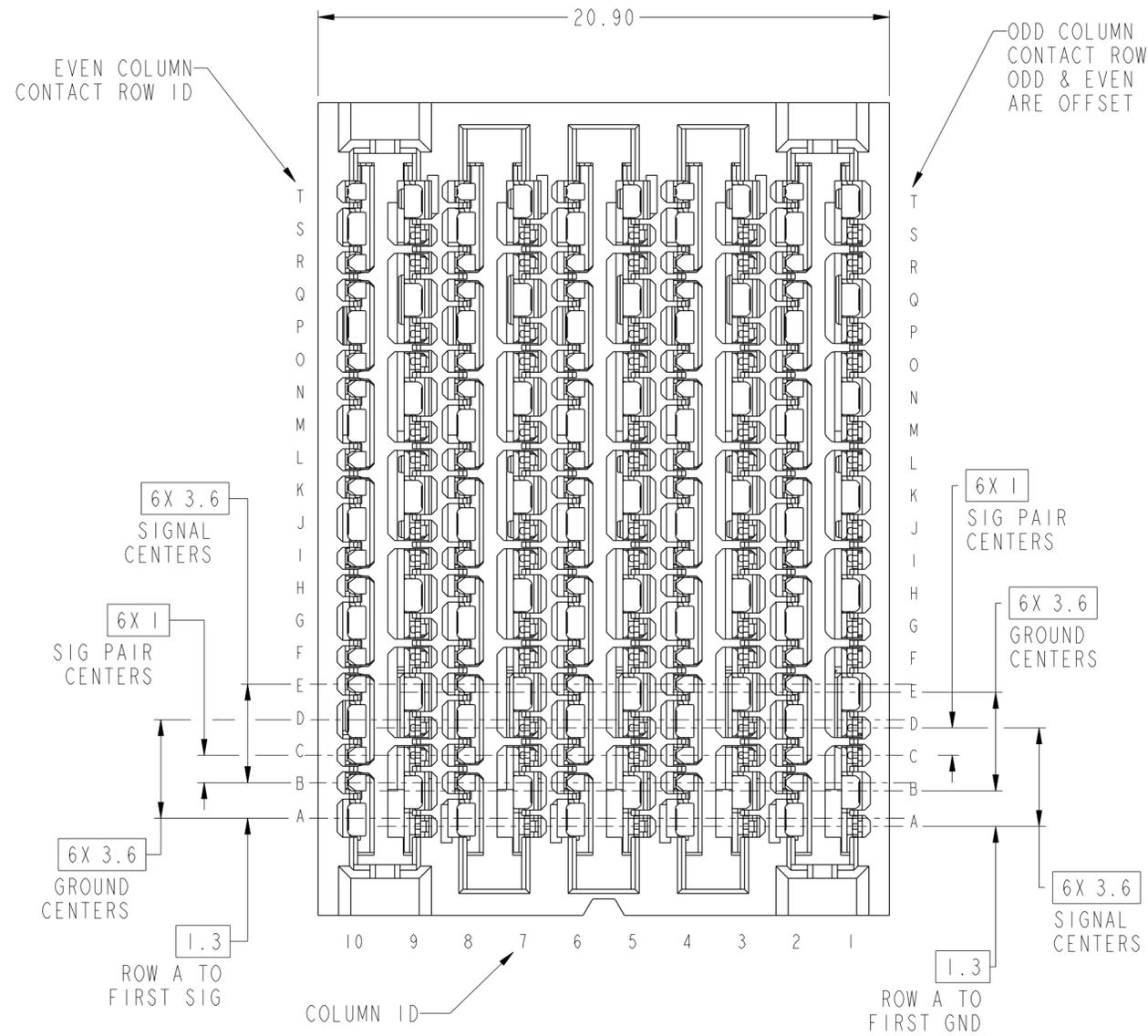


PRODUCT NUMBER
SEE TABLE



10131764-101LF
STANDARD MATE RECEPTACLE
SCALE 6:1

spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	6:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1	rel level	Released										
ASME Y14.5M		chr	Justin Chen	2017/11/29																
		appr	Heaven Cen	2017/11/30																
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 ASSY 6 PR, 10 IMLA, 200 POS, 21mm		product family ExaMAX	rel level Released	sheet 1 of 11
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		
cat. no.	SEE TABLE	Product - Customer Drw	10131764	rev	B															

1 2 3 4 5 6 7 8

A

B

C

D

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F

A

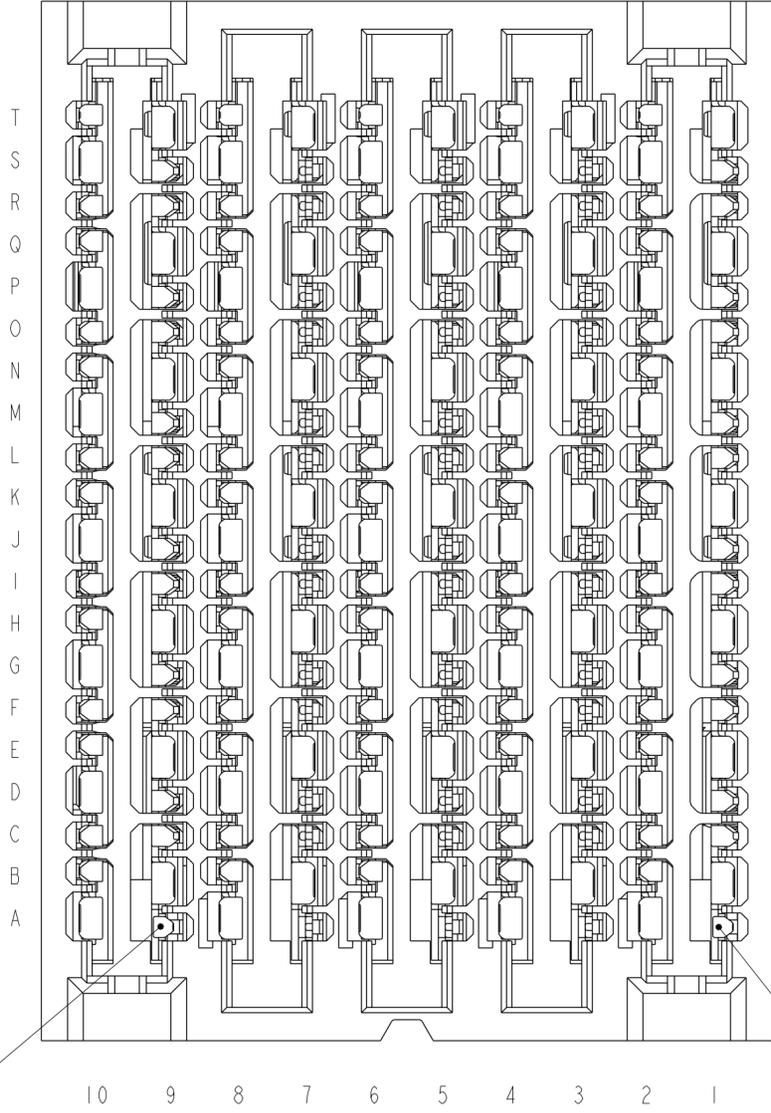
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ADVANCED MATE POSITION A9
SEE NOTE 13

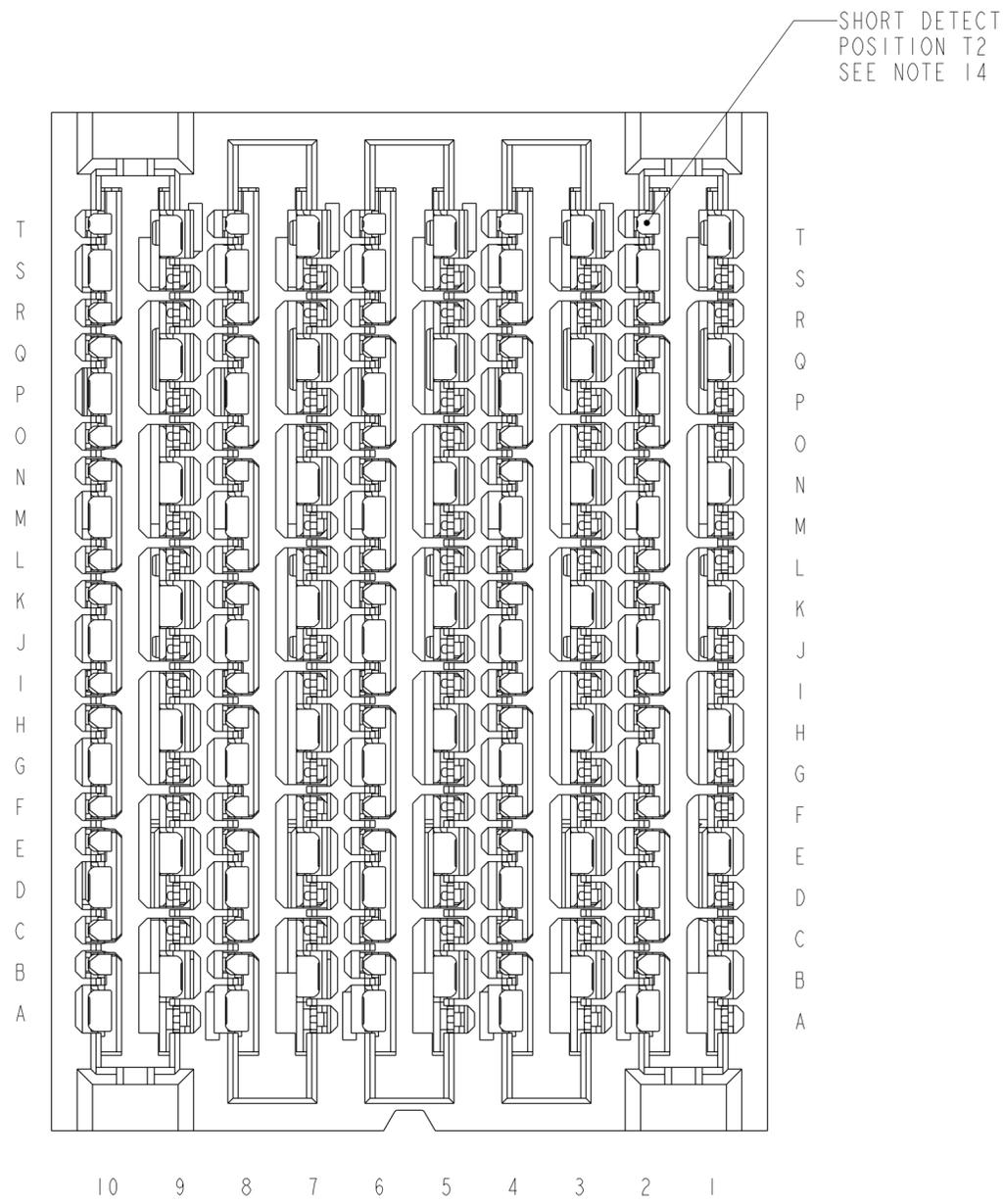
ADVANCED MATE POSITION A1
SEE NOTE 13

10131764-201LF
ADVANCED MATE RECEPTACLE
 ADVANCED MATE POSITIONS ARE A1 AND A9 ONLY
 FOR ALL DIMENSIONS SEE 10131764-101LF ON SHEET 1
 SCALE 7:1

Amphenol
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spec ref	SEE NOTES	dr	Will Liu	2014/12/18	projection	MM	size	A2	scale	7:1																	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1																			
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released																			
		appr	Heaven Cen	2017/11/30			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°	±°		<table border="1"> <tr> <td>title</td> <td>ExaMAX R.A. RECEPTACLE ASSY</td> <td>dwg no</td> <td>10131764</td> <td>rev</td> <td>B</td> </tr> <tr> <td>cat. no.</td> <td>SEE TABLE</td> <td>Product - Customer Drw</td> <td colspan="3">sheet 2 of 11</td> </tr> </table>	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10131764	rev	B	cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11		
linear	0.X	±.3																									
	0.XX	±.10																									
	0.XXX	±.050																									
angular	0°	±°																									
title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10131764	rev	B																						
cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11																								

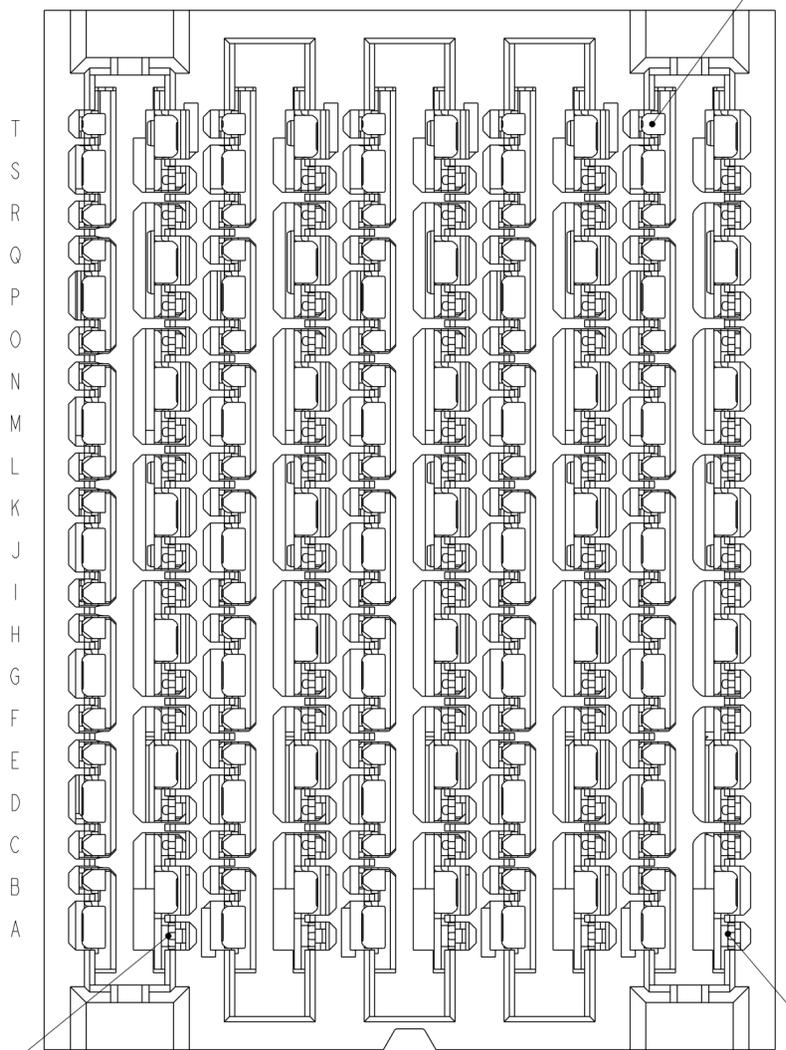


10131764-301LF
 SHORT DETECT RECEPTACLE
 SHORT DETECT POSITION IS T2
 FOR ALL DIMENSIONS SEE 10131764-101LF ON SHEET 1
 SCALE 7:1

Amphenol
FCi

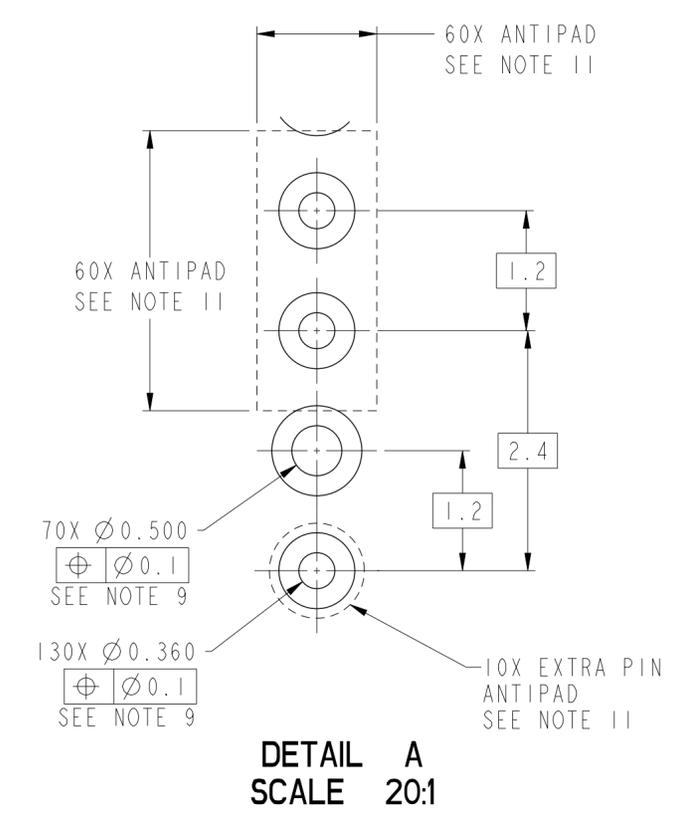
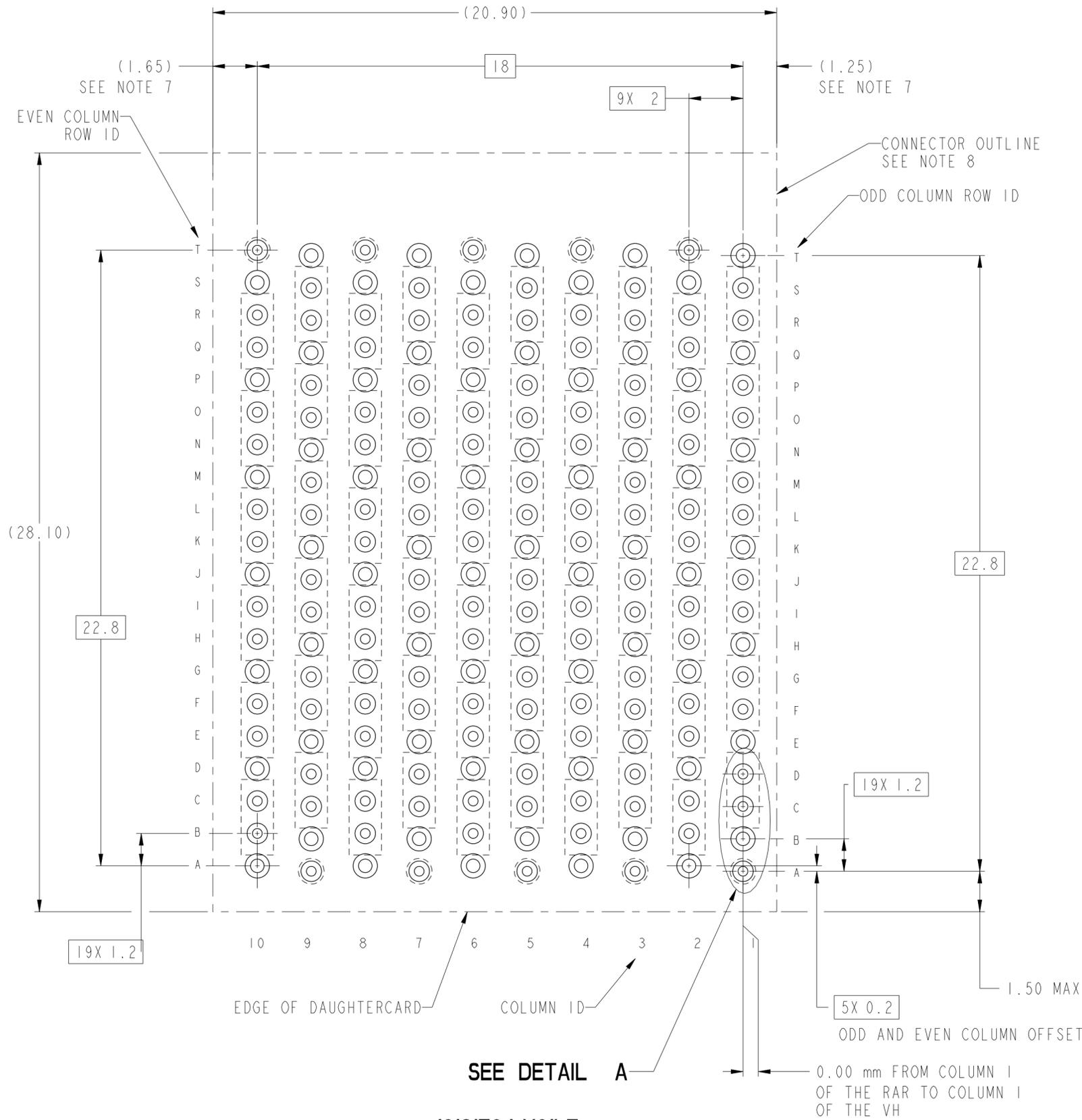
© 2016 AFci

spec ref	SEE NOTES	dr	Will Liu	2014/12/18	projection	MM	size	A2	scale	7:1							
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1									
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released									
		appr	Heaven Cen	2017/11/30			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 ASSY 6 PR, 10 IMLA, 200 POS, 21mm	dwg no 10131764	rev B
linear	0.X	±.3															
	0.XX	±.10															
	0.XXX	±.050															
angular	0°	±°															
		cat. no.	SEE TABLE	Product - Customer Drw	sheet 3 of 11												



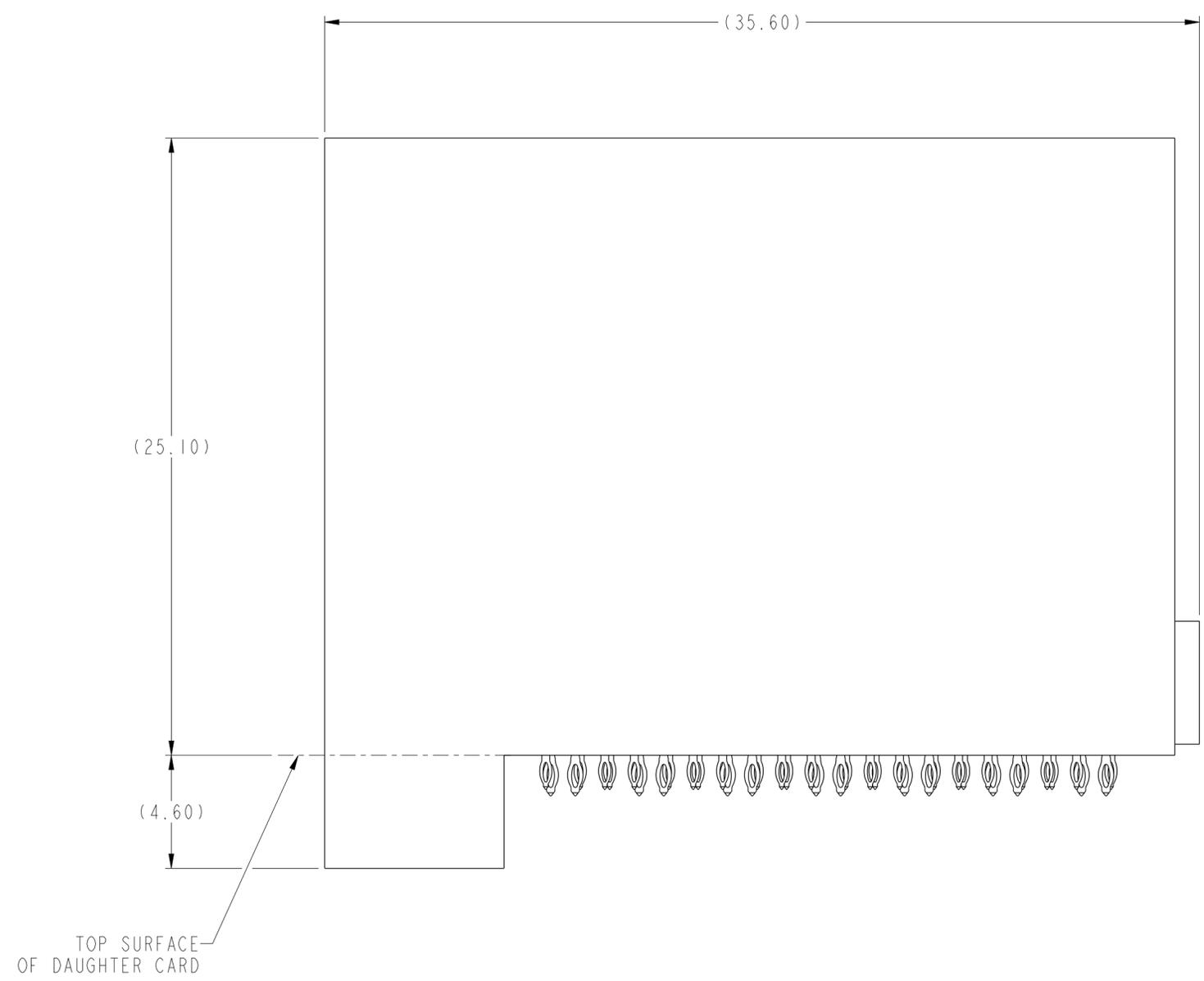
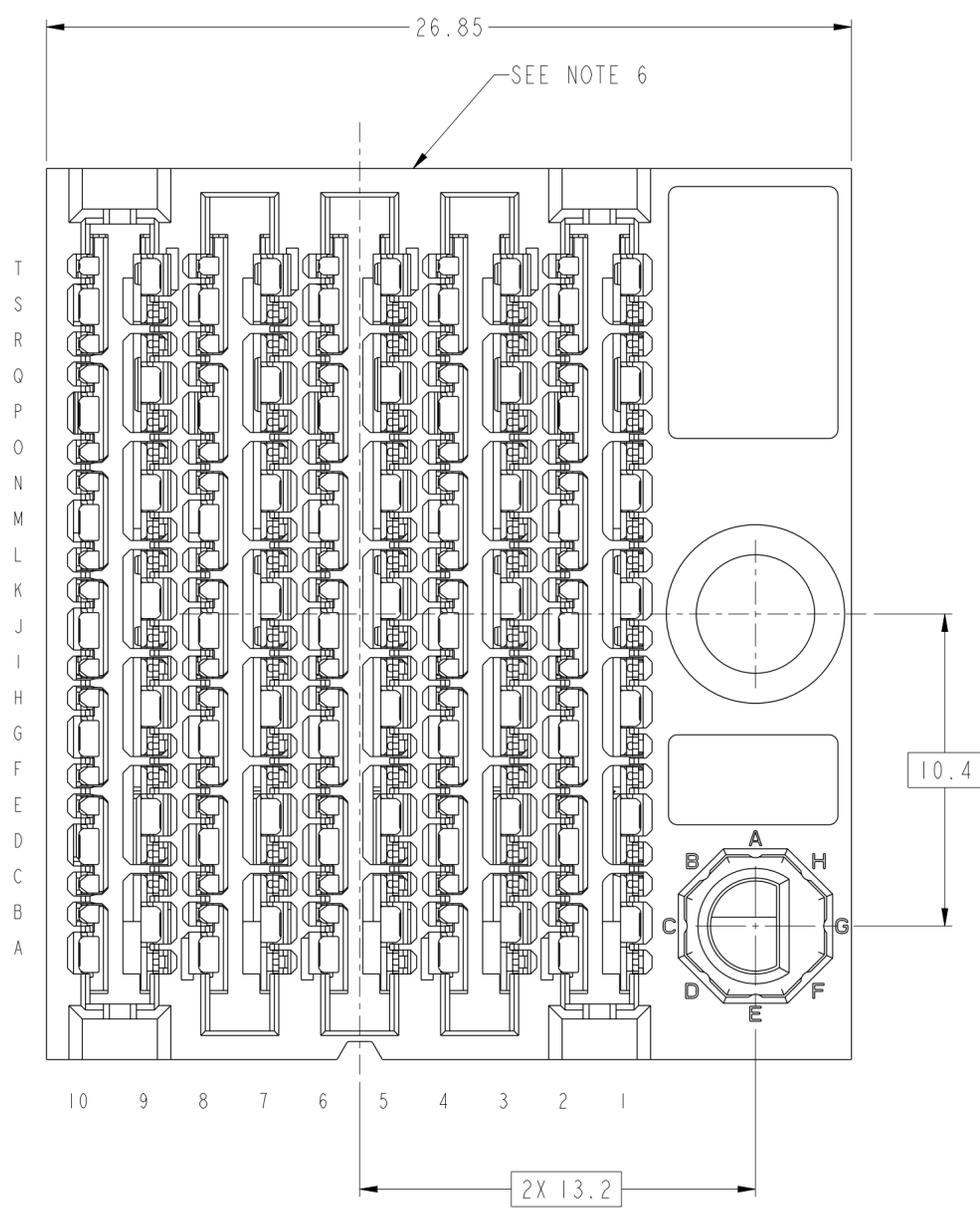
10131764-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
 SHORT DETECT POSITION IS T2
 FOR ALL DIMENSIONS SEE 10131764-101LF ON SHEET 1
 SCALE 7:1

spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	7:1					
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1							
ASME Y14.5M		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">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°	±°		title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 10 IMLA, 200 POS, 21mm	dwg no 10131764	rev B
linear	0.X		±.3												
	0.XX		±.10												
	0.XXX	±.050													
angular	0°	±°													
		cat. no.	SEE TABLE	Product - Customer Drw	sheet 4 of 11										



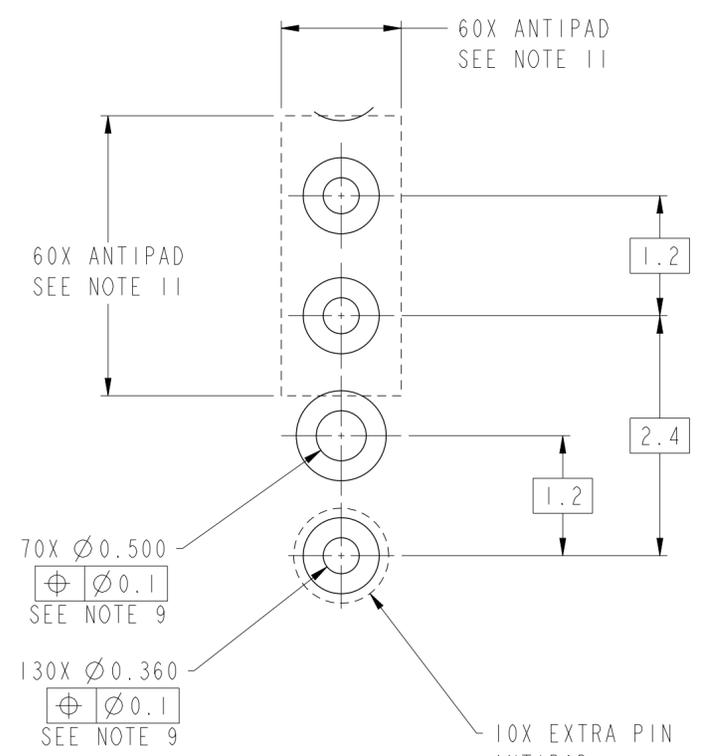
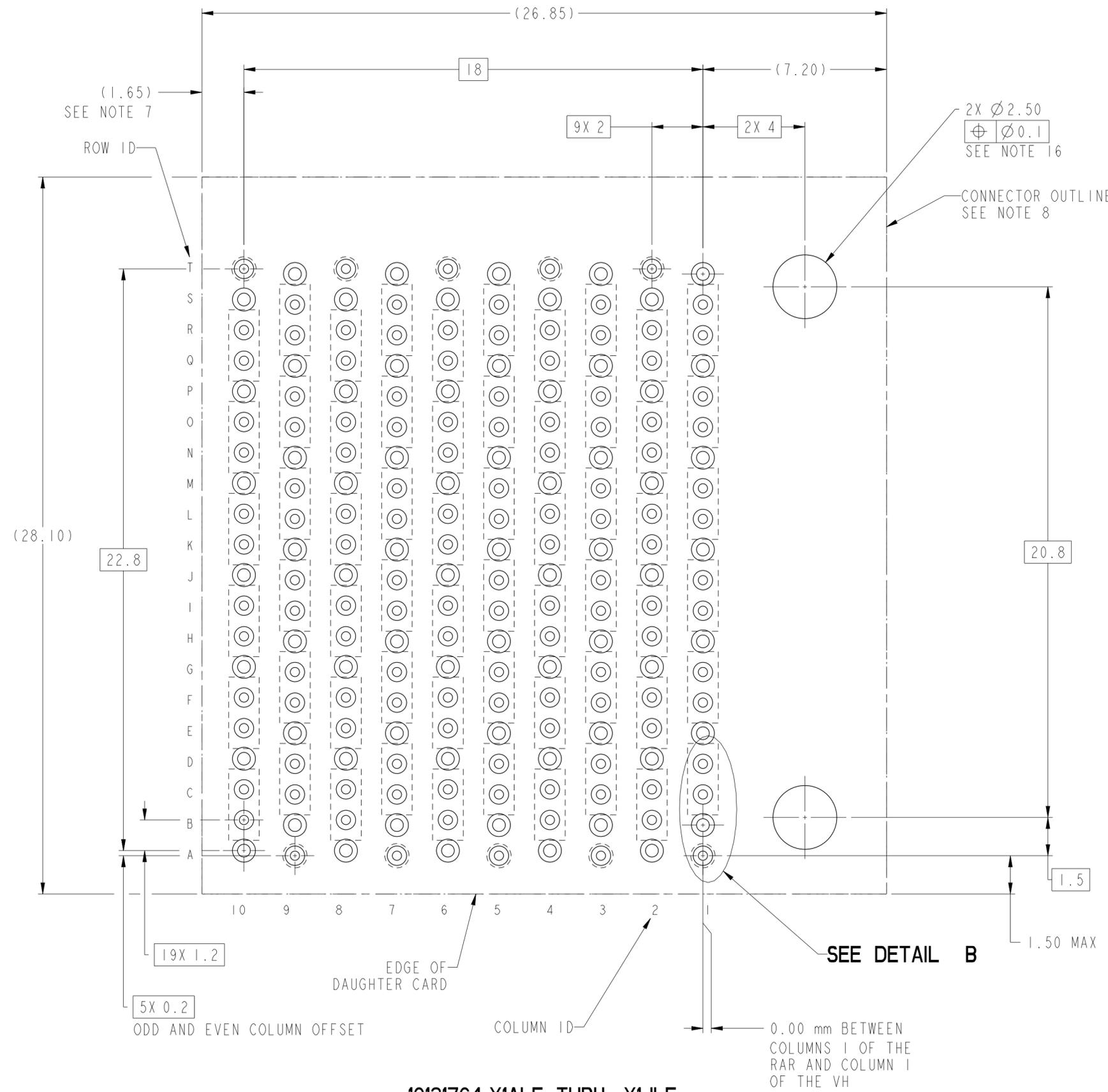
10131764-X01LF
 RECOMMENDED PCB LAYOUT
 COMPONENT SIDE
 NOTES 7, 8, 9, & 11
 SCALE 8:1

spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	8:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1			
ASME Y14.5M		chr	Justin Chen	2017/11/29				rel level	Released		
		appr	Heaven Cen	2017/11/30				product family			
surface	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no 10131764	rev B	
		0.XX	±.10		6 PR, 10 IMLA, 200 POS, 21mm		Product - Customer Drw				
	angular	0°	±°		cat. no.		sheet 5 of 11				



10131764-X1ALF THRU 10131764-X1JLF
 RIGHT GUIDANCE (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE 10131764-101LF ON SHEET 1
 SCALE 6:1

spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	6:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1	rel level	Released									
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX											
		appr	Heaven Cen	2017/11/30			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°	±°			title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 10 IMLA, 200 POS, 21mm		dwg no 10131764	rev B
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±°																	
		cat. no.		SEE TABLE	Product - Customer Drw		sheet 6 of 11												



**10131764-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1**

spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	1:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1	rel level	Released	
ASME Y14.5M		chr	Justin Chen	2017/11/29							
		appr	Heaven Cen	2017/11/30							
surface	linear	0.X	±.3		product family		title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 10 IMLA, 200 POS, 21mm	dwg no 10131764	rev B		
		0.XX	±.10		cat. no.					Product - Customer Drw	sheet 7 of 11
	angular	0°	±°		PDS: Rev :B						

1 2 3 4 5 6 7 8

A

B

C

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A

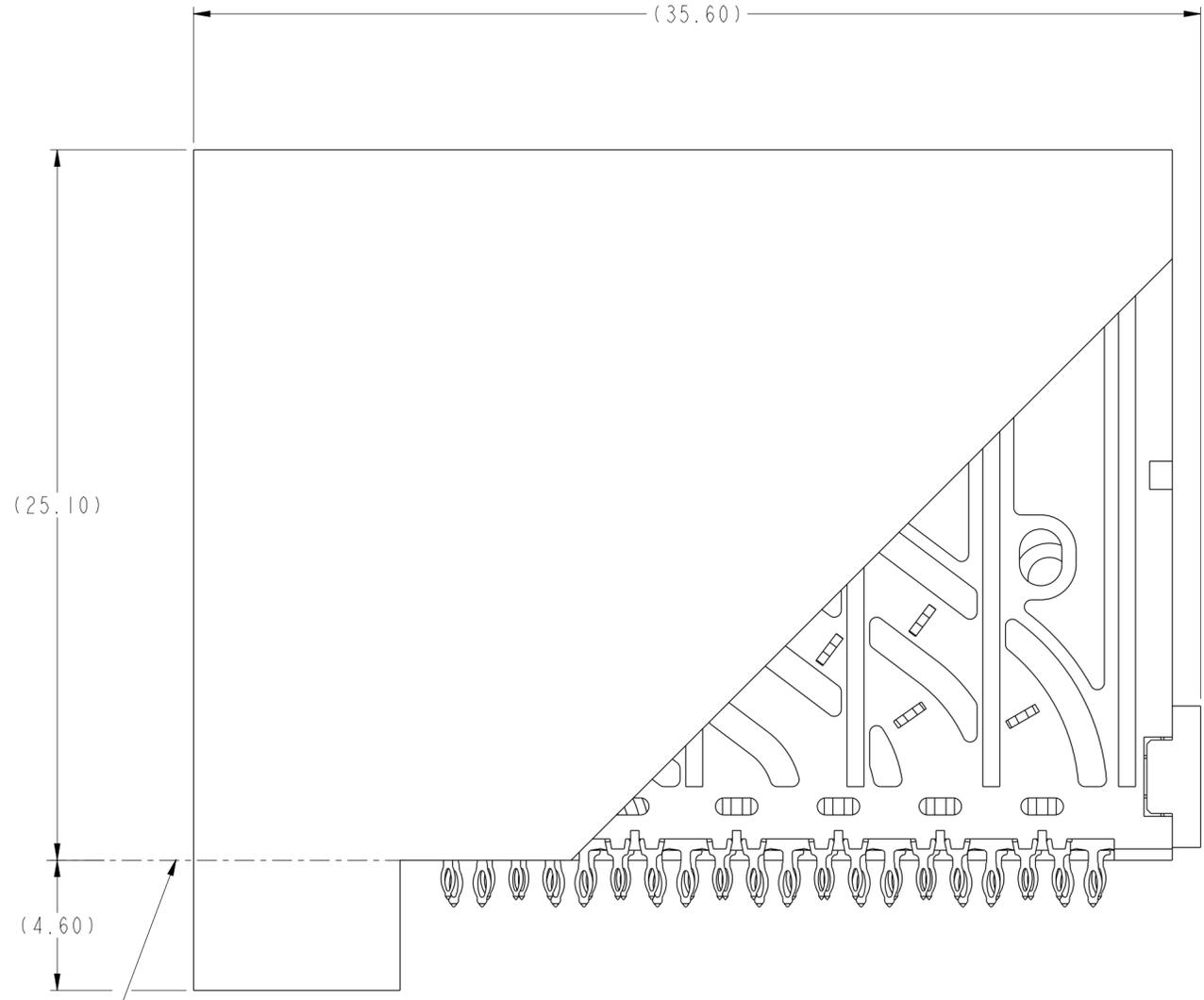
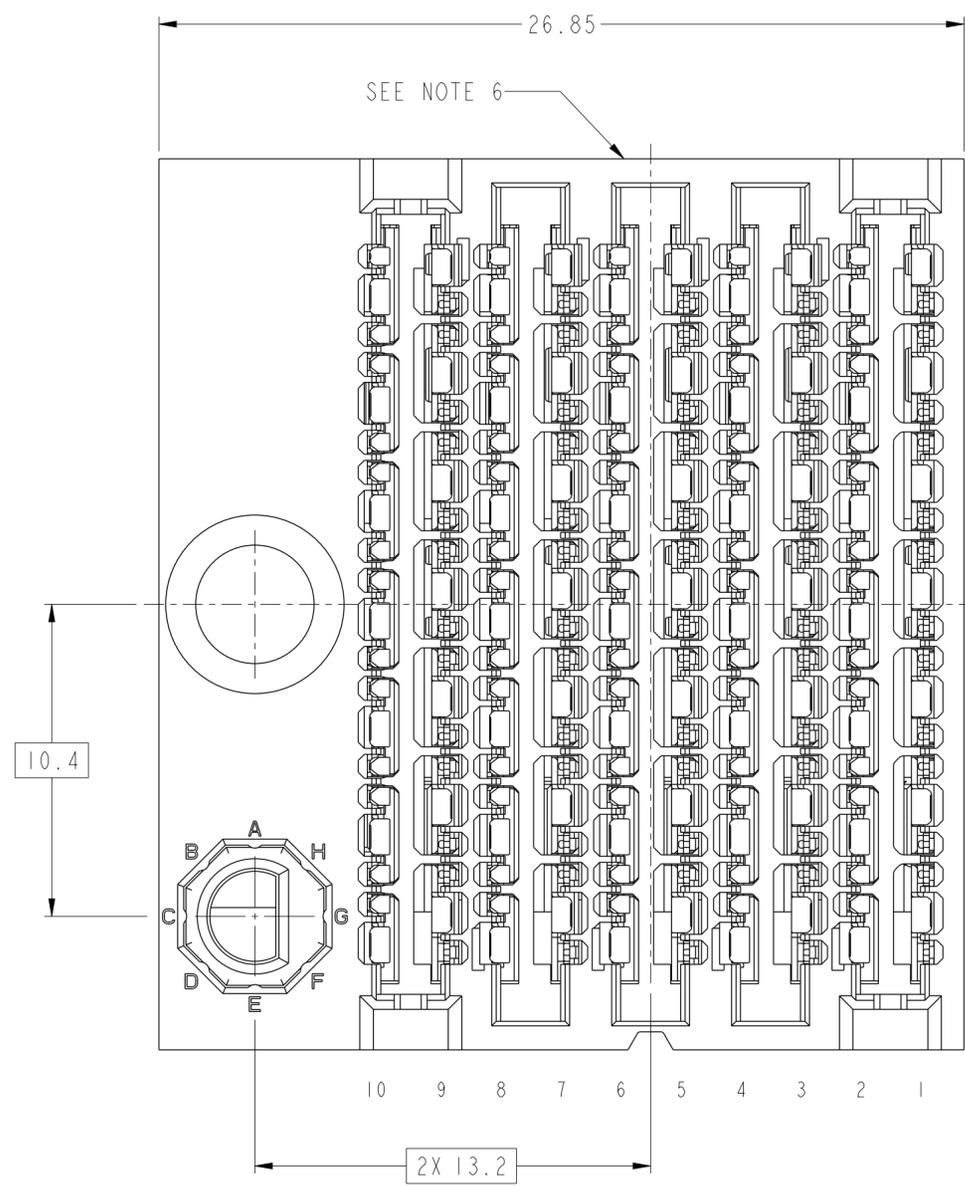
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TOP SURFACE OF DAUGHTER CARD

10131764-X2ALF THRU 10131764-X2JLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10131764-101LF ON SHEET 1
SCALE 6:1

spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	6:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1													
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released													
		appr	Heaven Cen	2017/11/30			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 ASSY 6 PR, 10 IMLA, 200 POS, 21mm		dwg no 10131764	rev B		
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±°																			
		cat. no.	SEE TABLE		Product - Customer Drw		sheet 8 of 11														

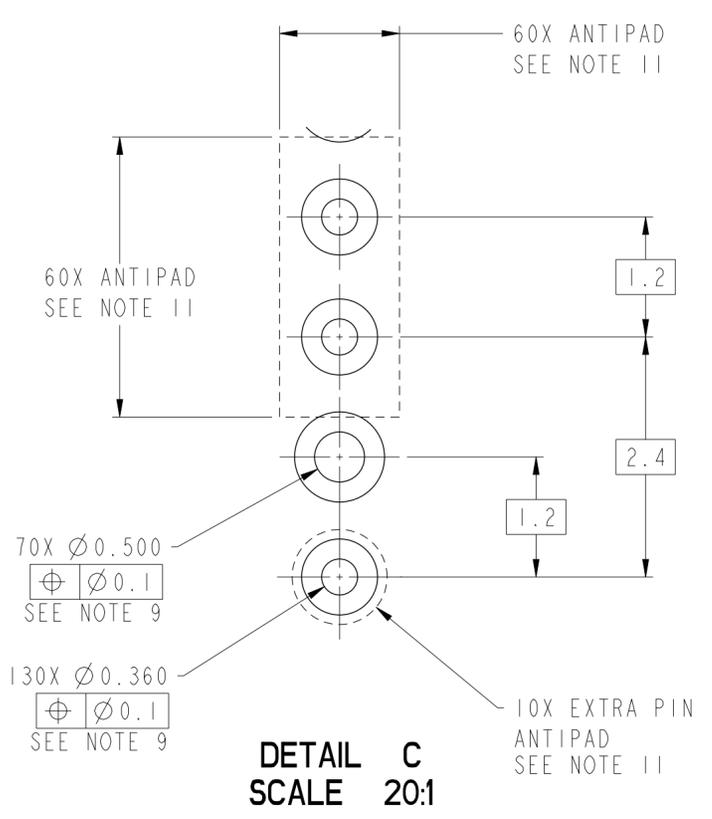
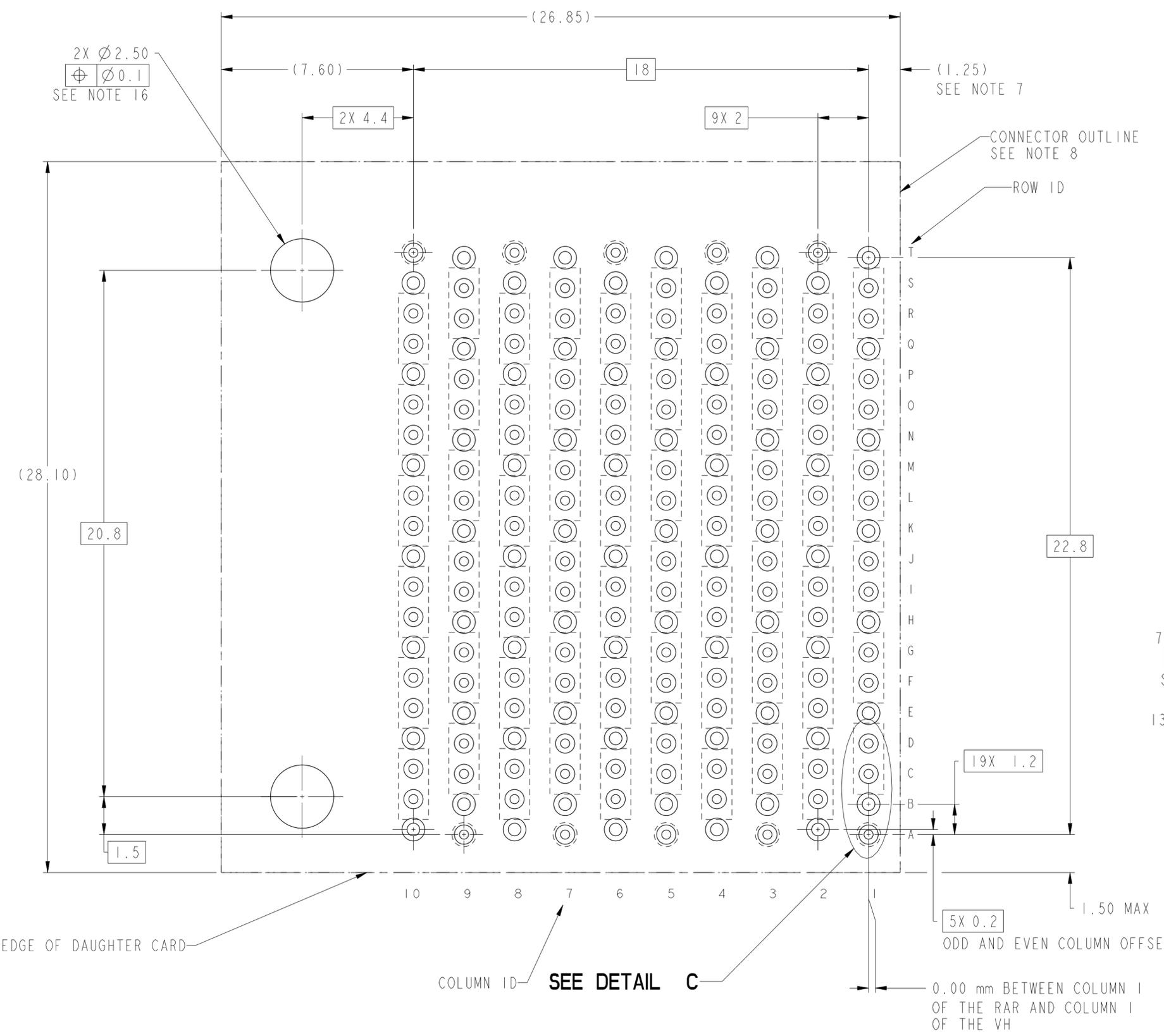
PDS: Rev :B

STATUS:Released

Printed: Dec 11, 2017

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10131764-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1

spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	8:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	linear	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 10 IMLA, 200 POS, 21mm	dwg no 10131764	rev B	Product - Customer Drw		
	0.XX	±.10	sheet 9 of 11							
	0.XXX	±.050								
	angular	0°	±°							

10131764 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10131764-1YYLF	STANDARD MATE
10131764-2YYLF	ADVANCED MATE
10131764-3YYLF	SHORT DETECT
10131764-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODEL
	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)		

Amphenol FCI

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spec ref	SEE NOTES	dr	Will Liu	2014/12/16	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24		←→	ecn no	ELX-DG-28235-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE ASSY	cat. no.	-	Product - Customer Drw	sheet 10 of 11
✓		0.XX	±.10							
	angular	0°	±°							

PDS: Rev :B

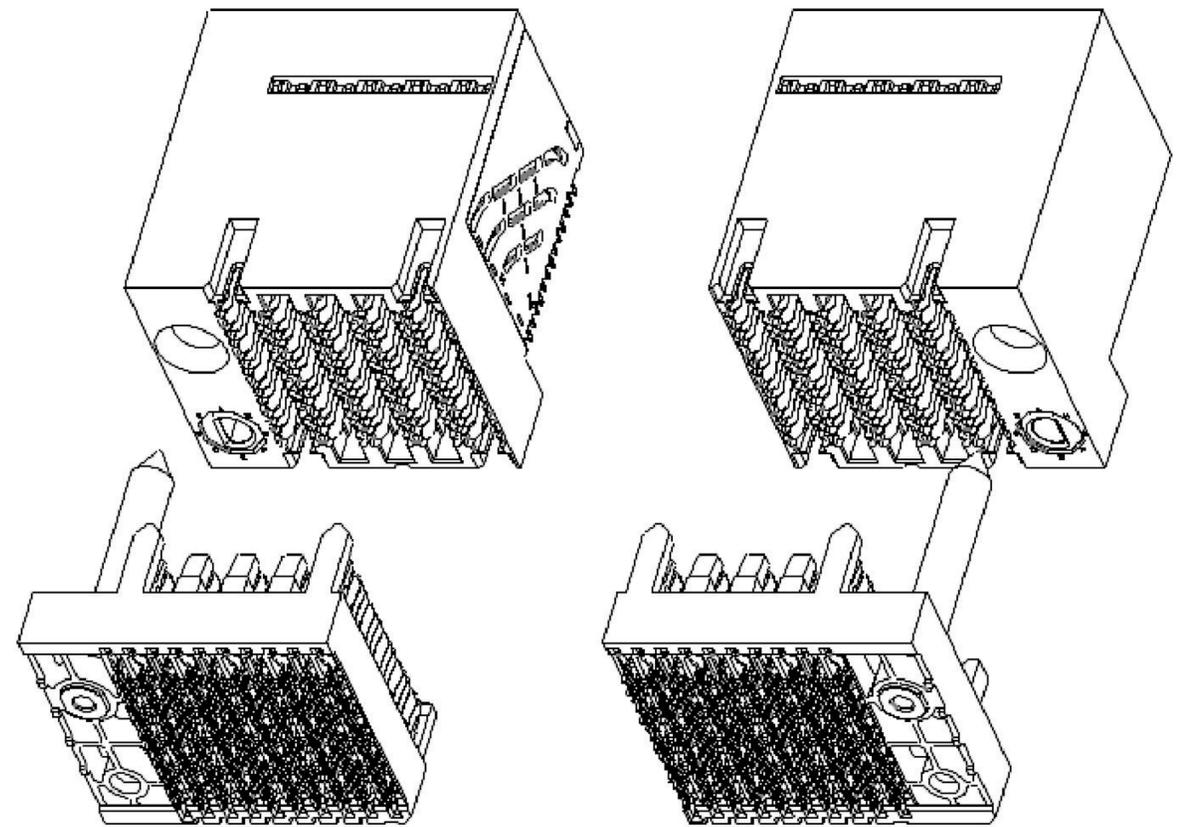
STATUS:Released

Printed: Dec 11, 2017

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 IS 3.0 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, 10131764-2XXLF, 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, 10131764-3XXLF, 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, 10131764-4XXLF, 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 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 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	Will Liu	2014/12/16	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/24			ecn no	ELX-DG-28235-1	rel level	Released												
ASME Y14.5M		chr	Justin Chen	2017/11/29							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	2017/11/30	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10131764	rev	B
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
					cat. no.	SEE TABLE	Product - Customer Drw	sheet	11 of 11													