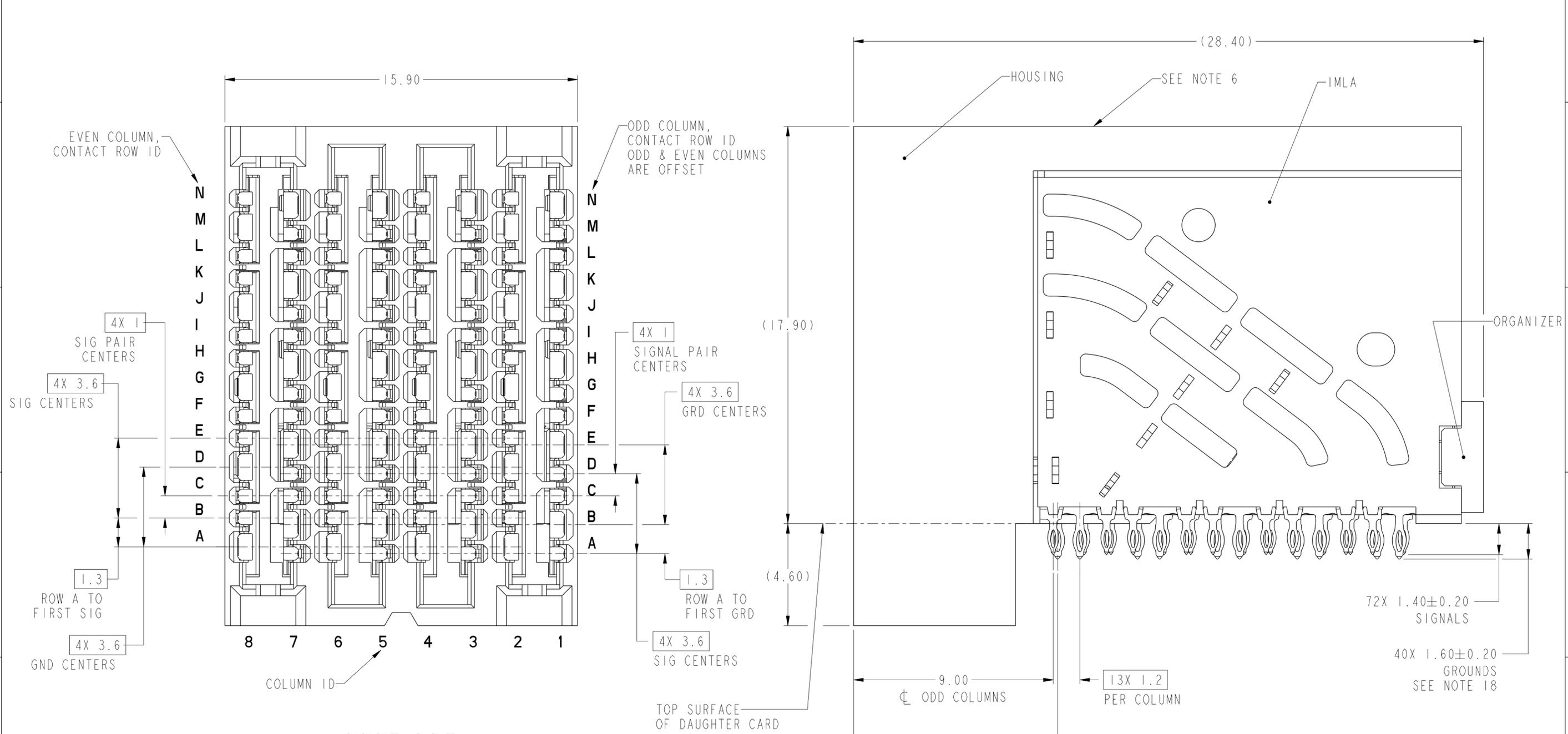


PRODUCT NUMBER
SEE TABLE



10121056-101LF
STANDARD MATE RECEPTACLE
SCALE 8:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	8:1													
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1	rel level	Released													
ASME Y14.5M		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°	±°	appr	Heaven Cen	2017/11/30	Amphenol FCI	title	ExaMAX R.A. RECEPT. ASSY	dwg no	10121056	rev	B
linear	0.X	±.3																					
	0.XX	±.10																					
	0.XXX	±.050																					
angular	0°	±°																					
						4 PR, 112 POS, 8 IMLA, 16MM	cat. no.	SEE TABLE	Product - Customer Drw	sheet 1 of 11													

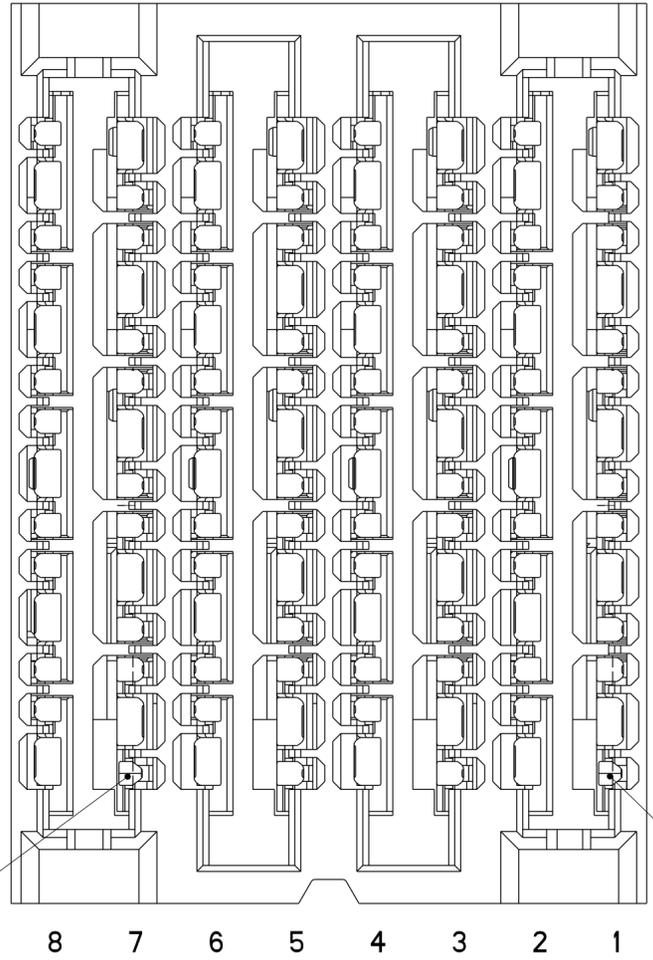
PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

Amphenol FCI

© 2016 APCI



ADVANCED MATE POSITION A7 SEE NOTE 13

ADVANCED MATE POSITION A1 SEE NOTE 13

10121056-201LF
 ADVANCED MATE RECEPTACLE
 ADVANCED MATE POSITIONS ARE A1 & A7 ONLY
 FOR ALL DIMENSIONS SEE 10121056-101LF ON SHEET 1
 SCALE 8:1

Amphenol FCI

© 2016 AFCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	8:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1												
ASME Y14.5M		chr	Justin Chen	2017/11/29			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	Heaven Cen	2017/11/30	product family	-	cat. no.	-	Product - Customer Drw	sheet 2 of 11
linear	0.X		±.3																	
	0.XX		±.10																	
	0.XXX	±.050																		
angular	0°	±°																		
				title ExaMAX R.A. RECEPT. ASSY 4 PR, 112 POS, 8 IMLA, 16MM		dwg no 10121056	rev B													

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

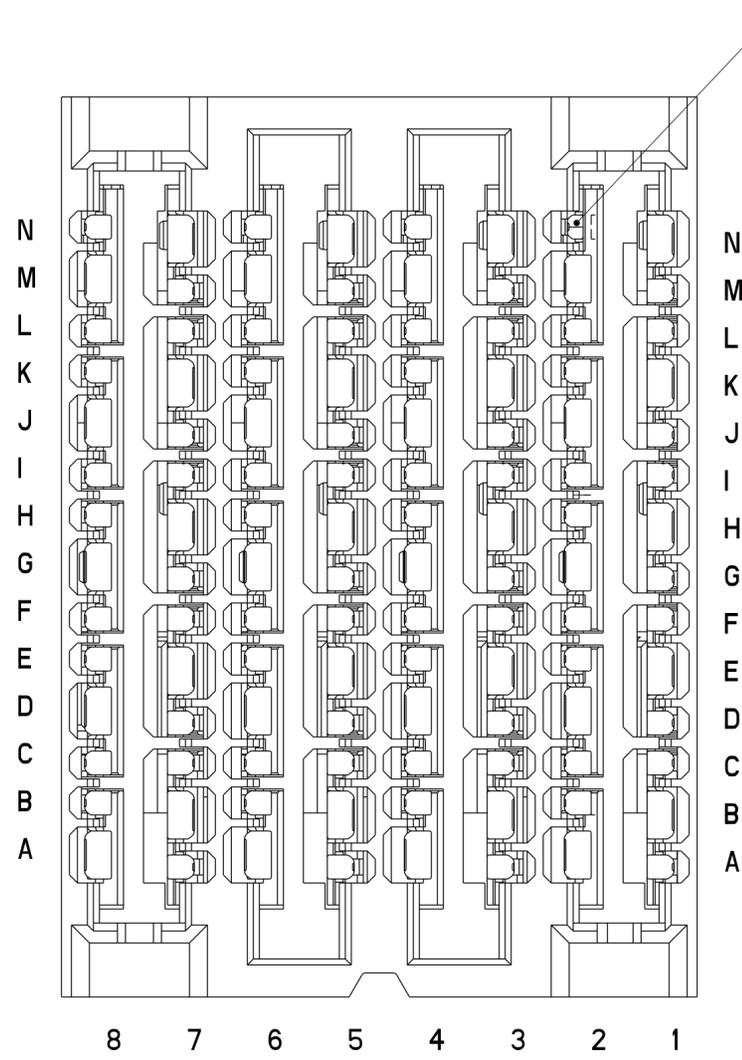
B

C

D

E

F



SHORT DETECT
POSITION N2
SEE NOTE 14

10121056-301LF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS N2
FOR ALL DIMENSIONS SEE 10121056-101LF ON SHEET 1
SCALE 8:1

Amphenol
FCi

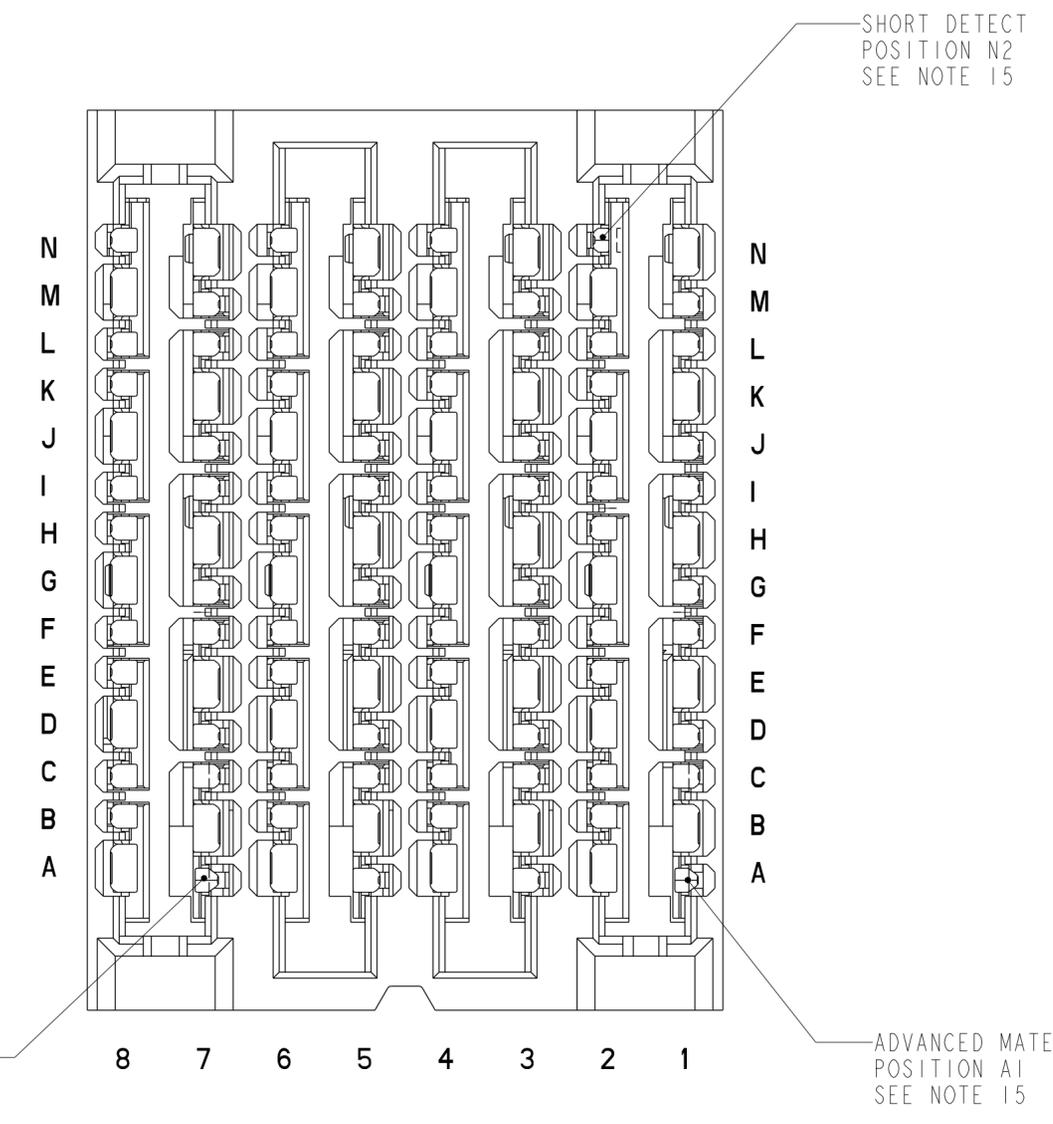
© 2016 APCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	8:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-2821-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			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	Heaven Cen	2017/11/30	product family	-	cat. no.	Product - Customer Drw		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX R.A. RECEPT. ASSY 4 PR, 112 POS, 8 IMLA, 16MM		dwg no 10121056	rev B	sheet 3 of 11														

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017



10121056-401LF
 ADVANCED MATE/SHORT DETECT RECEPTACLE
 ADVANCED MATE POSITIONS ARE A1 & A7 ONLY
 SHORT DETECT POSITION IS N2
 FOR ALL DIMENSIONS SEE 10121056-101LF ON SHEET 1
 SCALE 8:1

Amphenol
FCi

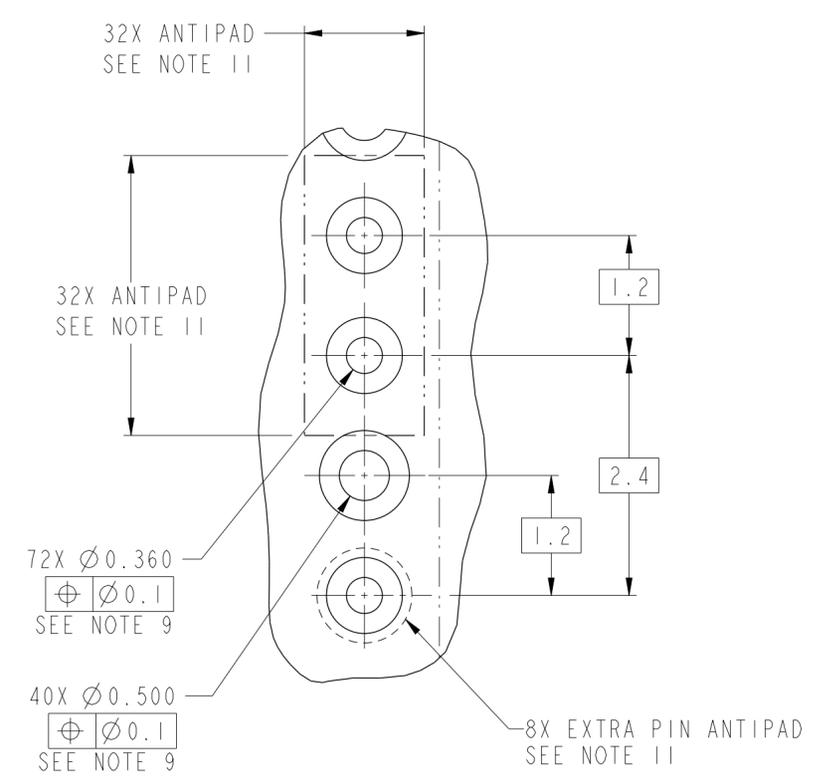
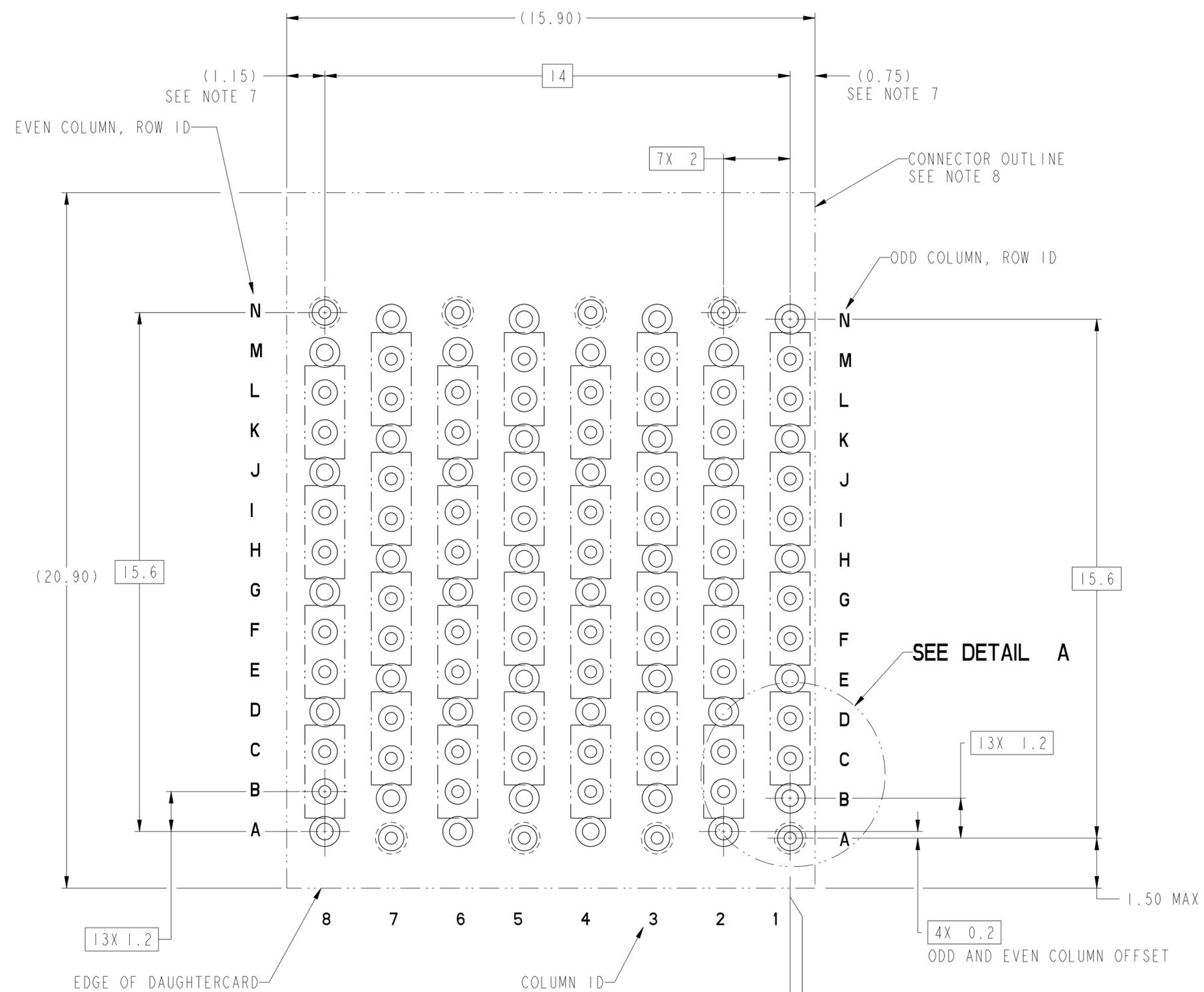
© 2016 AFci

spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	8:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			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	Heaven Cen	2017/11/30	product family	-	cat. no.	Product - Customer Drw		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX R.A. RECEPT. ASSY 4 PR, 112 POS, 8 IMLA, 16MM		dwg no 10121056	rev B	sheet 4 of 11														

PDS: Rev :B

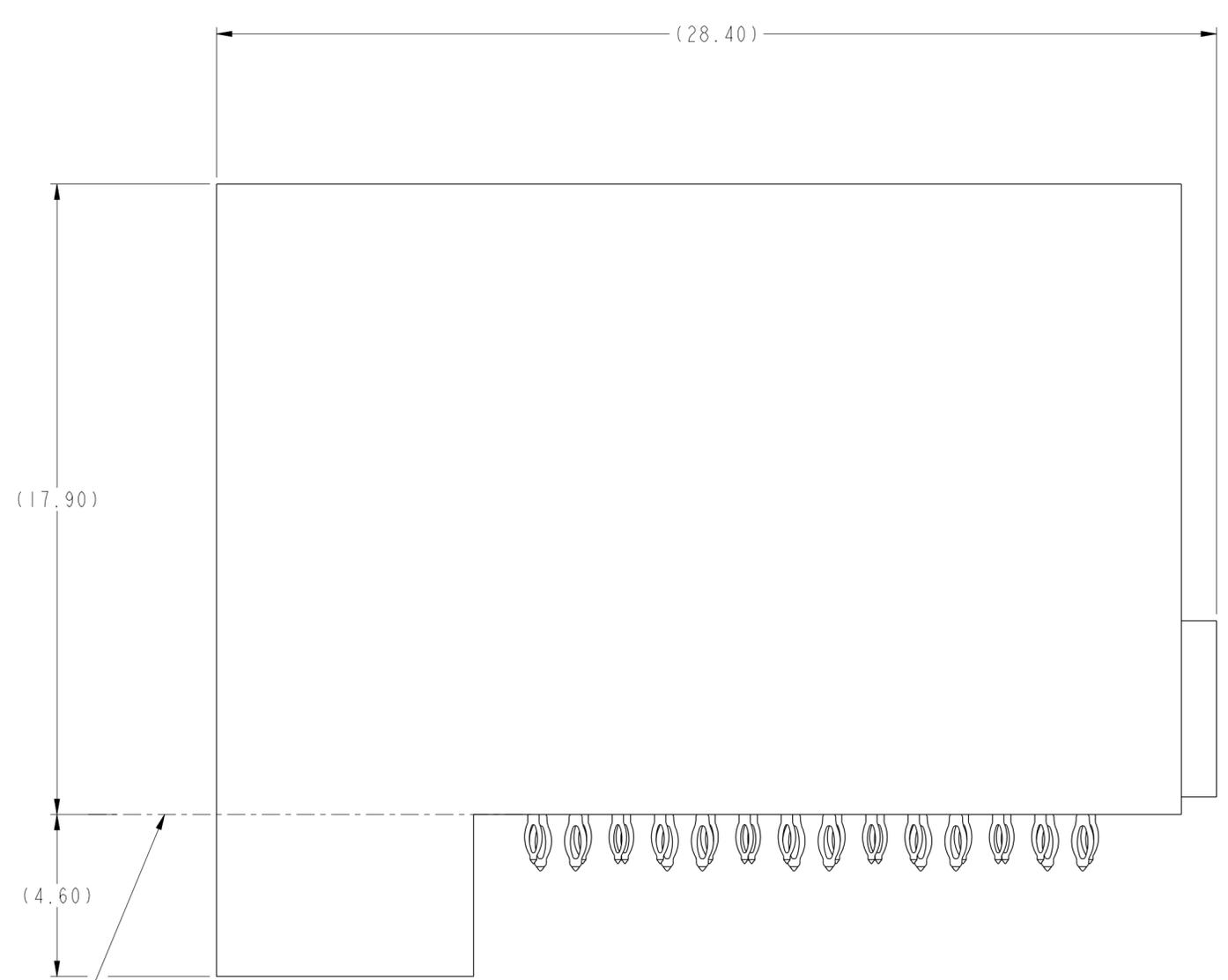
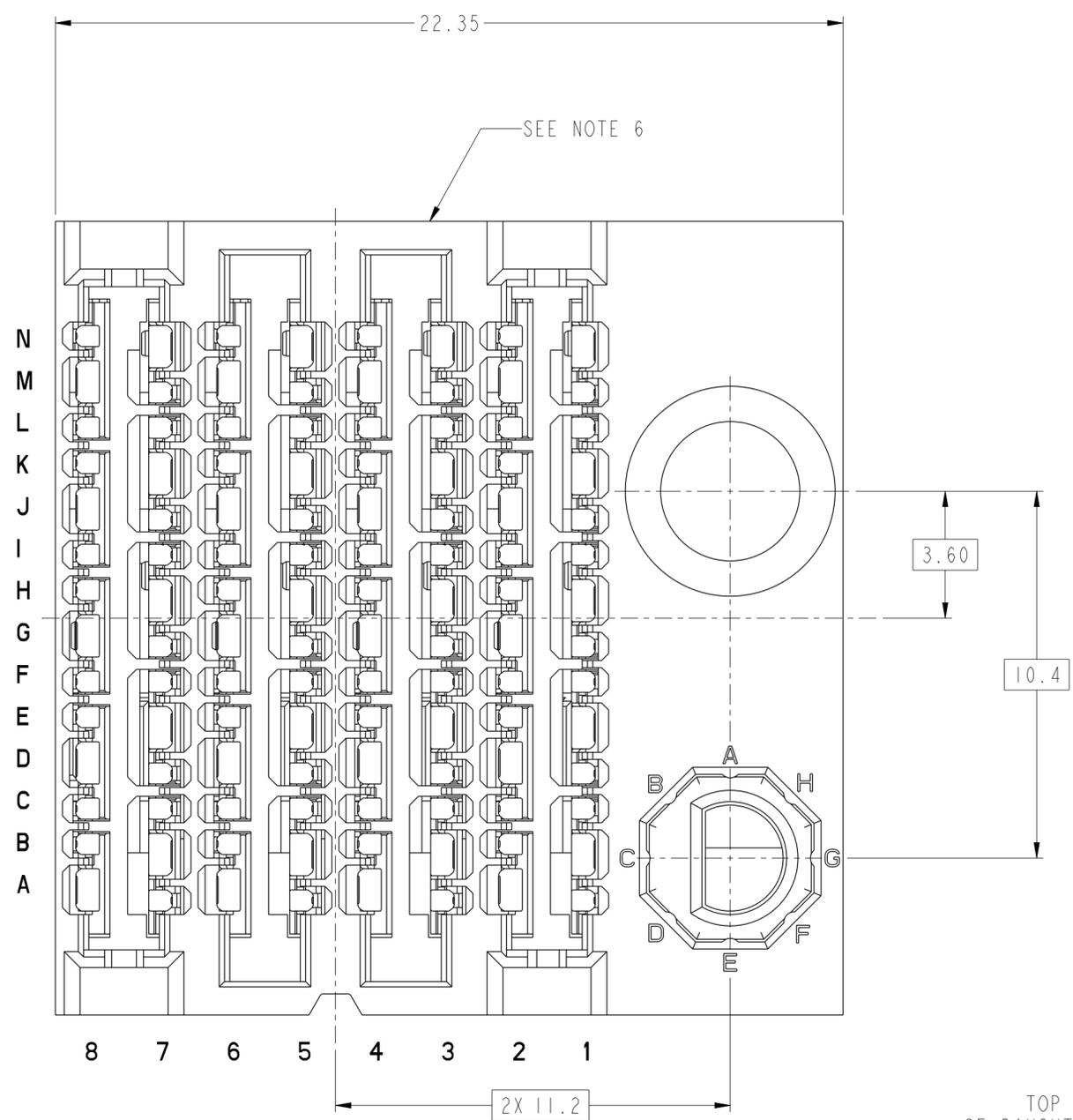
STATUS:Released

Printed: Dec 02, 2017



10121056-X01LF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 10:1

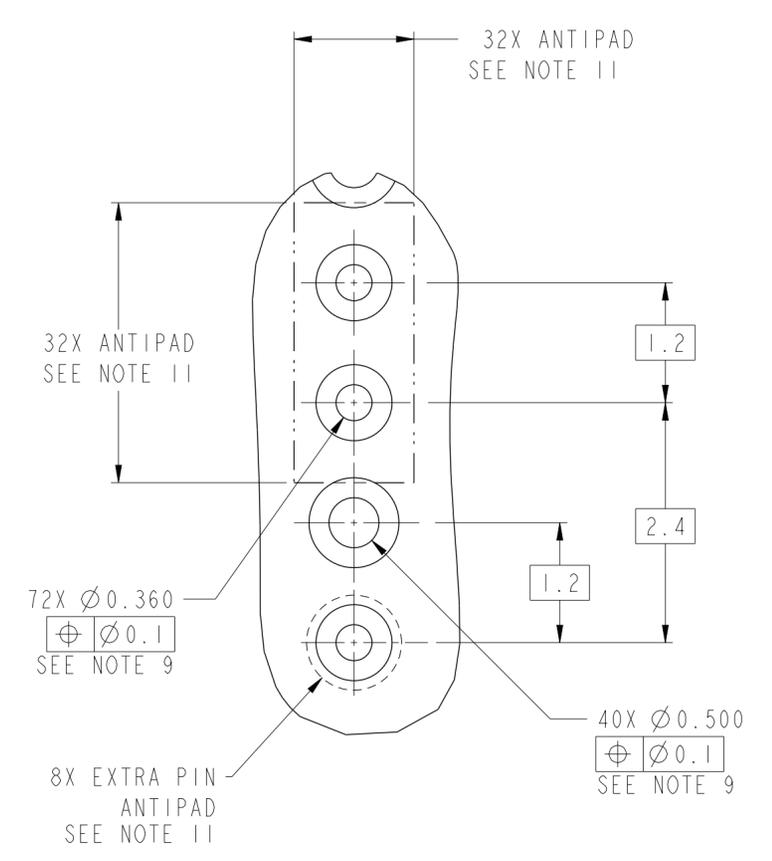
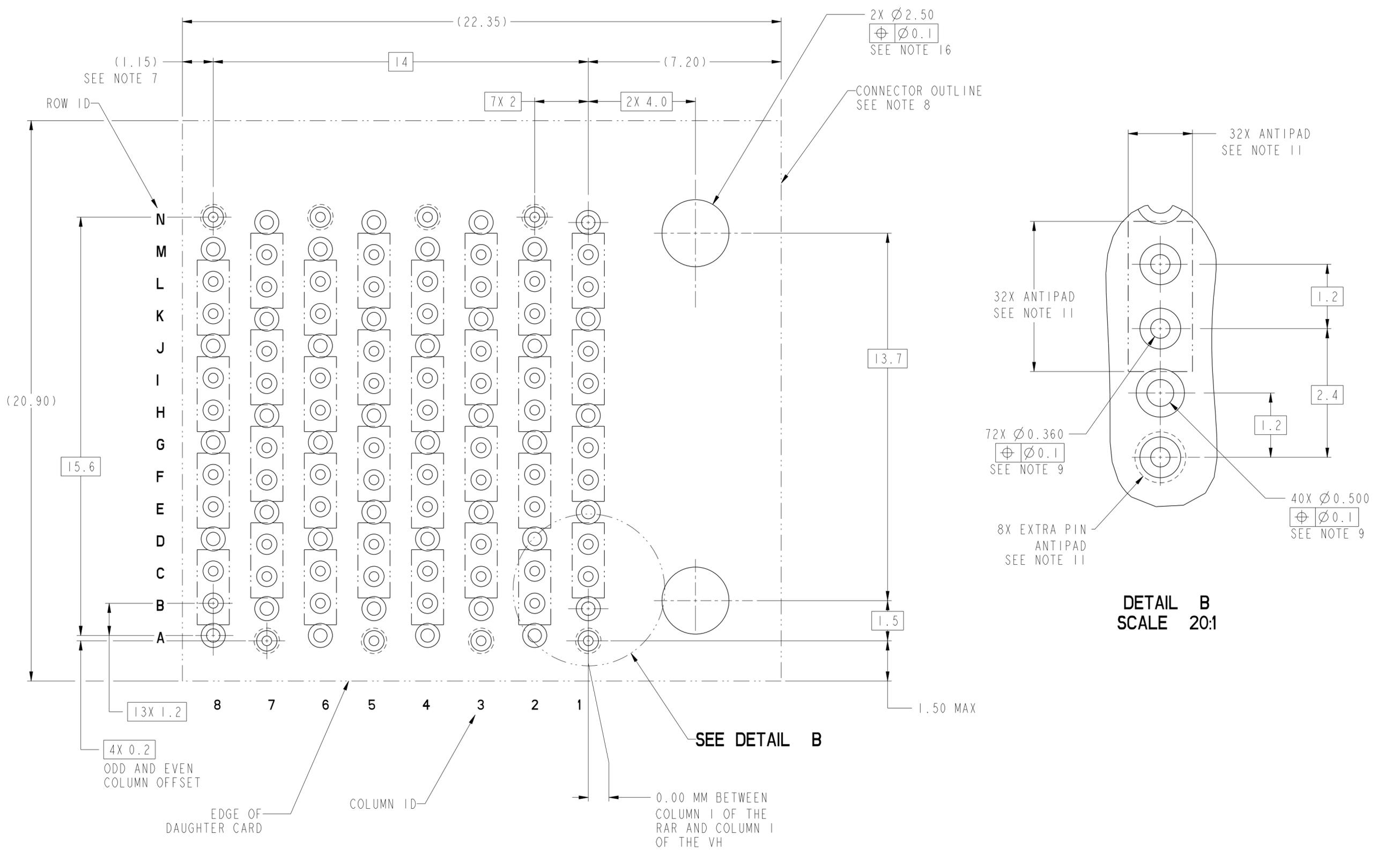
spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	10:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1				
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released				
		appr	Heaven Cen	2017/11/30			product family	ExaMax				
surface	linear	0.X	±.3		title ExaMAX R.A. RECEPT. ASSY 4 PR, 112 POS, 8 IMLA, 16MM	dwg no 10121056	rev B					
		0.XX	±.10					cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 11	
	angular	0°	±°									



TOP SURFACE
OF DAUGHTER CARD

10121056-X1ALF THRU -X1JLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10121056-101LF ON SHEET 1
SCALE 8:1

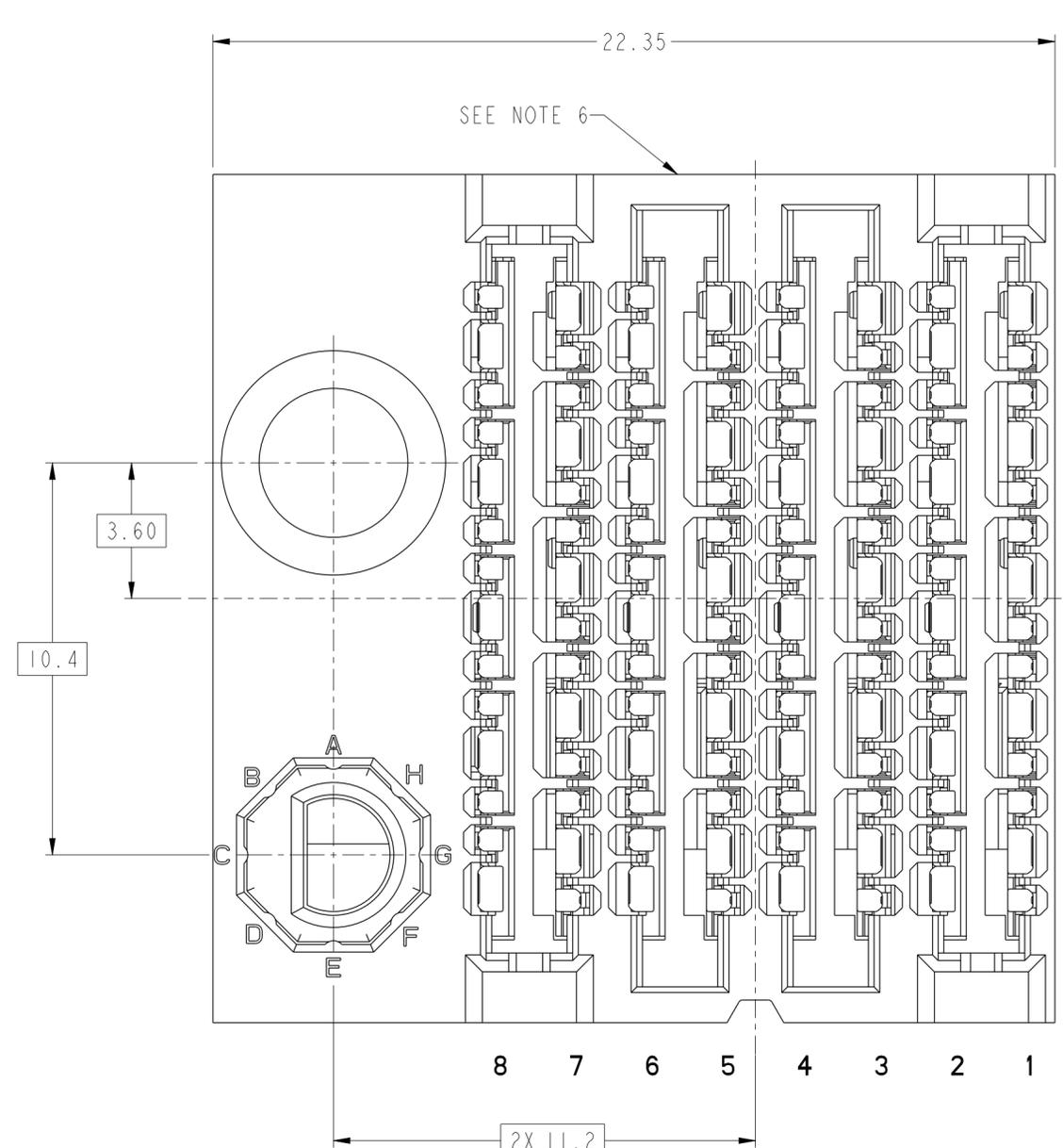
spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	8:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1													
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released													
		appr	Heaven Cen	2017/11/30			product family														
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. RECEPT. ASSY 4 PR, 112 POS, 8 IMLA, 16MM			dwg no	10121056		
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±°																			
			cat. no.	-			Product - Customer Drw	sheet 6 of 11													



DETAIL B
SCALE 20:1

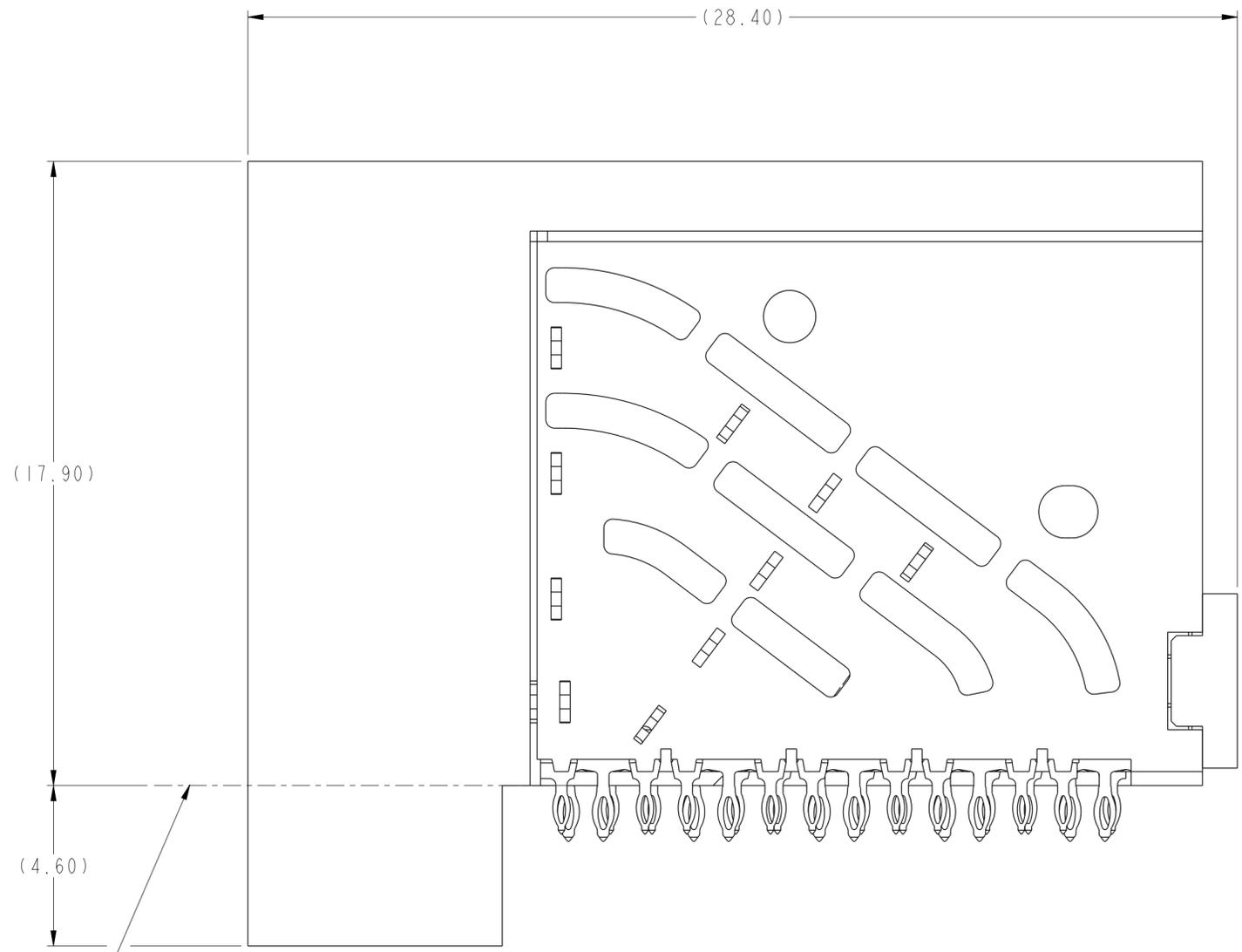
10121056-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	10:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1	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		product family	-	rel level	Released	rev
		0.XX	±.10	Title		ExaMAX R.A. RECEPT. ASSY	dwg no	10121056	sheet 7 of 11	B
		0.XXX	±.050	4 PR, 112 POS, 8 IMLA, 16MM		cat. no.	-	Product - Customer Drw		
	angular	0°	±°	PDS: Rev :B				STATUS:Released		Printed: Dec 02, 2017

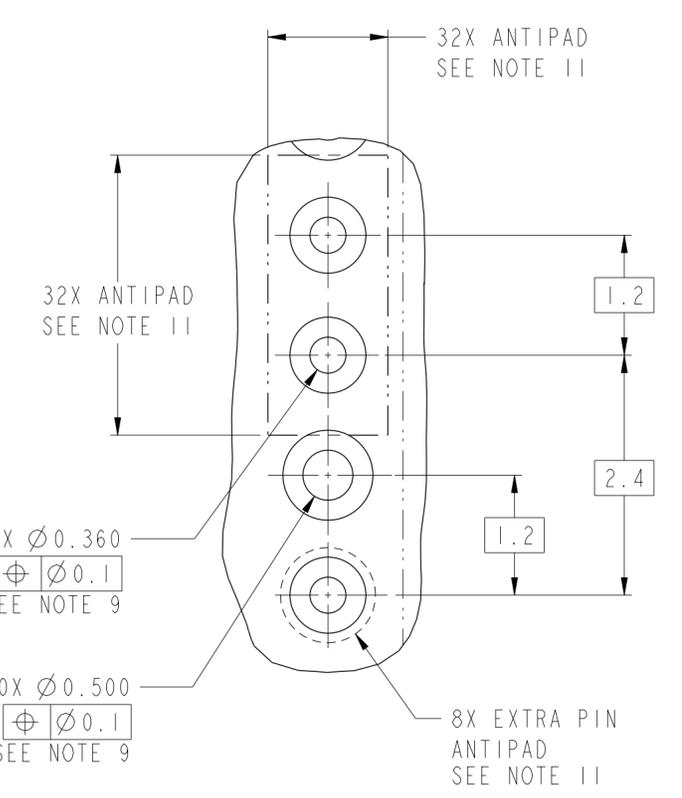
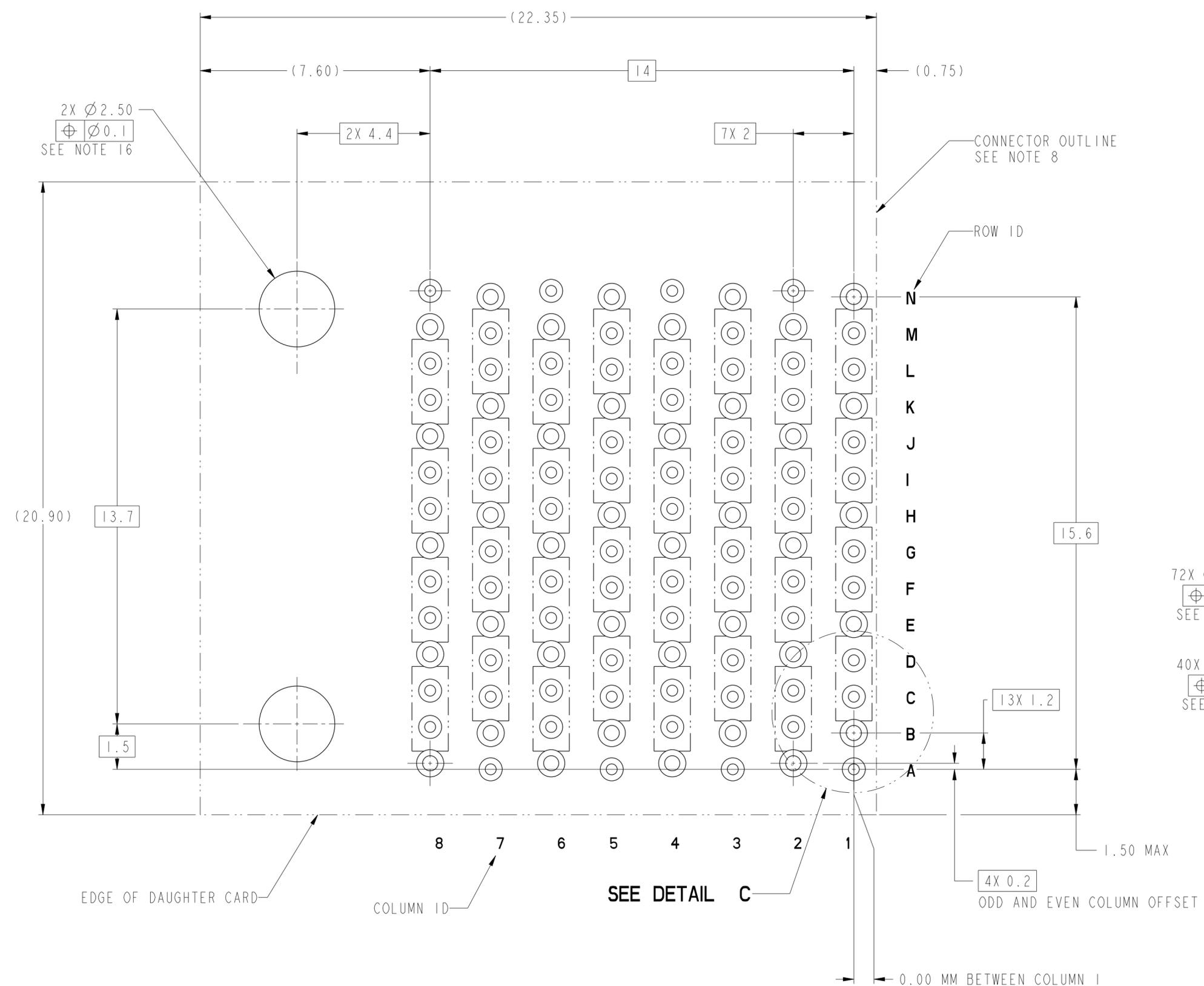


TOP SURFACE
OF DAUGHTER CARD

10121056-X2ALF THRU -X2JLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10121056-101LF ON SHEET 1
SCALE 8:1



spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	8:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29				rel level	Released													
		appr	Heaven Cen	2017/11/30				product family														
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. RECEPT. ASSY 4 PR, 112 POS, 8 IMLA, 16MM			dwg no	10121056		rev	B
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		cat. no.	-			Product - Customer Drw	sheet 8 of 11															



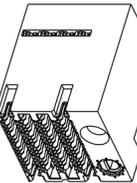
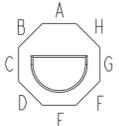
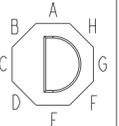
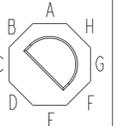
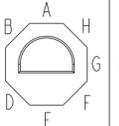
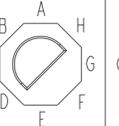
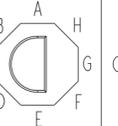
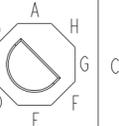
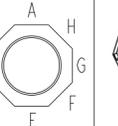
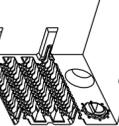
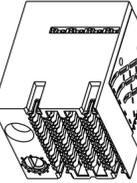
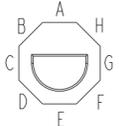
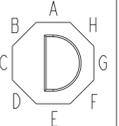
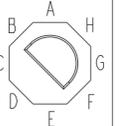
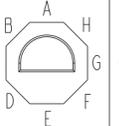
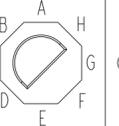
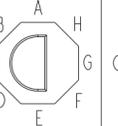
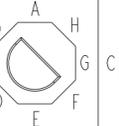
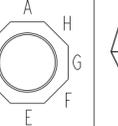
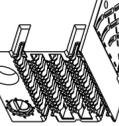
DETAIL C
SCALE 20:1

10121056-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	10:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1	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. RECEPT. ASSY 4 PR, 112 POS, 8 IMLA, 16MM	dwg no 10121056	rev B	
		0.XX	±.10		-					
		0.XXX	±.050		-					
	angular	0°	±°	cat. no.	-		Product - Customer Drw		sheet 9 of 11	

10121056 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10121056-1YYLF	STANDARD MATE
10121056-2YYLF	ADVANCED MATE
10121056-3YYLF	SHORT DETECT
10121056-4YYLF	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)		
											

Amphenol FCI

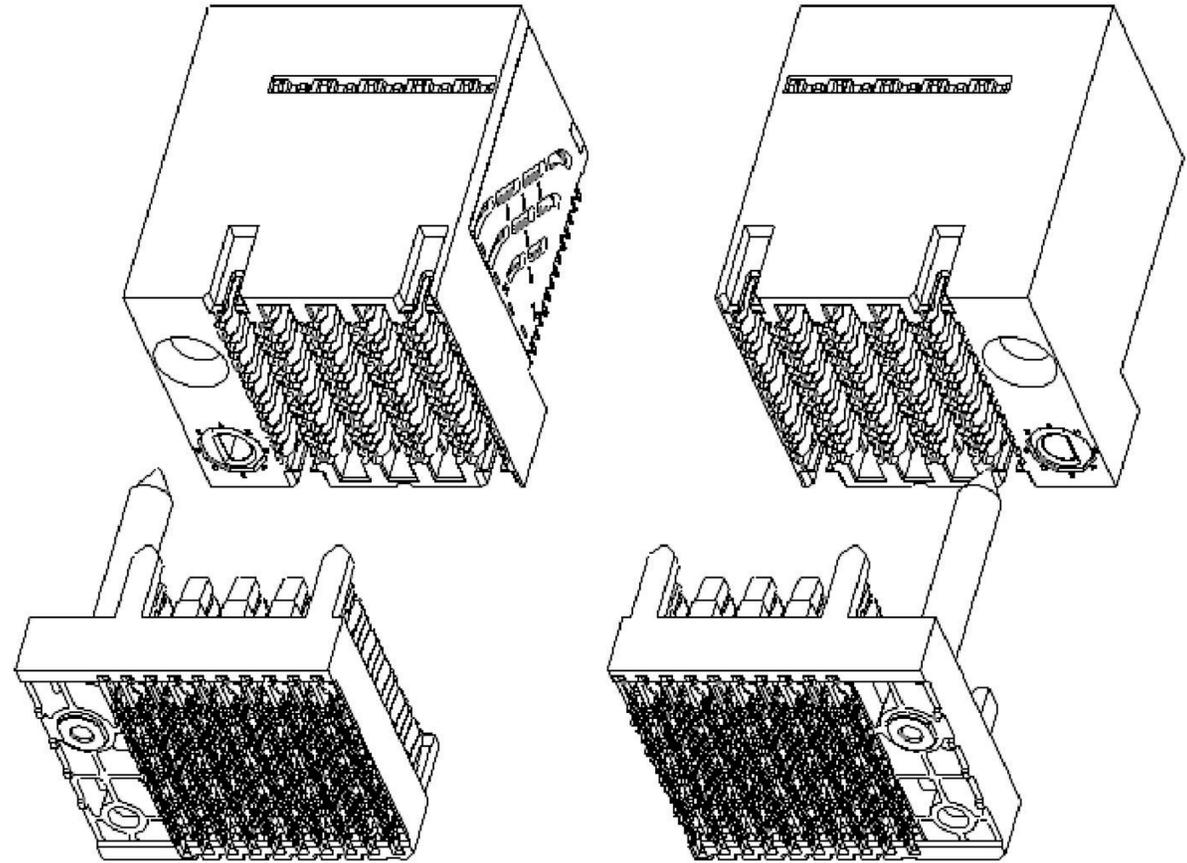
spec ref	SEE NOTES	dr	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08		← →	ecn no	ELX-DG-2821-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPT. ASSY	drg no	10121056	rev	B
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°	cat. no.	SEE TABLE	Product - Customer Drw	sheet	10 of 11		

© 2016 AFCI

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, 10121056-2XXLF, 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, 10121056-3XXLF, 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 ADVANCED MATE/SHORT DETECT RECEPTACLE, 10121056-4XXLF, 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 ARE COMMONED WITHIN A COLUMN.



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	Stu Stoner	2012/05/15	projection	MM	size	A2	scale	2:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28221-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			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	Heaven Cen	2017/11/30	product family	ExaMax		rel level	Released	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title	ExaMAX R.A. RECEPT. ASSY			dwg no	10121056													
					4 PR, 112 POS, 8 IMLA, 16MM			rev	B													
				cat. no.	SEE TABLE	Product - Customer Drw		sheet 11 of 11														