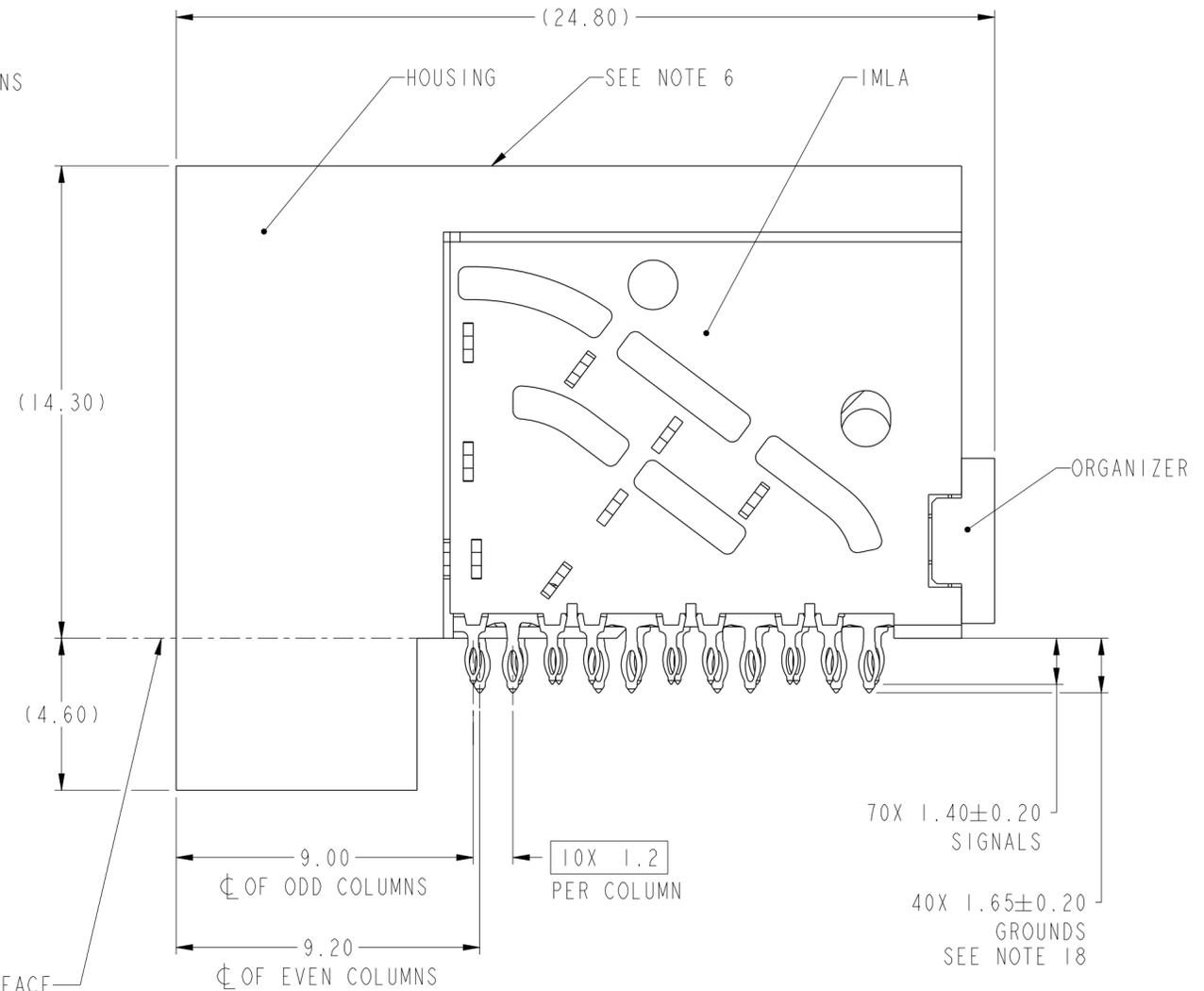
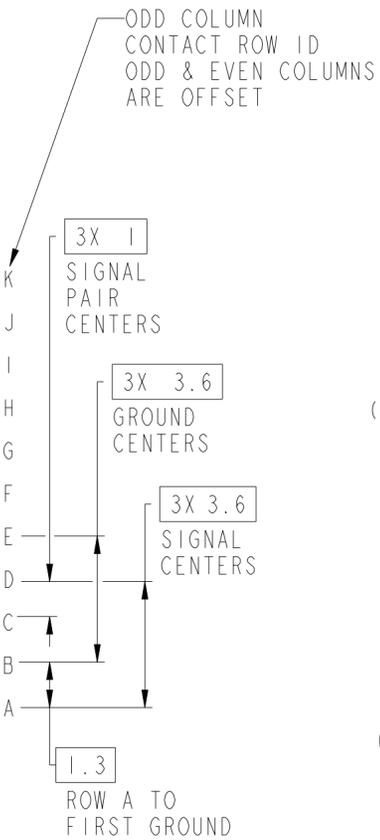
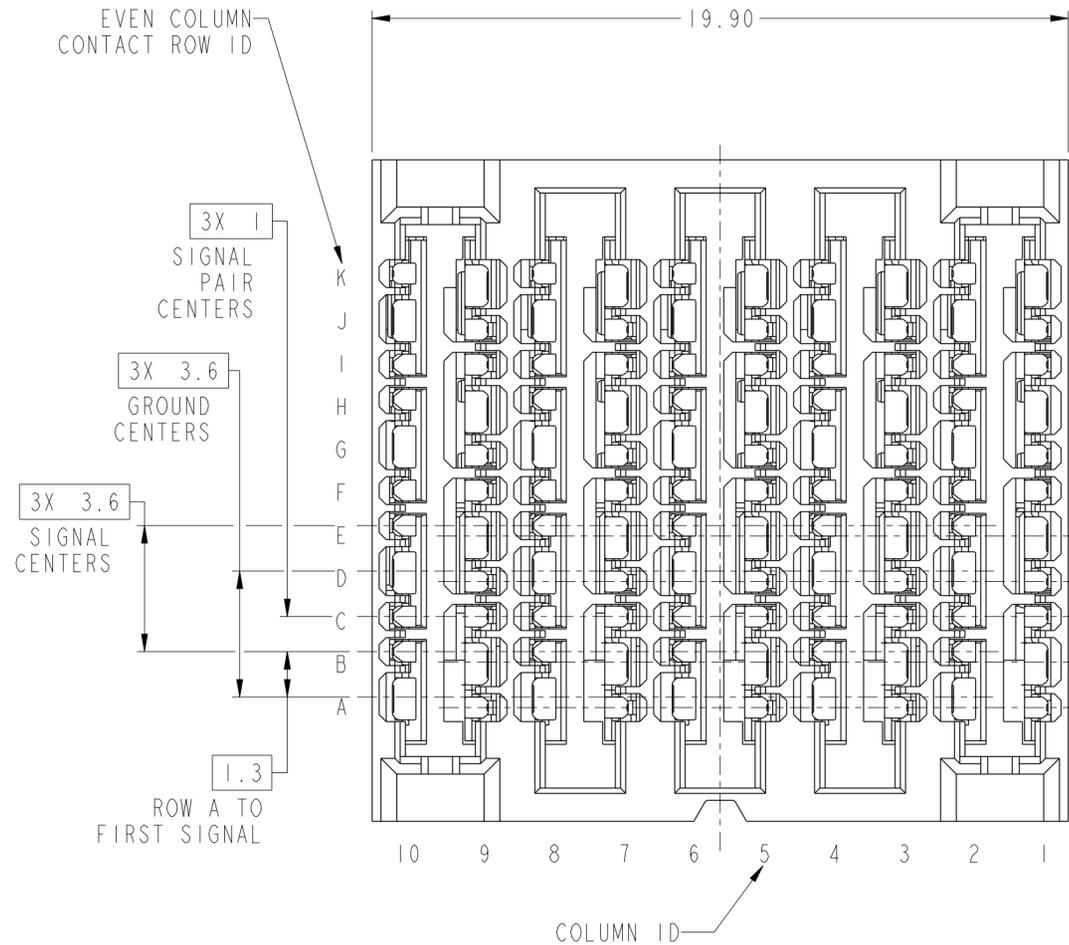


PRODUCT NUMBER  
SEE TABLE

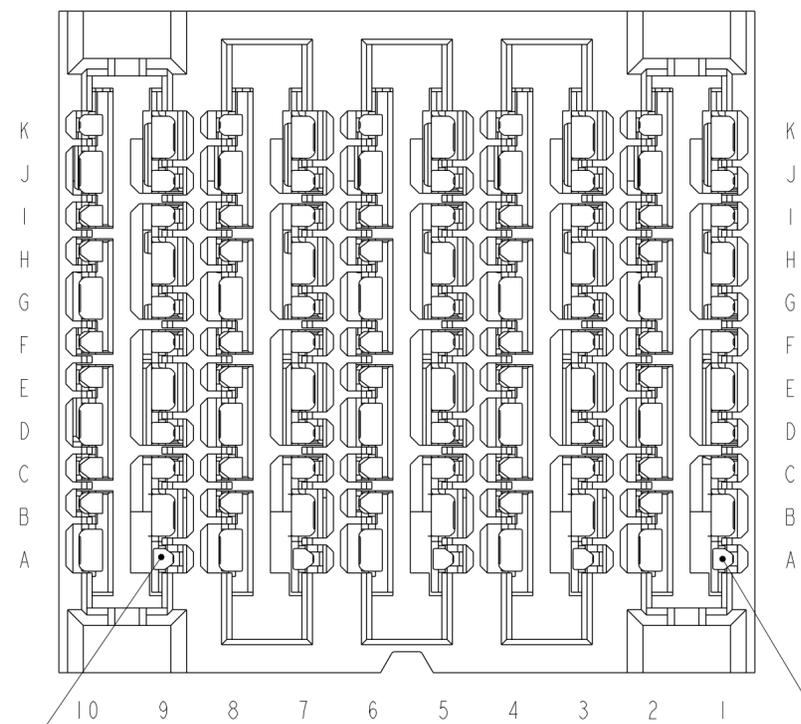


10121401-Y01LF (10121401-101LF SHOWN)  
STANDARD MATE RECEPTACLE

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released												
ASME Y14.5M		chr	Heaven Cen	2017/01/22																		
		appr	Pai-Ming Zheng	2017/01/23																		
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		product family ExaMax	rel level Released	title ExaMAX R.A. RECEPTACLE	cat. no. 10121401	sheet 1 of 10
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				

1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F



ADVANCED MATE  
POSITION A9  
SEE NOTE 13

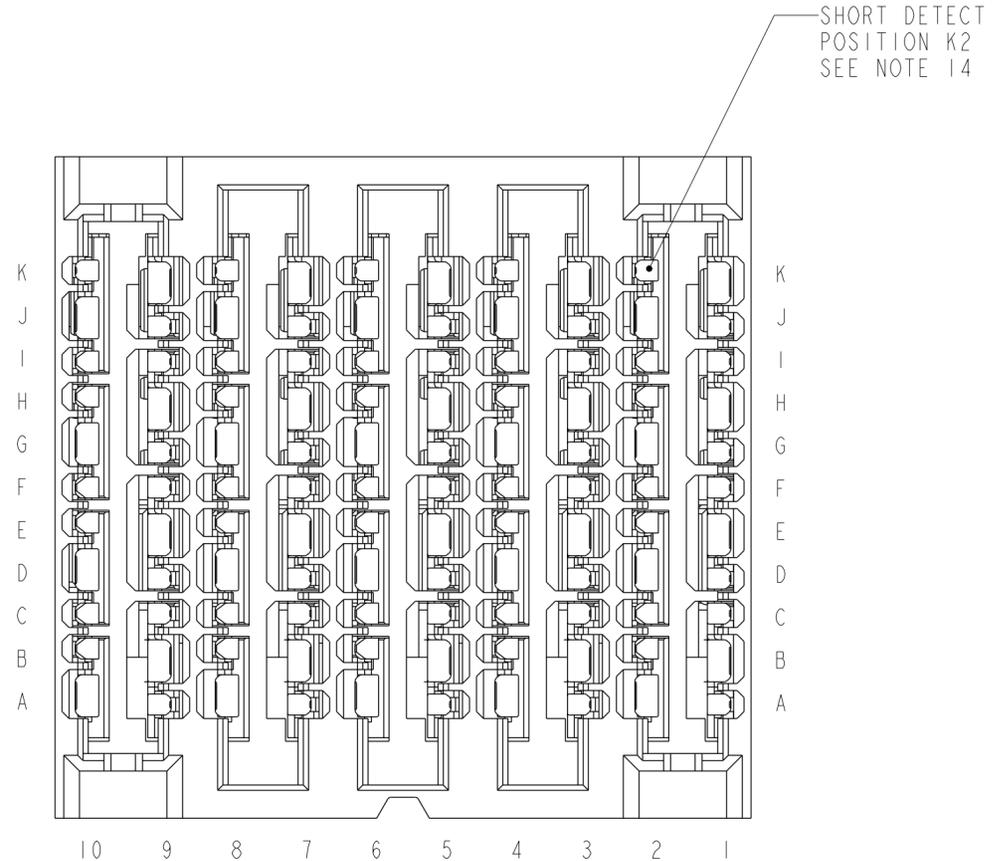
ADVANCED MATE  
POSITION A1  
SEE NOTE 13

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

Amphenol  
FCi

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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	Terry Luo	2017/01/23			ecn no	-	rel level	Released								
ASME Y14.5M		chr	Heaven Cen	2017/01/22														
		appr	Pei-Ming Zheng	2017/01/23														
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 ASS'Y, 3 PR, 110 POS, 10 IMLA	cat. no. 10121401	product family ExaMax	rev A
-	linear			0.X	±.3													
				0.XX	±.10													
		0.XXX	±.050															
	angular	0°	±°															
		Product - Customer Drw			sheet 2 of 10													

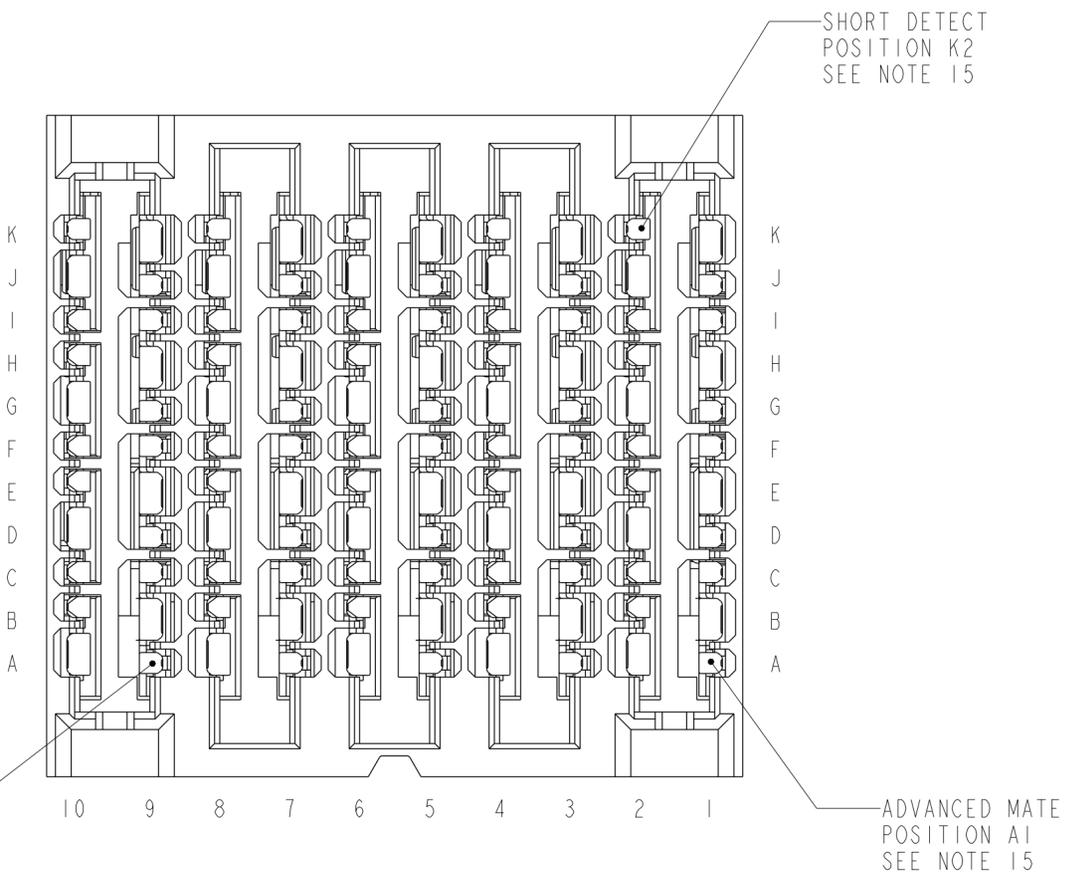


10121401-301LF  
 SHORT DETECT RECEPTACLE  
 SHORT DETECT POSITION IS K2 ONLY  
 FOR ALL DIMENSIONS SEE 10121401-101LF ON SHEET 1

Amphenol  
**FCi**

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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	Terry Luo	2017/01/23			ecn no	-	rel level	Released										
ASME Y14.5M		chr	Heaven Cen	2017/01/22																
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	Pei-Ming Zheng	2017/01/23	product family	ExaMax	rel level	Released
linear		0.X	±.3																	
		0.XX	±.10																	
	0.XXX	±.050																		
angular	0°	±°																		
		Amphenol <b>FCi</b>	title	ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA	dwg no	10121401	rev	A												
			cat. no.	Product - Customer Drw	sheet 3 of 10															

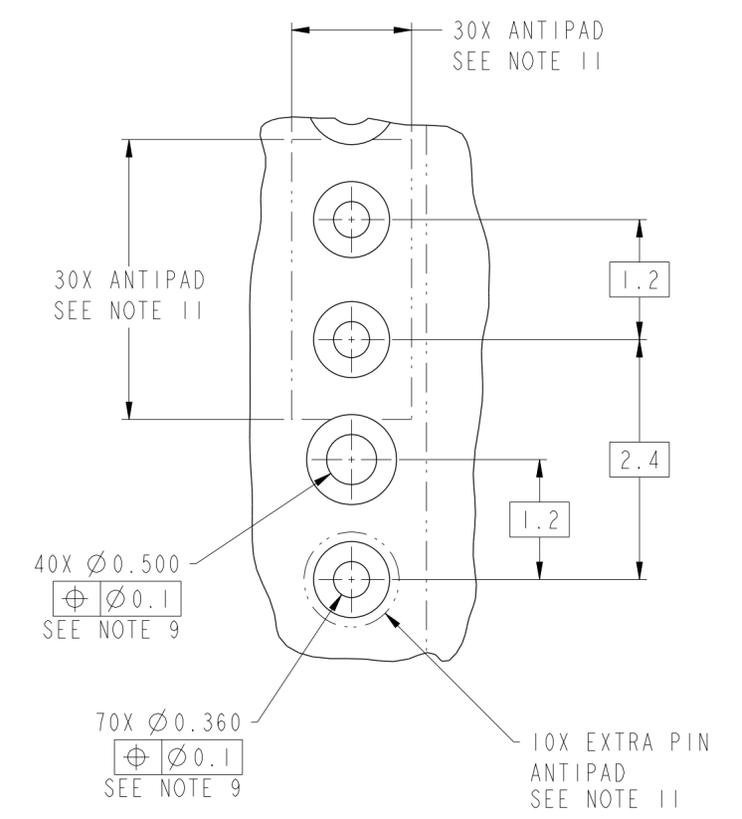
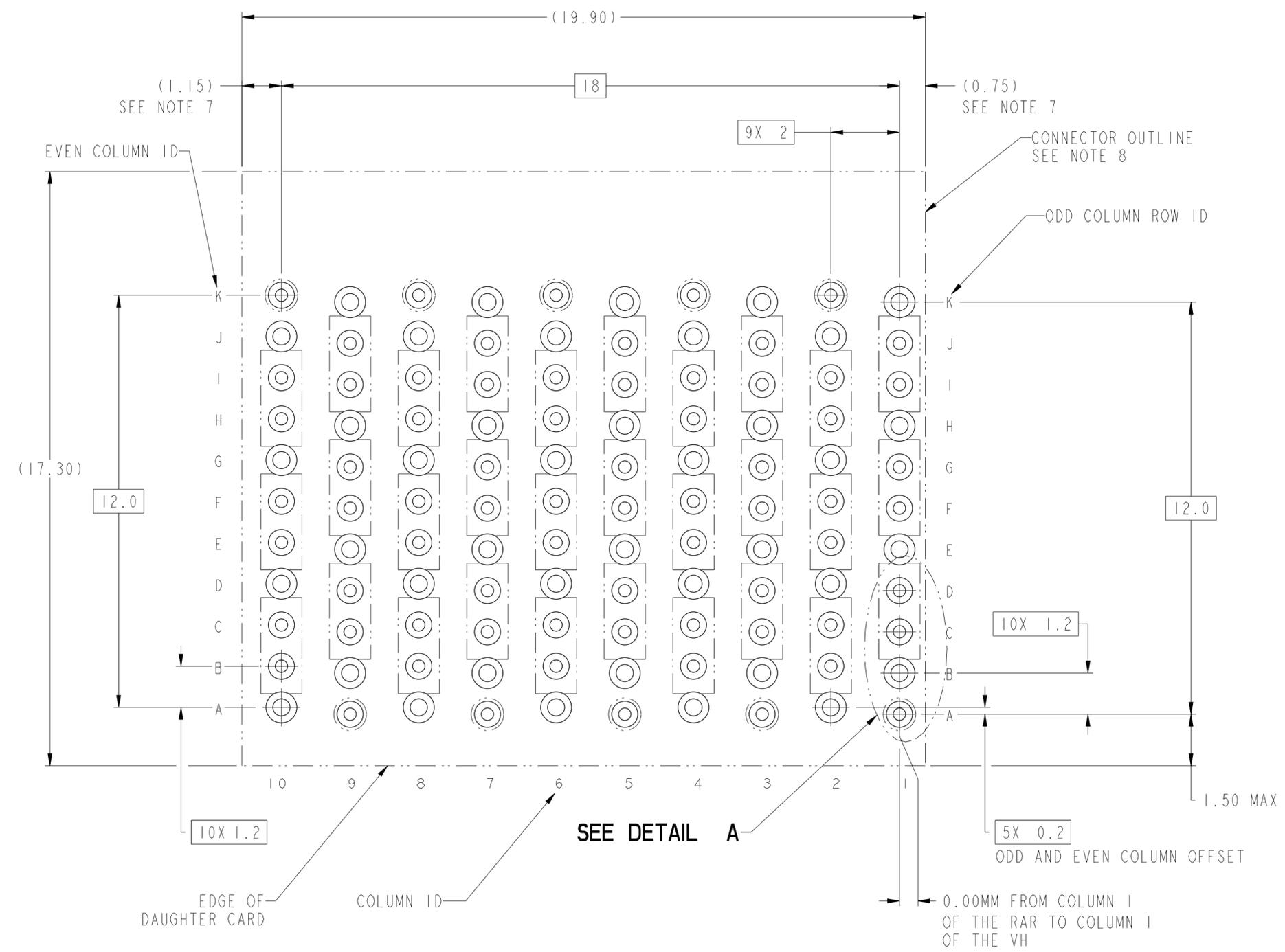


**10121401-401LF**  
**ADVANCED MATE/SHORT DETECT RECEPTACLE**  
**ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9**  
**SHORT DETECT POSITION IS K2 ONLY**  
**FOR ALL DIMENSIONS SEE 10121401-101LF ON SHEET 1**

**Amphenol FCI**

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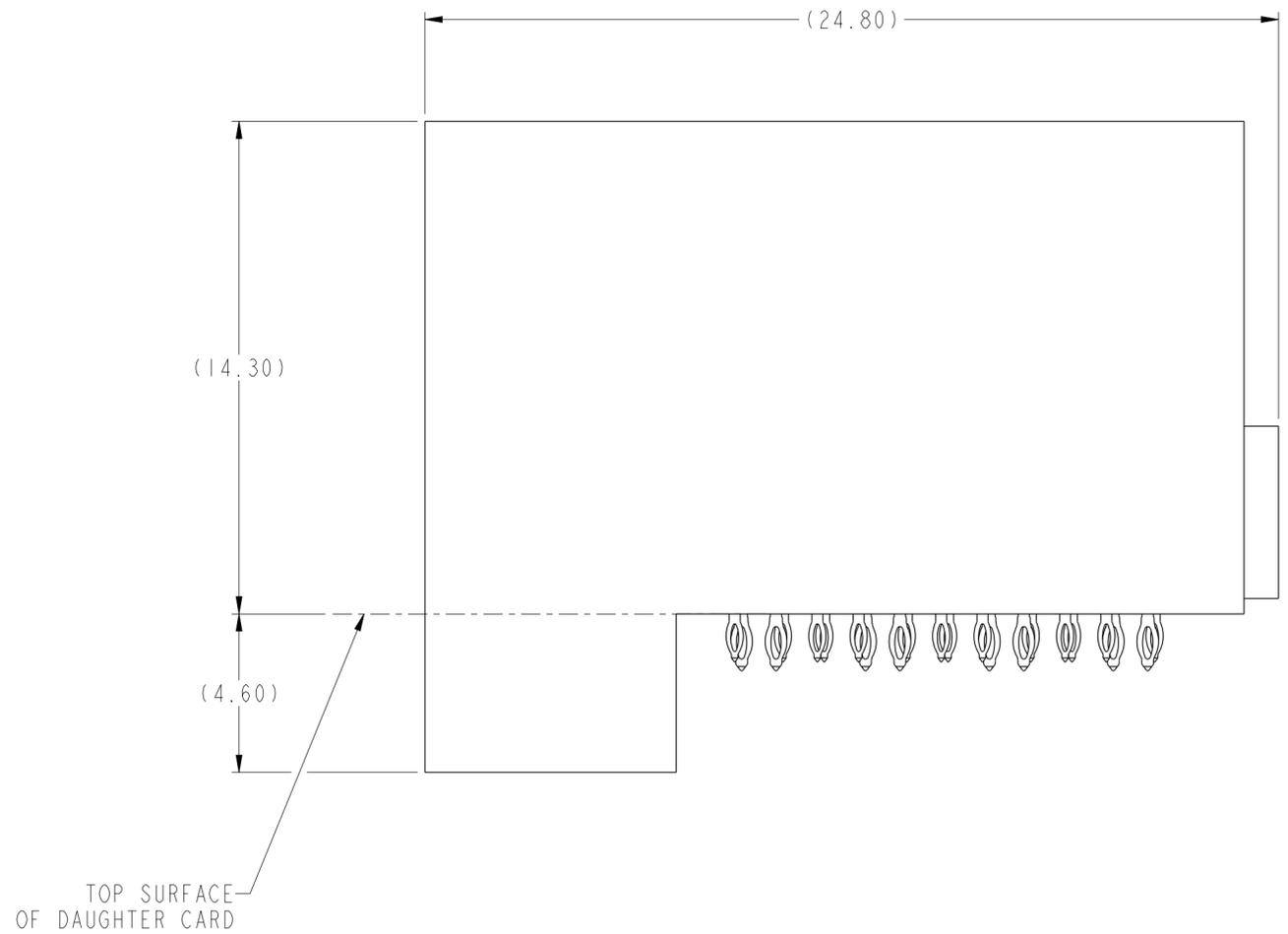
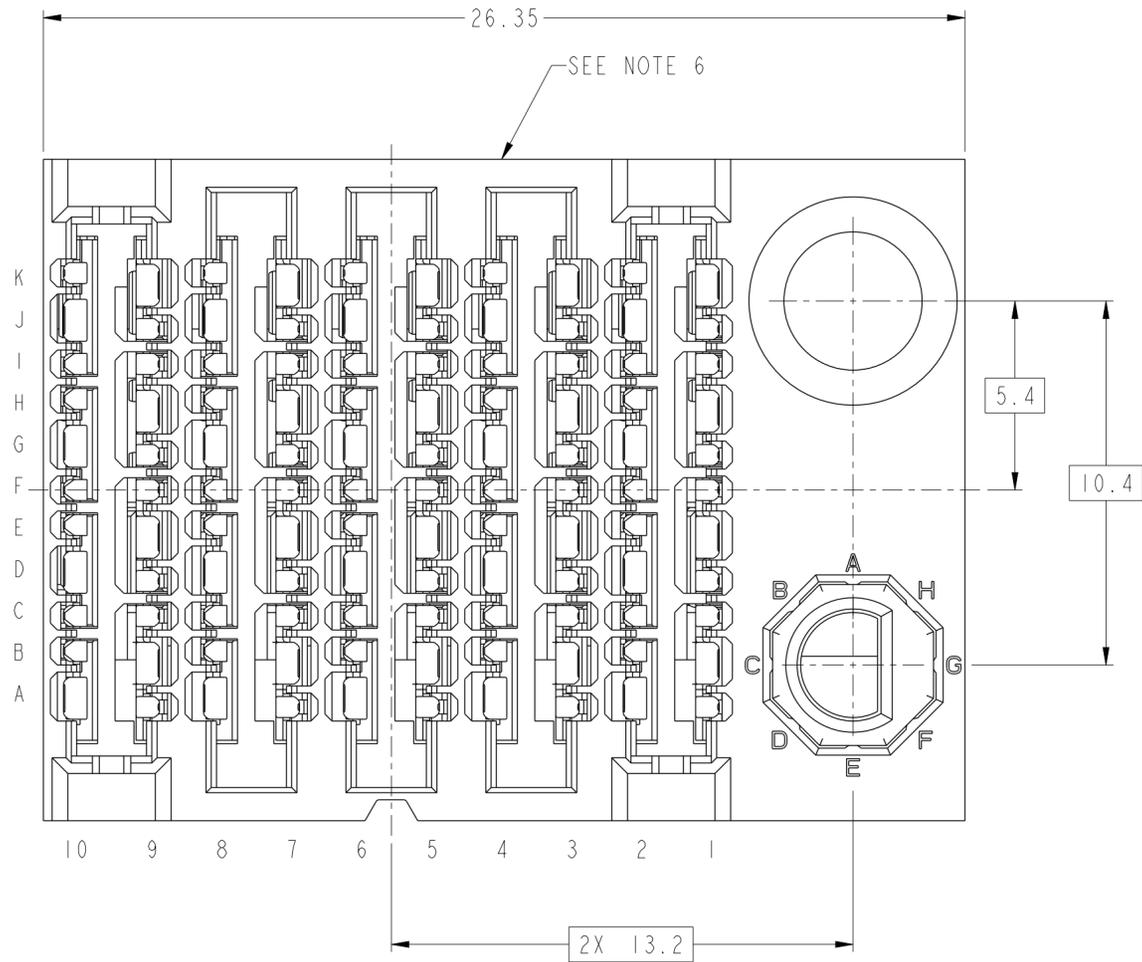
spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1							
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released							
ASME Y14.5M		chr	Heaven Cen	2017/01/22													
		appr	Pai-Ming Zheng	2017/01/23													
surface	<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 ASS'Y, 3 PR, 110 POS, 10 IMLA	dwg no 10121401	rev A
-	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-X01LF 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	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
surface	linear	appr	Pai-Ming Zheng	2017/01/23	product family	ExaMax	rel level	Released	cat. no.	10121401
	angular									
	0.X	±.3	<b>Amphenol FCI</b>		title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA		rev A		sheet 5 of 10	
	0.XX	±.10								
	0.XXX	±.050								
	0°	±°	PDS: Rev :A		STATUS:Released		Printed: Jan 23, 2017			



10121401-X1ALF THRU 10121401-X1JLF  
 RIGHT GUIDANCE (SEE NOTE 17)  
 FOR ALL OTHER DIMENSIONS SEE 10121401-101LF ON SHEET 1

Amphenol  
FCi

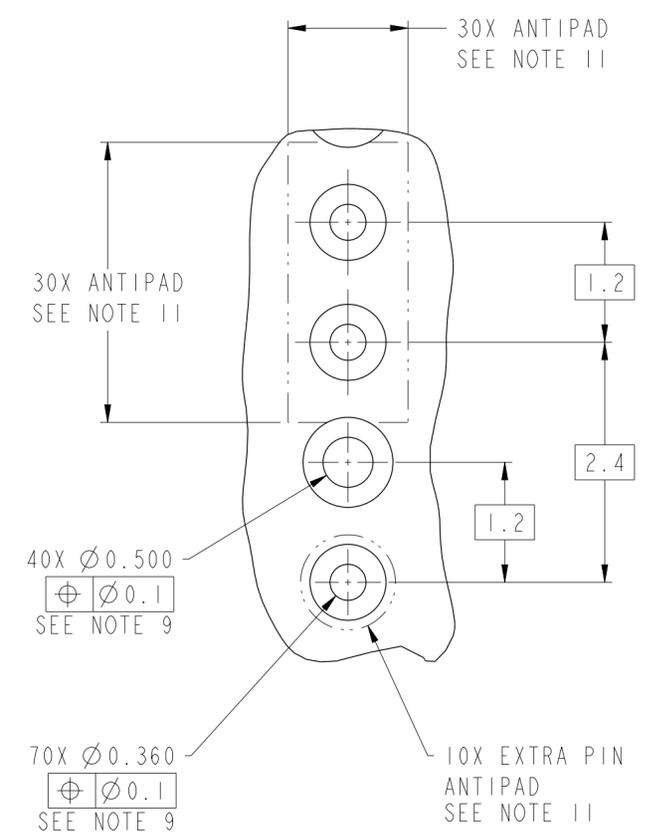
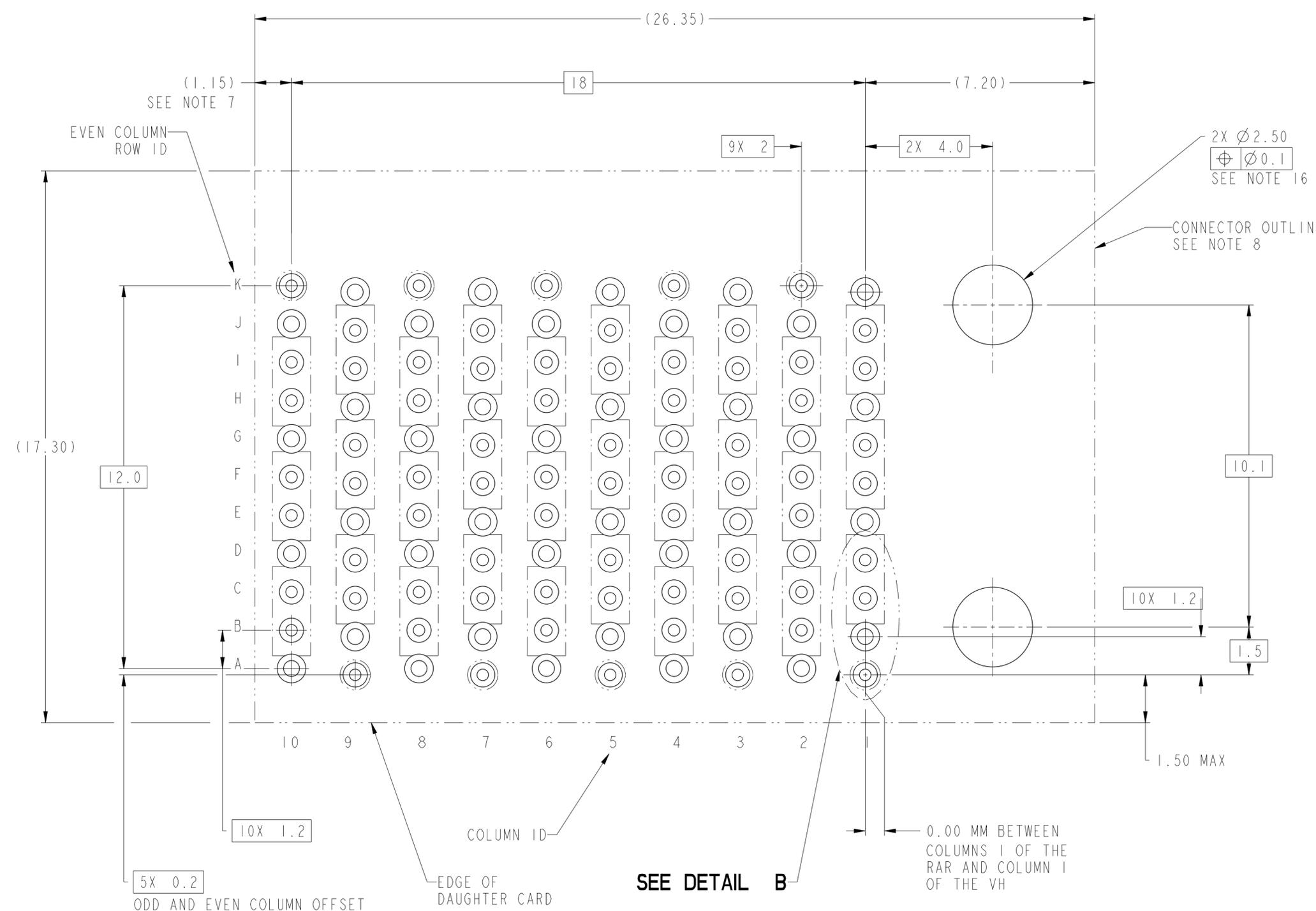
© 2016 AFCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1																	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released																	
ASME Y14.5M		chr	Heaven Cen	2017/01/22																							
		appr	Pai-Ming Zheng	2017/01/23																							
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°	±°	product family	ExaMax	rel level	Released										
linear	0.X	±.3																									
	0.XX	±.10																									
	0.XXX	±.050																									
angular	0°	±°																									
	<table border="1"> <tr> <td>Amphenol FCi</td> <td>title</td> <td>ExaMAX R.A. RECEPTACLE</td> <td>dwg no</td> <td>10121401</td> <td>rev</td> <td>A</td> </tr> <tr> <td></td> <td></td> <td>ASS'Y, 3 PR, 110 POS, 10 IMLA</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>cat. no.</td> <td></td> <td>Product - Customer Drw</td> <td>sheet 6 of 10</td> <td></td> <td></td> </tr> </table>	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE	dwg no	10121401	rev	A			ASS'Y, 3 PR, 110 POS, 10 IMLA						cat. no.		Product - Customer Drw	sheet 6 of 10							
Amphenol FCi	title	ExaMAX R.A. RECEPTACLE	dwg no	10121401	rev	A																					
		ASS'Y, 3 PR, 110 POS, 10 IMLA																									
	cat. no.		Product - Customer Drw	sheet 6 of 10																							

PDS: Rev :A

STATUS:Released

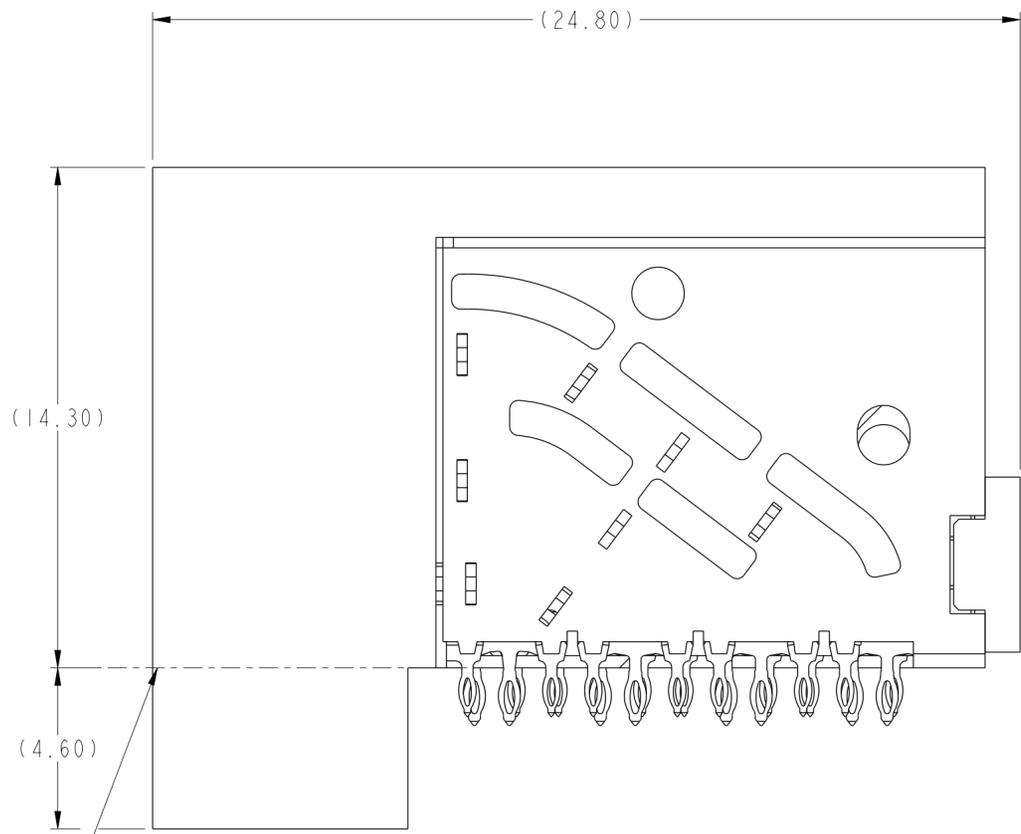
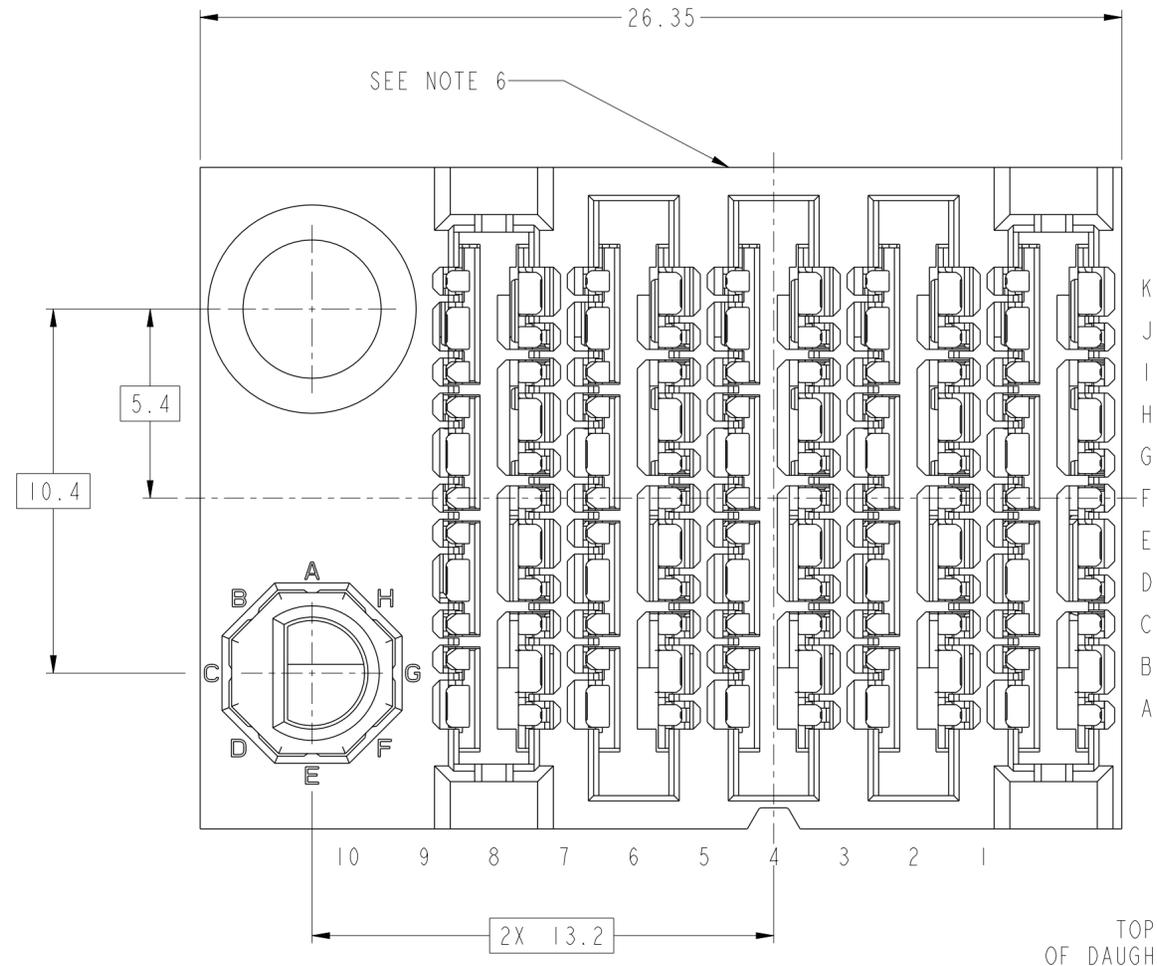
Printed: Jan 23, 2017



**DETAIL B**  
SCALE 20:1

**10121401-X1ALF THRU -X1JLF  
RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
NOTES 7, 8, 9, 11 & 16  
SCALE 10:1**

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
		appr	Pai-Ming Zheng	2017/01/23						
surface	linear	0.X	±.3		product family		ExaMax	title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA	dwg no 10121401	rev A
		0.XX	±.10		cat. no.	Product - Customer Drw	sheet 7 of 10			
		0.XXX	±.050							
	angular	0°	±°	PDS: Rev :A		STATUS:Released		Printed: Jan 23, 2017		

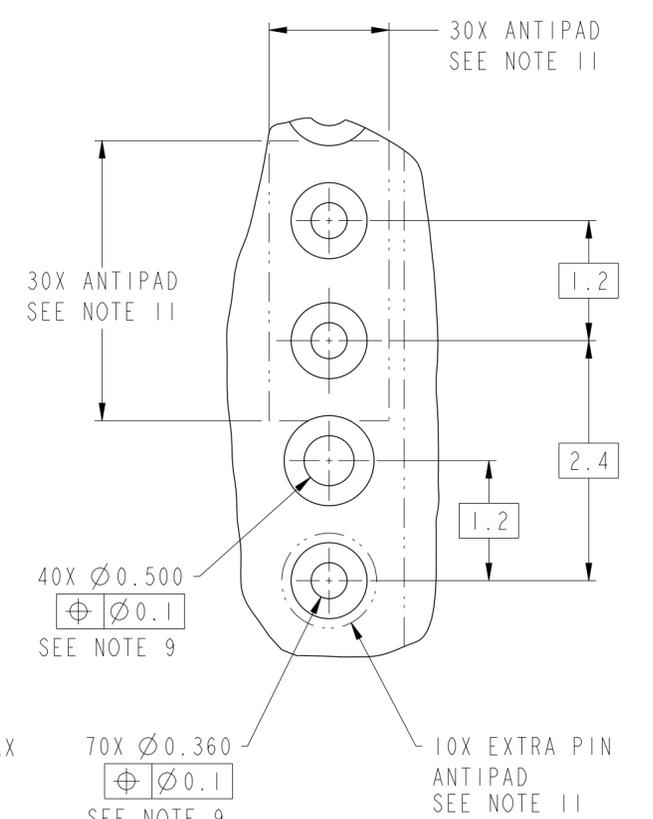
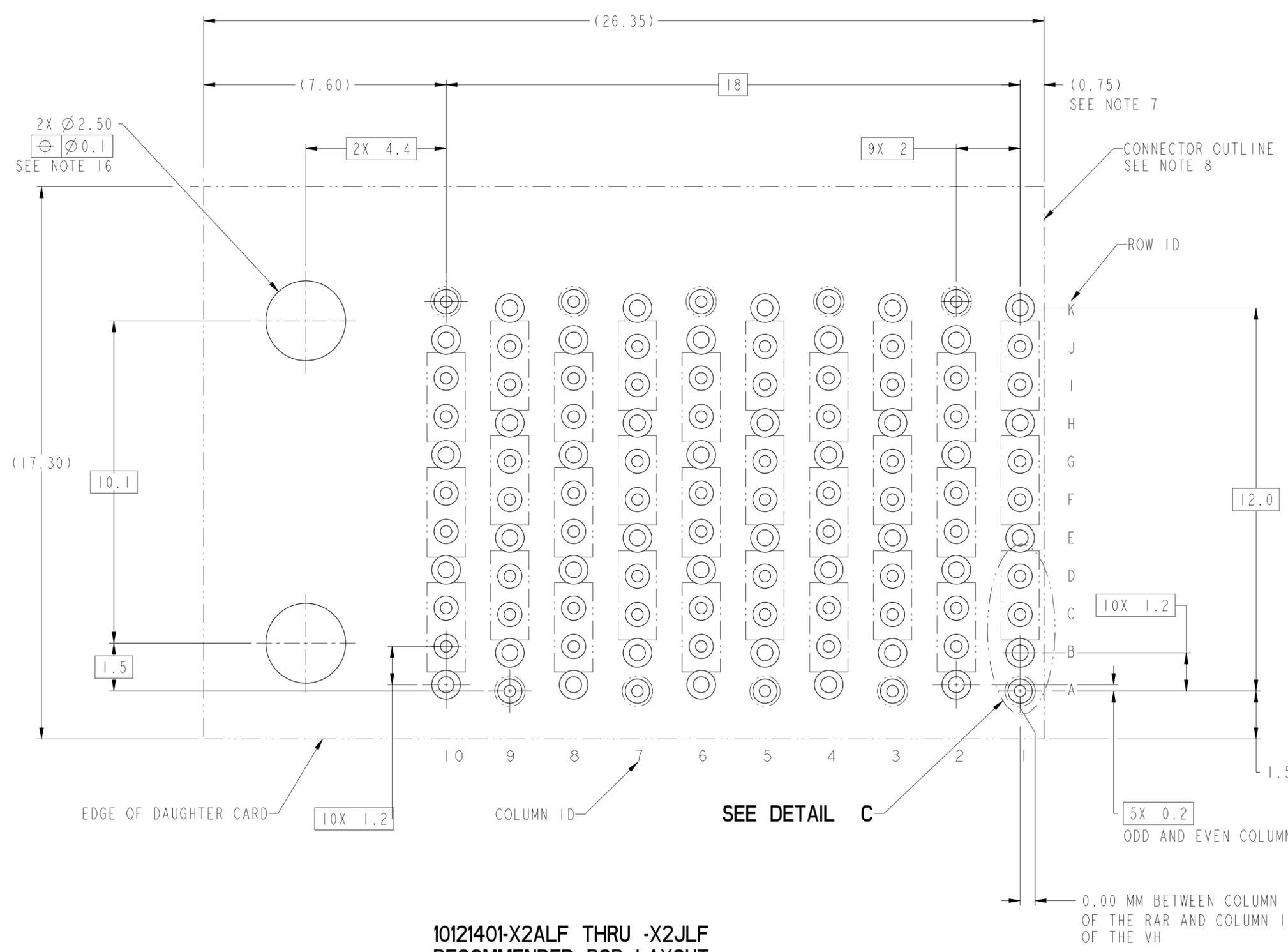


10121401-X2ALF THRU 10121401-X2JLF  
 LEFT GUIDANCE (SEE NOTE 17)  
 FOR ALL OTHER DIMENSIONS SEE 10121401-101LF ON SHEET 1

Amphenol  
 FCI

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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	Terry Luo	2017/01/23			ecn no	-	rel level	Released										
ASME Y14.5M		chr	Heaven Cen	2017/01/22																
		appr	Pai-Ming Zheng	2017/01/23																
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°	±°	product family	ExaMax		dwg no	10121401	rev	A
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		cat. no.		Product - Customer Drw	sheet 8 of 10										



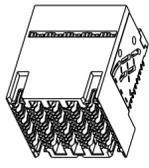
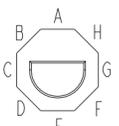
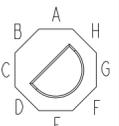
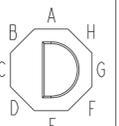
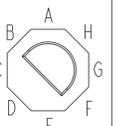
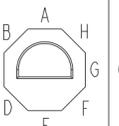
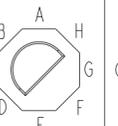
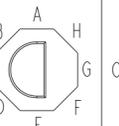
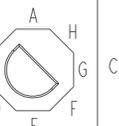
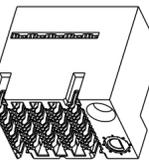
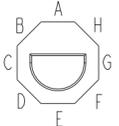
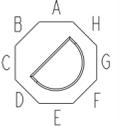
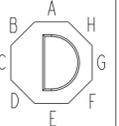
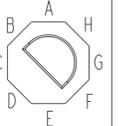
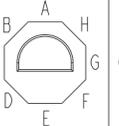
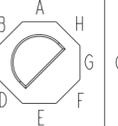
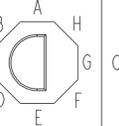
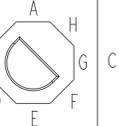
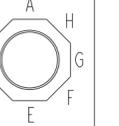
10121401-X2ALF THRU -X2JLF  
RECOMMENDED PCB LAYOUT  
COMPONENT SIDE  
NOTES 7, 8, 9, 11 & 16  
SCALE 10:1

DETAIL C  
SCALE 20:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/04	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
		appr	Pai-Ming Zheng	2017/01/23						
surface	linear	0.X	±.3		product family		ExaMax	title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 110 POS, 10 IMLA	dwg no 10121401	rev A
		0.XX	±.10		cat. no.		Product - Customer Drw			
		0.XXX	±.050		sheet 9 of 10					
	angular	0°	±°	PDS: Rev :A		STATUS:Released		Printed: Jan 23, 2017		

1012401 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
1012401-1YYLF	STANDARD MATE
1012401-2YYLF	ADVANCED MATE
1012401-3YYLF	SHORT DETECT
1012401-4YYLF	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 APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTH, TRACE SPACING, ETC.
- 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, 1012401-2YYLF, 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, 1012401-3YYLF, 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, 1012401-4YYLF, 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.

Amphenol FCI

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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	Terry Luo	2017/01/23		←	ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
surface	linear	appr	Pei-Ming Zheng	2017/01/23	Amphenol FCI		title	ExaMAX R.A. RECEPTACLE	cat. no.	10121401
	angular						rev	A		