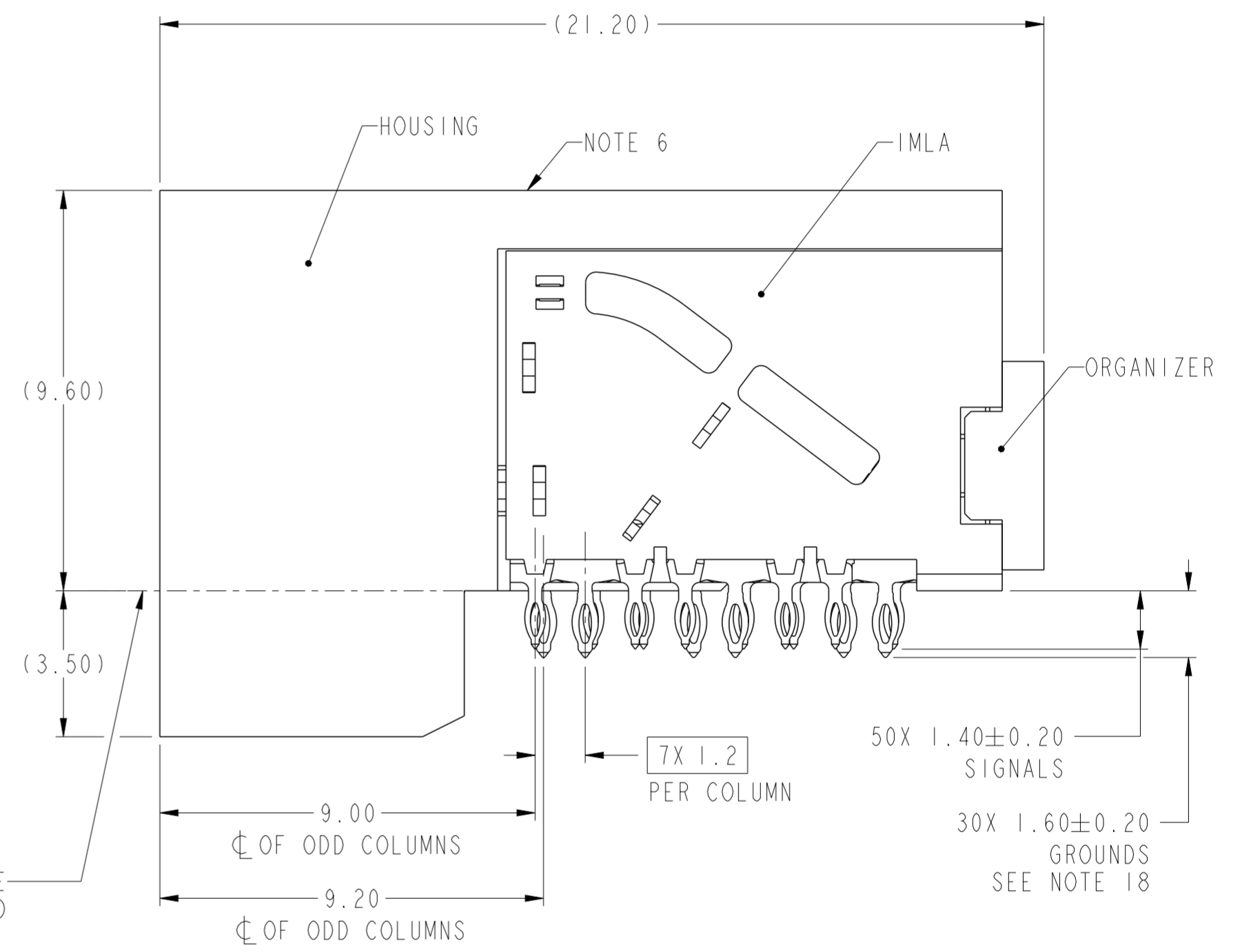
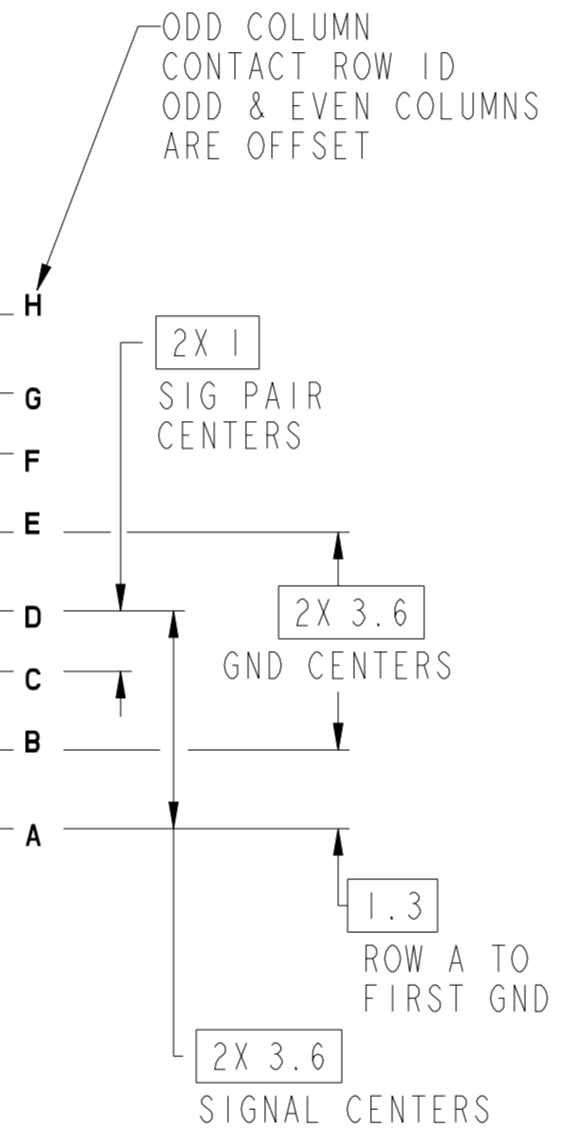
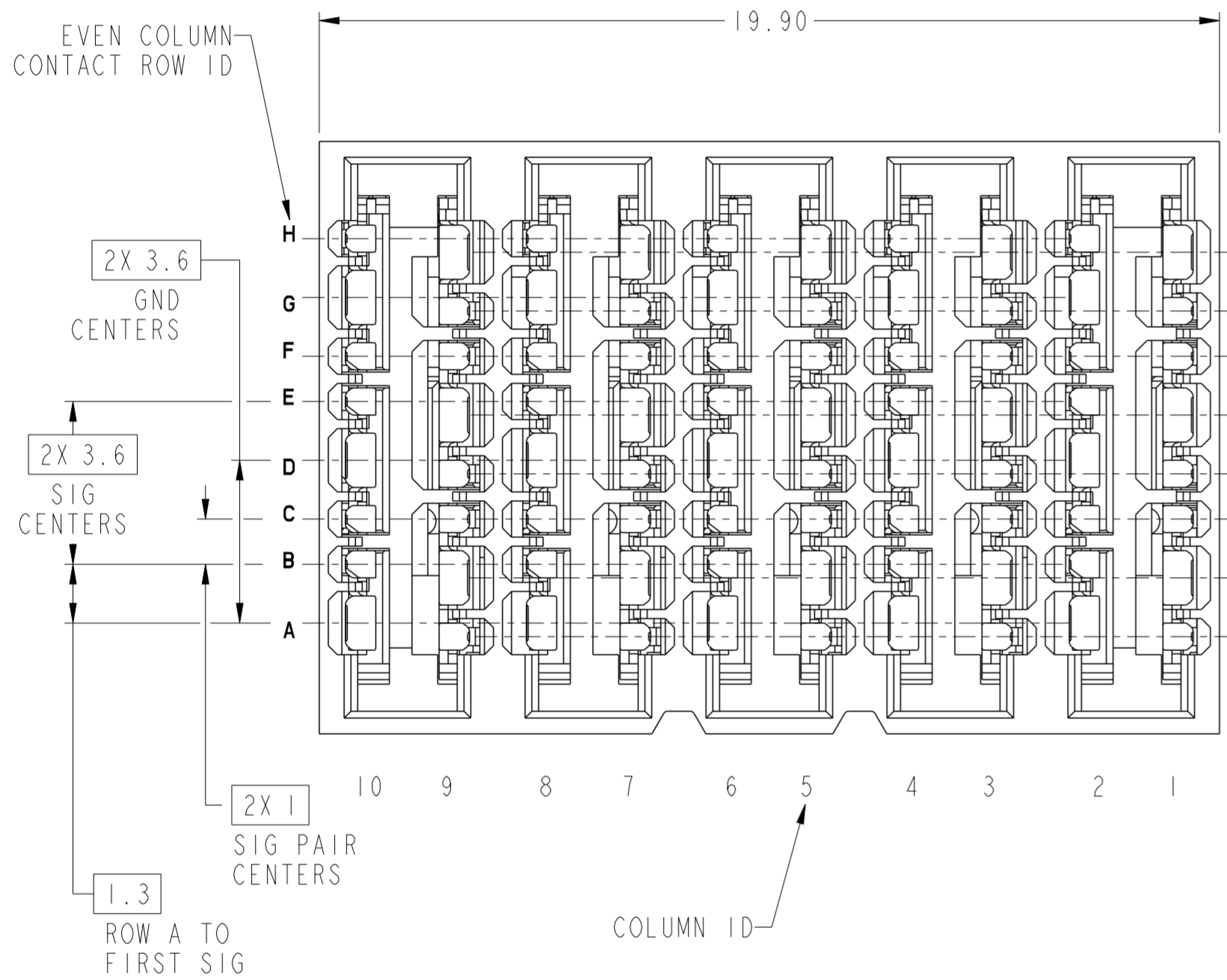


PRODUCT NUMBER  
SEE TABLE



10124413-101LF  
STANDARD MATE RECEPTACLE

Amphenol  
FCi

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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	Terry Luo	2017/01/20			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20						
		appr	Pei-Ming Zheng	2017/01/20						
surface	-	linear	0.X	±.3	<b>Amphenol FCi</b>	<b>ExaMAX R.A. RECEPTACLE</b> ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM	dwg no 10124413	rev A	product family ExaMAX	sheet 1 of 10
			0.XX	±.10						
			0.XXX	±.050						
		angular	0°	±°	cat. no.	SEE TABLE	Product - Customer Drw			

PDS: Rev :A

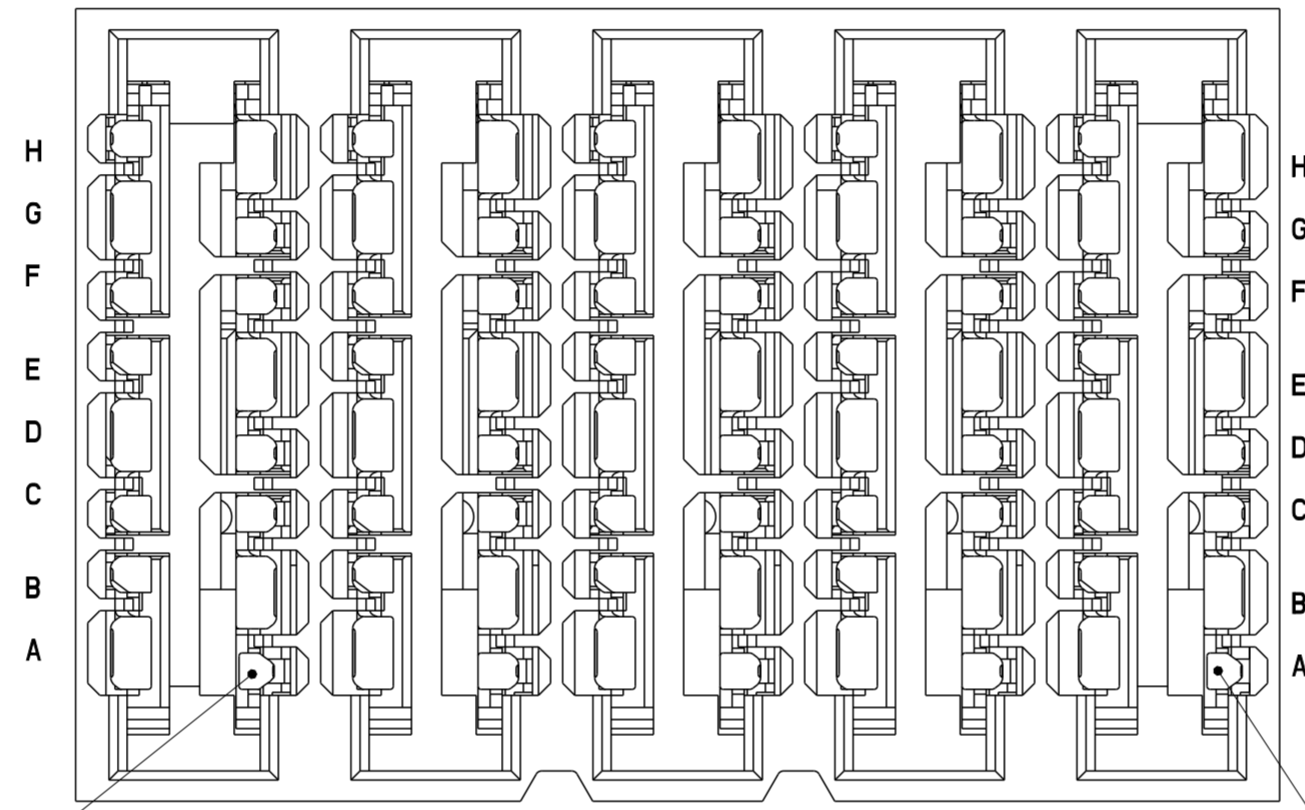
STATUS:Released

Printed: Jan 20, 2017

1 2 3 4 5 6 7 8

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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

Amphenol  
FCi

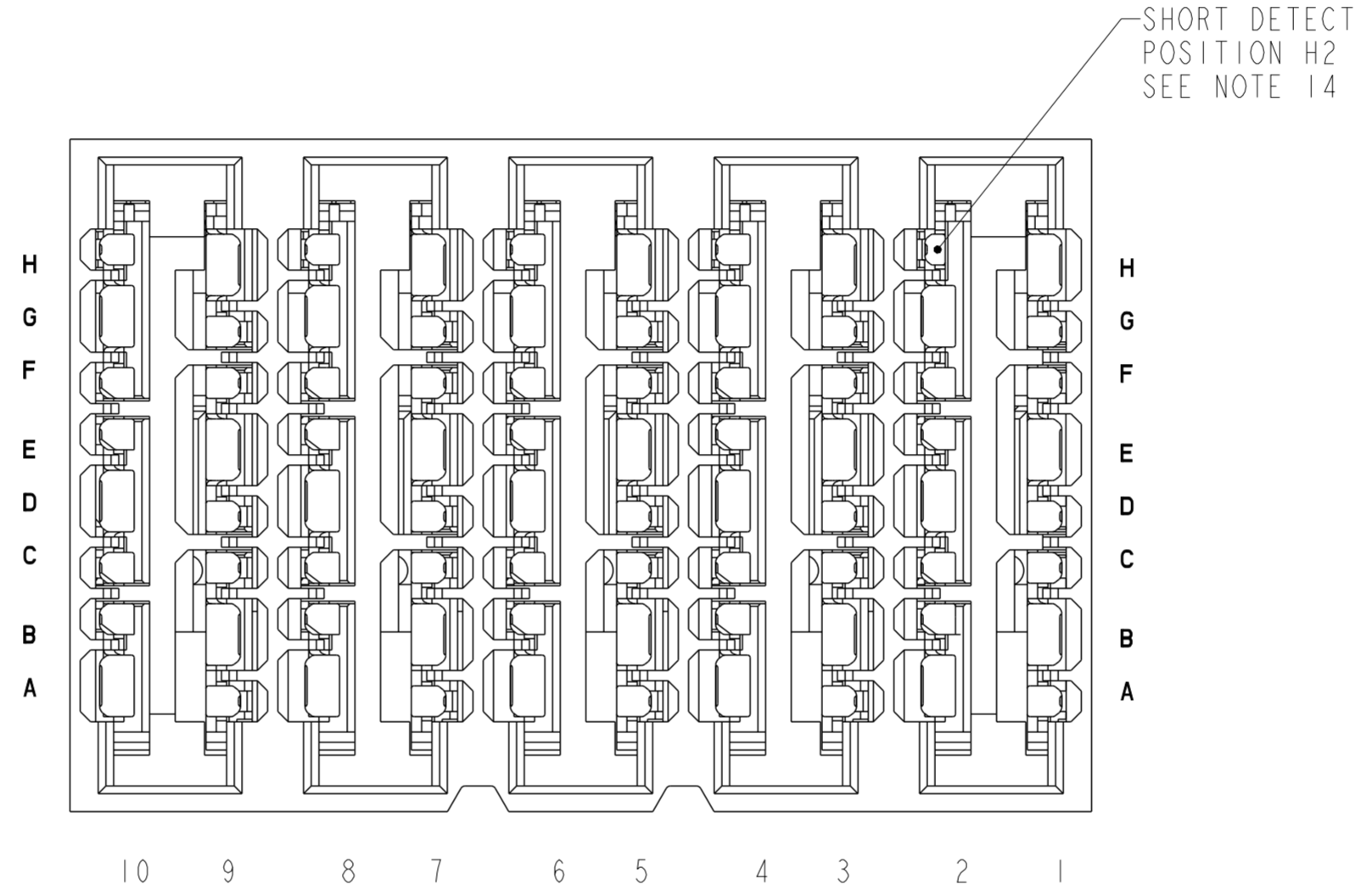
© 2016 AFci

spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	8:1		
tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/20			ecn no	-	rel level	Released		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20								
surface	-	appr	Pei-Ming Zheng	2017/01/20	product family	ExaMAX	divg no	10124413	rev	A		
	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE		cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 10
		0.XX	±.10		title		ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM					
		0.XXX	±.050		title							
	angular	0°	±°	cat. no.		SEE TABLE		Product - Customer Drw		sheet 2 of 10		

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

Amphenol  
FCi

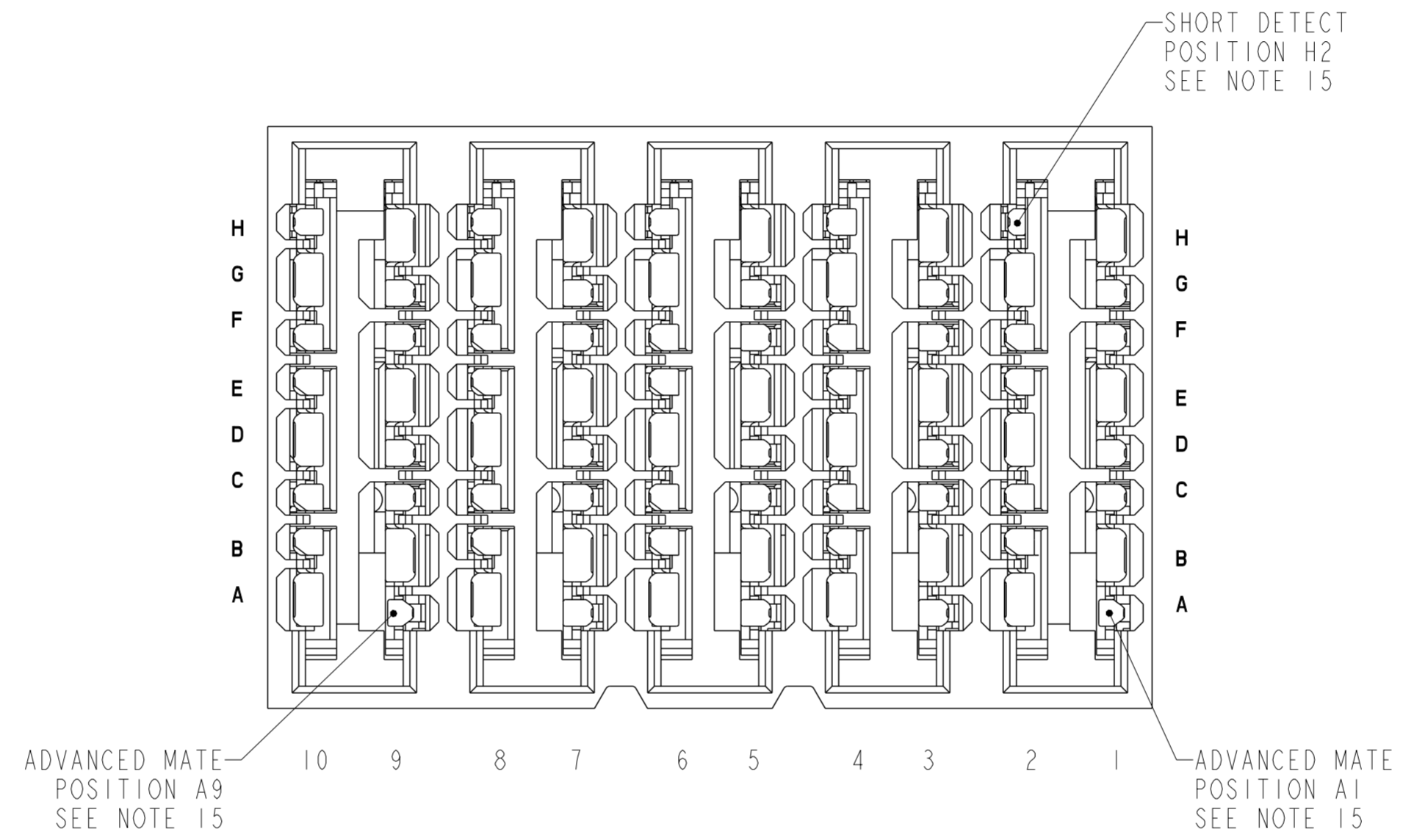
© 2016 AFci

spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	10:1												
tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/20			ecn no	-														
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20			rel level	Released														
surface	-	appr	Pai-Ming Zheng	2017/01/20	product family	ExaMAX	div no	10124413	rev	A												
	<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	cat. no.	SEE TABLE	Product - Customer Drw	sheet 3 of 10		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				

PDS: Rev :A

STATUS:Released

Printed: Jan 20, 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**

**Amphenol  
FCi**

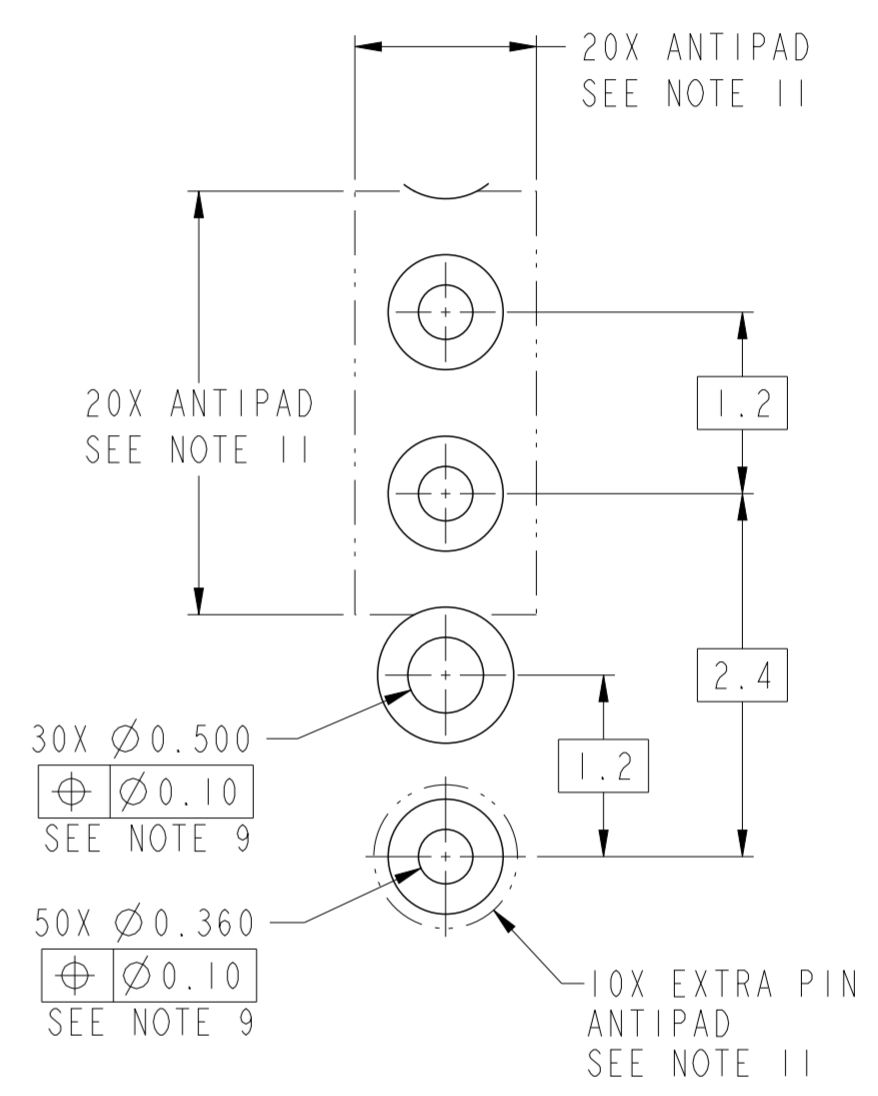
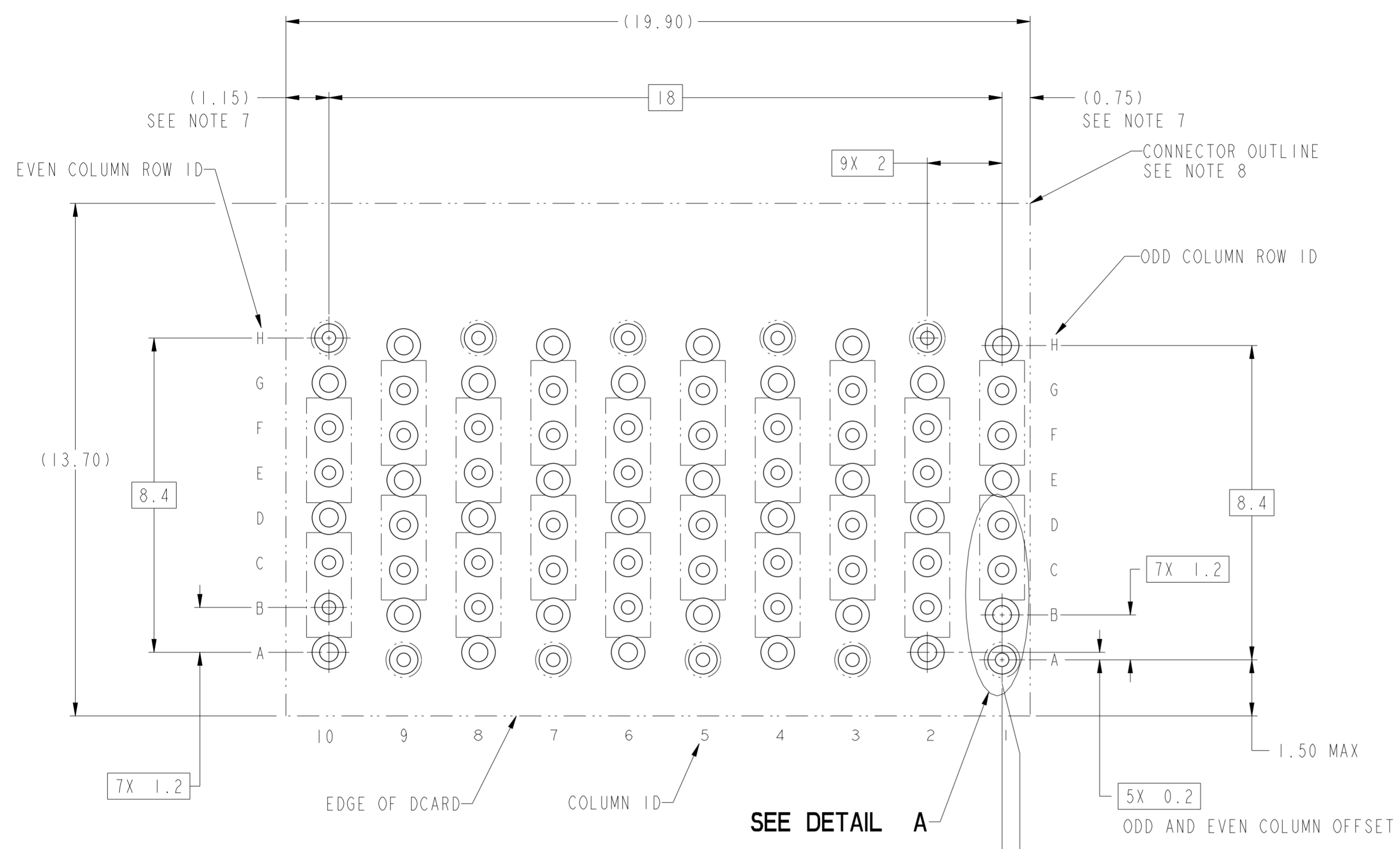
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spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	8:1	
tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/20			ecn no	-			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20			rel level	Released			
		appr	Pai-Ming Zheng	2017/01/20			product family		ExaMAX		
surface	-		<b>Amphenol FCi</b>	title		ExaMAX R.A. RECEPTACLE	dwg no 10124413	rev		A	
	linear			0.X	±.3	ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		cat. no.		SEE TABLE	
	angular			0°	±°	Product - Customer Drw		sheet 4 of 10			

**PDS: Rev :A**

**STATUS:Released**

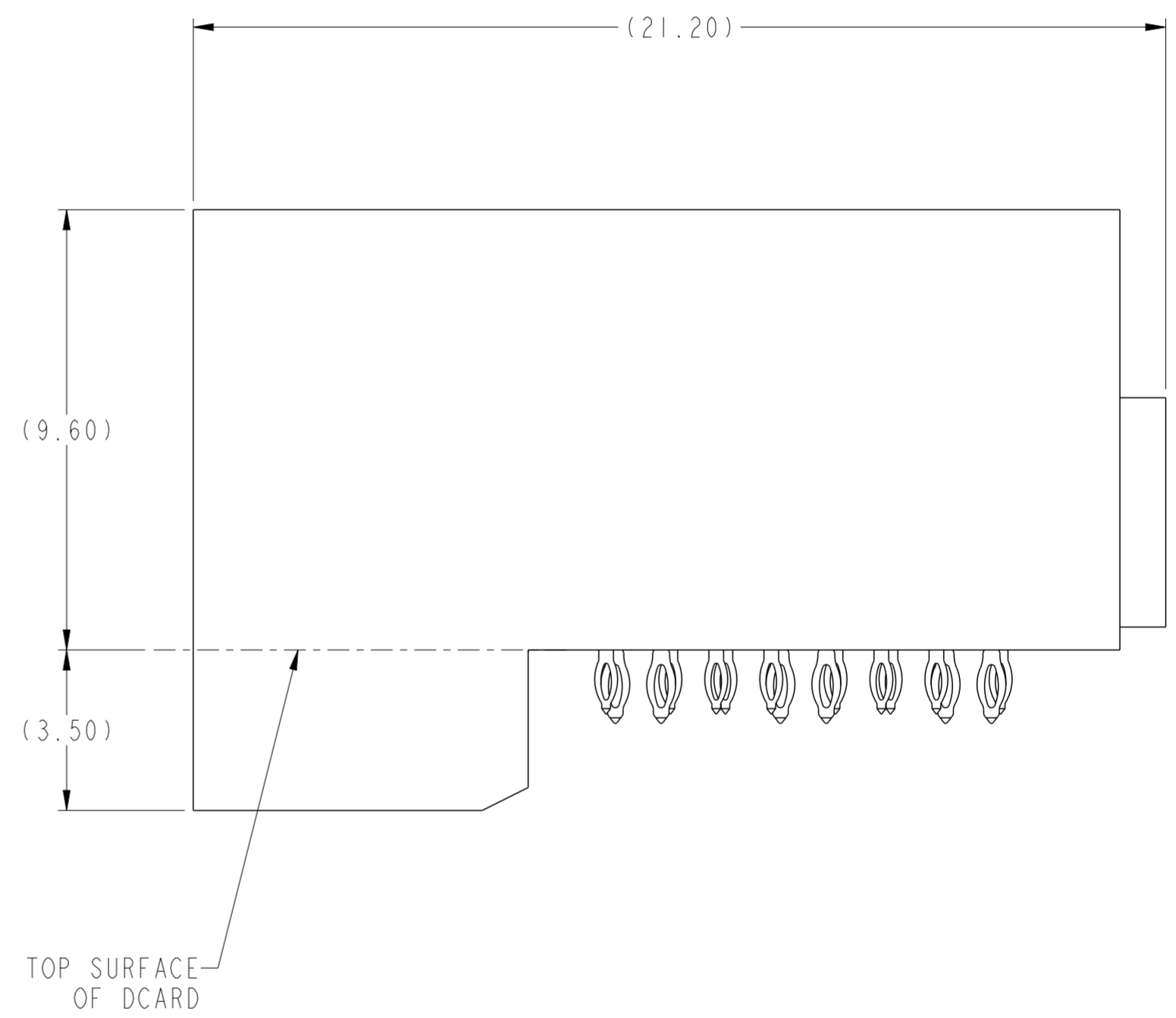
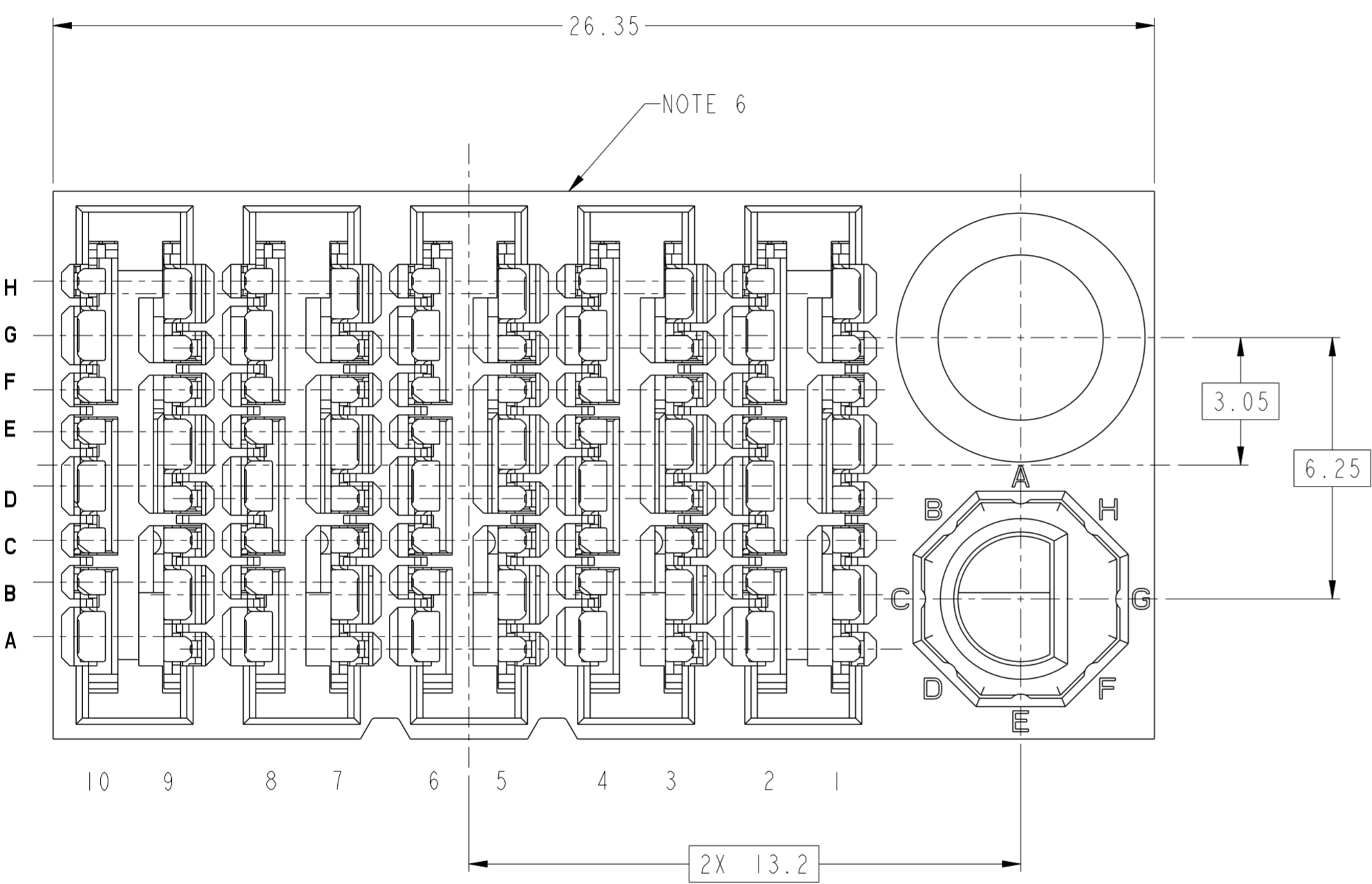
**Printed: Jan 20, 2017**



**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	Terry Luo	2017/01/20			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20						
surface	-	appr	Pai-Ming Zheng	2017/01/20	product family	ExaMAX	rel level	Released	rev	A
linear	0.X ±.3 0.XX ±.10 0.XXX ±.050			title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		dwg no	10124413		sheet	5 of 10
angular	0° ±°	cat. no.		SEE TABLE	Product - Customer Drw					



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

Amphenol  
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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	Terry Luo	2017/01/20			ecn no	-	rel level	Released												
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20																		
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	2017/01/20	product family	ExaMAX	dwg no	10124413	rev	A
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		cat. no. SEE TABLE		Product - Customer Drw		sheet 6 of 10												

PDS: Rev :A

STATUS:Released

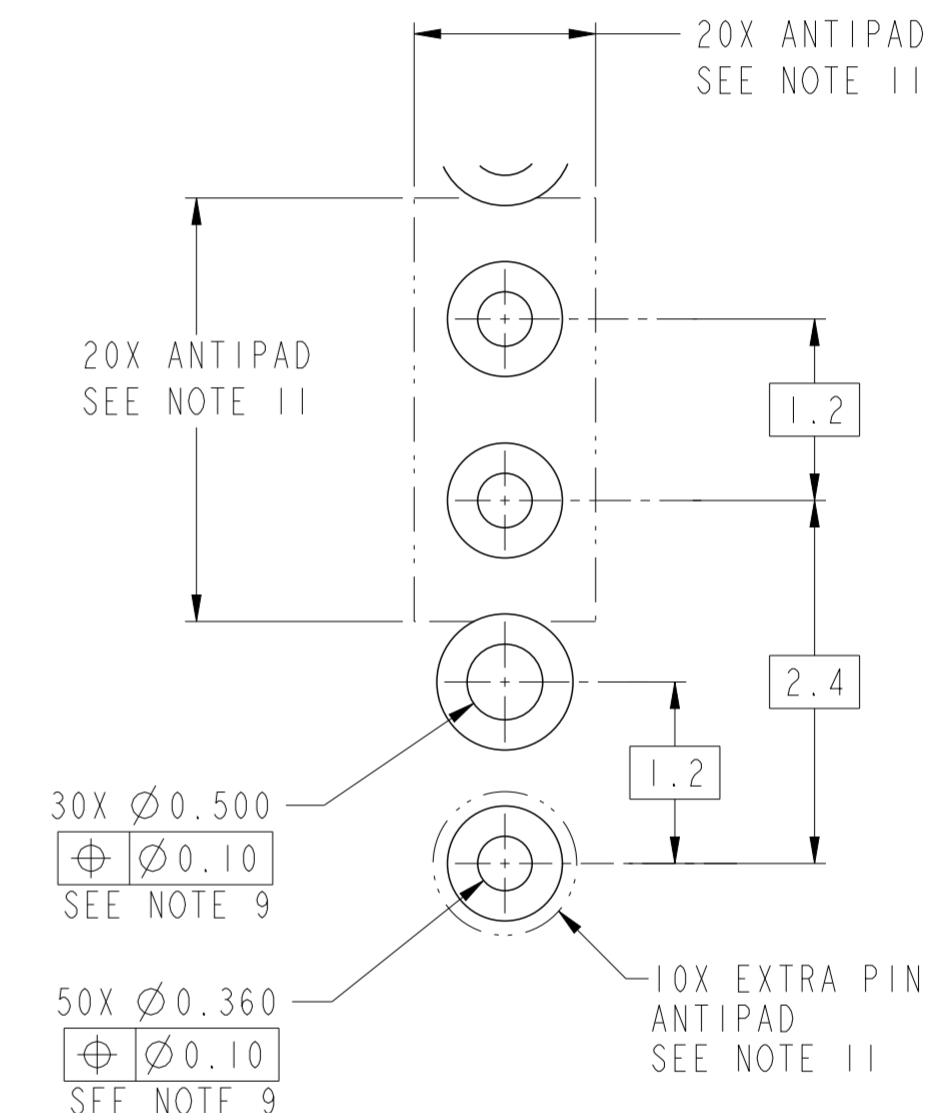
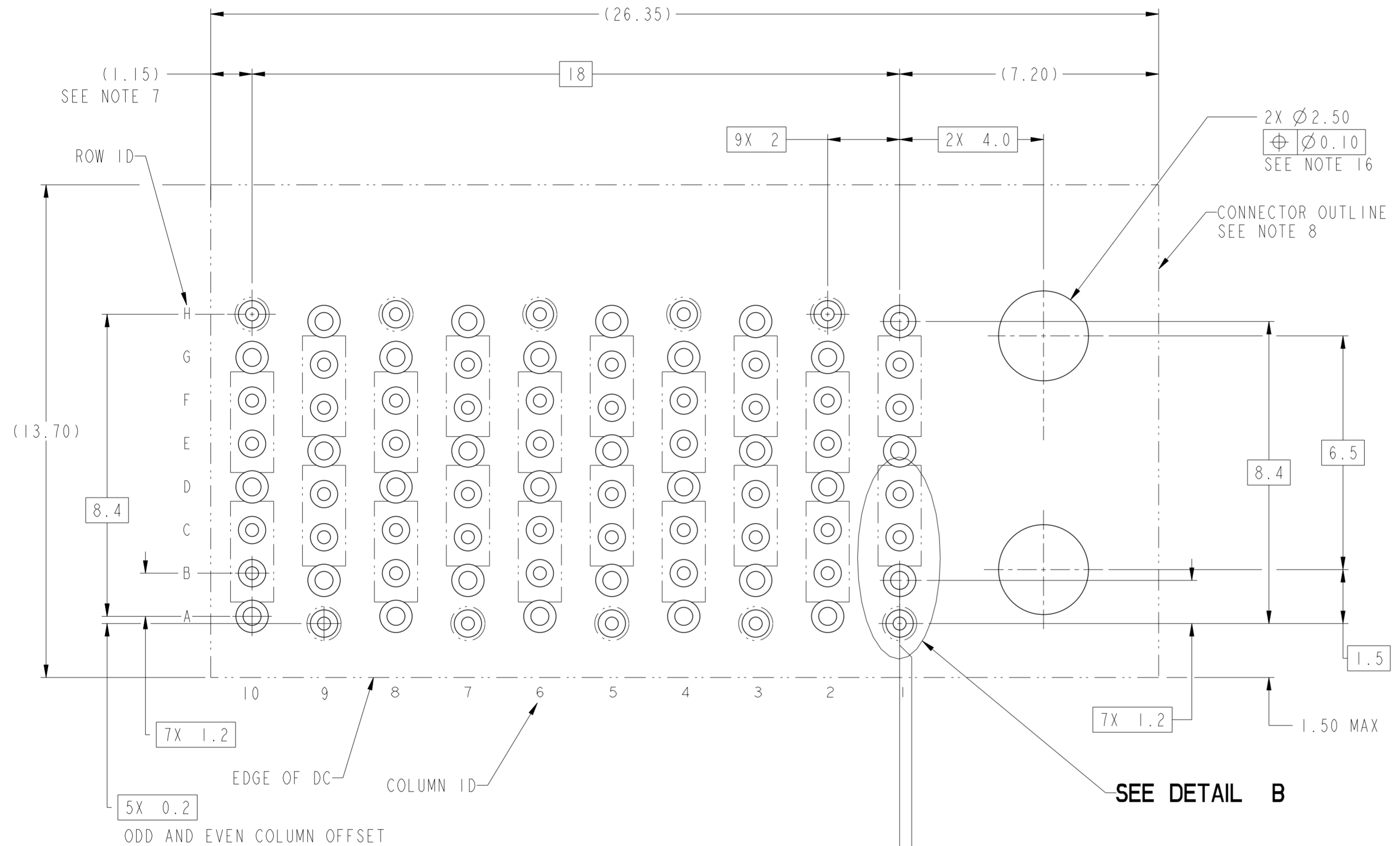
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**DETAIL B**  
SCALE 20:1

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

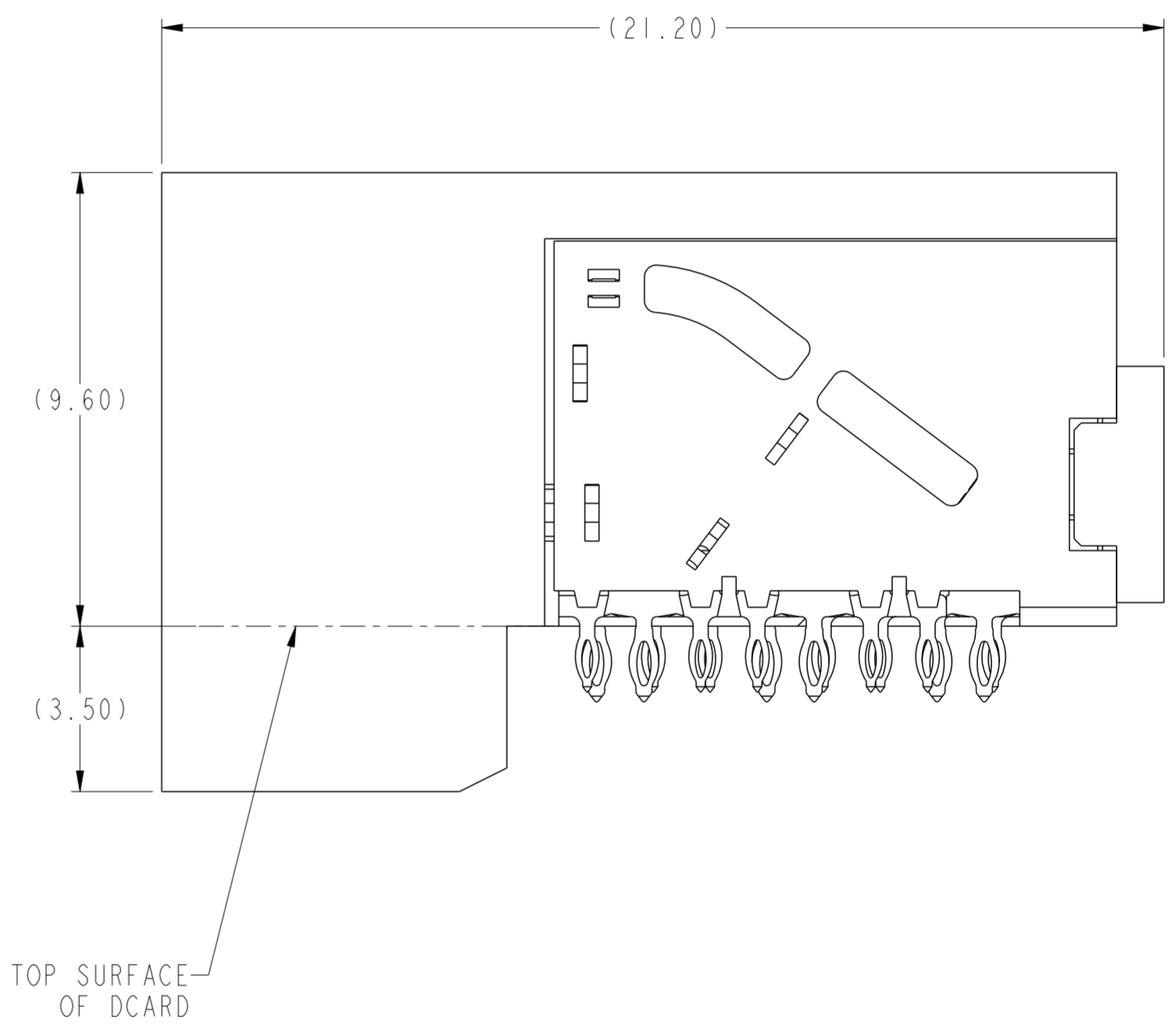
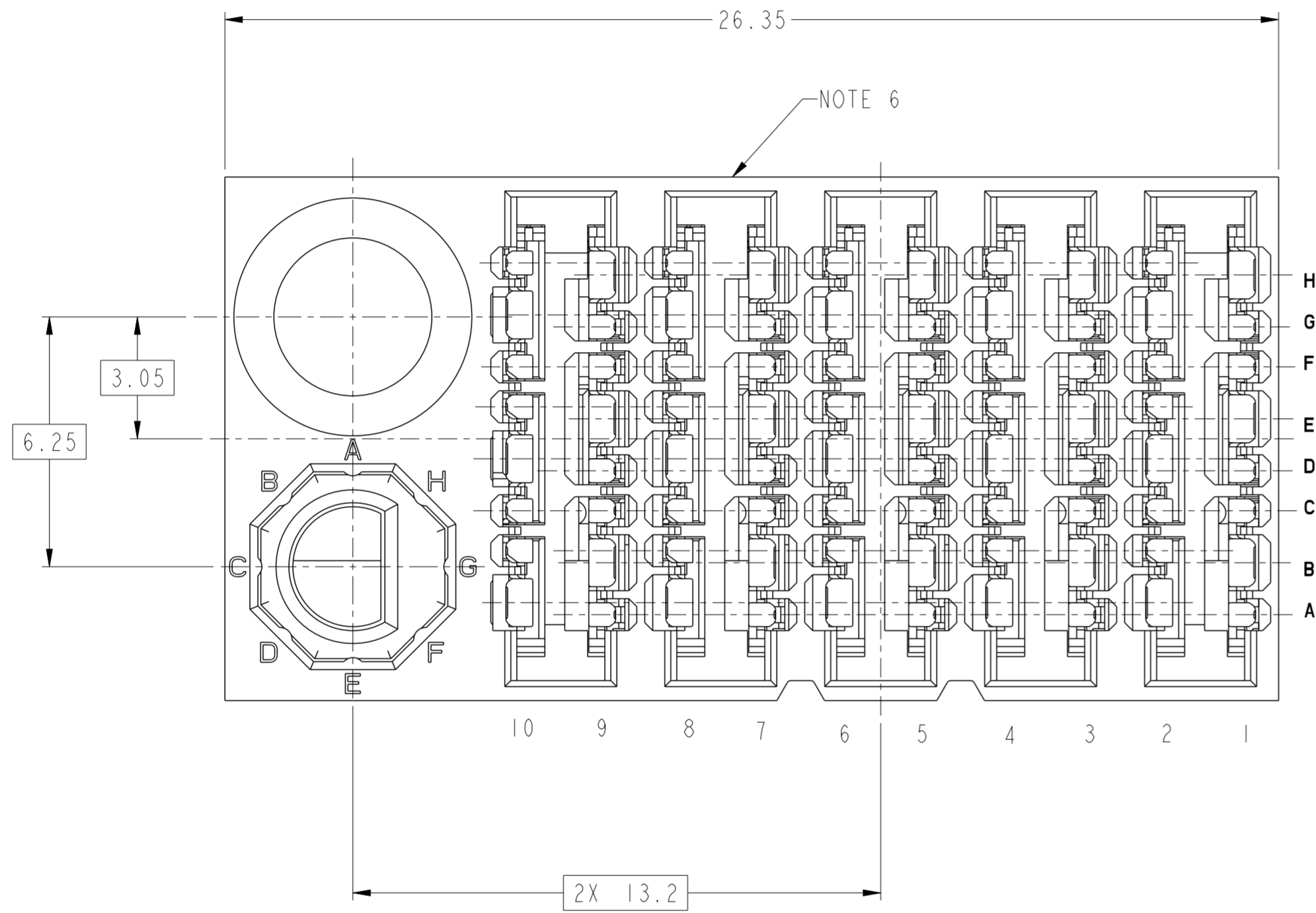
spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	10:1	
tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/20			ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20							
		appr	Pai-Ming Zheng	2017/01/20							
surface	-	linear	0.X	±.3	<b>Amphenol FCi</b>	<b>ExaMAX R.A. RECEPTACLE</b> ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM	dwg no 10124413	rev A	cat. no. SEE TABLE	Product - Customer Drw	sheet 7 of 10
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±°							

PDS: Rev :A

STATUS:Released

Printed: Jan 20, 2017

1 2 3 4 5 6 7 8



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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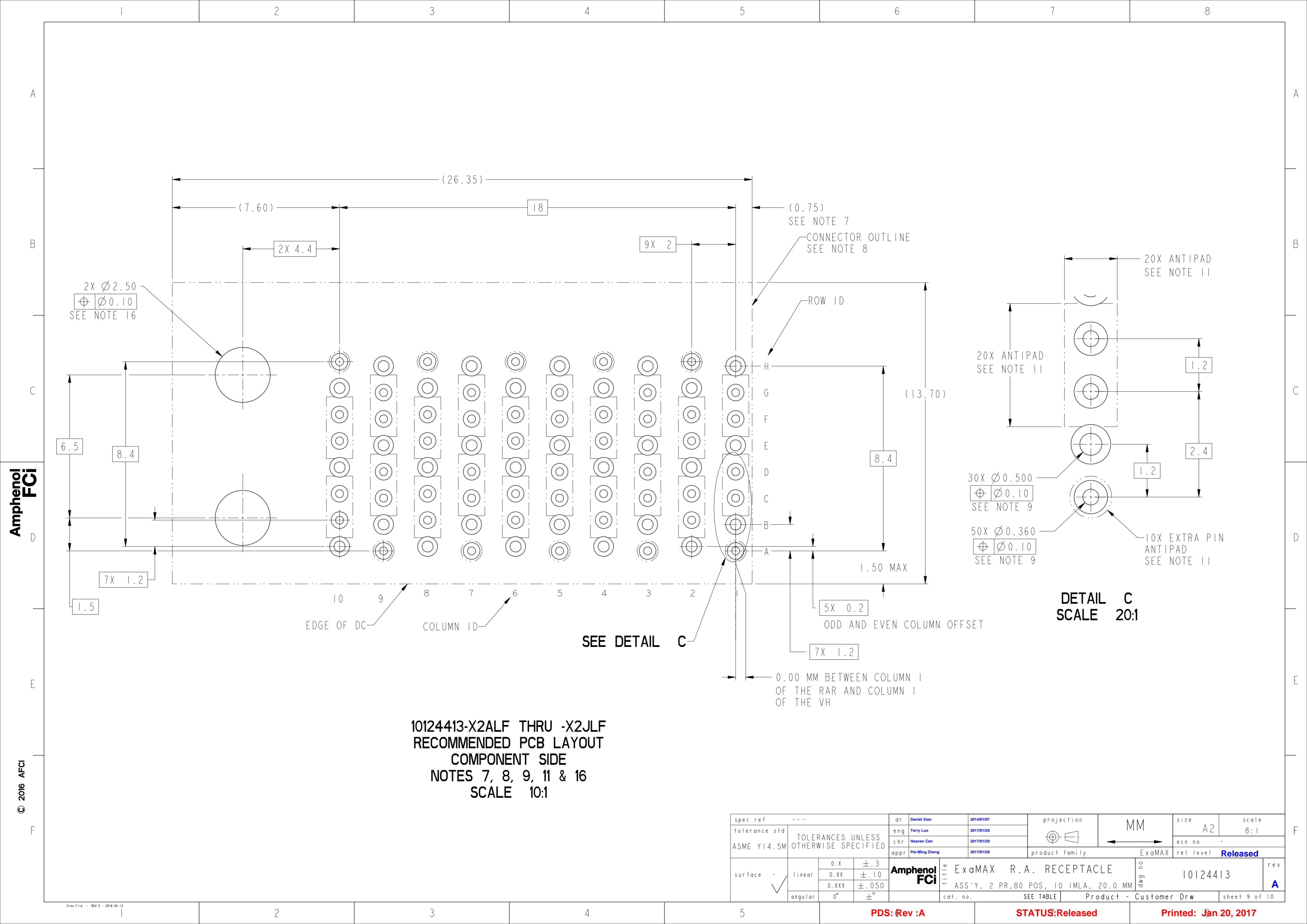
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tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/20			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20						
surface	-	appr	Pai-Ming Zheng	2017/01/20	product family	ExaMAX	rel level	Released	rev	A
	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE		dwg no	10124413
		0.XX	±.10		ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		cat. no.	-	Product - Customer Drw	sheet 8 of 10
	angular	0°	±°							

PDS: Rev :A

STATUS:Released

Printed: Jan 20, 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	Terry Luo	2017/01/20			ecn no	-	rel level	Released		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20								
		appr	Pai-Ming Zheng	2017/01/20								
surface	-	product family	ExaMAX			title	ExaMAX R.A. RECEPTACLE		dwg no	10124413	rev	A
linear	0.X ±.3 0.XX ±.10 0.XXX ±.050	Amphenol FCi	ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM			cat. no.	SEE TABLE	Product - Customer Drw	sheet 9 of 10			
angular	0° ±°											

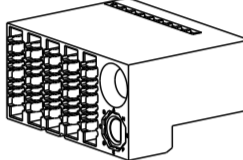
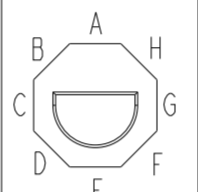
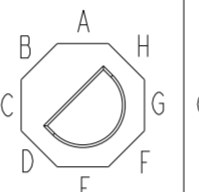
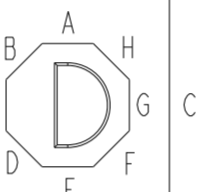
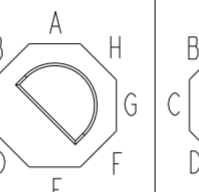
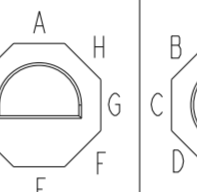
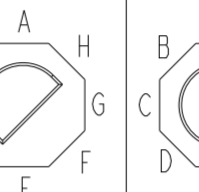
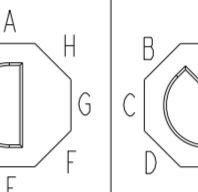
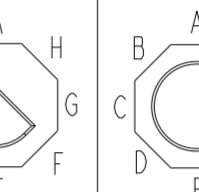
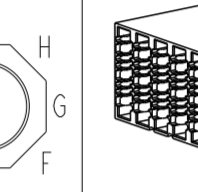
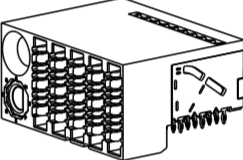
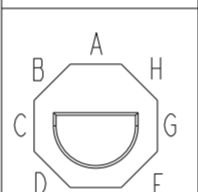
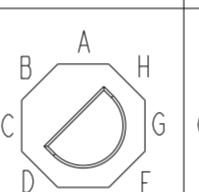
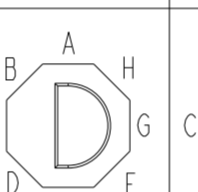
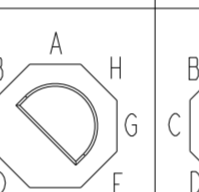
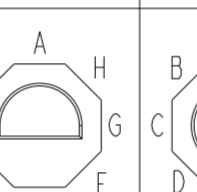
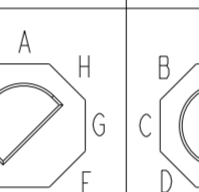
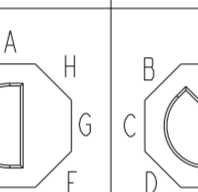
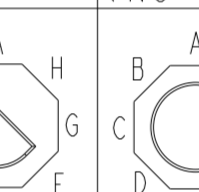
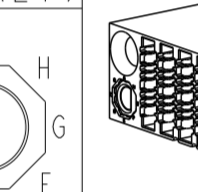
**PDS: Rev :A**

**STATUS:Released**

**Printed: Jan 20, 2017**

10124413 - Y Y Y L F

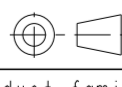

ASSEMBLY PART NUMBER	DESCRIPTION
10124413-1YYLF	STANDARD MATE
10124413-2YYLF	ADVANCED MATE
10124413-3YYLF	SHORT DETECT
10124413-4YYLF	ADVANCED MATE & SHORT DETECT

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 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, 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.

spec ref	---	dr	Daniel Xiao	2014/01/07	projection	MM	size	A2	scale	1:1	
tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/20		← →	ecn no	-	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Heaven Cen	2017/01/20							product family
surface	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE		10124413	rev	A
		0.XX	±.10		+ title		ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM				
	angular	0°	±°		cat. no.		SEE TABLE				
					Product - Customer Drw		sheet 10 of 10				