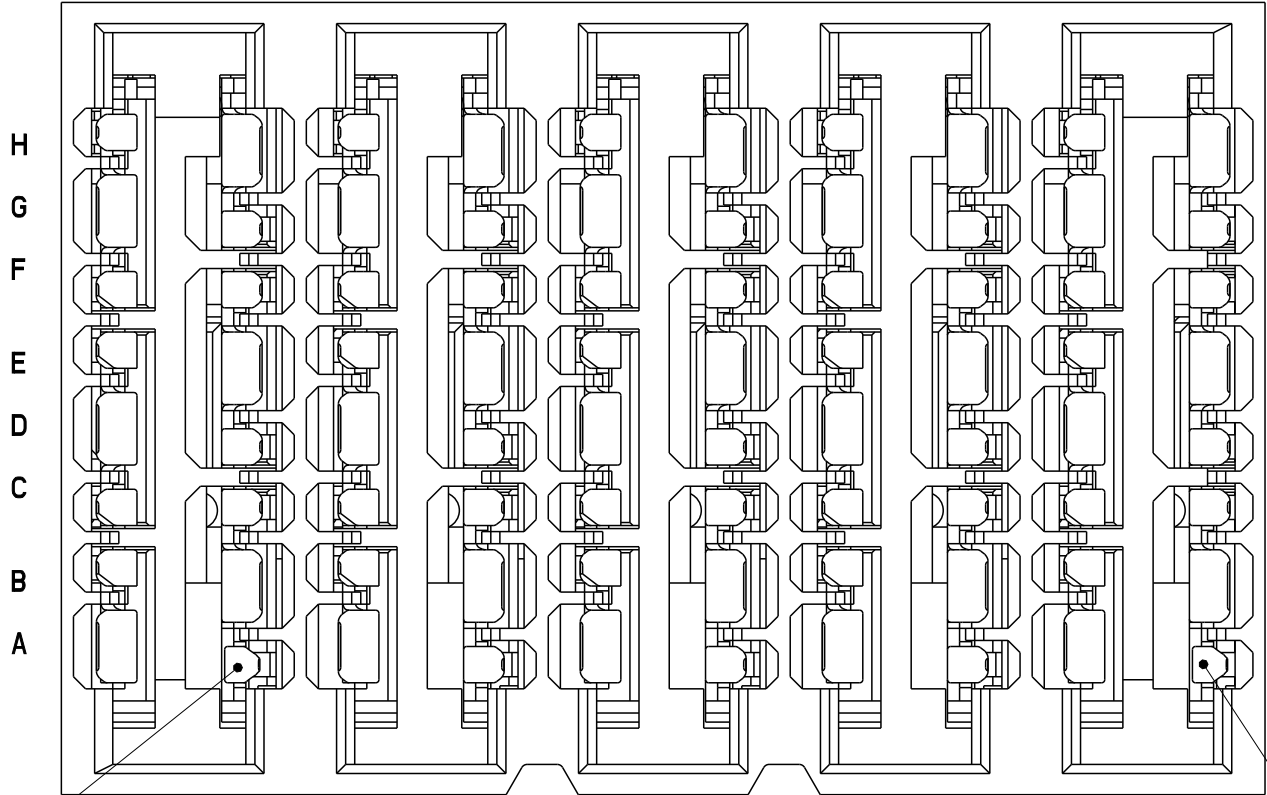


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ADVANCED MATE
POSITION A9
SEE NOTE 13

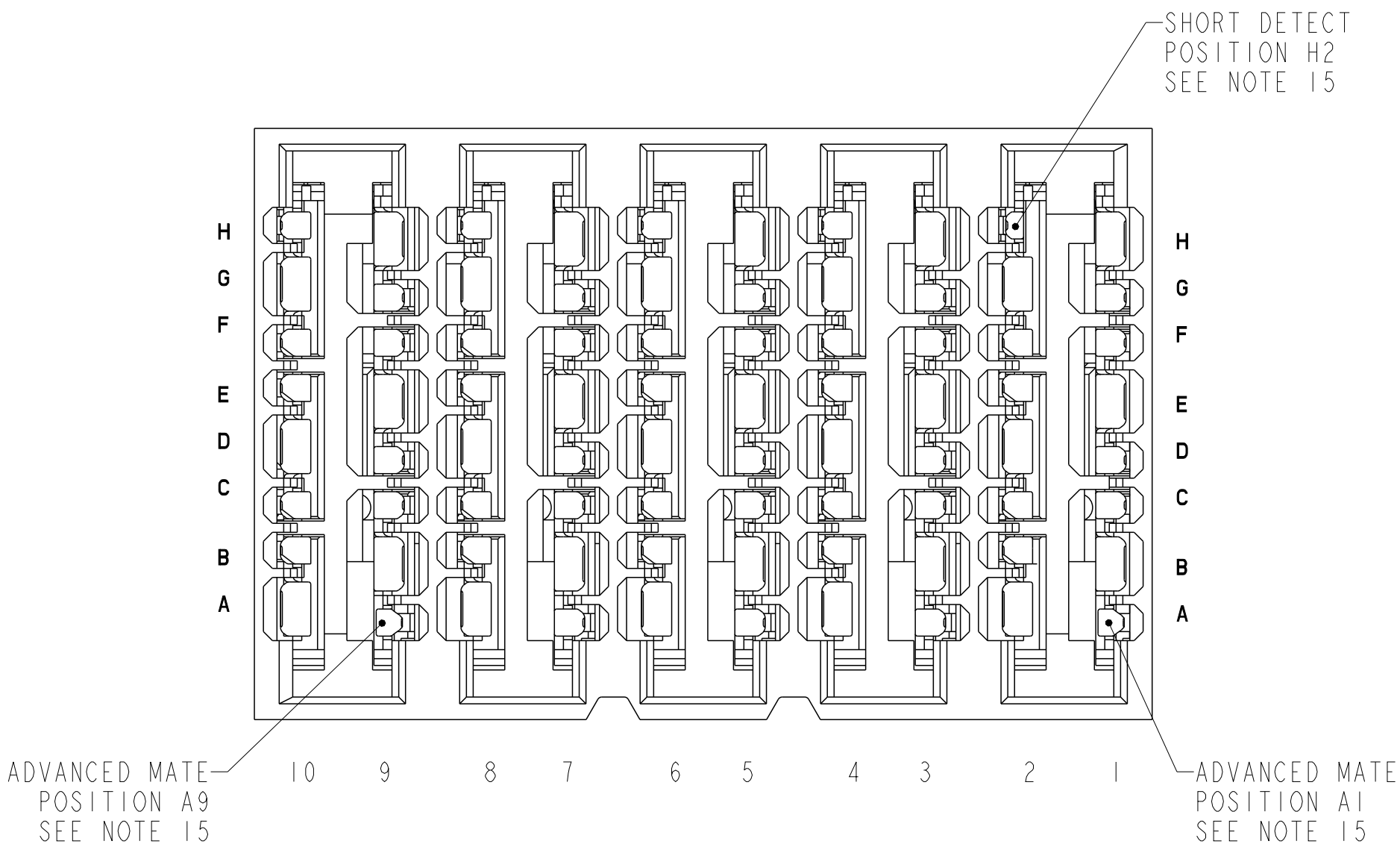
ADVANCED MATE
POSITION A1
SEE NOTE 13

10124413-201YLF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
FOR ALL DIMENSIONS SEE 10124413-101YLF ON SHEET 1

spec ref		---		dr		Daniel Xiao		2014/02/07		projection		MM		size		A2		scale		8:1	
tolerance std		ASME Y14.5M		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2020/01/09				ecn no		ELX-DG-35706-1					
						chr		-		-		product family		ExaMAX		rel level		Released			
						appr		Heaven Cen		2020/04/03											
surface		-		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE		dwg no		10124413		rev	
				0.XX		±.10		ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM										C			
				0.XXX		±.050															
				angular		0°		±°		cat. no.		SEE TABLE		Product - Customer Drw		sheet 2 of 10					

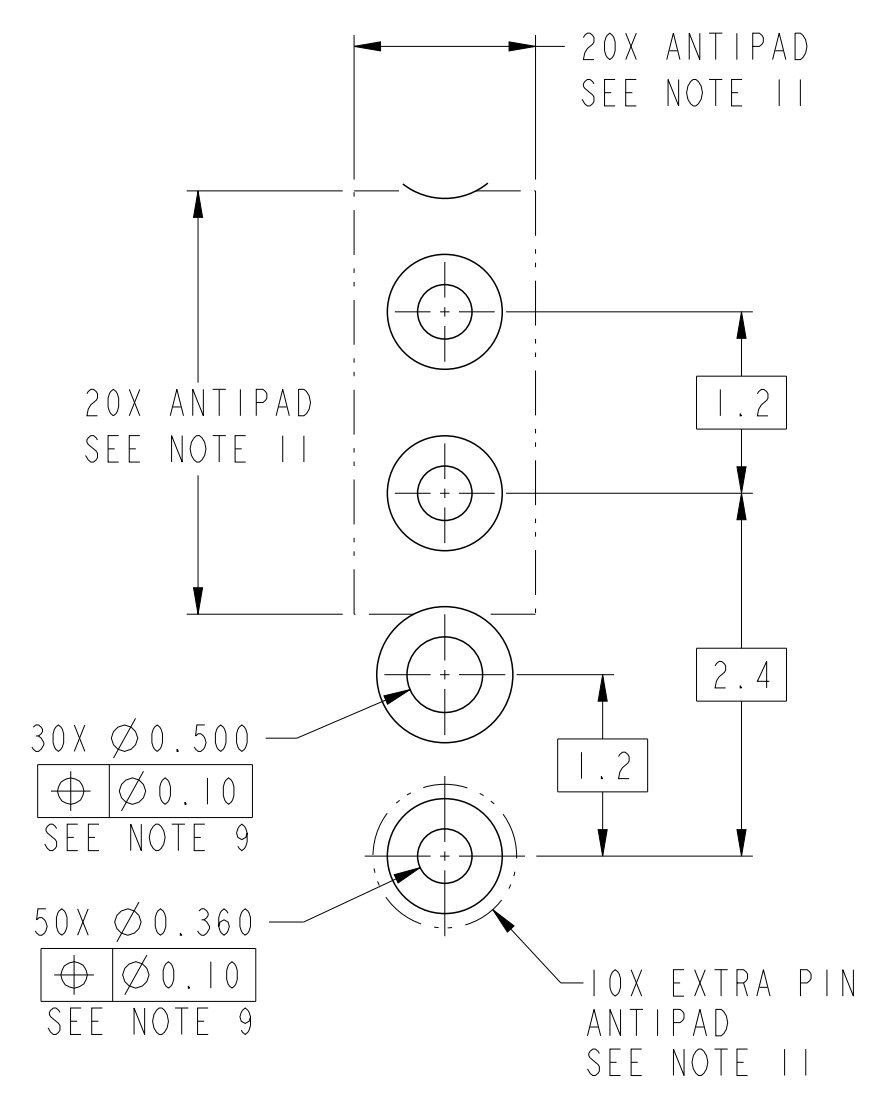
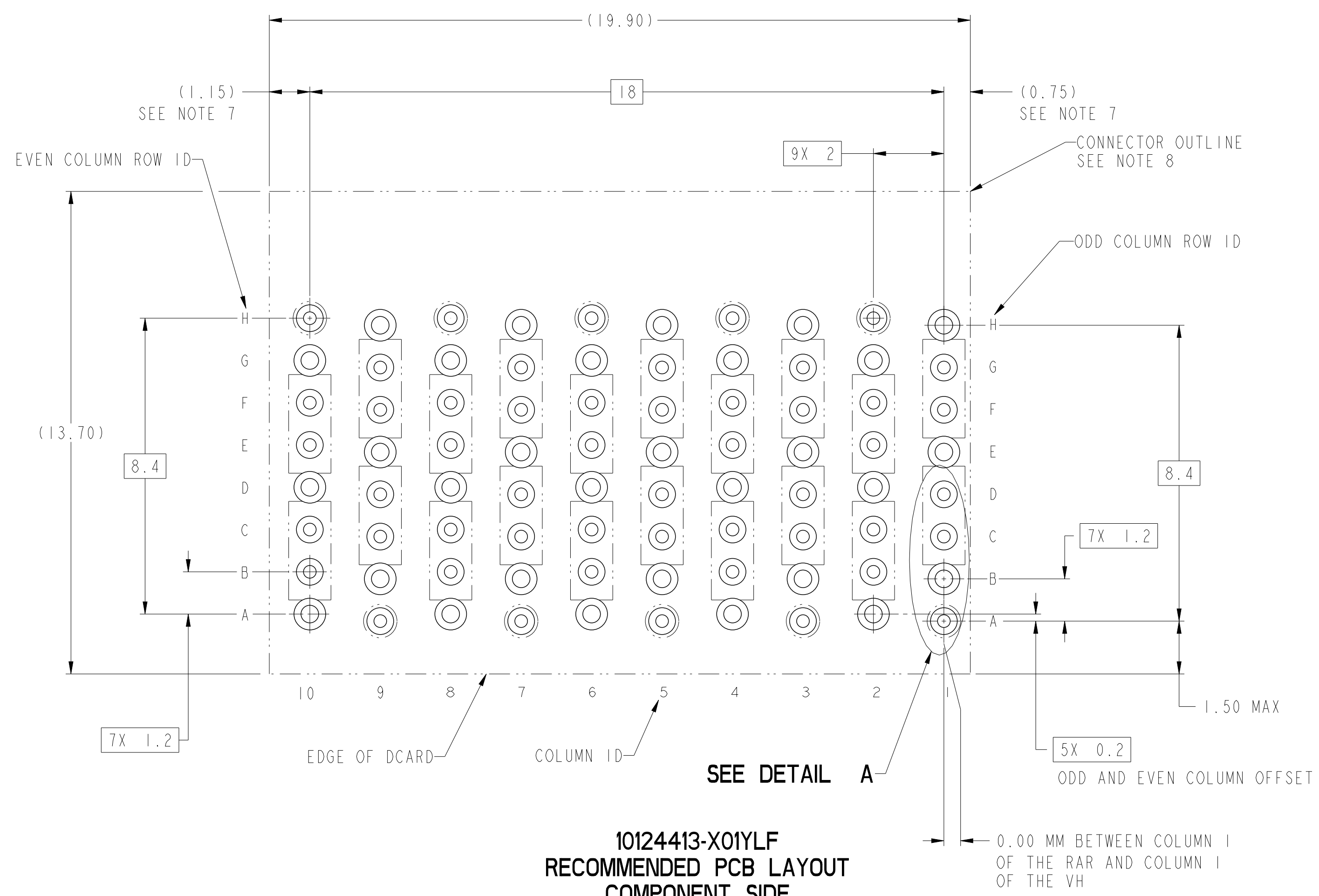
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10124413-401YLF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 AND A9 ONLY
SHORT DETECT POSITION IS H2
FOR ALL DIMENSIONS SEE 10124413-101YLF ON SHEET 1

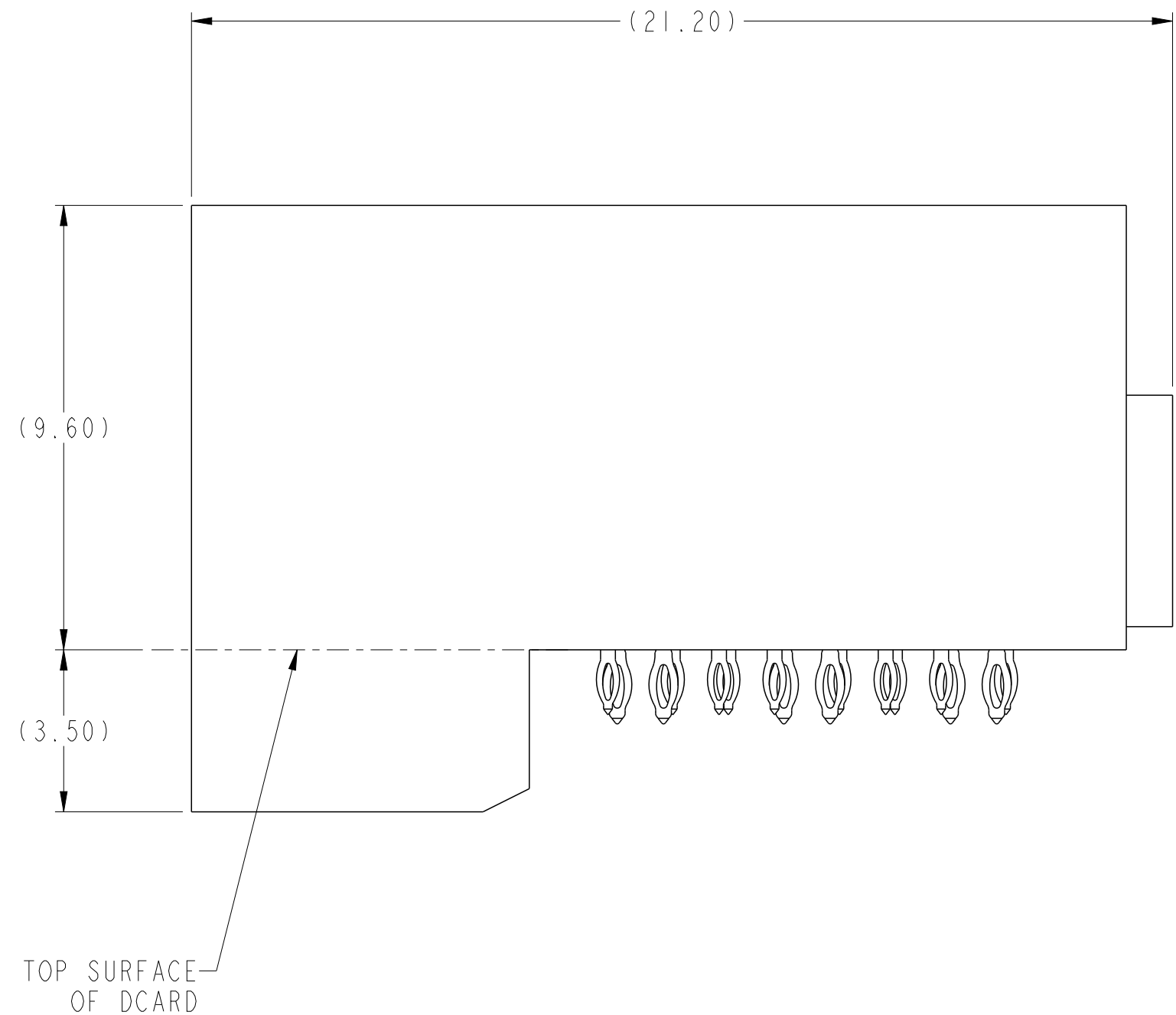
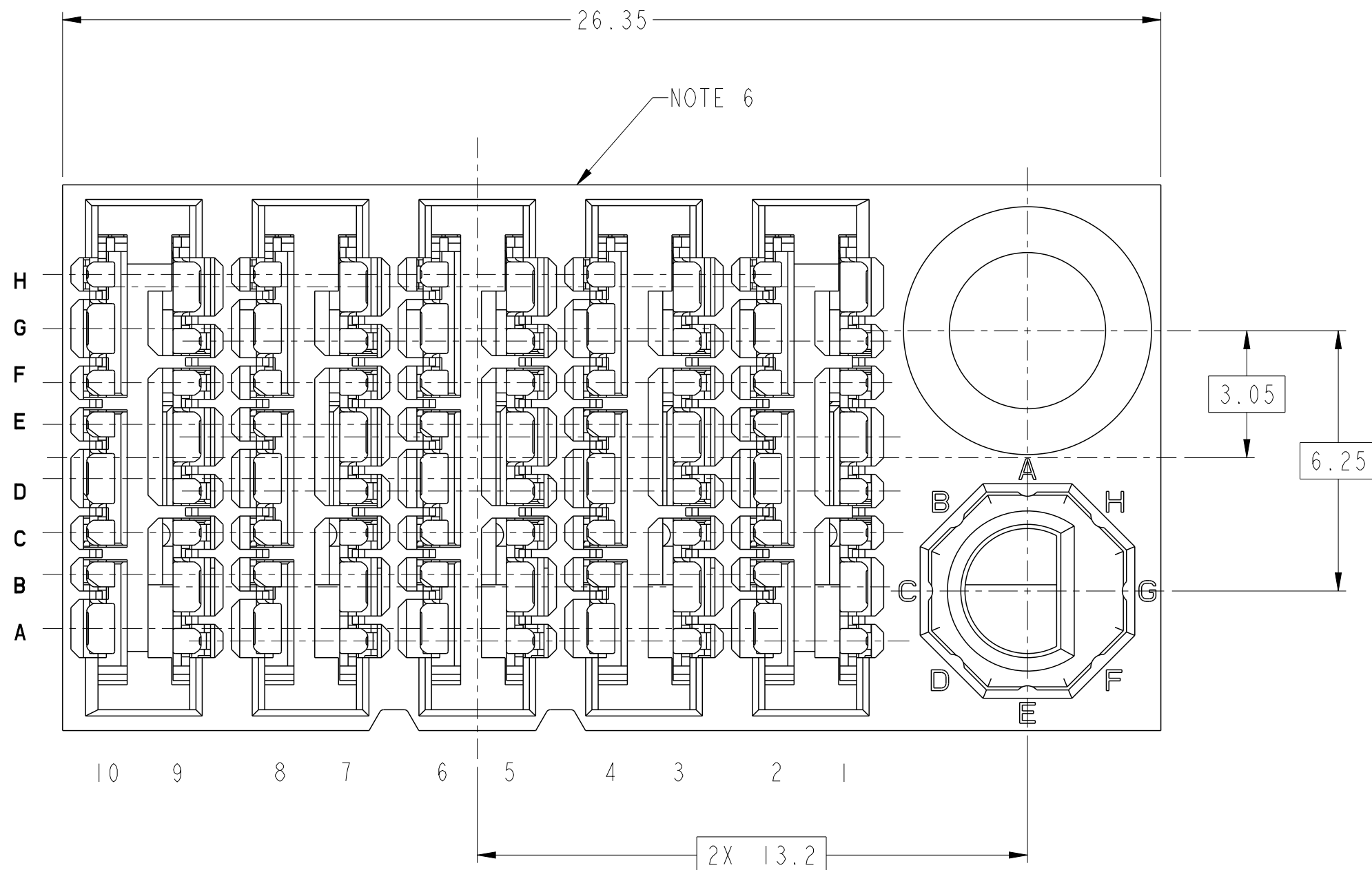
spec ref ---				dr Daniel Xiao2014/01/07		projection		MM		size A2		scale 8:1			
tolerance std				eng Peng-Bing Fu2020/01/09						ecn no		ELX-DG-35706-1			
ASME Y14.5M				TOLERANCES UNLESS OTHERWISE SPECIFIED						chr -		rel level		Released	
				appr Heaven Cen2020/04/03						product family		ExaMAX			
surface - 		linear		Amphenol FCI		title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM		dwg no		10124413		rev C			
														0.X ±.3	
														0.XX ±.10	
		0.XXX ±.050													
		angular 0° ±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 4 of 10			



DETAIL A
SCALE 20:1

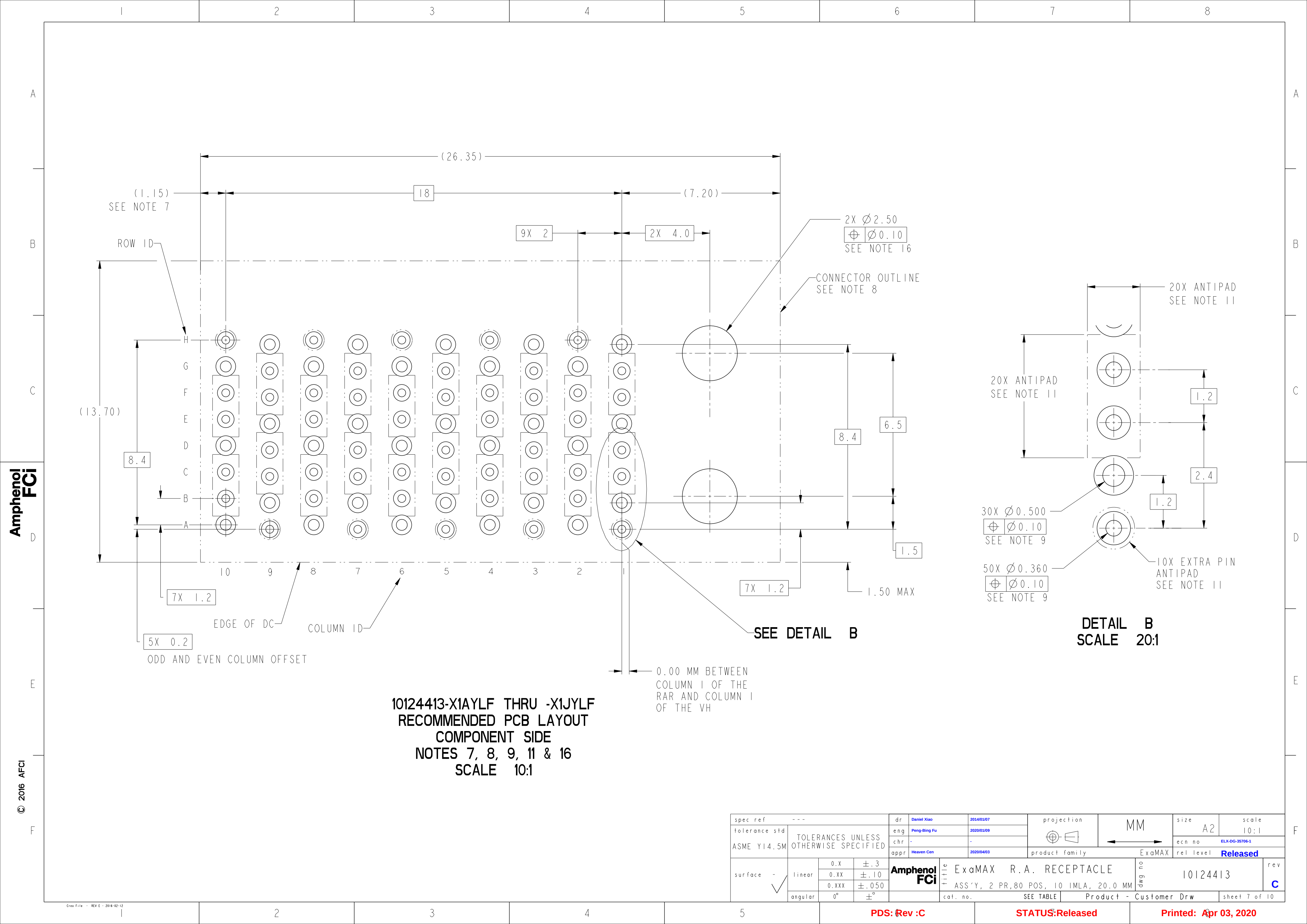
10124413-X01YLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 10:1

spec ref		---		dr		Daniel Xiao		2014/01/07		projection		MM		size		A2		scale		10:1					
tolerance std		ASME Y14.5M		eng		Peng-Bing Fu		2020/01/09						ecn no		ELX-DG-35706-1									
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		-		-		rel level						Released											
		appr		Heaven Cen		2020/04/03		product family		ExaMAX															
surface		- ✓		linear		0.X ±.3		0.XX ±.10		0.XXX ±.050		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		dwg no		10124413		rev		C	
angular		0°		±°		cat. no.		SEE TABLE		Product -		Customer Drw		sheet 5 of 10											



10124413-X1AYLF THRU 10124413-X1JYLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSIONS SEE 10124413-101YLF ON SHEET 1
SCALE 8:1

spec ref		---		dr	Daniel Xiao		2014/01/07		projection 	MM 		size	A2	scale	8:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu		2020/01/09			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	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM					dwg no	10124413		rev	C
			0.XX	±.10												
			0.XXX	±.050												
		angular	0°	±°	cat. no.		SEE TABLE		Product - Customer Drw		sheet 6 of 10					



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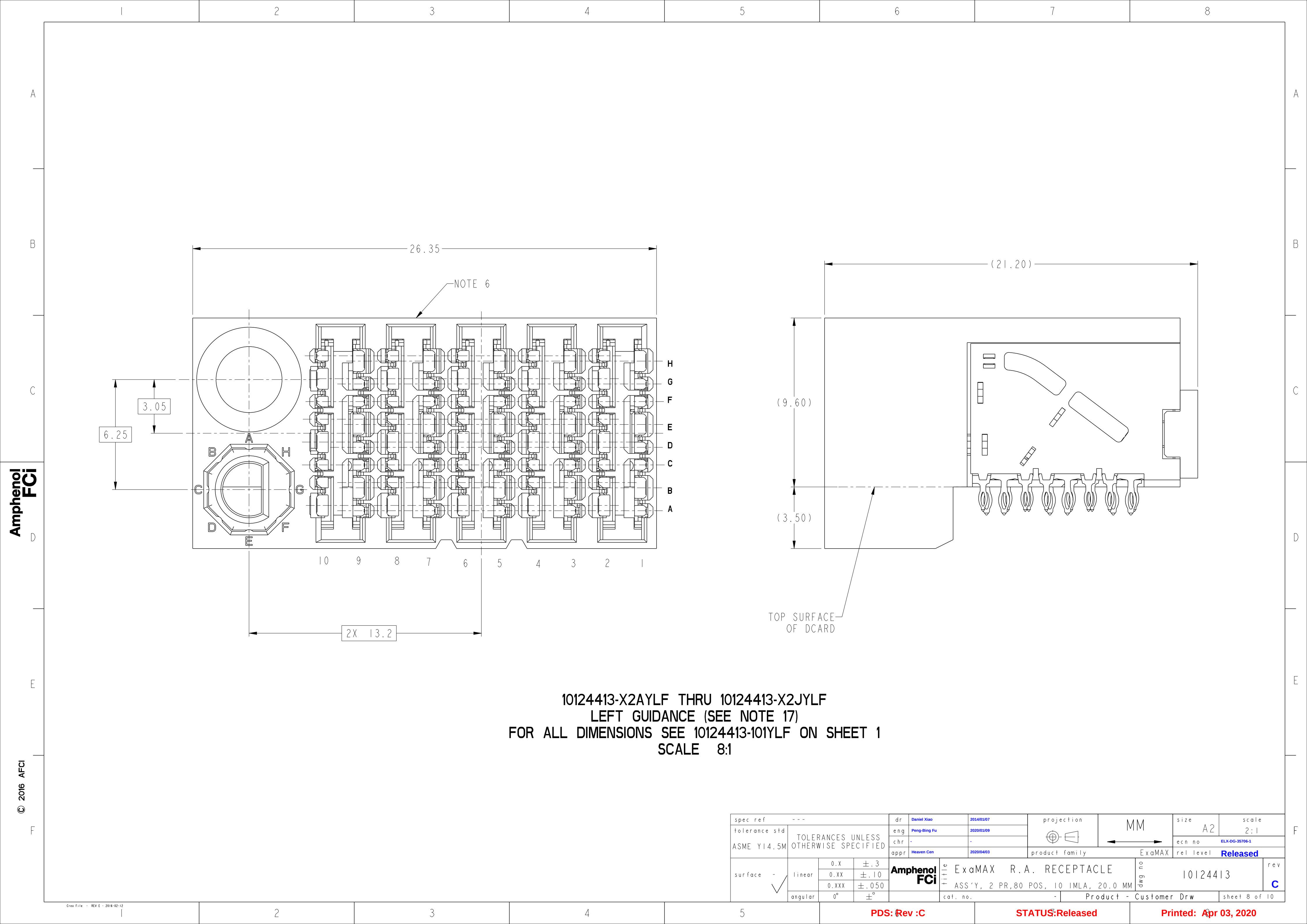
10124413-X1AYLF THRU -X1JYLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref ---				dr Daniel Xiao 2014/01/07		projection 		MM 		size A2		scale 10:1	
tolerance std ASME Y14.5M		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Peng-Bing Fu 2020/01/09				MM 		ecn no ELX-DG-35706-1			
chr - -				rel level Released									
appr Heaven Cen 2020/04/03				product family ExaMAX									
surface - 		linear		Amphenol FCI		title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM		dwg no 10124413		rev C			
		0.X ±.3											
		0.XX ±.10											
		0.XXX ±.050											
angular 0°		±°											

PDS: Rev :C

STATUS:Released

Printed: Apr 03, 2020



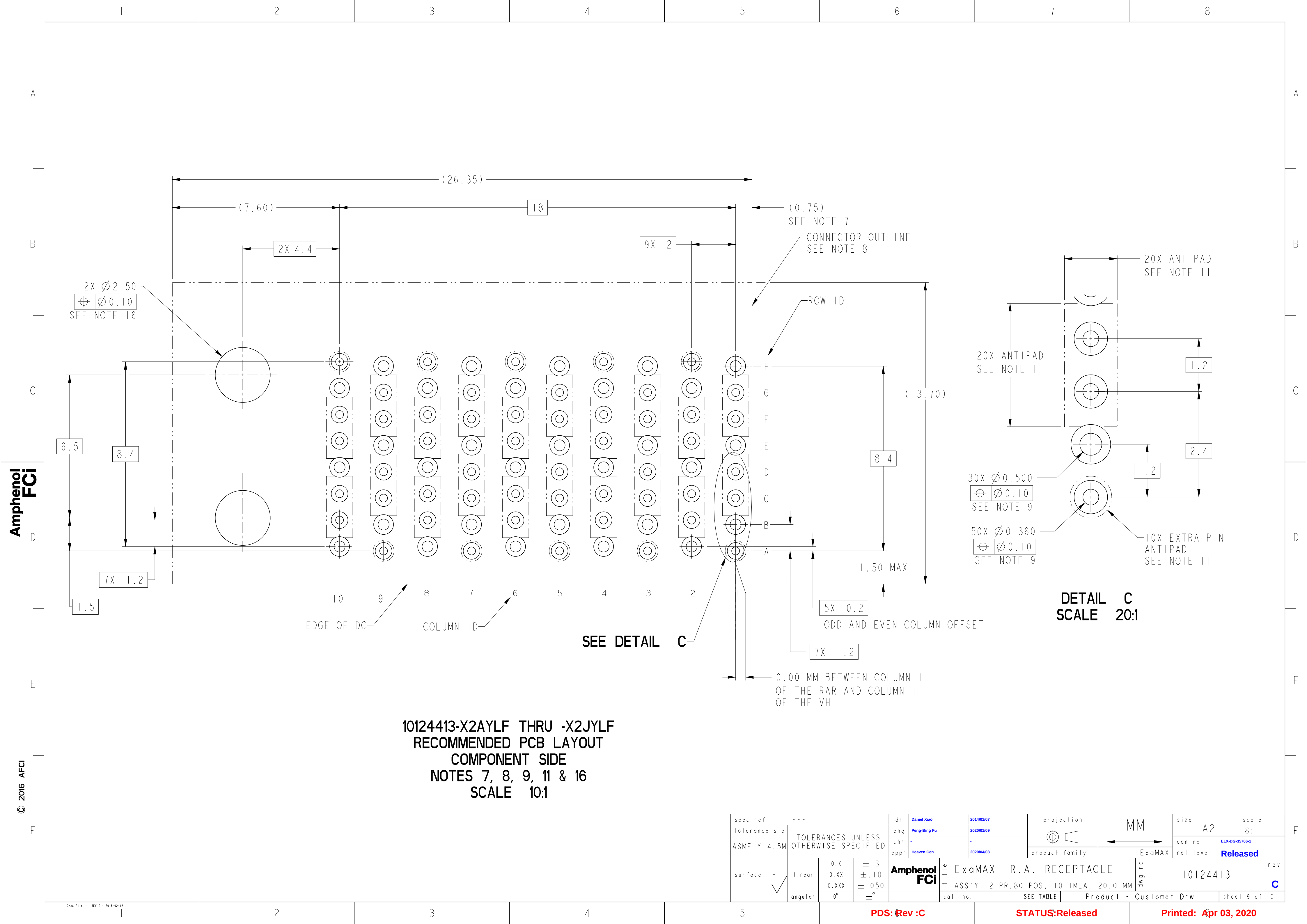
10124413-X2AYLF THRU 10124413-X2JYLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSIONS SEE 10124413-101YLF ON SHEET 1
SCALE 8:1

spec ref		---		dr	Daniel Xiao	2014/02/07	projection MM	size	A2	scale	2:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2020/01/09		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	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE		dwg no	10124413		rev	C
			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



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10124413-X2AYLF THRU -X2JYLF
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	8:1						
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu		2020/01/09				← MM →		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		Amphenol FCi		title		ExaMAX R.A. RECEPTACLE		dwg no		10124413		rev		C	
				0.XX		±.10																	
				0.XXX		±.050																	
		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 9 of 10							

PDS: Rev :C

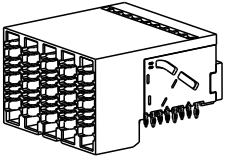
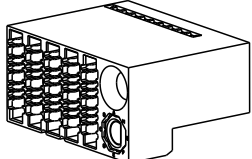
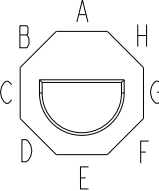
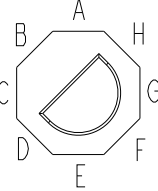
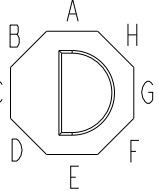
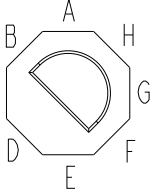
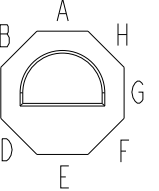
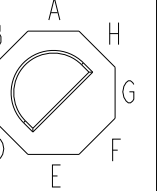
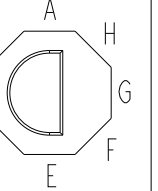
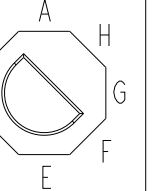
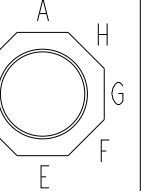
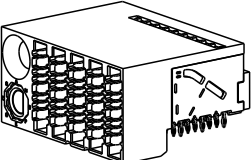
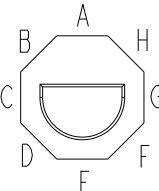
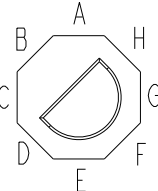
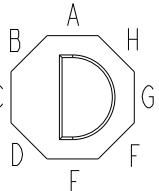
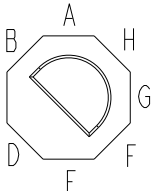
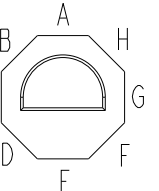
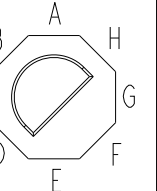
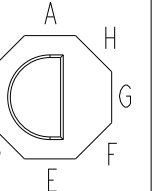
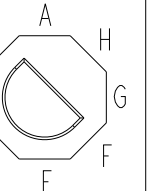
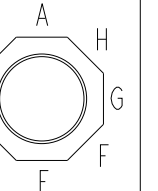
STATUS:Released

Printed: Apr 03, 2020

10124413 - Y Y Y Y L F

PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10124413-1YYYYLF	STANDARD MATE
10124413-2YYYYLF	ADVANCED MATE
10124413-3YYYYLF	SHORT DETECT
10124413-4YYYYLF	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:
-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, 10124413-2XXXXLF, 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, 10124413-3XXXXLF, 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, 10124413-4XXXXLF, 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	2014/02/07	projection	MM	size	A2	scale	1:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/01/09	chr	-	ecn no	ELX-DG-35706-1	rel level	Released
surface	-	appr	Heaven Cen	2020/04/03	product family	ExaMAX	rel level	Released	rev	C
linear	0.X 0.XX 0.XXX	±.3 ±.10 ±.050	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE	dwg no	10124413	cat. no.	SEE TABLE	Product - Customer Drw
angular	0°	±°	ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM	cat. no.	SEE TABLE	Product - Customer Drw	sheet 10 of 10			