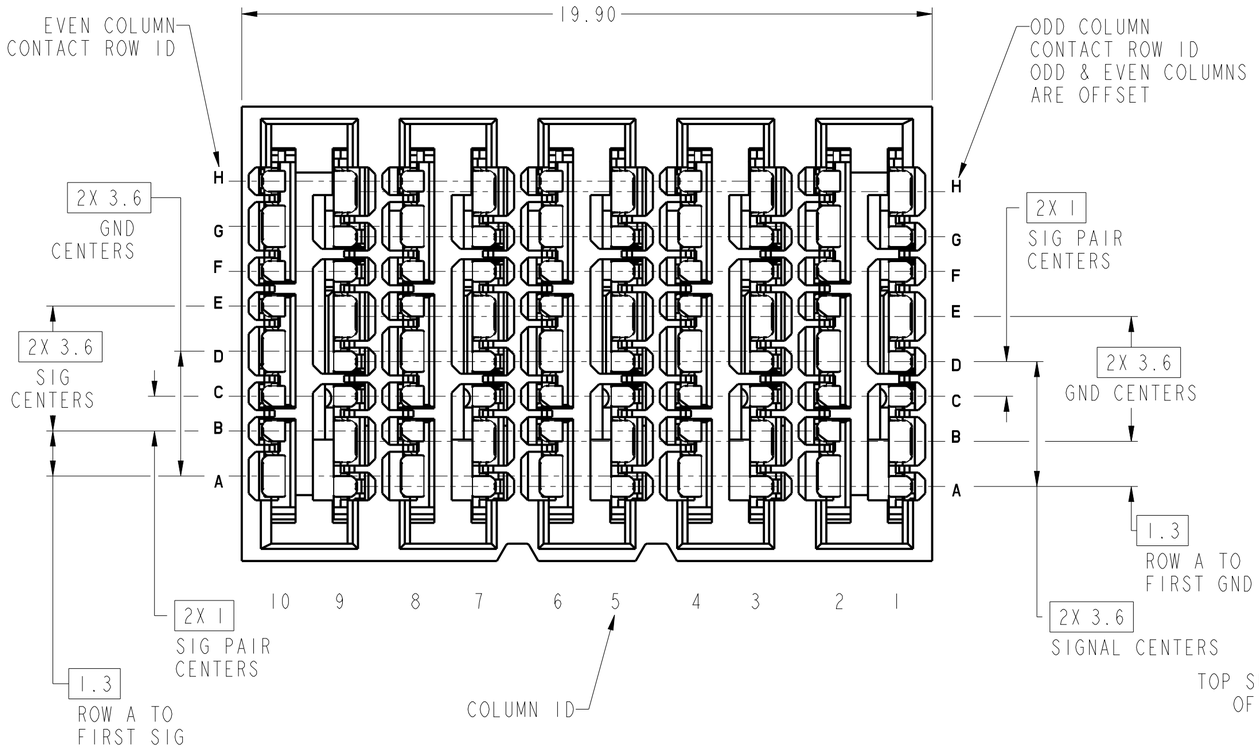
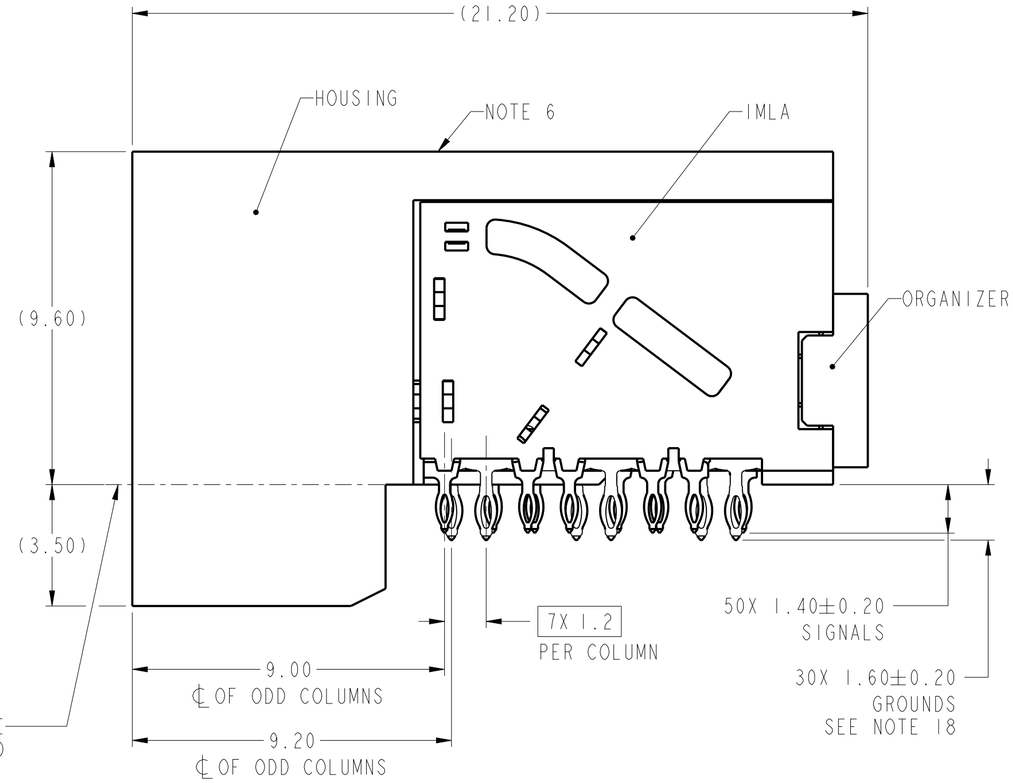
PRODUCT NUMBER
SEE TABLE





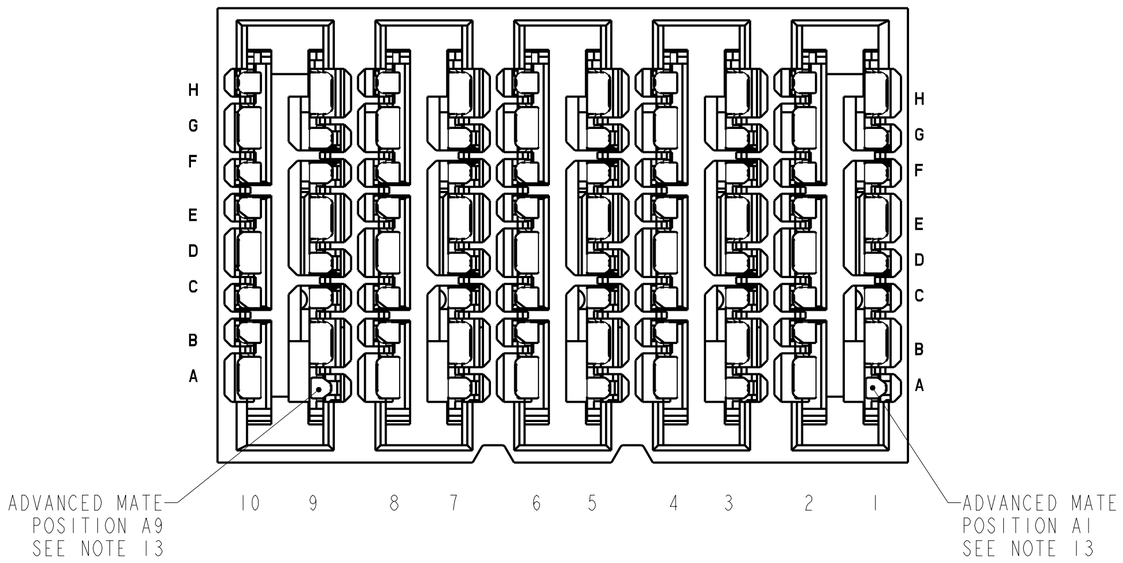
10124413-101YLF
STANDARD MATE RECEPTACLE

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spec ref	- - -		dr	Daniel Xiao	2014/01/07	projection	MM
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2025/12/10		
ASME Y14.5M			chr	-	-	size A2	scale 8:1
			appr	Heaven Cen	2026/02/06	ecn no ELX-DG-58528-1	
surface -	linear	0.X ±.3				product family ExaMAX	rel level Released
		0.XX ±.10	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM	dwg no 10124413	rev D
		0.XXX ±.050					
	angular	0° ±°		cat. no.	SEE TABLE	Product - Customer Drw	sheet 1 of 10

Creo File:ELX-WC-A2C,REV F,2020-12-21

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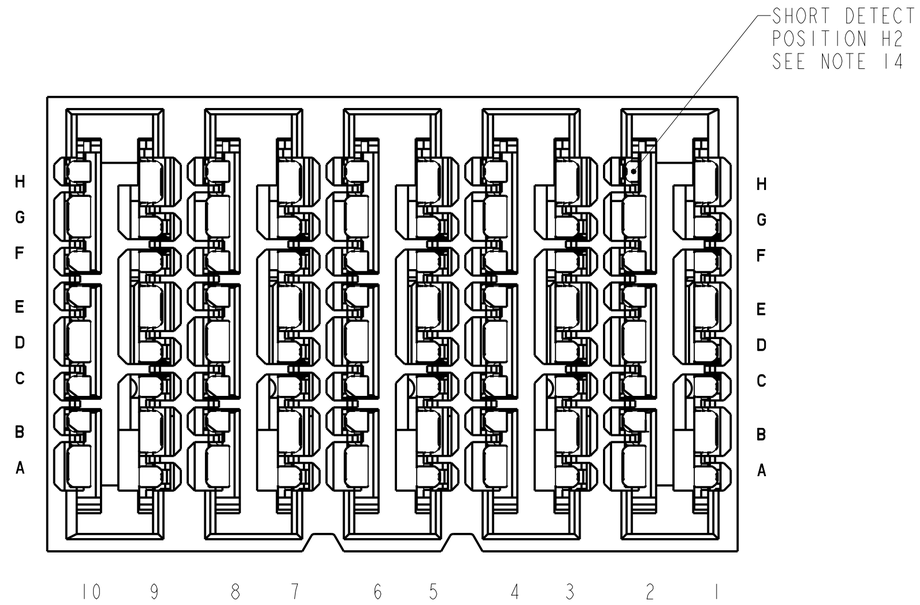


10124413-201YLF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
FOR ALL DIMENSIONS SEE 10124413-101YLF ON SHEET 1

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spec ref	---			dr	Daniel Xiao	2014/01/07	projection MM
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2025/12/10	size A2 / scale 8:1
				chr	-	-	ecn no ELX-DG-58528-1
surface -	linear	0.X	±.3	appr	Heaven Cen	2026/02/06	product family ExaMAX / rel level Released
		0.XX	±.10	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM	dwg no 10124413 / rev D
		0.XXX	±.050				
	angular	0°	±°		cat. no.	SEE TABLE	Product - Customer Drw / sheet 2 of 10

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

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spec ref	---			dr	Daniel Xiao	2014/01/07	projection
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2025/12/10	MM
				chr	-	-	
				appr	Heaven Cen	2026/02/06	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
		0.XX	±.10				
		0.XXX	±.050				
	angular	0°	±°		cat. no.	SEE TABLE	Product - Customer Drw

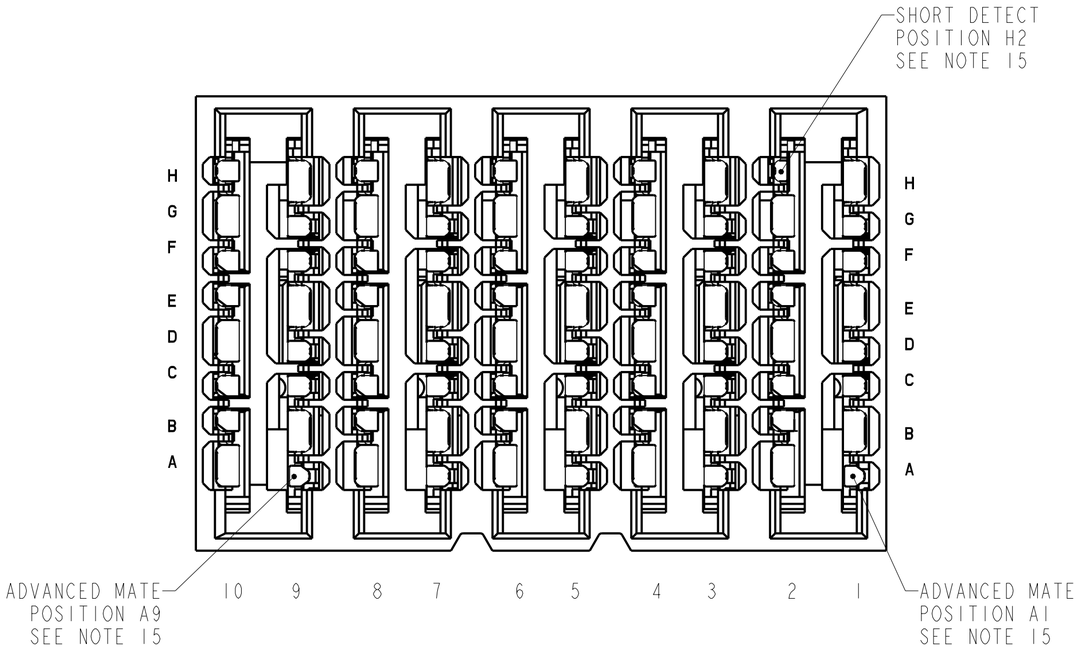
size	scale	rev
A2	10:1	D

ecn no ELX-DG-58528-1
rel level Released
sheet 3 of 10

Cree File:ELX-WC-A2C_REV F_2020-12-21

PDS: Rev :D STATUS: Released Printed: Feb 10, 2026

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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

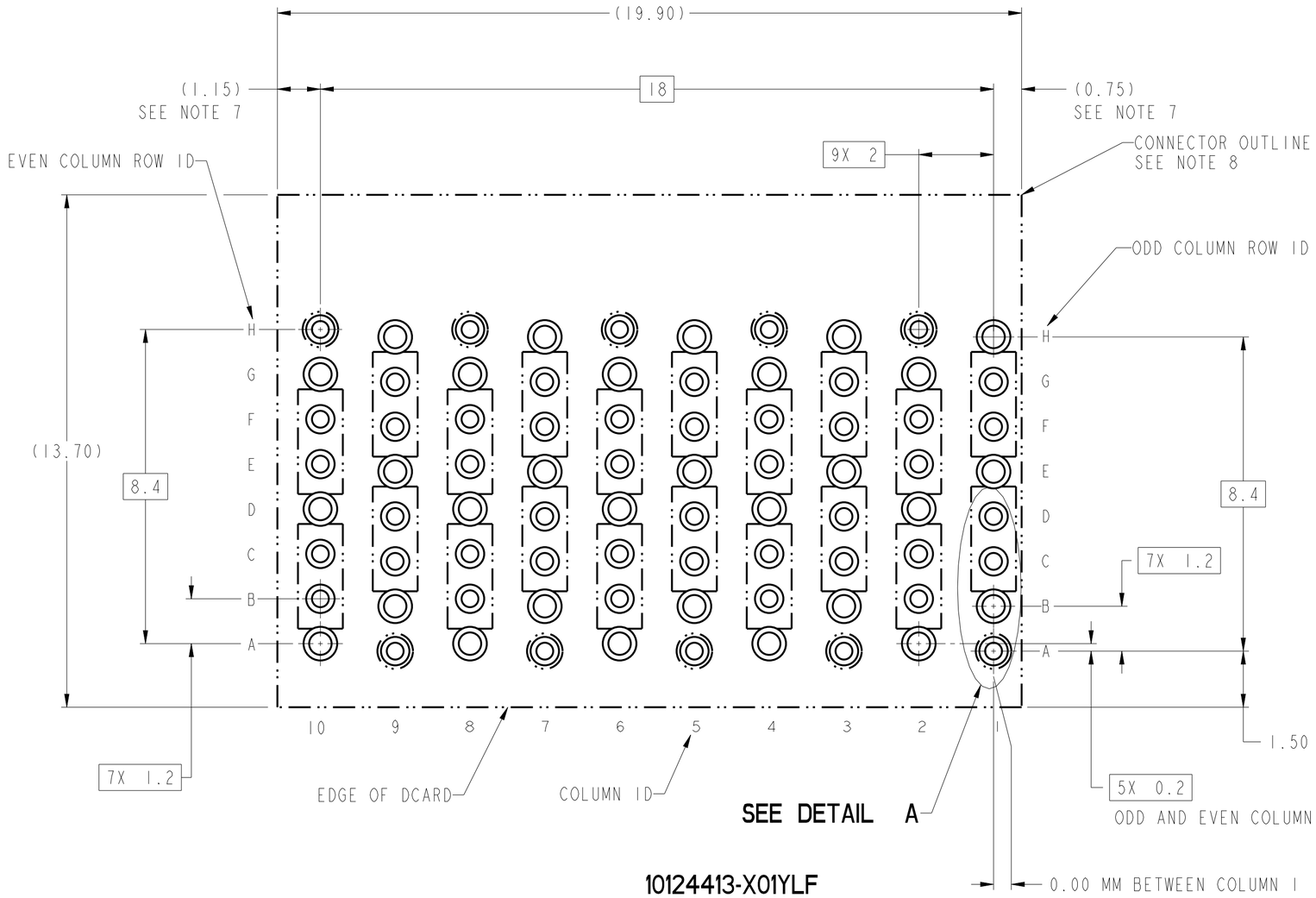
© 2020 Amphenol Corporation

spec ref	- - -			dr	Daniel Xiao	2014/01/07	projection
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2025/12/10	MM
				chr	-	-	size A2 / scale 8:1
				appr	Heaven Cen	2026/02/06	ecn no ELX-DG-S8528-1
surface -	linear	0.X	±.3	Amphenol FCi	title: ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM		product family ExaMAX / rel level Released
		0.XX	±.10				dwg no 10124413 / rev D
		0.XXX	±.050				
	angular	0°	±°		cat. no. SEE TABLE	Product - Customer Drw	sheet 4 of 10

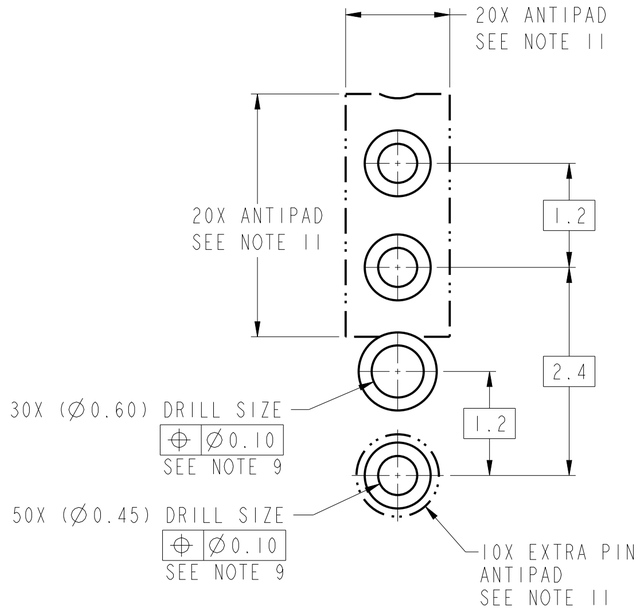
Creo File:ELX-WC-A2C,REV F,2020-12-21

PDS: Rev :D STATUS: Released Printed: Feb 10, 2026

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



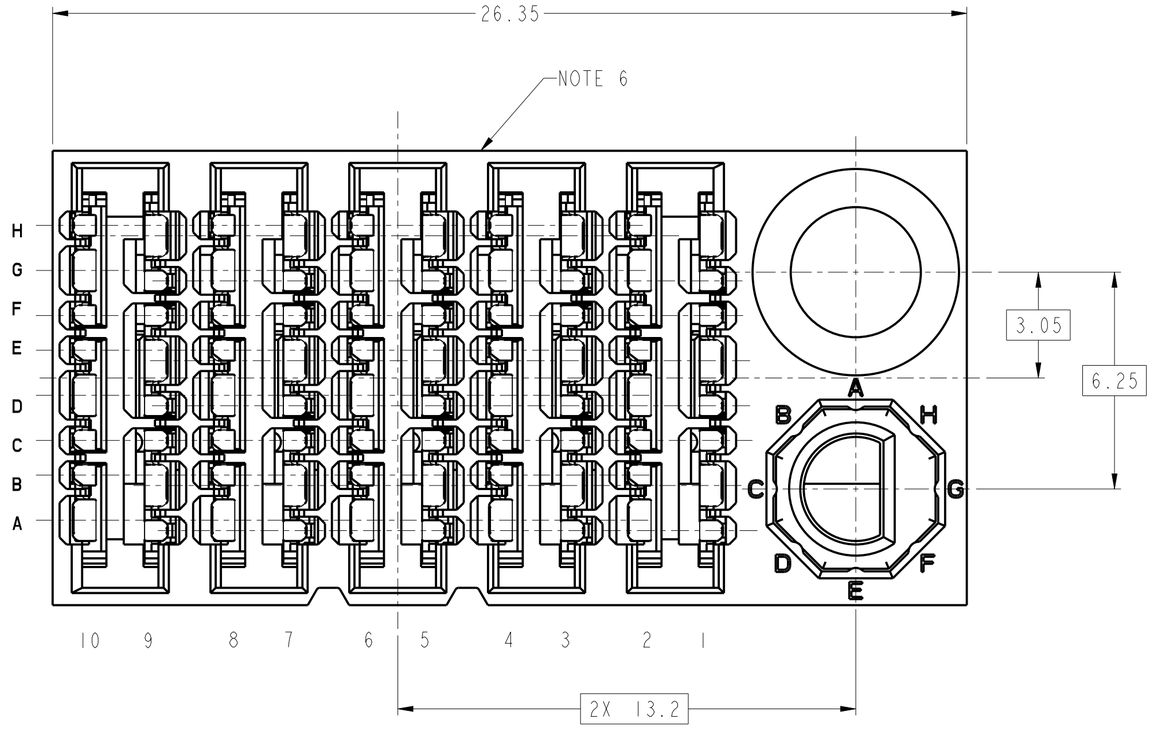
DETAIL A
SCALE 20:1

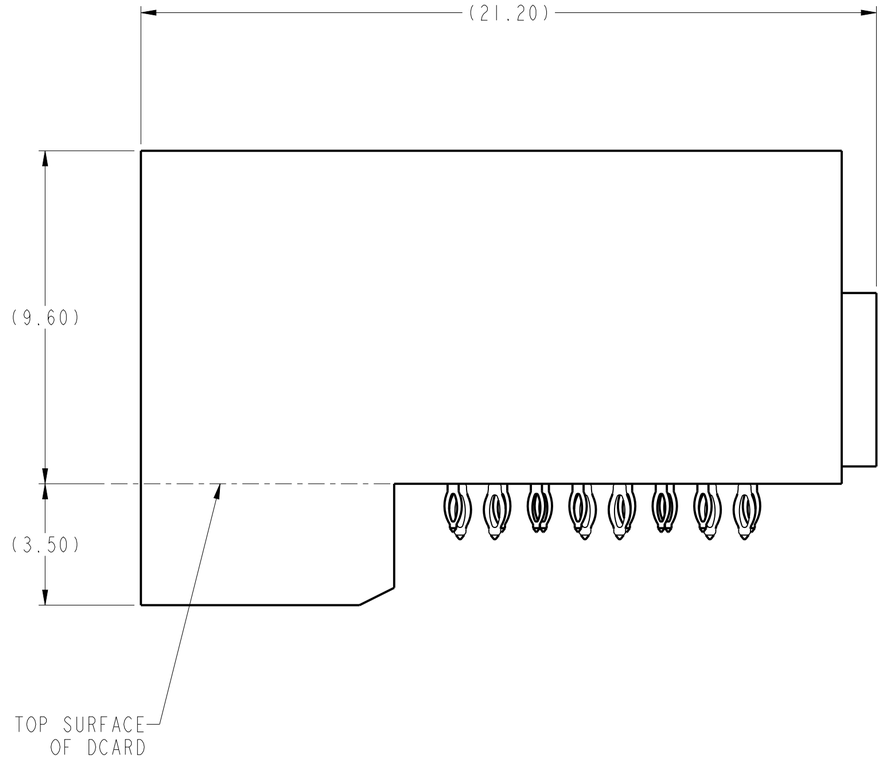
© 2020 Amphenol Corporation

spec ref	---		dr	Daniel Xiao	2014/01/07	projection	MM
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2025/12/10		
ASME Y14.5M			chr	-	-		
			appr	Heaven Cen	2026/02/06		
surface -	linear	0.X ±.3	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE	size A2	scale 10:1
		0.XX ±.10			ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM	ecn no ELX-DG-58528-1	
		0.XXX ±.050				product family ExaMAX	rel level Released
	angular	0° ±°				dwg no 10124413	rev D
					cat. no. SEE TABLE	Product - Customer Drw	sheet 5 of 10

Crea File:ELX-MC-A2C,REV F,2020-12-21

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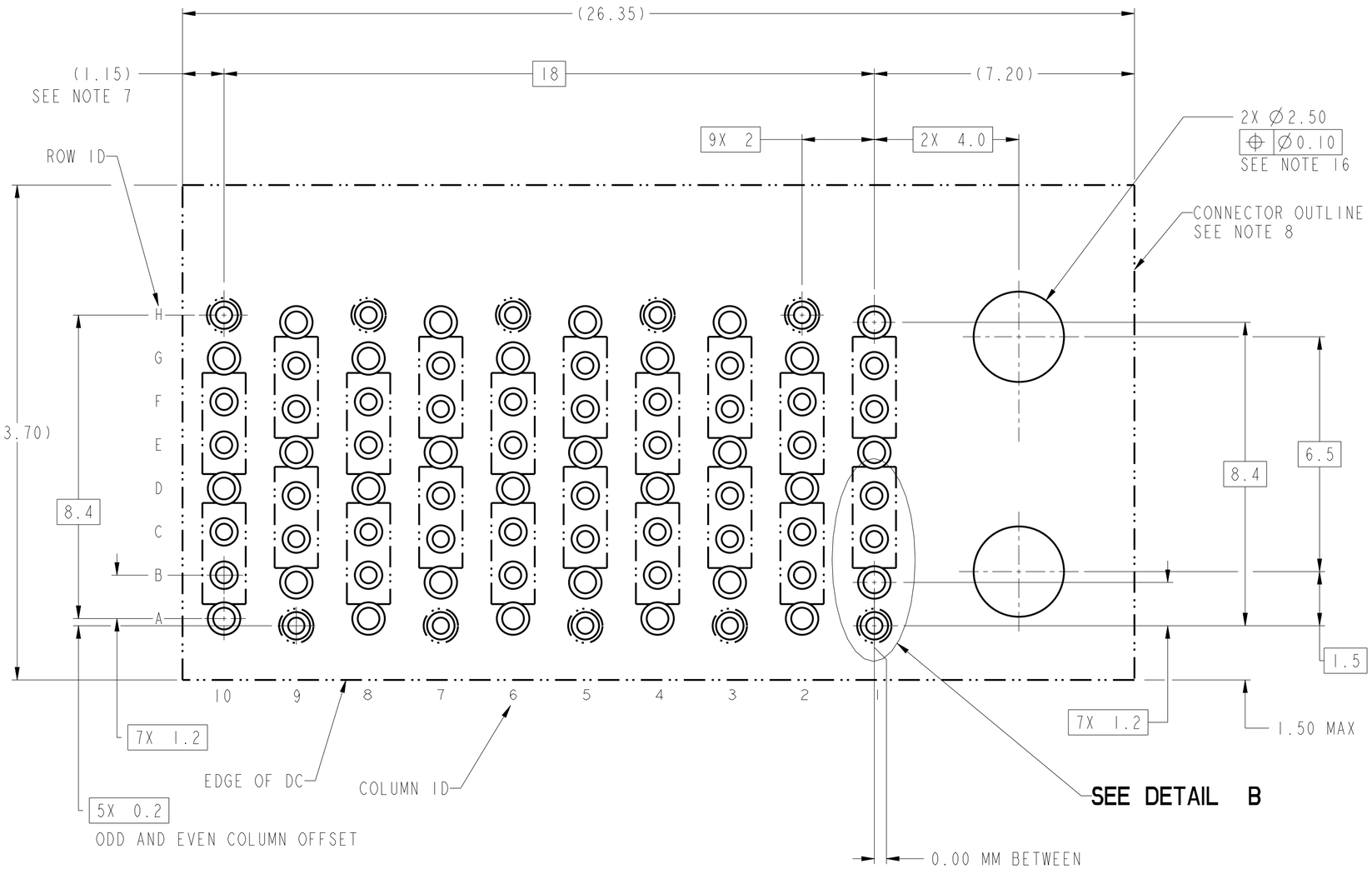
10124413-X1AYLF THRU 10124413-X1JYLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSIONS SEE 10124413-101YLF ON SHEET 1
SCALE 8:1

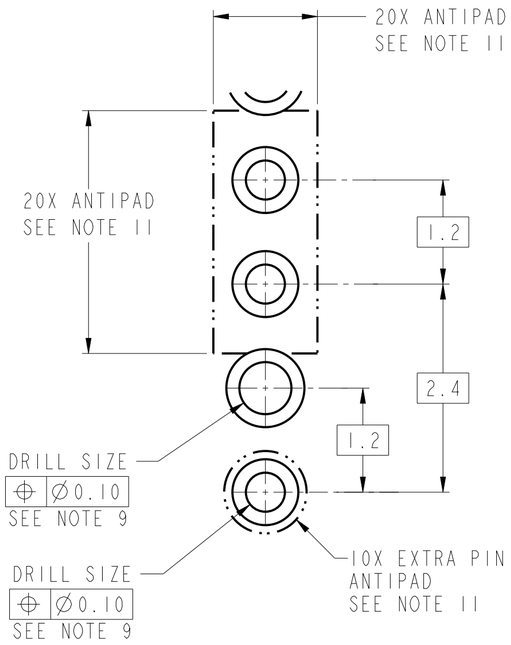
spec ref	---		dr	Daniel Xiao	2014/01/07	projection	MM
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2025/12/10		
ASME Y14.5M			chr	-	-		
			appr	Heaven Cen	2026/02/06		
surface -	linear	0.X ±.3	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE		
		0.XX ±.10			ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM		
		0.XXX ±.050		dwg no	10124413		rev D
	angular	0° ±°		cat. no.	SEE TABLE	Product - Customer Drw	

size	A2	scale	8:1						
ecn no	ELX-DG-58528-1								
rel level	Released								
product family	ExaMAX								
sheet 6 of 10									

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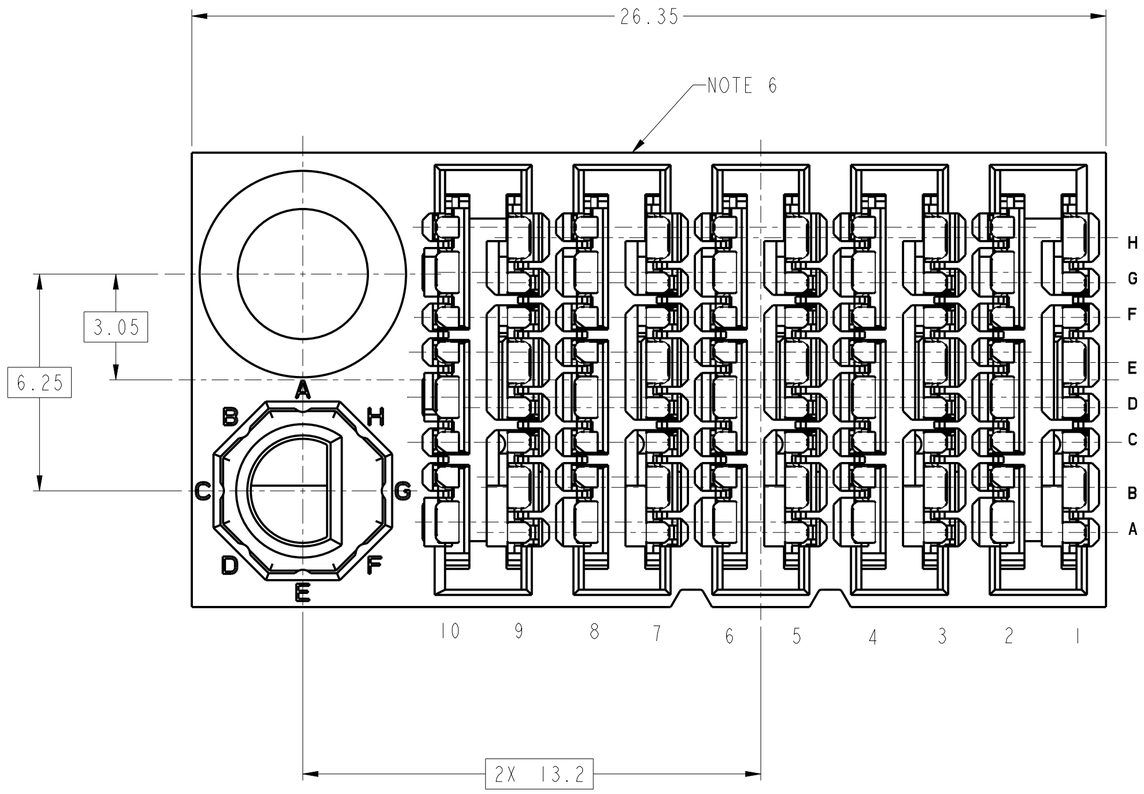
DETAIL B
SCALE 20:1

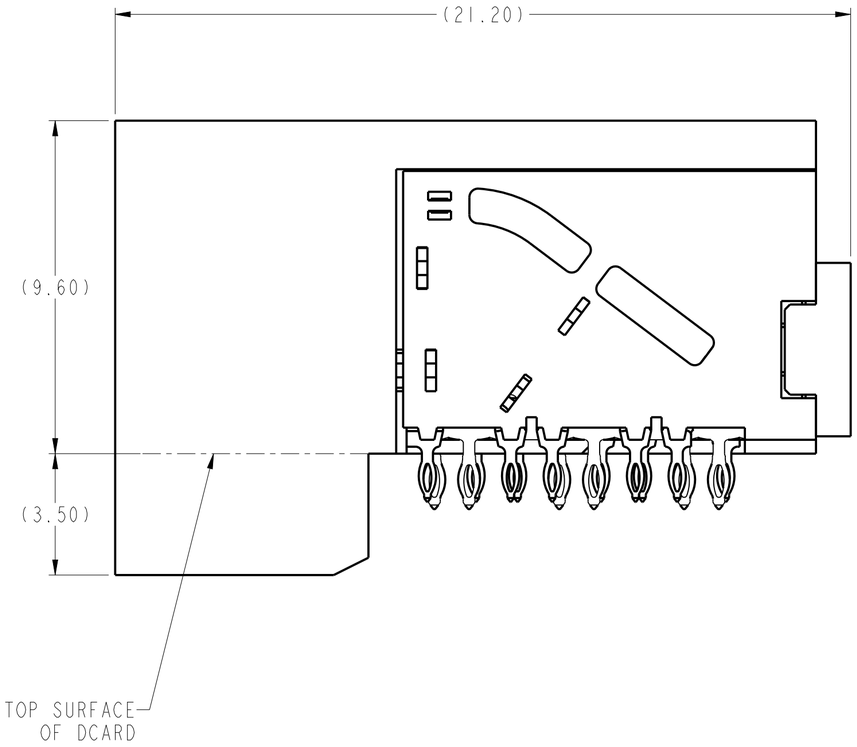
10124413-X1AYLF THRU -X1JYLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

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spec ref	- - -			dr	Daniel Xiao	2014/01/07	projection
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2025/12/10	MM
ASME Y14.5M				chr	-	-	size A2 / scale 10:1
surface -	linear	0.X	±.3	appr	Heaven Cen	2026/02/06	ecn no ELX-DG-S8528-1
		0.XX	±.10	Amphenol FCi	title: ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM		product family ExaMAX / rel level Released
		0.XXX	±.050		cat. no. SEE TABLE	Product - Customer Drw	dwg no 10124413 / rev D
	angular	0°	±°				sheet 7 of 10

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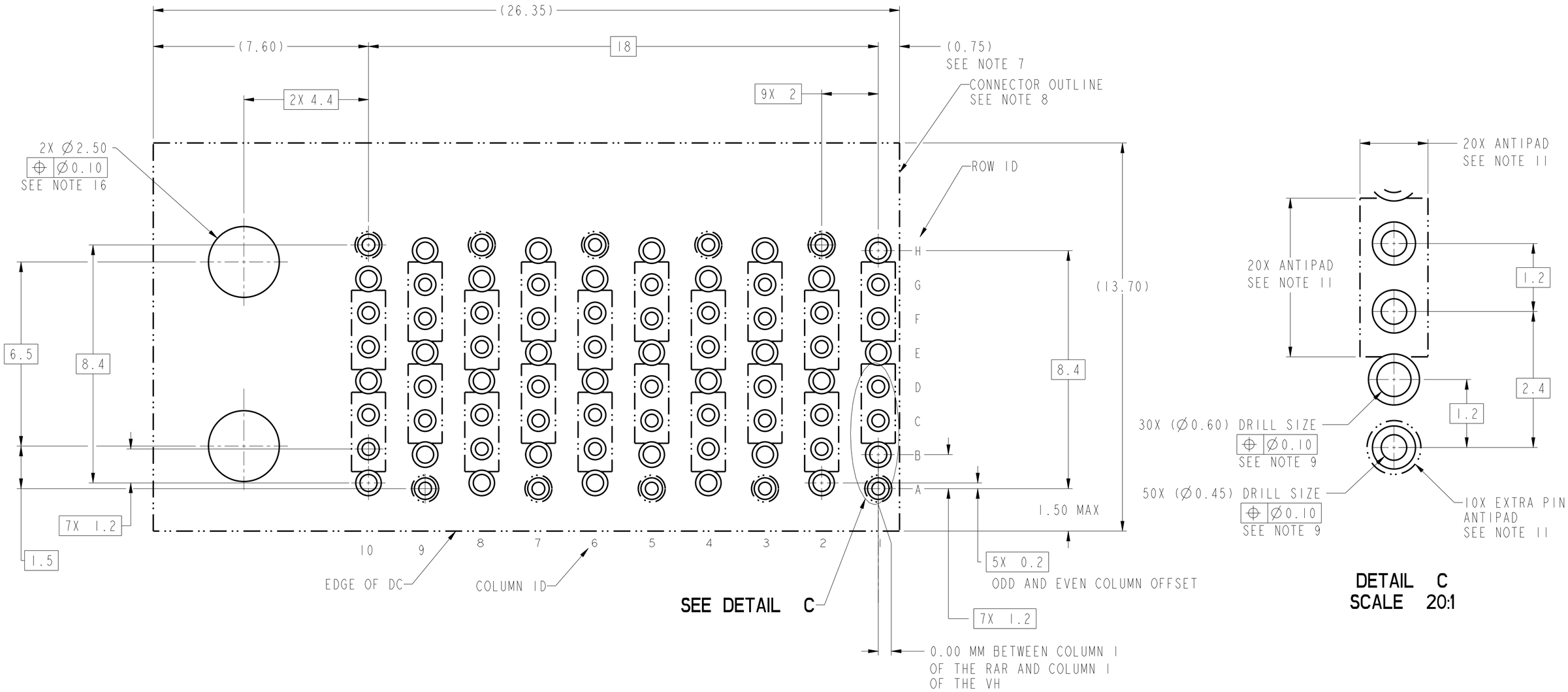
10124413-X2AYLF THRU 10124413-X2JYLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSIONS SEE 10124413-101YLF ON SHEET 1
SCALE 8:1

spec ref	---			dr	Daniel Xiao	2014/01/07	projection	MM	size A2 / scale 2:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2025/12/10			
				chr	-	-			ecn no ELX-DG-58528-1
				appr	Heaven Cen	2026/02/06	product family ExaMAX		rel level Released
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 D
		0.XX	±.10						
		0.XXX	±.050						
	angular	0°	±°		cat. no. -	Product - Customer Drw			sheet 8 of 10

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DETAIL C
SCALE 20:1

10124413-X2AYLF THRU -X2JYLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

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spec ref	- - -			dr	Daniel Xiao	2014/01/07	projection
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2025/12/10	MM
				chr	-	-	
				appr	Heaven Cen	2026/02/06	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
		0.XX	±.10				rev: D
		0.XXX	±.050				
	angular	0°	±°		cat. no. SEE TABLE	Product - Customer Drw	sheet 9 of 10

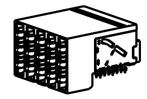
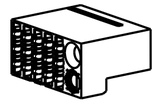
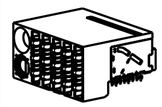
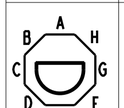
size A2 | scale 8:1 | ecn no ELX-DG-58528-1 | rel level Released

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10124413 - Y Y Y Y L F

PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10124413-1YYYLF	STANDARD MATE
10124413-2YYYLF	ADVANCED MATE
10124413-3YYYLF	SHORT DETECT
10124413-4YYYLF	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:
-YYYLF: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, 10124413-2XXXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER OR AN ADVANCED MATE RIGHT-ANGLE HEADER WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.80MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.

(14) - THE SHORT DETECT RECEPTACLE, 10124413-3XXXLF, 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, 10124413-4XXXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER OR AN ADVANCED MATE RIGHT-ANGLE HEADER WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.80MM 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.

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spec ref	---			dr	Daniel Xiao	2014/01/07	projection
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2025/12/10	MM
ASME Y14.5M				chr	-	-	size A2 / scale 1:1
				appr	Heaven Cen	2026/02/06	ecn no ELX-DG-58528-1
surface - ✓	linear	0.X	±.3	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR,80 POS, 10 IMLA, 20.0 MM	product family ExaMAX / rel level Released
		0.XX	±.10				dwg no 10124413 / rev D
		0.XXX	±.050				
	angular	0°	± °		cat. no.	SEE TABLE	Product - Customer Drw / sheet 10 of 10

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