

PRODUCT NUMBER
SEE TABLE

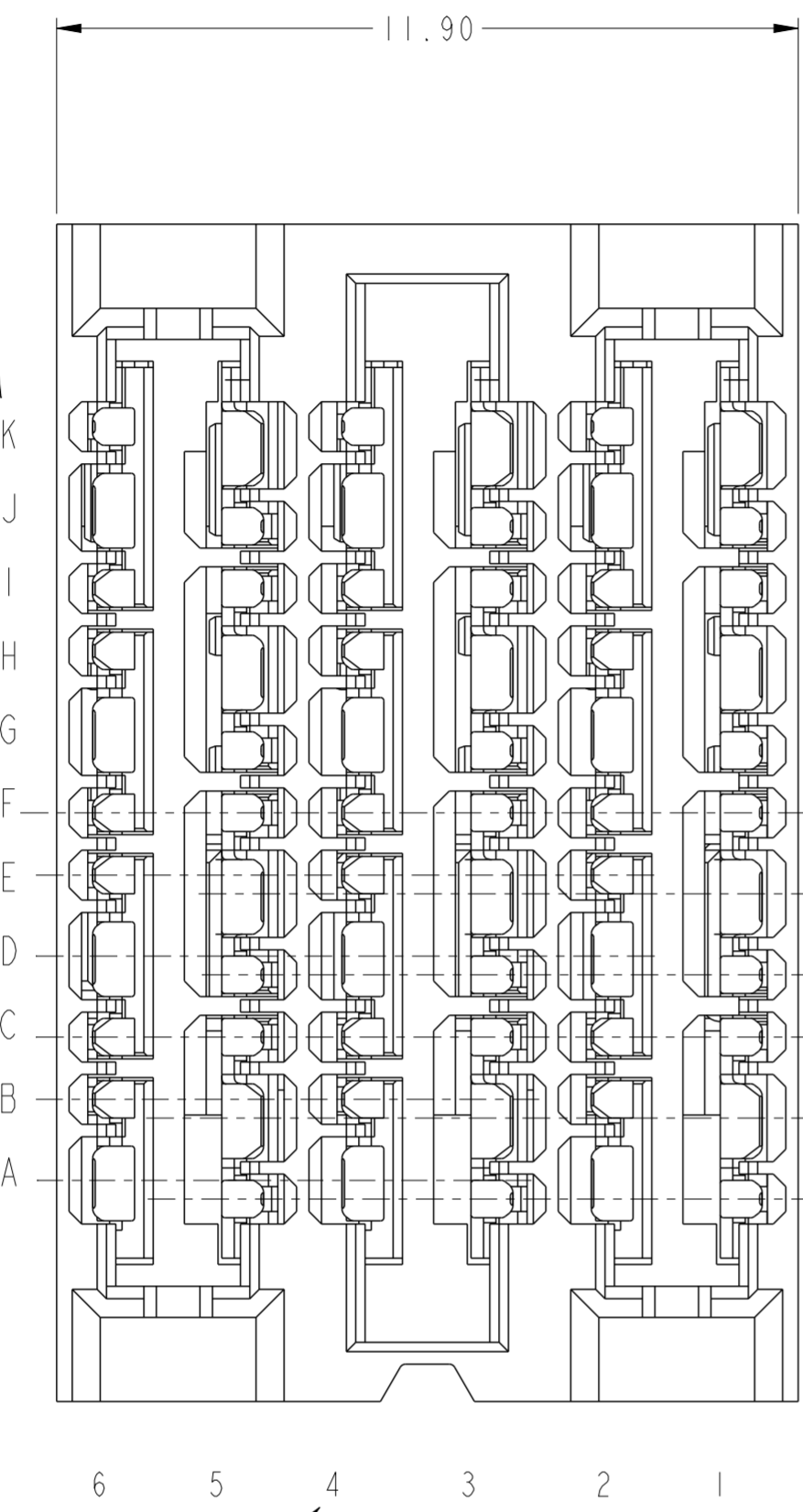
EVEN COLUMN
CONTACT ROW ID

3X 1
SIGNAL
PAIR
CENTERS

3X 3.6
SIGNAL
CENTERS

3X 3.6
GROUND
CENTERS

1.3
ROW A TO
FIRST SIGNAL



COLUMN ID

**10128347-101YLF
STANDARD MATE RECEPTACLE**

ODD COLUMN
CONTACT ROW ID
ODD & EVEN COLUMNS
ARE OFFSET

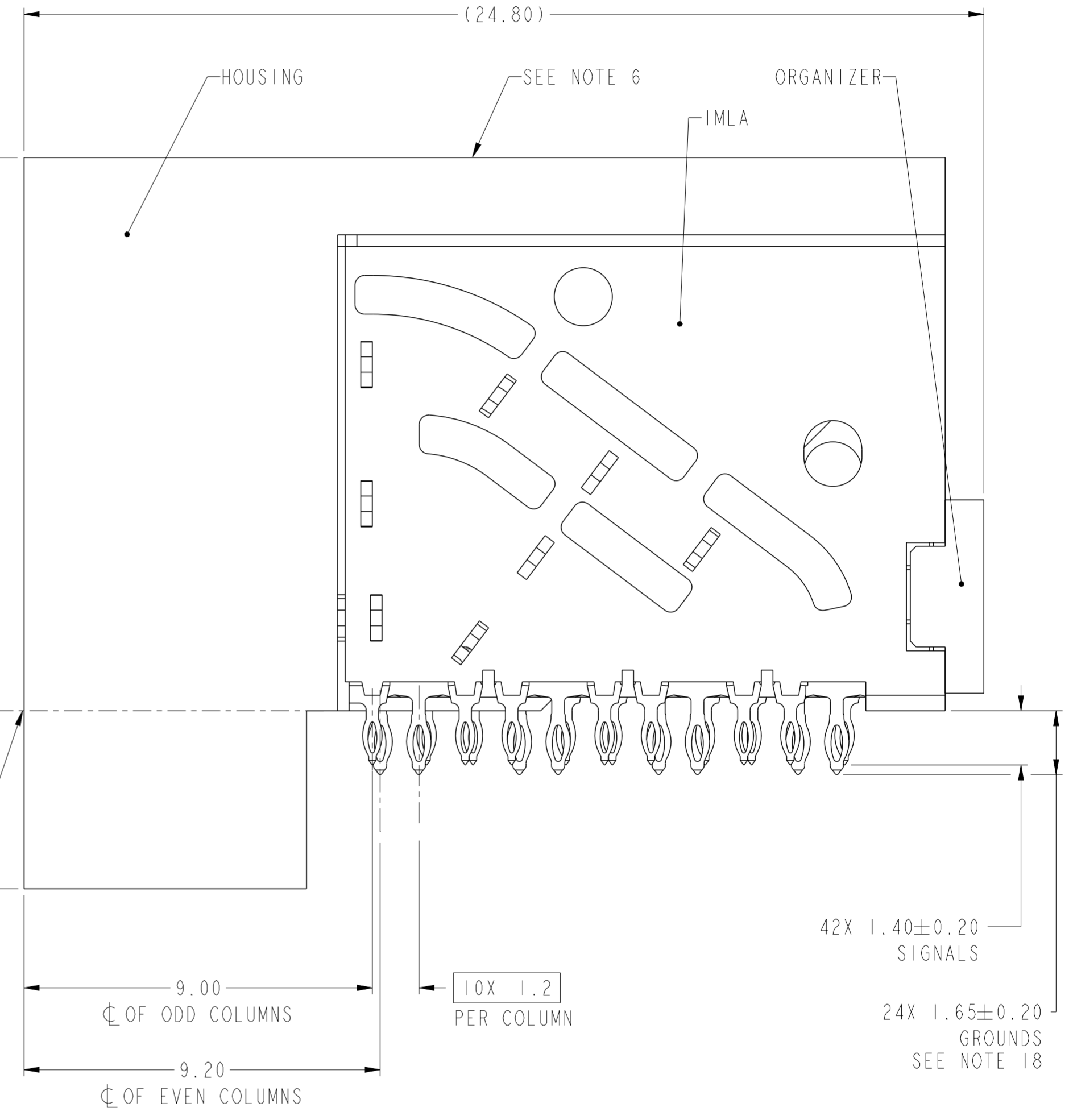
3X 1
SIGNAL
PAIR
CENTERS

3X 3.6
GROUND
CENTERS

3X 3.6
SIGNAL
CENTERS

1.3
ROW A TO
FIRST GROUND

TOP SURFACE
OF DAUGHTER CARD



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spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	7:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1	rel level	Released										
ASME Y14.5M		chr	-	app							Heaven Cen	2023/05/19	product family	ExaMax						
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°	±°			ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 66 POS, 6 IMLA			dwg no 10128347	rev D
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		
		cat. no.			Product - Customer Drw			sheet 1 of 10												

PDS: Rev :D

STATUS:Released

Printed: May 19, 2023

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

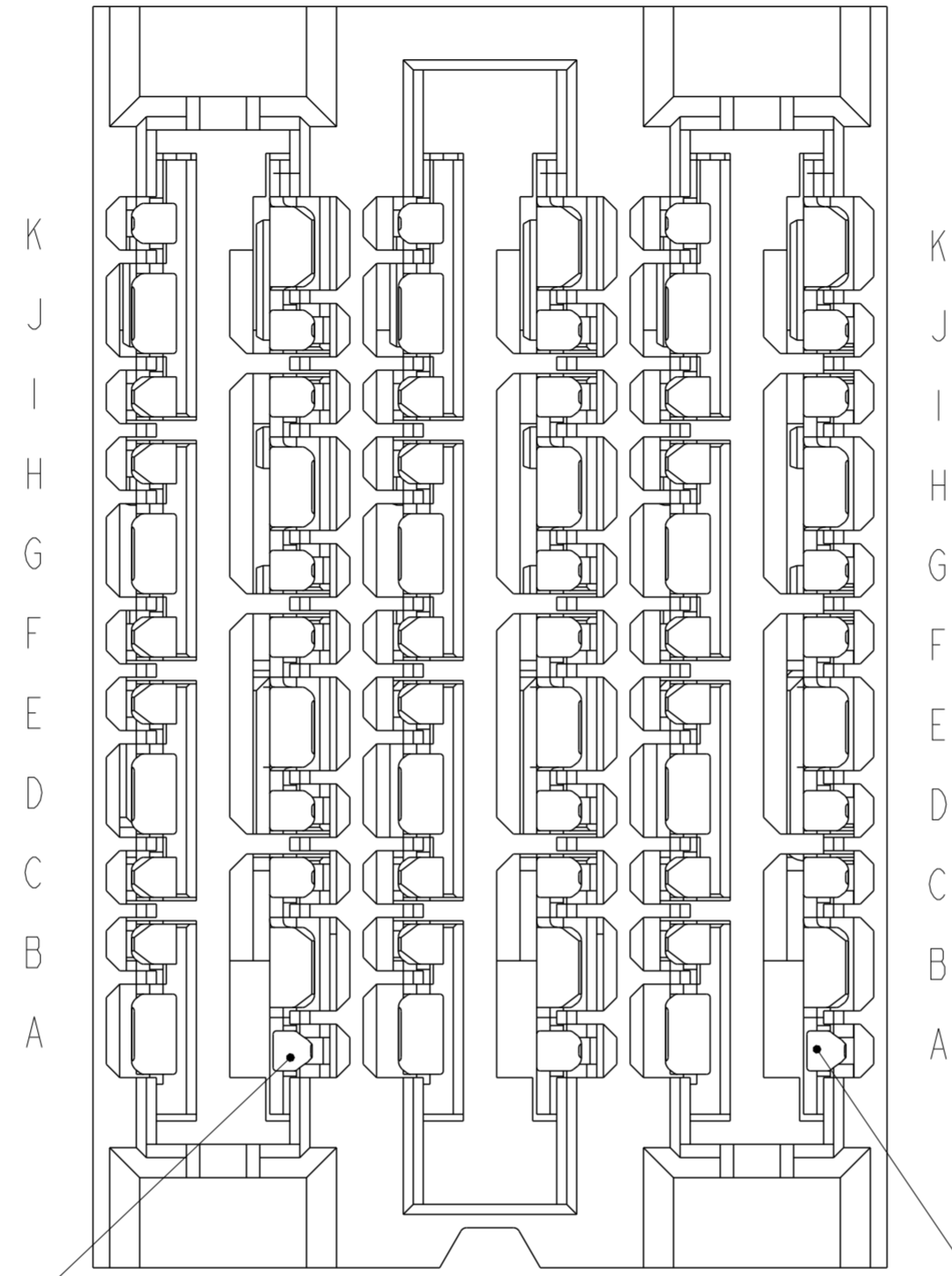
B

C

D

E

F



ADVANCED MATE POSITION A5 SEE NOTE 13

ADVANCED MATE POSITION A1 SEE NOTE 13

6 5 4 3 2 1

10128347-201YLF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
FOR ALL DIMENSIONS SEE 10128347-101YLF ON SHEET 1

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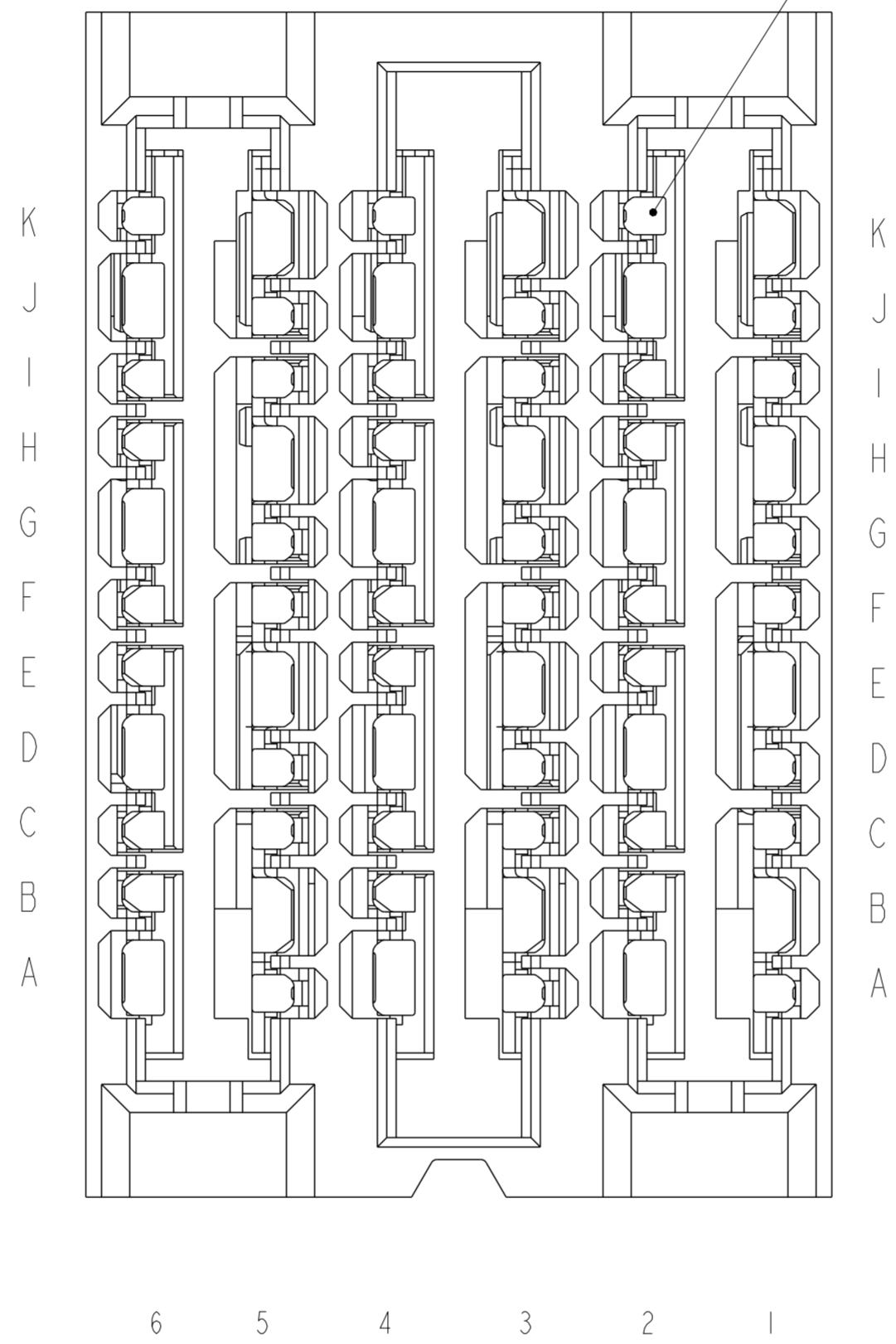
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tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-				rel level	Released		
surface	-	appr	Heaven Cen		product family	ExaMax		rel level	Released	
<input checked="" type="checkbox"/> linear <input type="checkbox"/> angular	0.X	±.3	Amphenol FCI	title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 66 POS, 6 IMLA		dwg no 10128347	rev D	Product - Customer Drw sheet 2 of 10		
	0.XX	±.10								
	0.XXX	±.050								
	0°	±°	cat. no.							

1 2 3 4 5 6 7 8

A B C D E F

A B C D E F

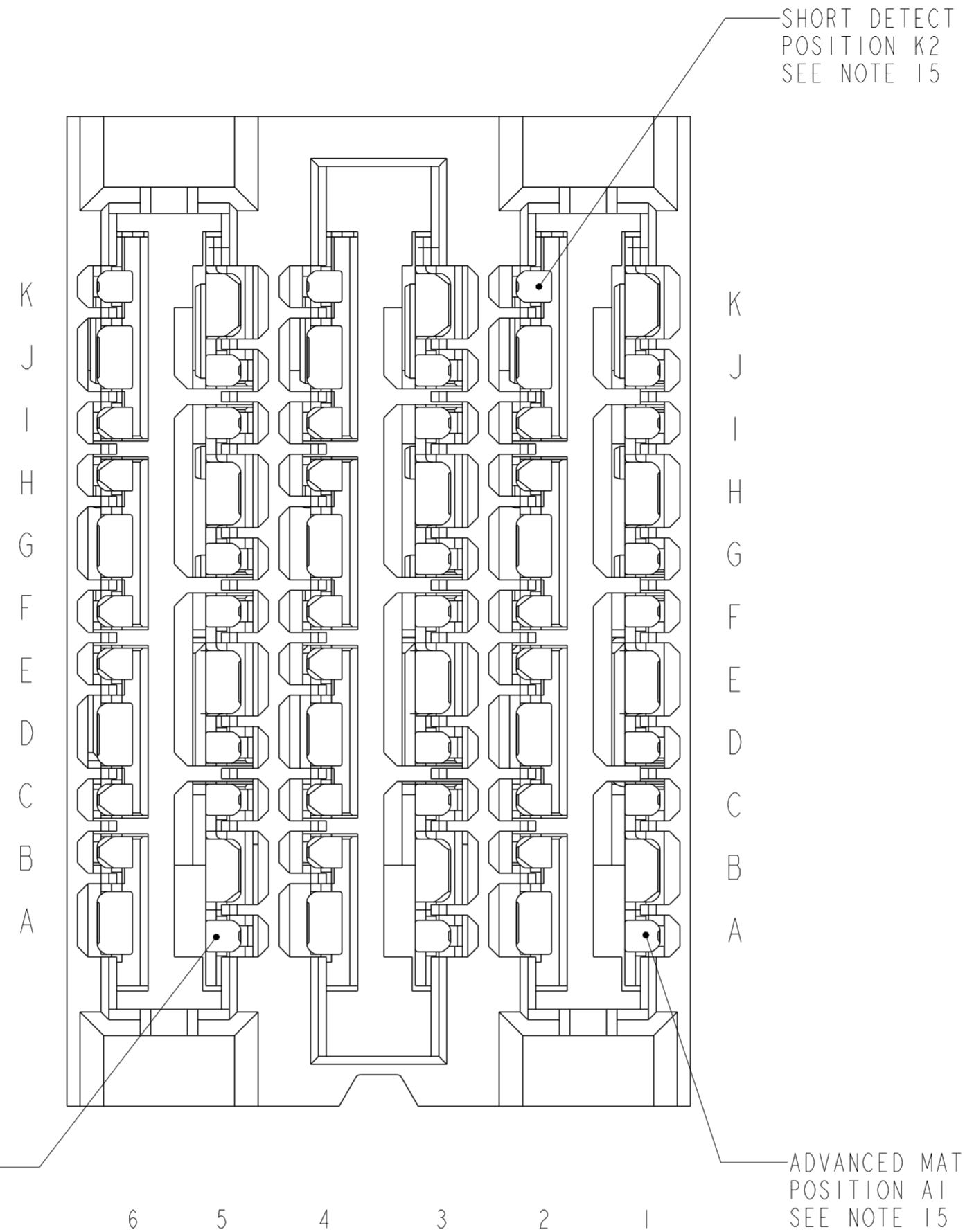
SHORT DETECT
POSITION K2
SEE NOTE 14



10128347-301YLF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS K2
FOR ALL DIMENSIONS SEE 10128347-101YLF ON SHEET 1

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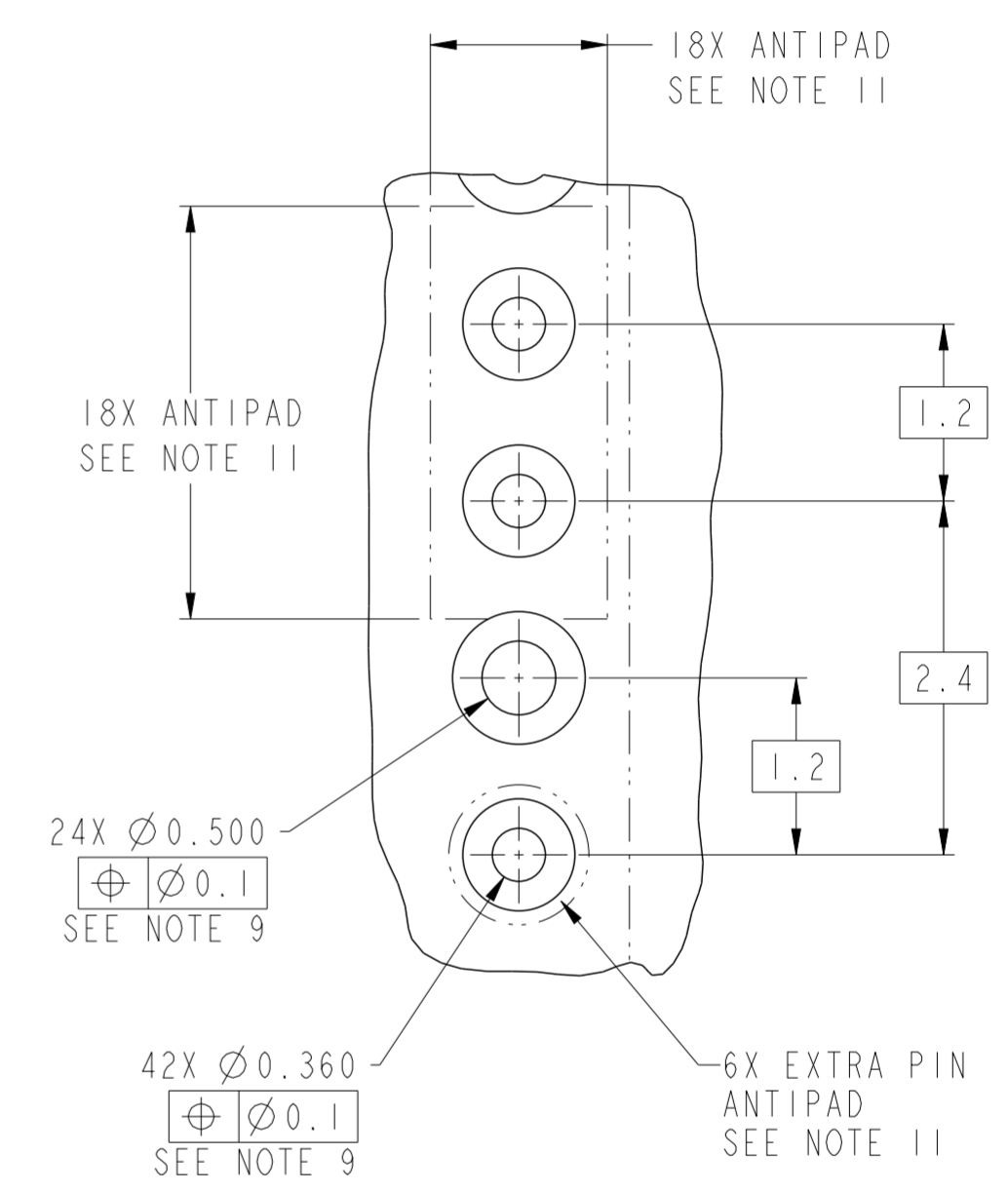
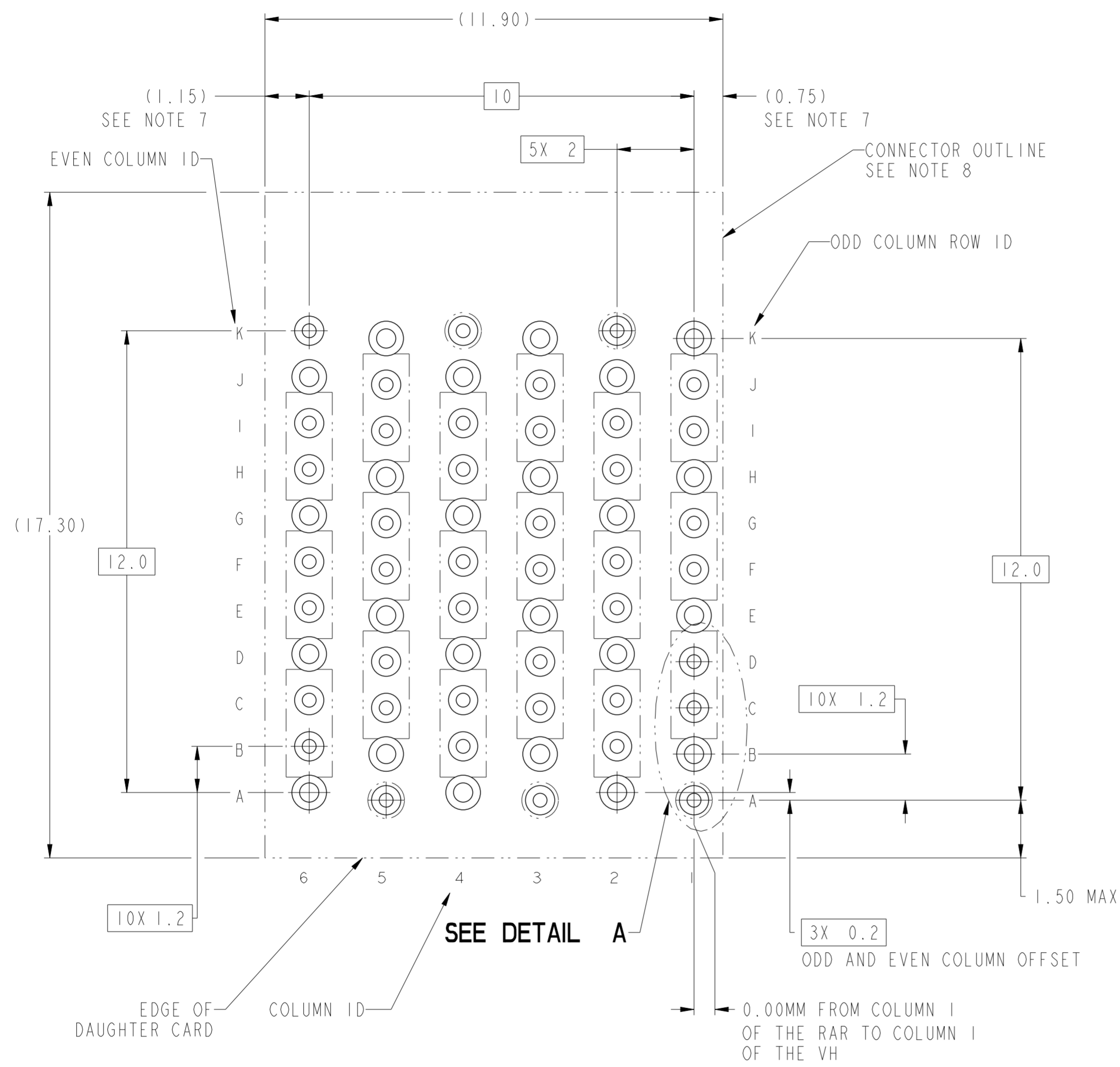
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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1			
ASME Y14.5M		chr	-				rel level	Released			
surface		appr	Heaven Cen				2023/05/19	product family	ExaMax		
	linear	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 66 POS, 6 IMLA	dwg no 10128347	rev D				
		0.XX	±.10					cat. no.	Product - Customer Drw		
		0.XXX	±.050					sheet 3 of 10			
	angular	0°	±°								



10128347-401YLF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
SHORT DETECT POSITION IS K2
FOR ALL DIMENSIONS SEE 10128347-101YLF ON SHEET 1

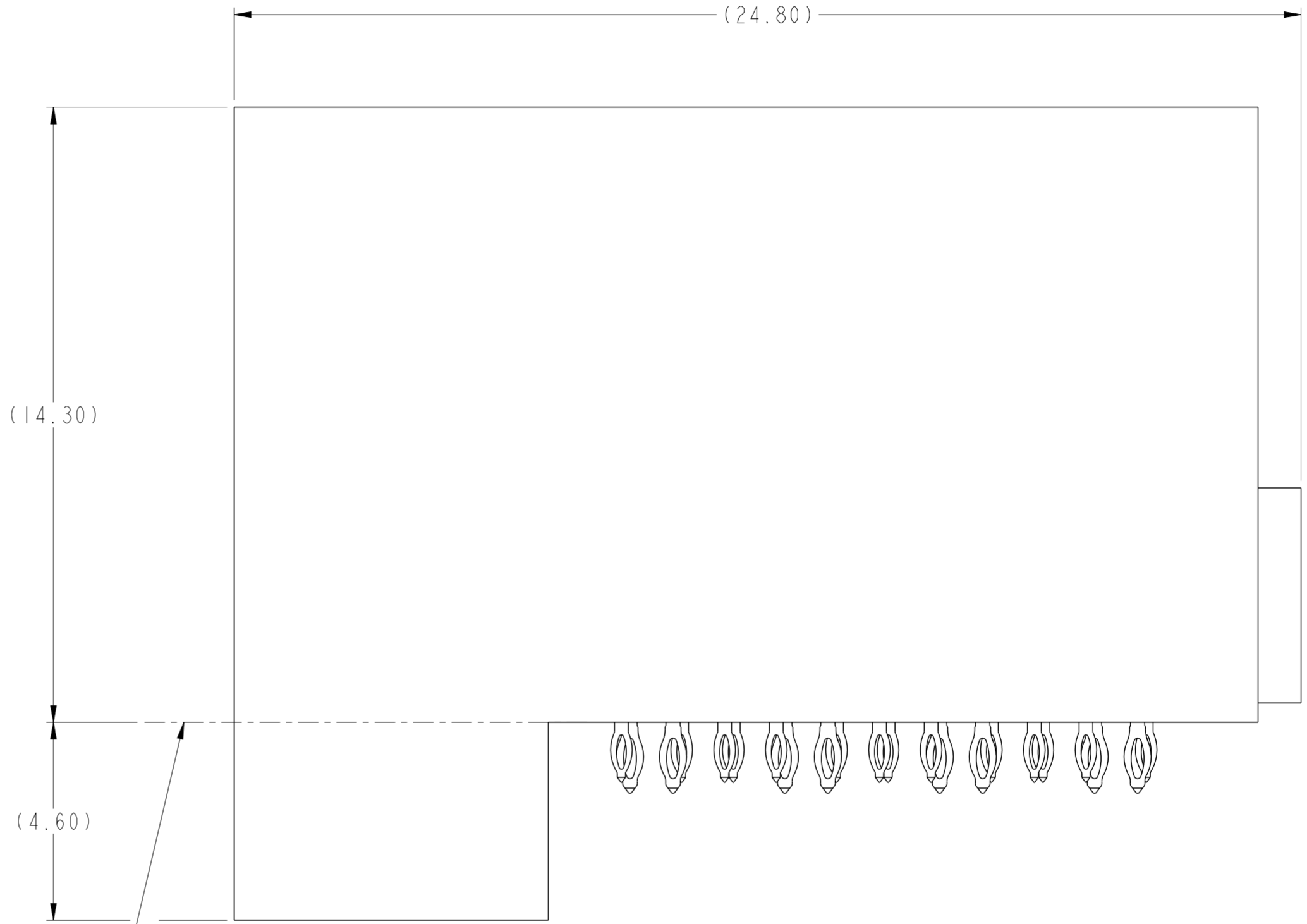
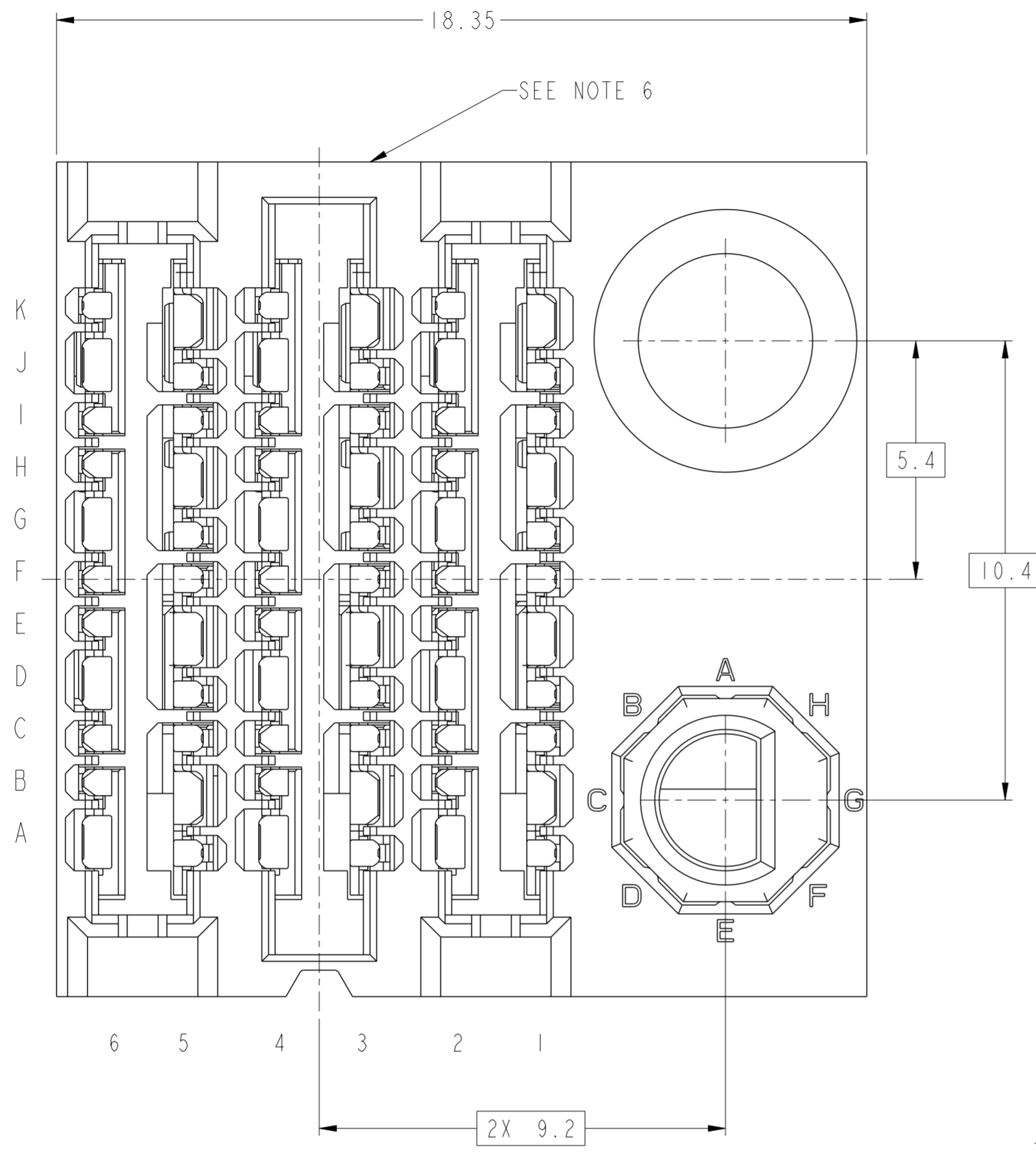
Amphenol FCI
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spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	7:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-				rel level	Released		
surface	-	appr	Heaven Cen		2023/05/19	product family	ExaMax		rel level	Released
linear angular	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 66 POS, 6 IMLA		dwg no 10128347	rev D			
	0.XX	±.10		cat. no.				Product - Customer Drw	sheet 4 of 10	
	0.XXX	±.050								
	0°	±°								



10128347-Y01YLF RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 10:1

spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	7:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1	rel level	Released				
ASME Y14.5M		chr	-	app							Heaven Cen	2023/05/19	product family	ExaMax
surface	-	linear	0.X ±.3 0.XX ±.10 0.XXX ±.050	angular							0° ±°	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 66 POS, 6 IMLA
		PDS: Rev :D		STATUS:Released		Printed: May 19, 2023		Product - Customer Drw			sheet 5 of 10			



10128347-Y1AYLF THRU 10128347-Y1JYLF
 RIGHT GUIDANCE (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE 10128347-101YLF ON SHEET 1

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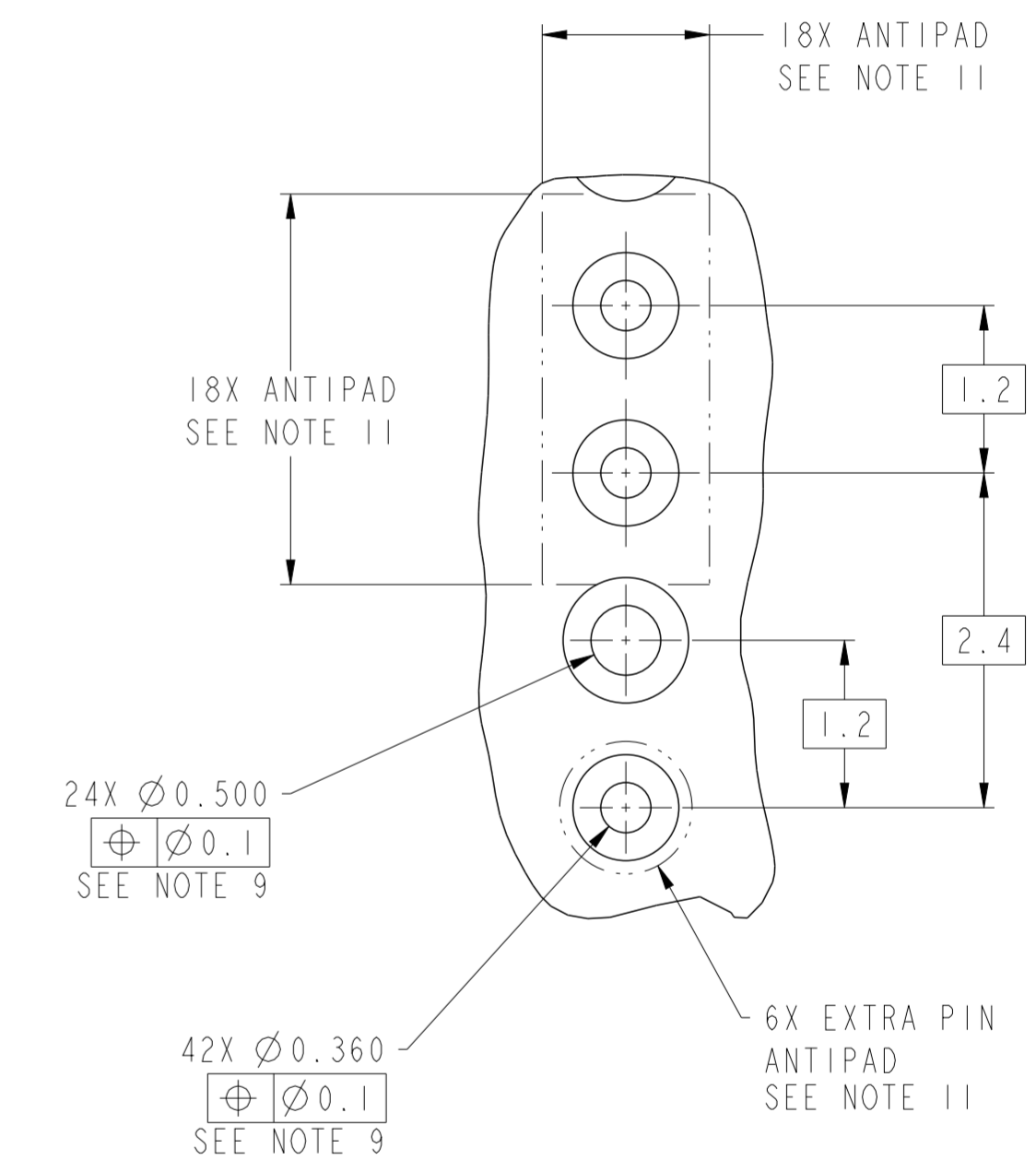
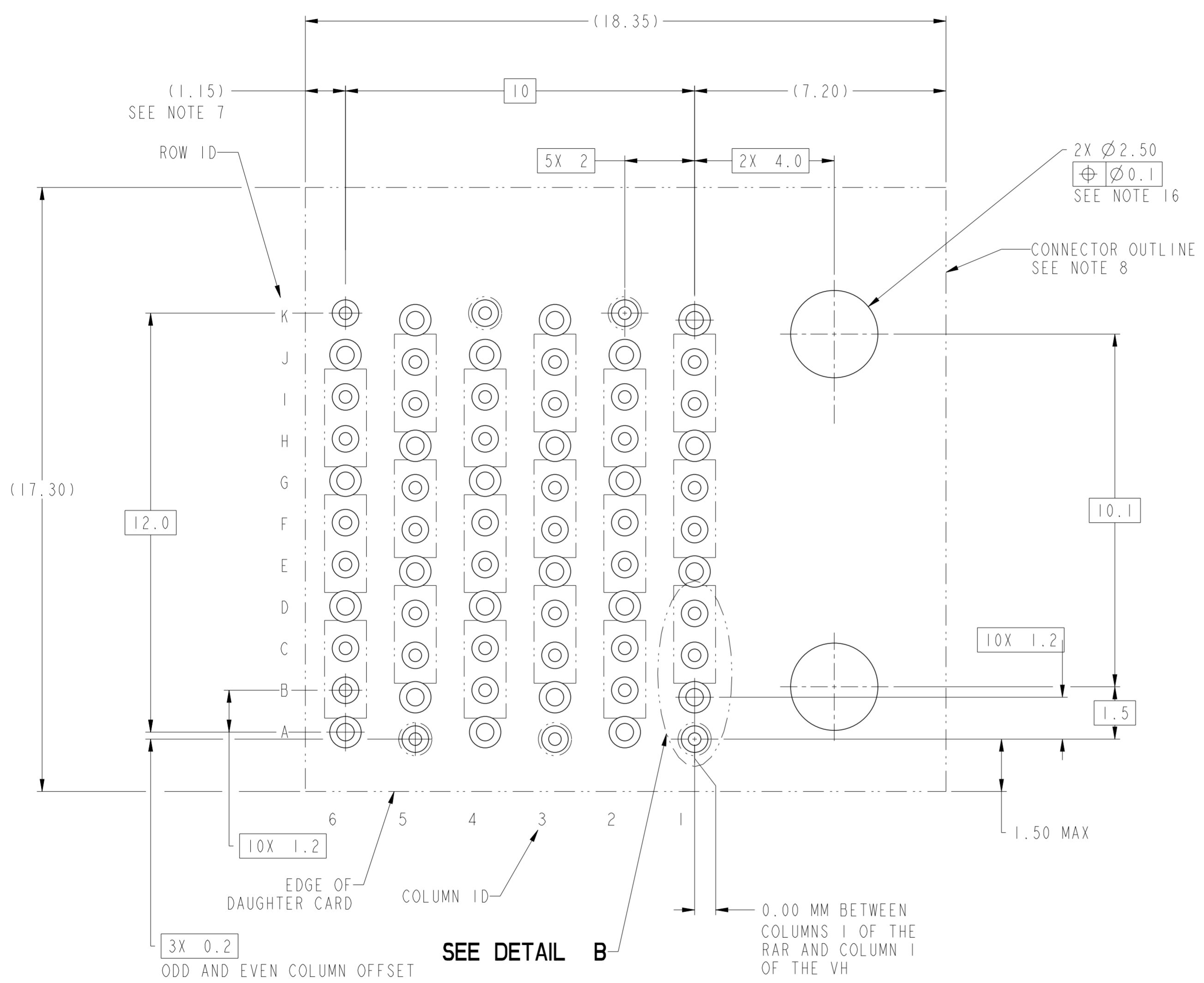
© 2020 Amphenol Corporation

spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	7:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1	rel level	Released											
ASME Y14.5M		chr	-	appr							Heaven Cen	2023/05/19	product family	ExaMax							
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. RECEPTACLE ASS'Y, 3 PR, 66 POS, 6 IMLA			dwg no 10128347	rev D
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±°																			
		cat. no.			Product - Customer Drw			sheet 6 of 10													

PDS: Rev :D

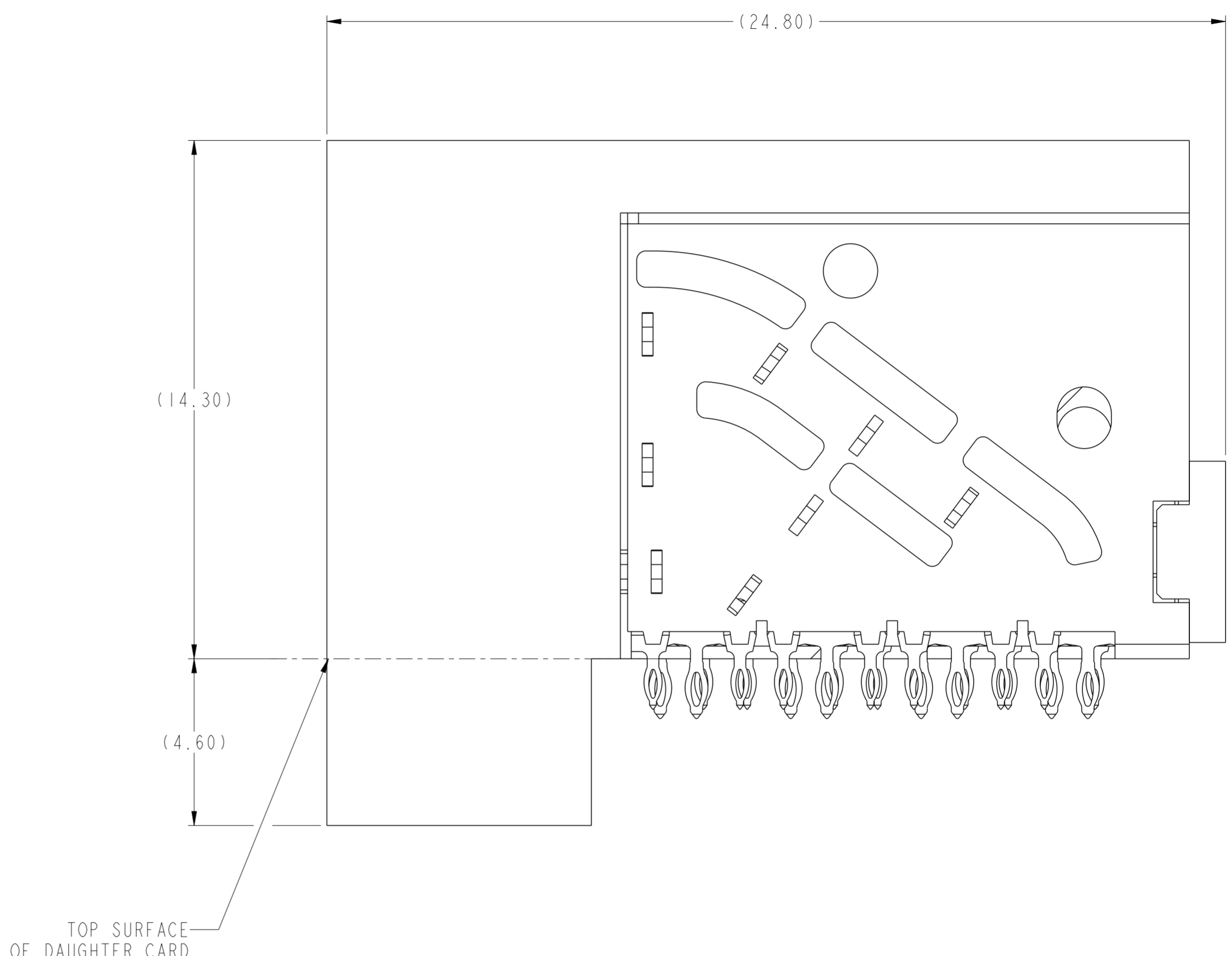
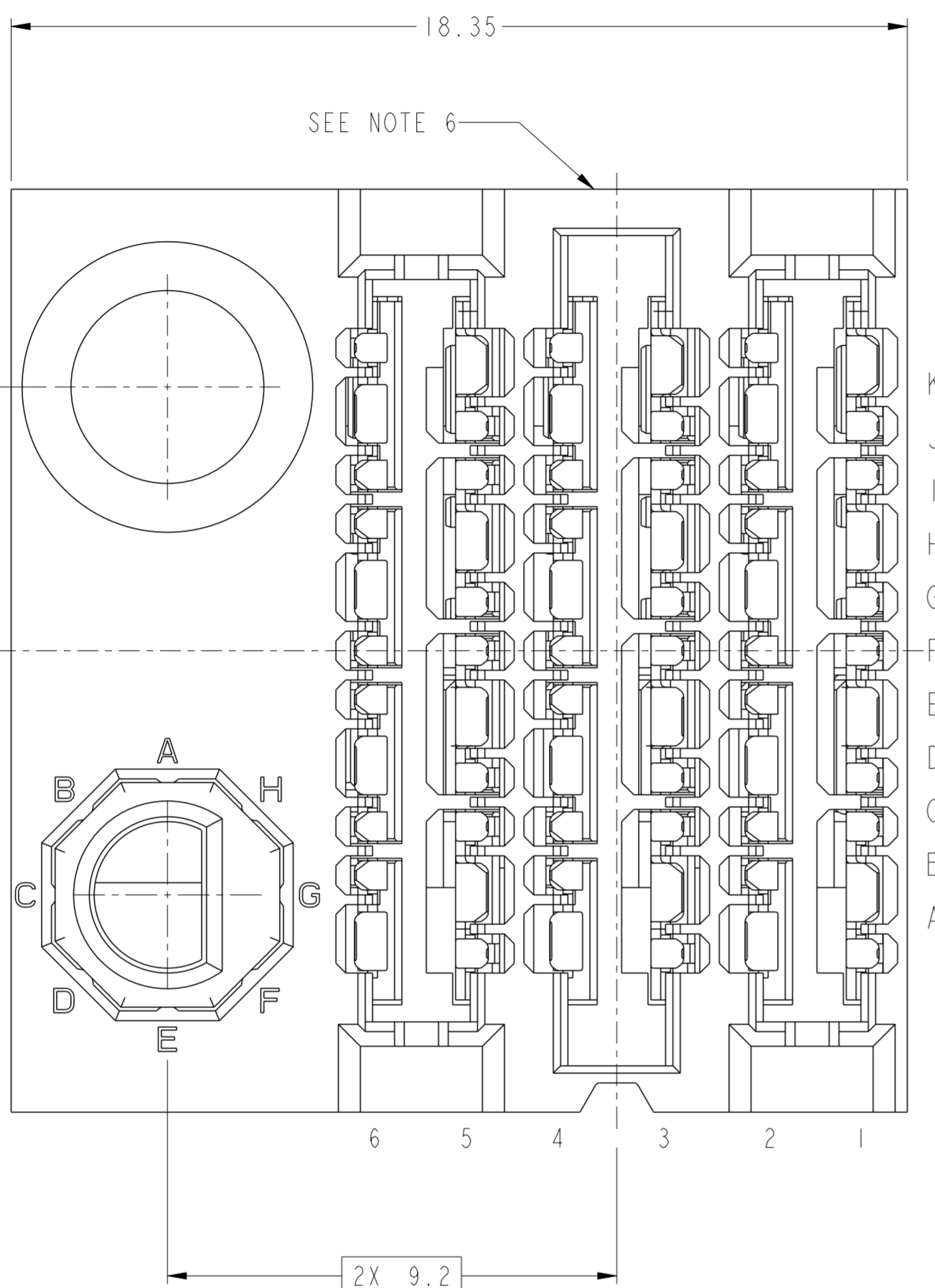
STATUS:Released

Printed: May 19, 2023



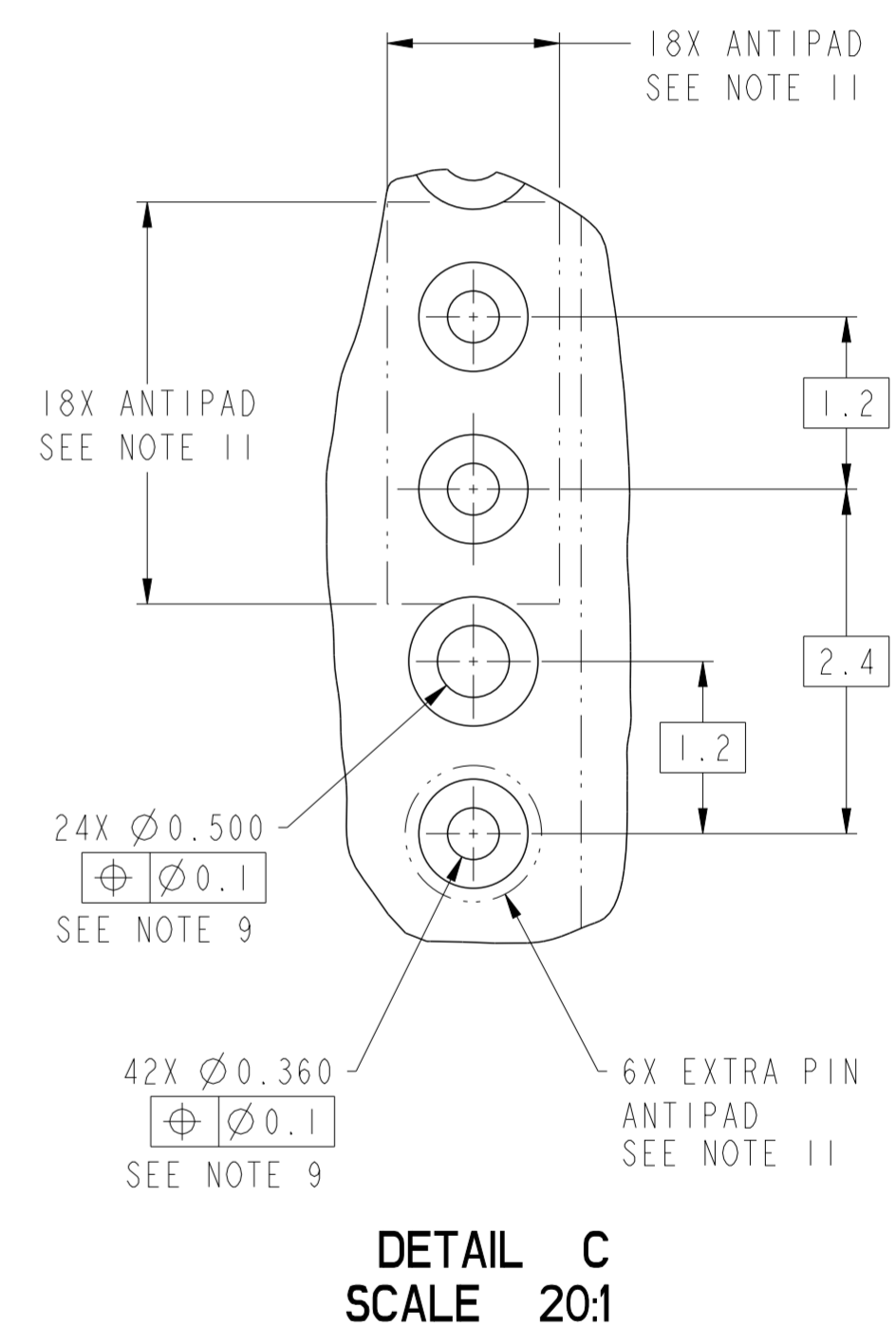
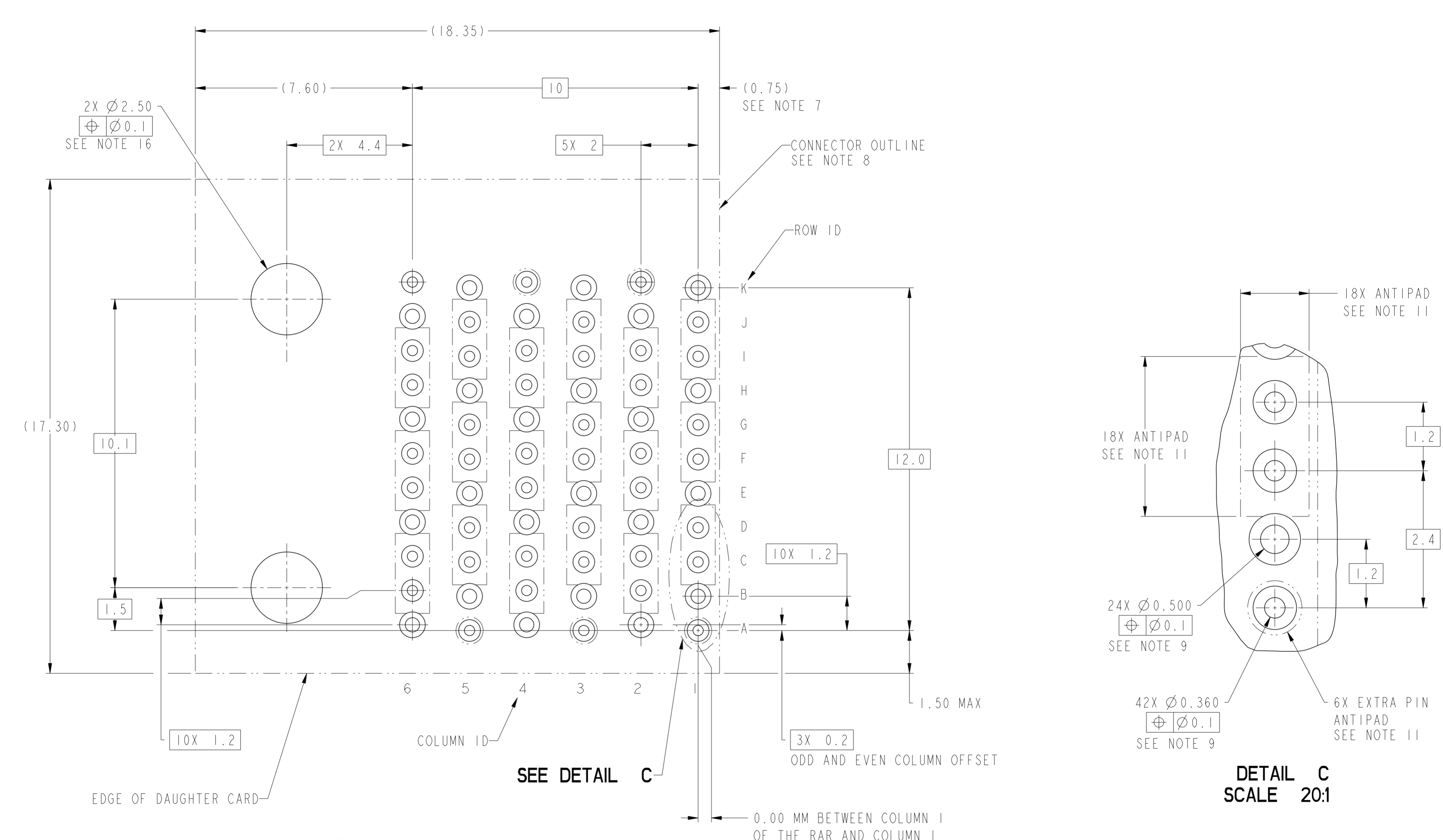
10128347-Y1AYLF THRU -Y1JYLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	7:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1	rel level	Released				
ASME Y14.5M		chr	-	app							Heaven Cen	2023/05/19	product family	ExaMax
surface	-	linear	0.X ±.3 0.XX ±.10 0.XXX ±.050	angular							0° ±°	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 66 POS, 6 IMLA
		cat. no.		Product - Customer Drw		sheet 7 of 10								



10128347-Y2AYLF THRU 10128347-Y2JYLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10128347-101YLF ON SHEET 1

spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	7:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1				
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr					rel level	Released				
surface	-	appr	Heaven Cen 2023/05/19				product family	ExaMax				
	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE		dwg no	10128347	rev	D
		0.XX	±.10		title		ASS'Y, 3 PR, 66 POS, 6 IMLA					
		0.XXX	±.050		cat. no.		Product - Customer Drw		sheet 8 of 10			
	angular	0°	±°									



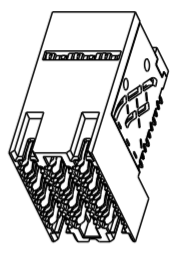
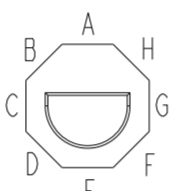
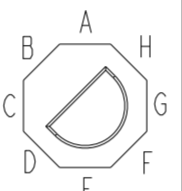
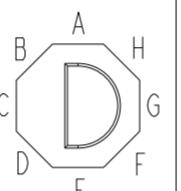
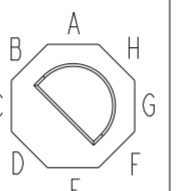
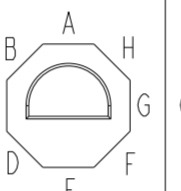
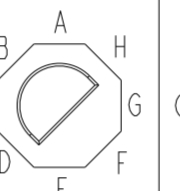
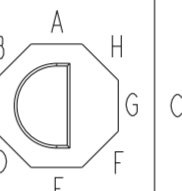
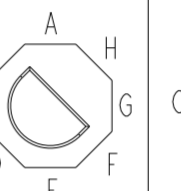
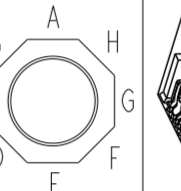
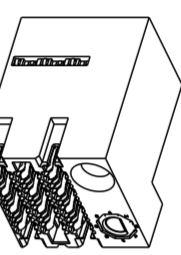
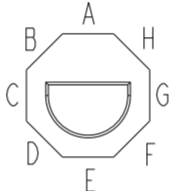
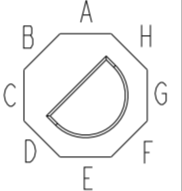
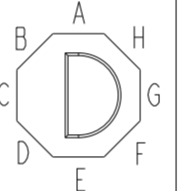
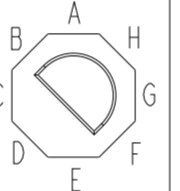
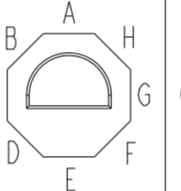
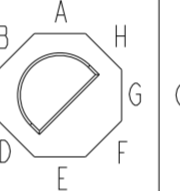
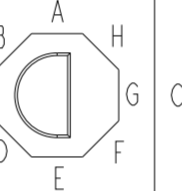
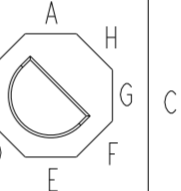
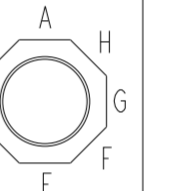
10128347-Y2AYLF THRU -Y2JYLF
 RECOMMENDED PCB LAYOUT
 COMPONENT SIDE
 NOTES 7, 8, 9, 11 & 16
 SCALE 10:1

spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	7:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2023/01/06			ecn no	ELX-DG-46873-1	rel level	Released				
ASME Y14.5M		chr	-	apppr							Heaven Cen	2023/05/19	product family	ExaMax
surface	linear	0.X	±.3	Amphenol FCI							title	ExaMAX R.A. RECEPTACLE	dwg no	10128347
		0.XX	±.10			ASS'Y, 3 PR, 66 POS, 6 IMLA								
		0.XXX	±.050											
	angular	0°	±°			cat. no.		Product - Customer Drw	sheet 9 of 10					

10128347 - Y Y Y Y L F

PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10128347-1YYYYLF	STANDARD MATE
10128347-2YYYYLF	ADVANCED MATE
10128347-3YYYYLF	SHORT DETECT
10128347-4YYYYLF	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)										

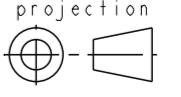
NOTES:

- 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:
-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, 10128347-2YYYYLF, 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, 10128347-3YYYYLF, 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, 10128347-4YYYYLF, 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 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.

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spec ref	SEE NOTES	dr	Daniel Xiao	2014/03/20	projection	MM	size	A2	scale	1:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2023/01/06		← →	ecn no	ELX-DG-46873-1	rel level	Released		
ASME Y14.5M		chr									product family	ExaMax
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE	dwg no	10128347	rev	D		
	0.XX	±.10	cat. no.								Product - Customer Drw	sheet 10 of 10
	0.XXX	±.050										
	angular	0°	±°									