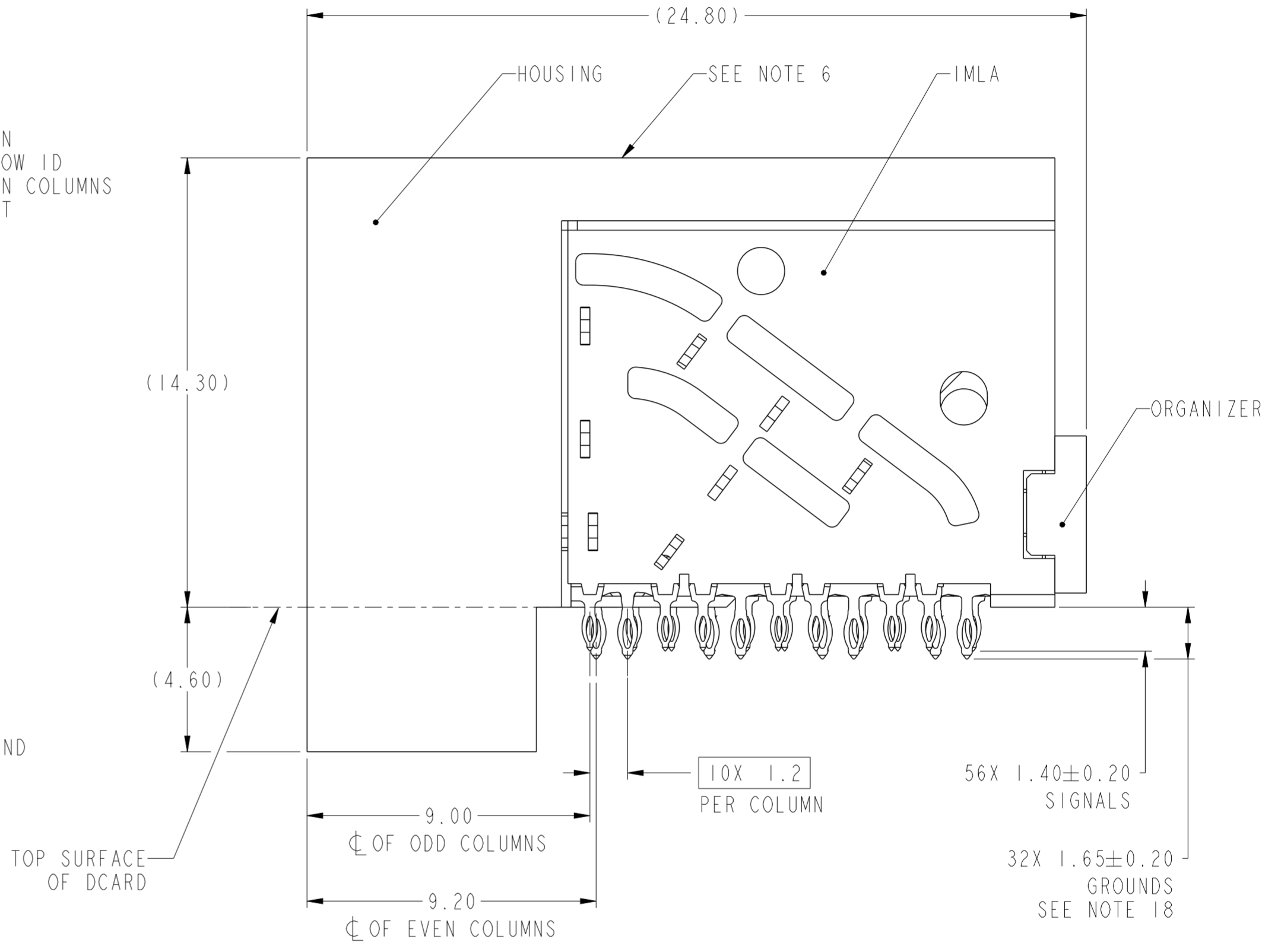
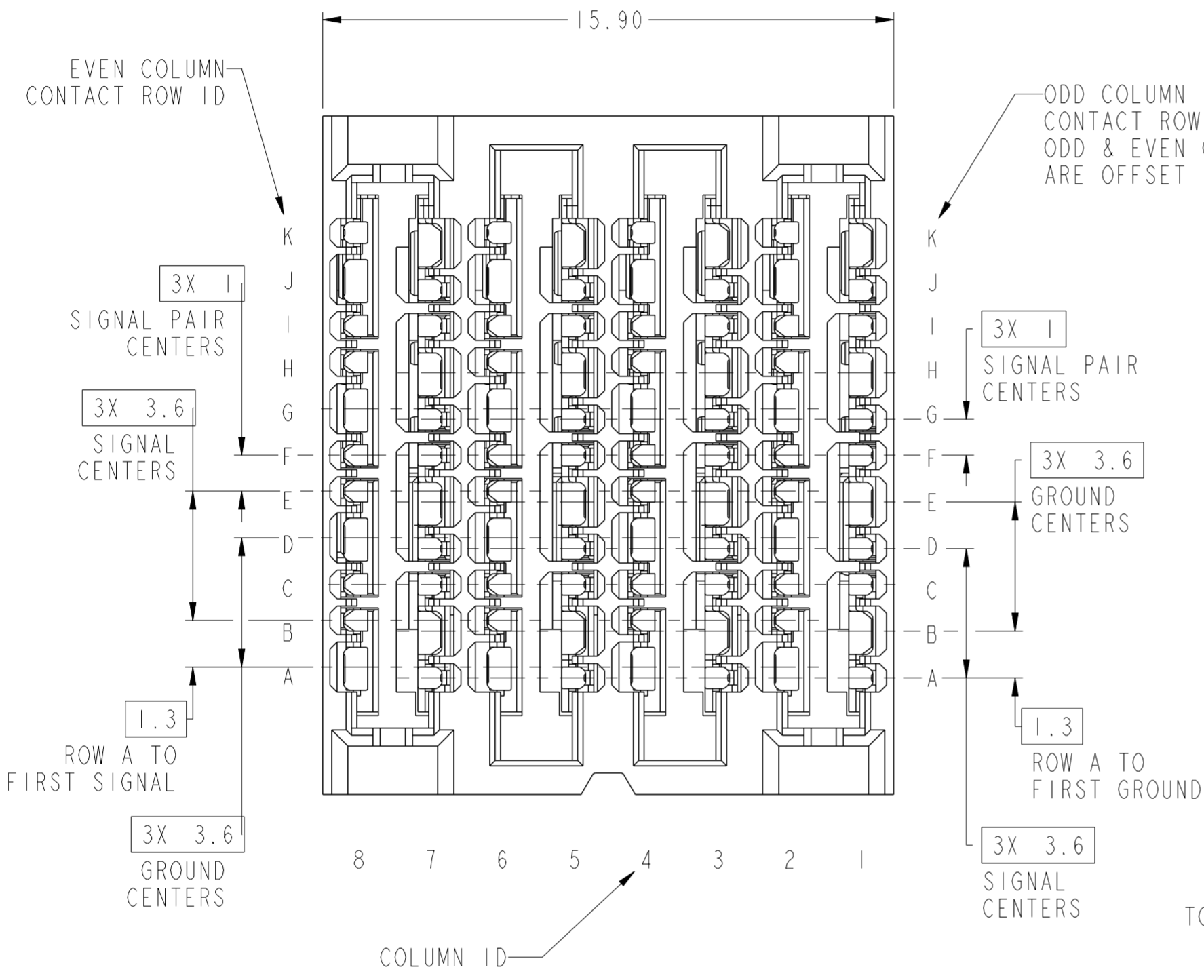


PRODUCT NUMBER
SEE TABLE



10124308-101YLF
STANDARD MATE RECEPTACLE

Amphenol
FCi

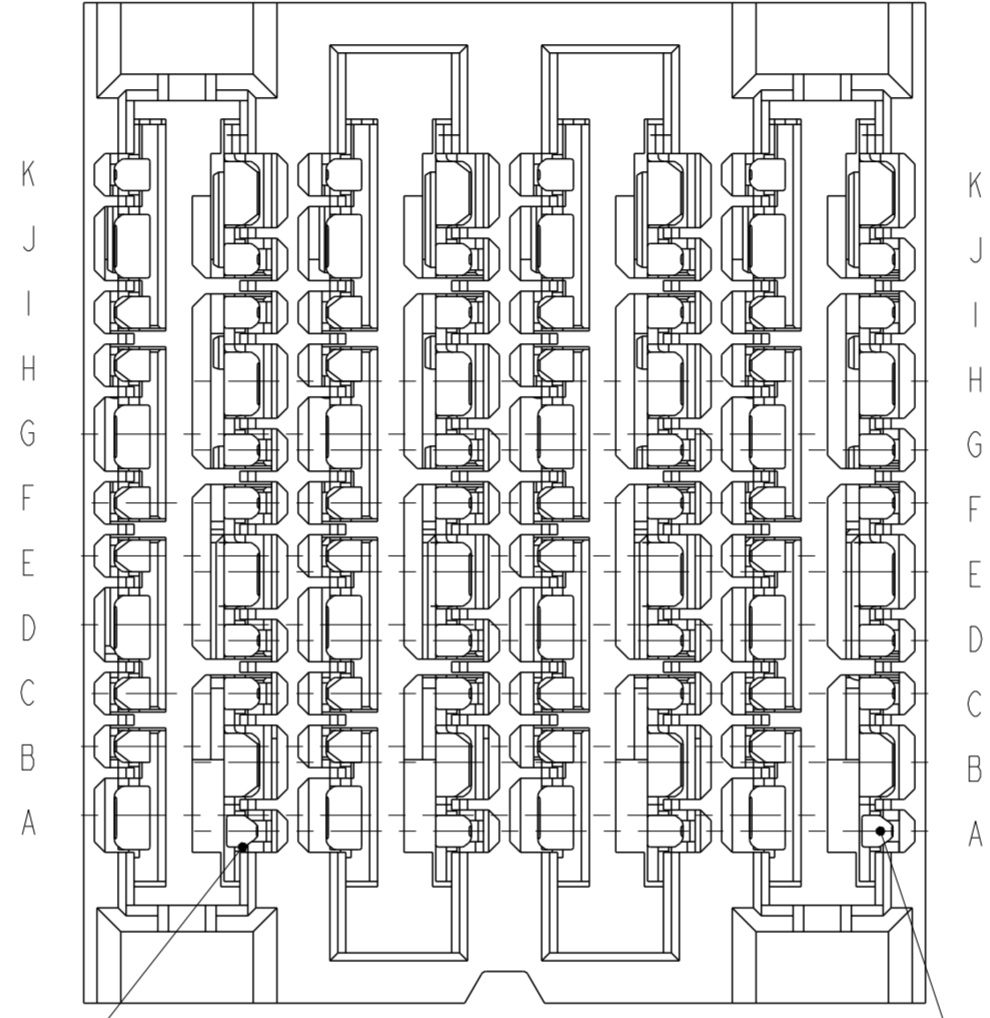
© 2016 AFCI

spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1		
ASME Y14.5M		chr	-	rel level			Released			
surface	linear	appr	Heaven Cen	2020/04/22	product family	ExaMAX	rel level	Released		
	angular	0°	±°		title	ExaMAX R.A. RECEPTACLE		dwg no	10124308	
					ASS'Y, 3 PR, 88 POS, 8 IMLA	cat. no.	Product - Customer Drw	rev	C	

PDS: Rev :C

STATUS:Released

Printed: Apr 22, 2020



ADVANCED MATE POSITION A7 SEE NOTE 13

ADVANCED MATE POSITION A1 SEE NOTE 13

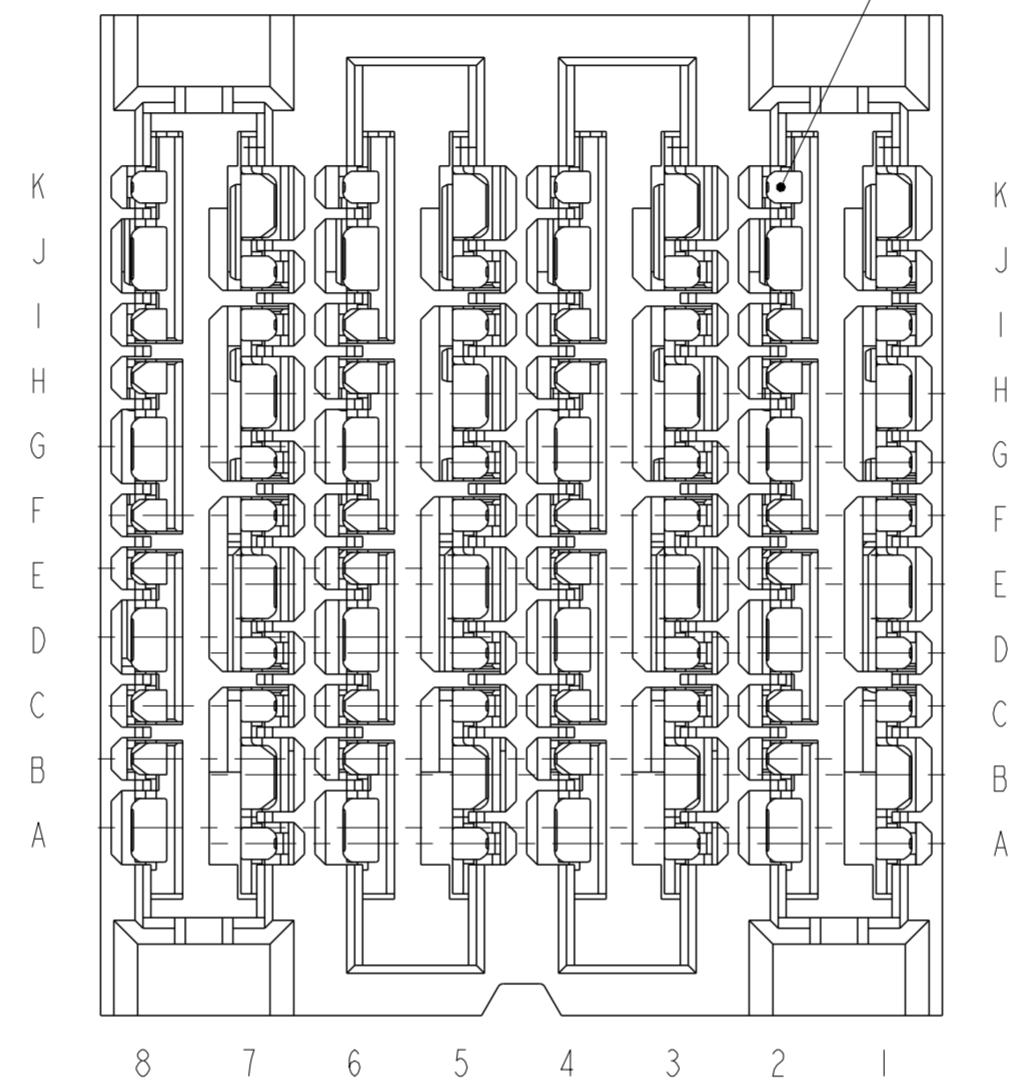
10124308-201YLF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
FOR ALL DIMENSIONS SEE SHEET 1

Amphenol FCI

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spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14		← MM →	ecn no	ELX-DG-35761-1	rel level	Released
ASME Y14.5M		chr	-	-						
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE	cat. no.	Product - Customer Drw	sheet 2 of 10	rev
✓		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							C

SHORT DETECT
POSITION K2
SEE NOTE 14



10124308-301YLF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS K2
FOR ALL DIMENSIONS SEE SHEET 1

Amphenol
FCi

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spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1			
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/22	product family	ExaMAX	rel level
surface	-	linear	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 88 POS, 8 IMLA	dwg no 10124308	rev C			
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±°	cat. no.	Product - Customer Drw			sheet 3 of 10		

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

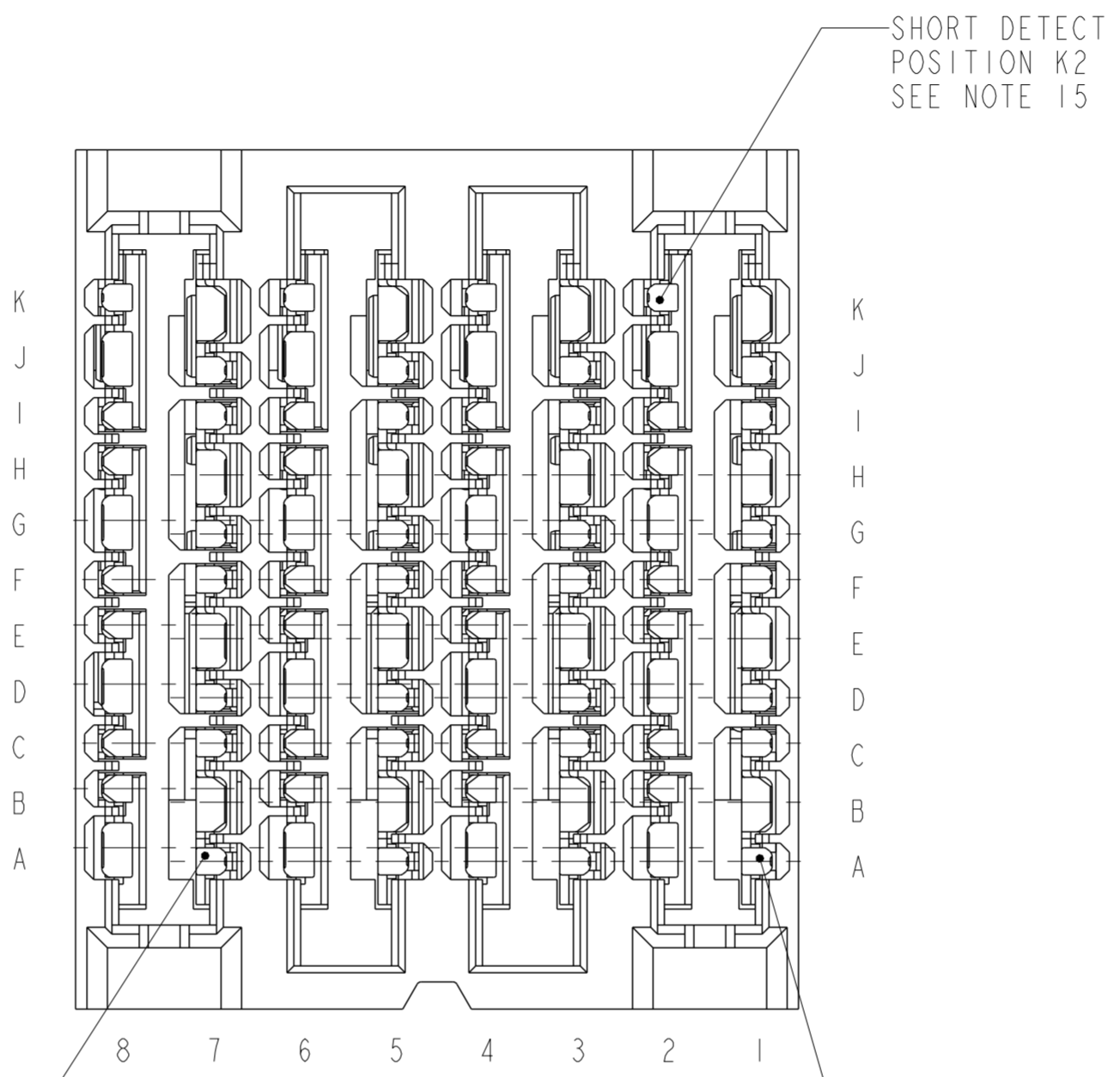
B

C

D

E

F



ADVANCED MATE POSITION A7 SEE NOTE 15

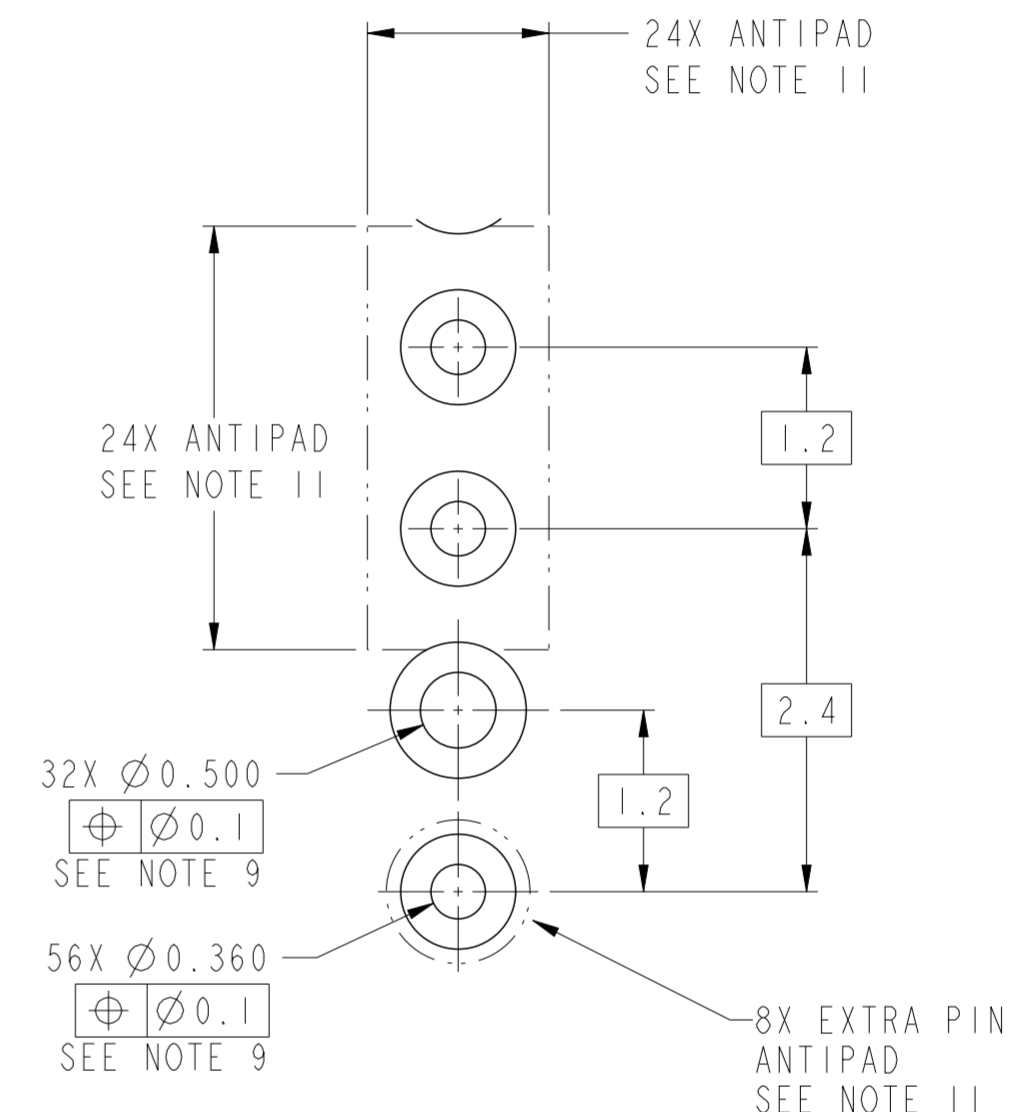
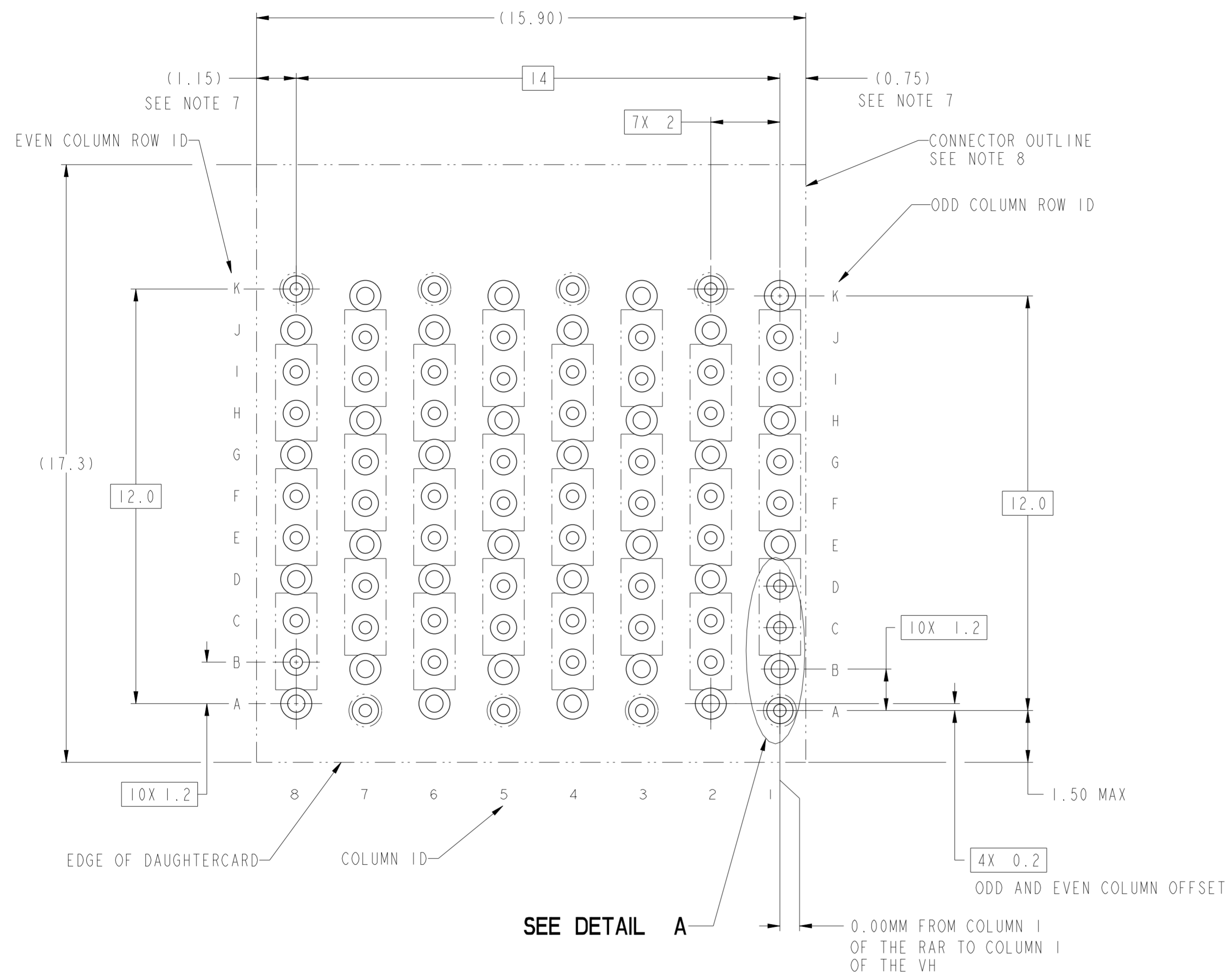
ADVANCED MATE POSITION A1 SEE NOTE 15

10124308-401YLF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
SHORT DETECT POSITION IS K2
FOR ALL DIMENSIONS SEE SHEET 1

Amphenol FCI

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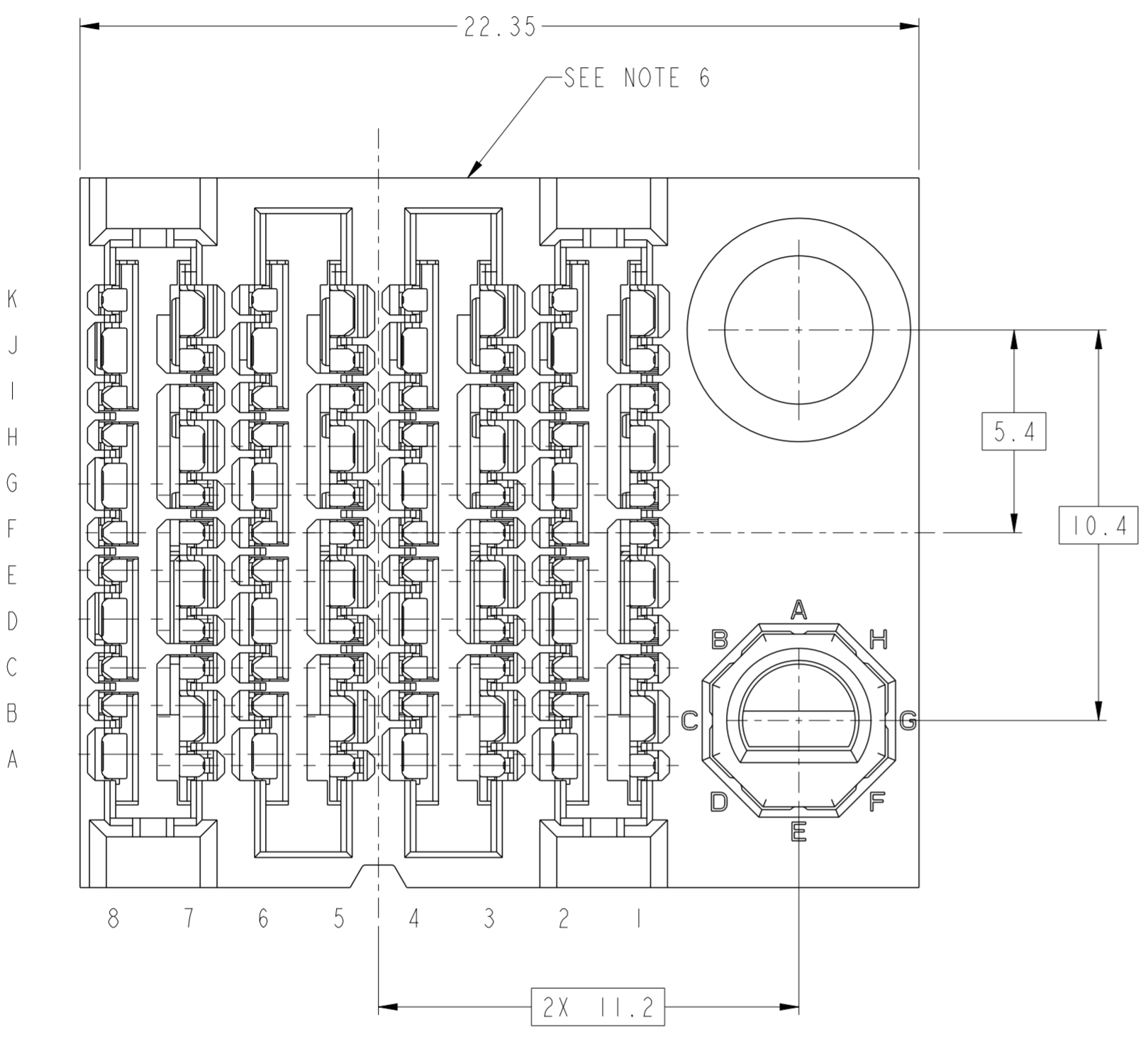
spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-				rel level	Released		
surface	-	appr	Heaven Cen	2020/04/22	product family	ExaMAX	rel level	Released		
	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE		dwg no 10124308	rev C
		0.XX	±.10		title		ASS'Y, 3 PR, 88 POS, 8 IMLA			
		0.XXX	±.050		cat. no.		Product - Customer Drw			
	angular	0°	±°	cat. no.		Product - Customer Drw		sheet 4 of 10		



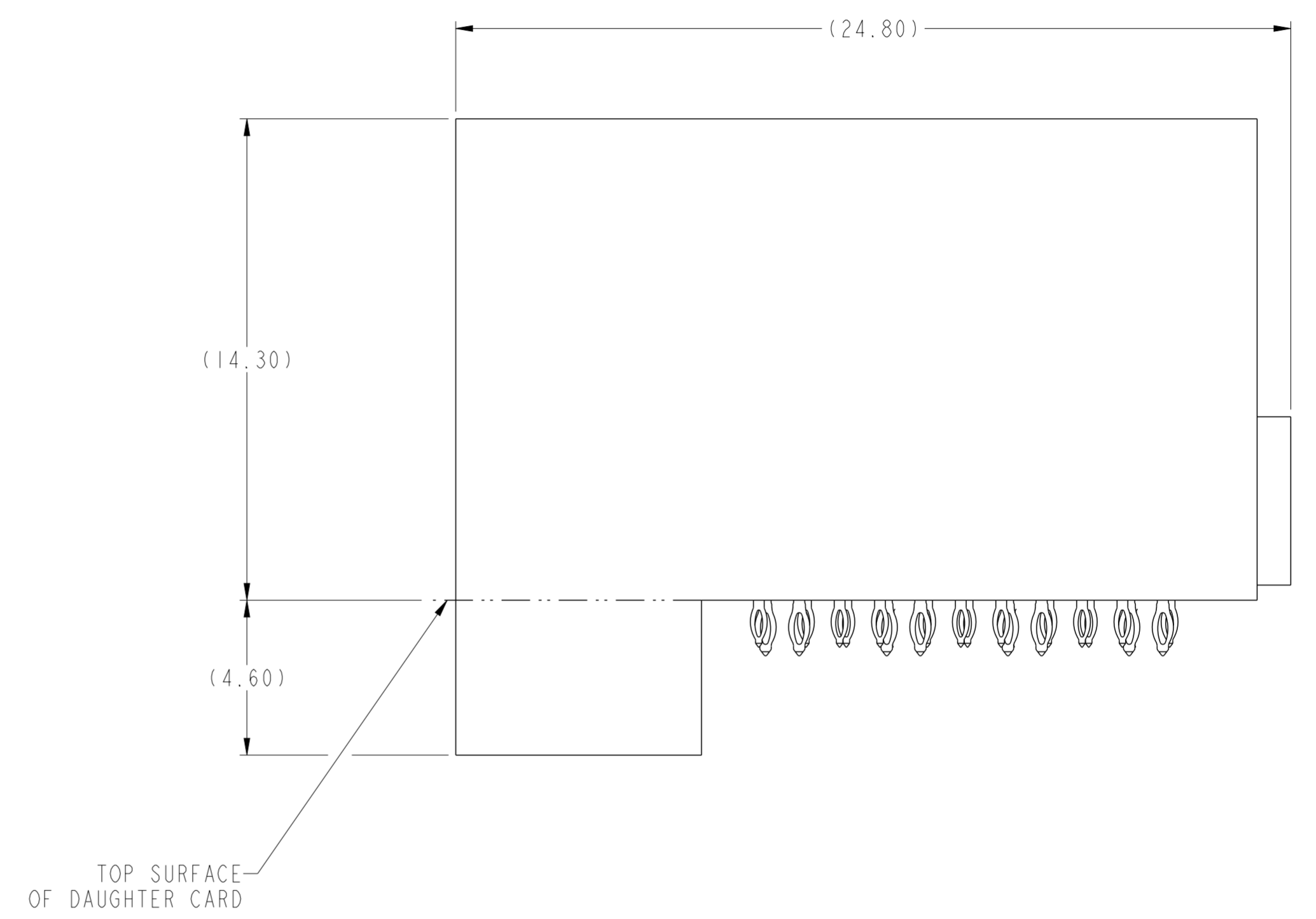
DETAIL A
SCALE 20:1

10124308-Y01YLF RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 10:1

spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1	rel level	Released
ASME Y14.5M		chr	-	appr						
surface	linear	0.X	±.3	Amphenol FCI		title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 88 POS, 8 IMLA		dwg no 10124308	rev C	
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°	cat. no.	Product - Customer Drw		sheet 5 of 10			

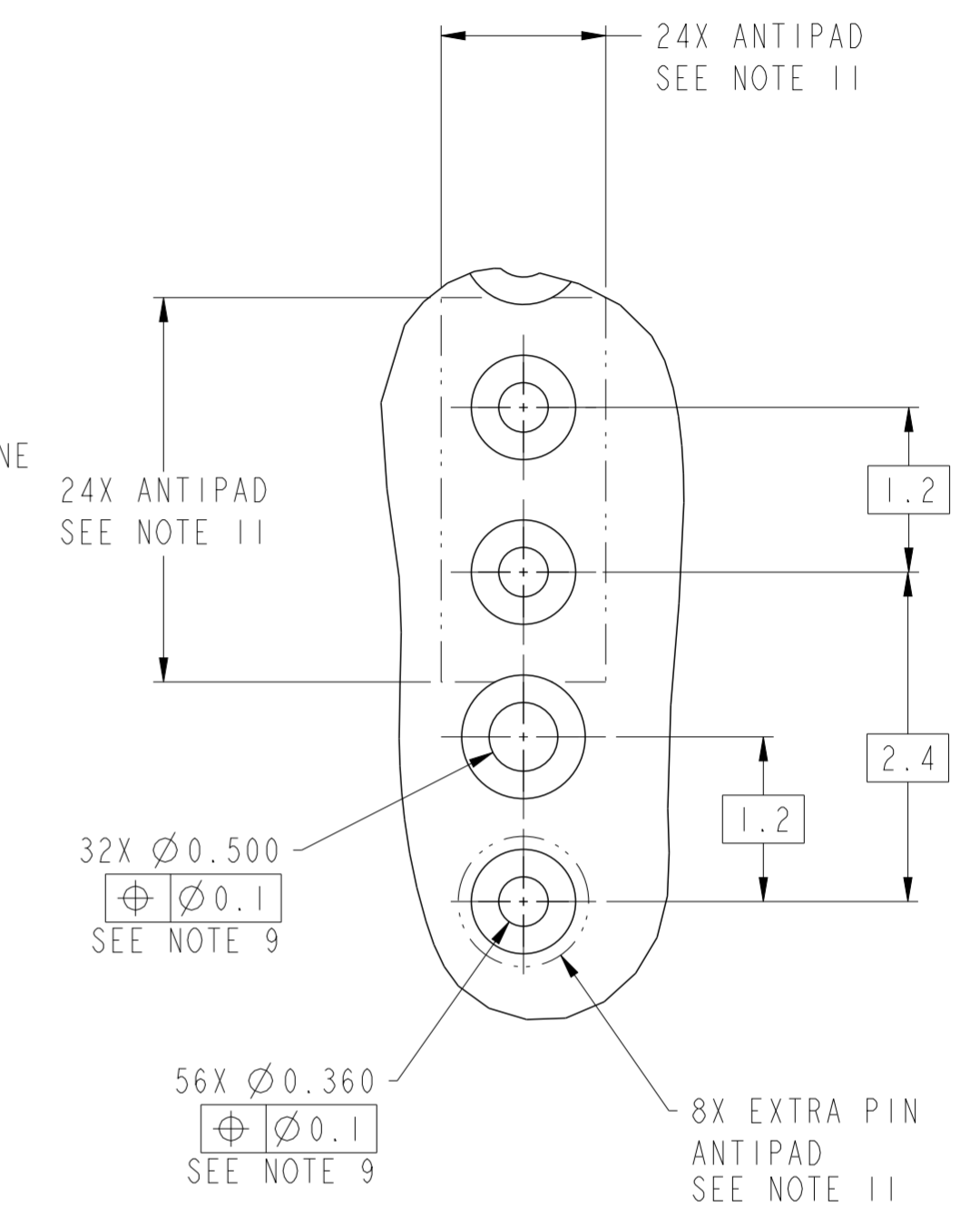
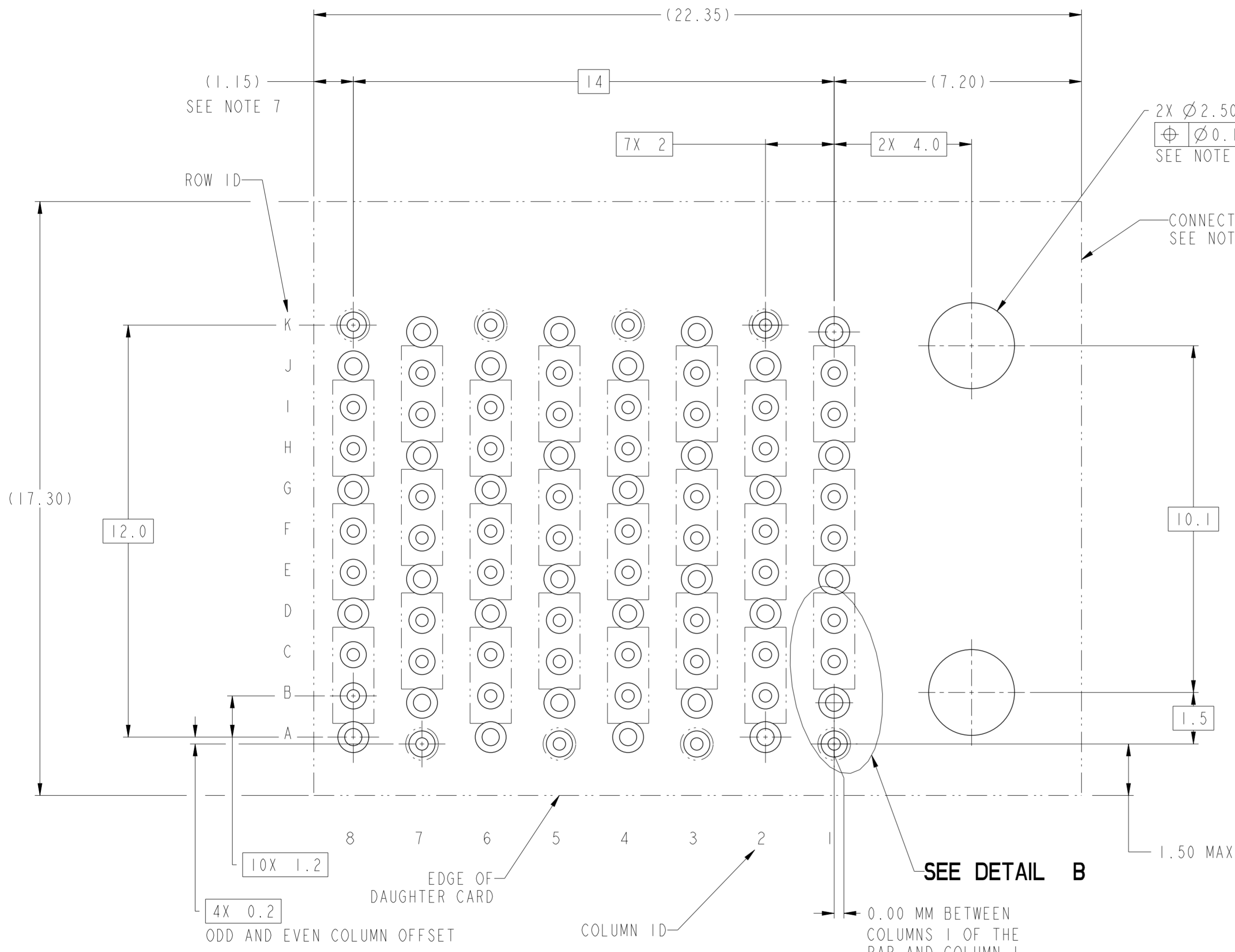


10124308-Y1AYLF THRU -Y1JYLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1



TOP SURFACE
OF DAUGHTER CARD

spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1							
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1									
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/22	product family	ExaMAX	rel level	Released					
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, 88 POS, 8 IMLA	dwg no 10124308	rev C
-	linear			0.X	±.3												
				0.XX	±.10												
		0.XXX	±.050														
	angular	0°	±°														
		cat. no.	Product - Customer Drw			sheet 6 of 10											



DETAIL B
SCALE 20:1

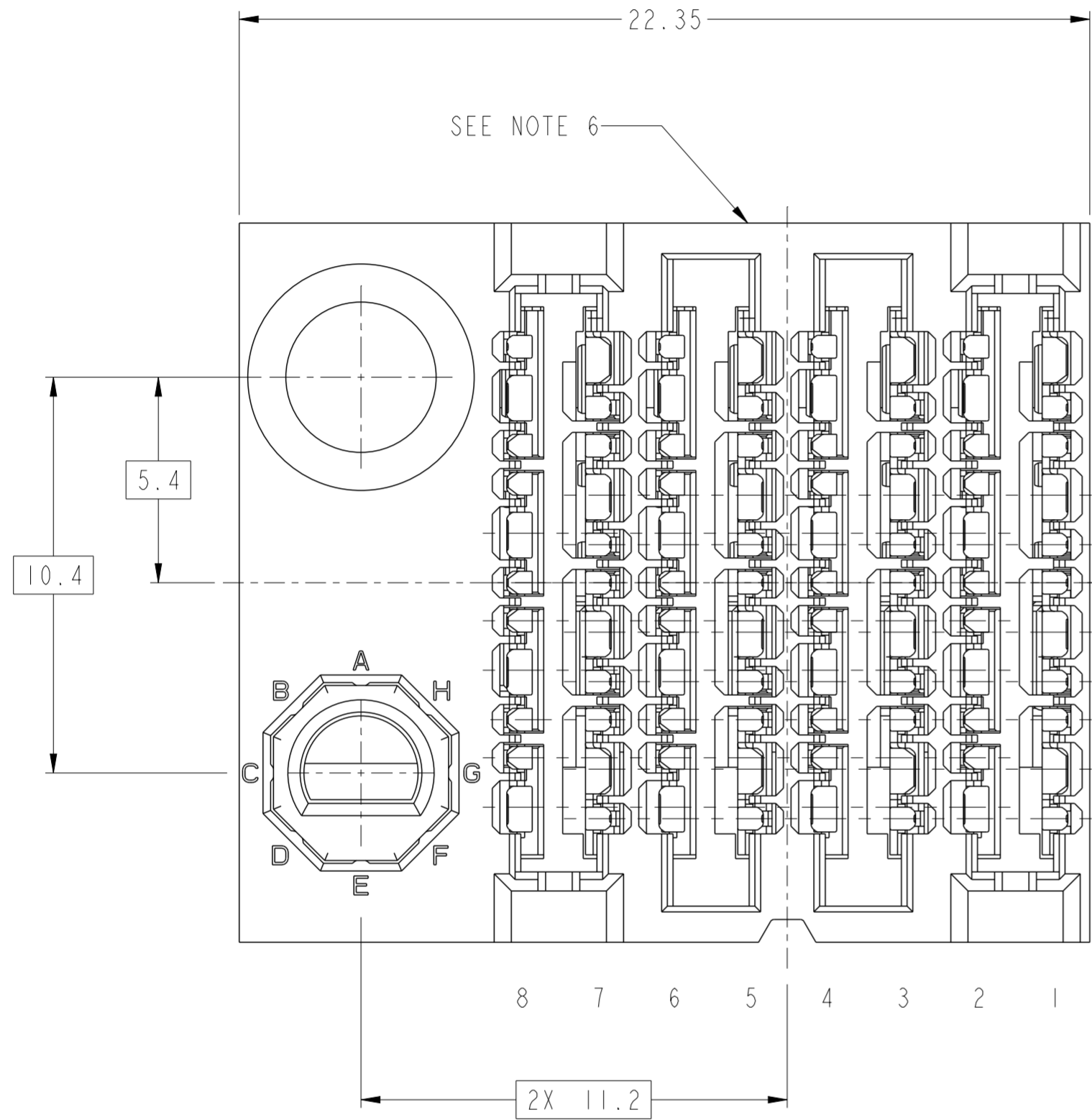
10124308-Y1AYLF THRU -Y1JYLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1	rel level	Released				
ASME Y14.5M		chr	-	apppr							Heaven Cen	2020/04/22	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, 88 POS, 8 IMLA
		cat. no.			Product - Customer Drw		sheet 7 of 10							

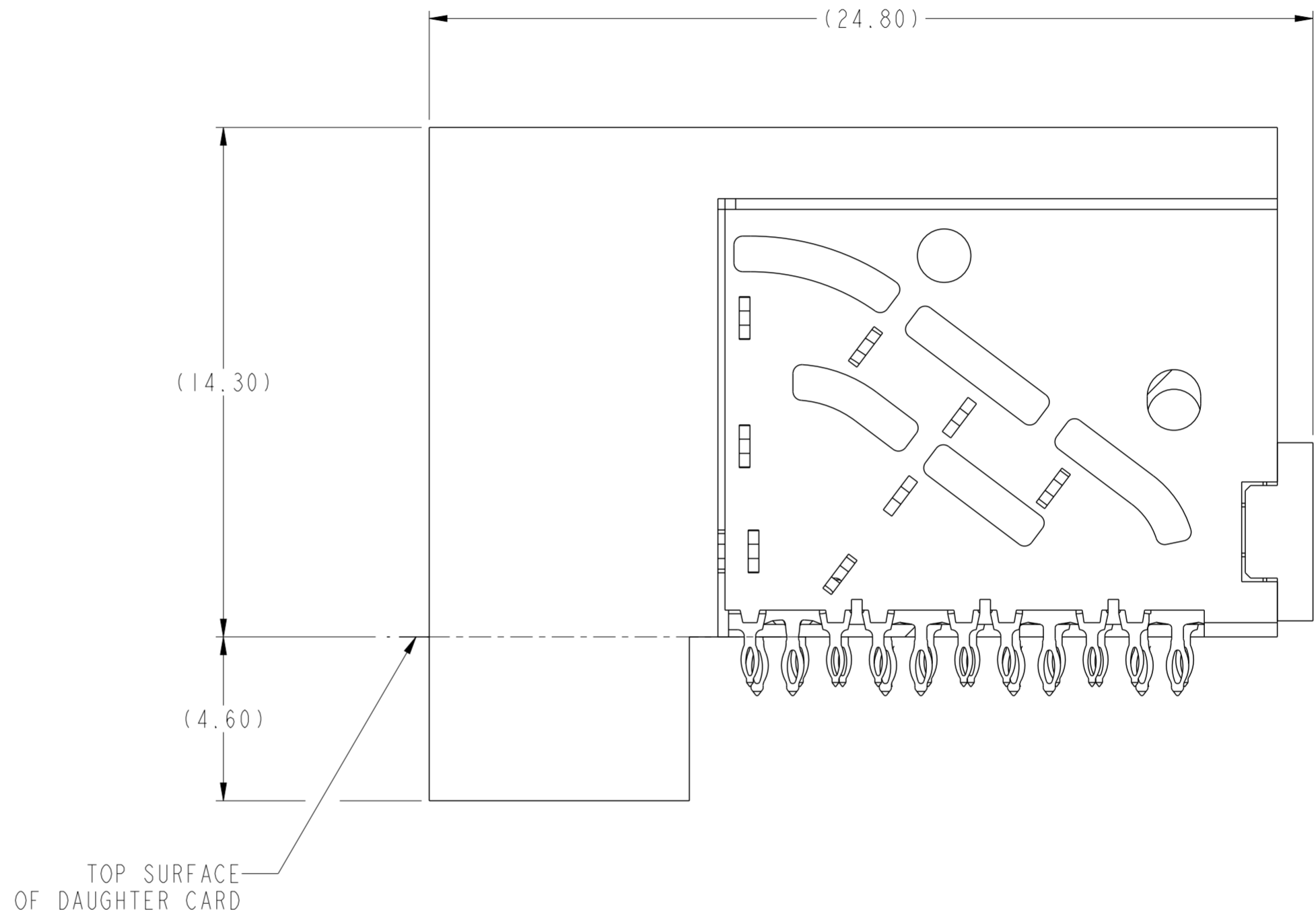
1 2 3 4 5 6 7 8

A
B
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F

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C
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F



K
J
I
H
G
F
E
D
C
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A



10124308-Y2AYLF THRU -Y2JYLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol
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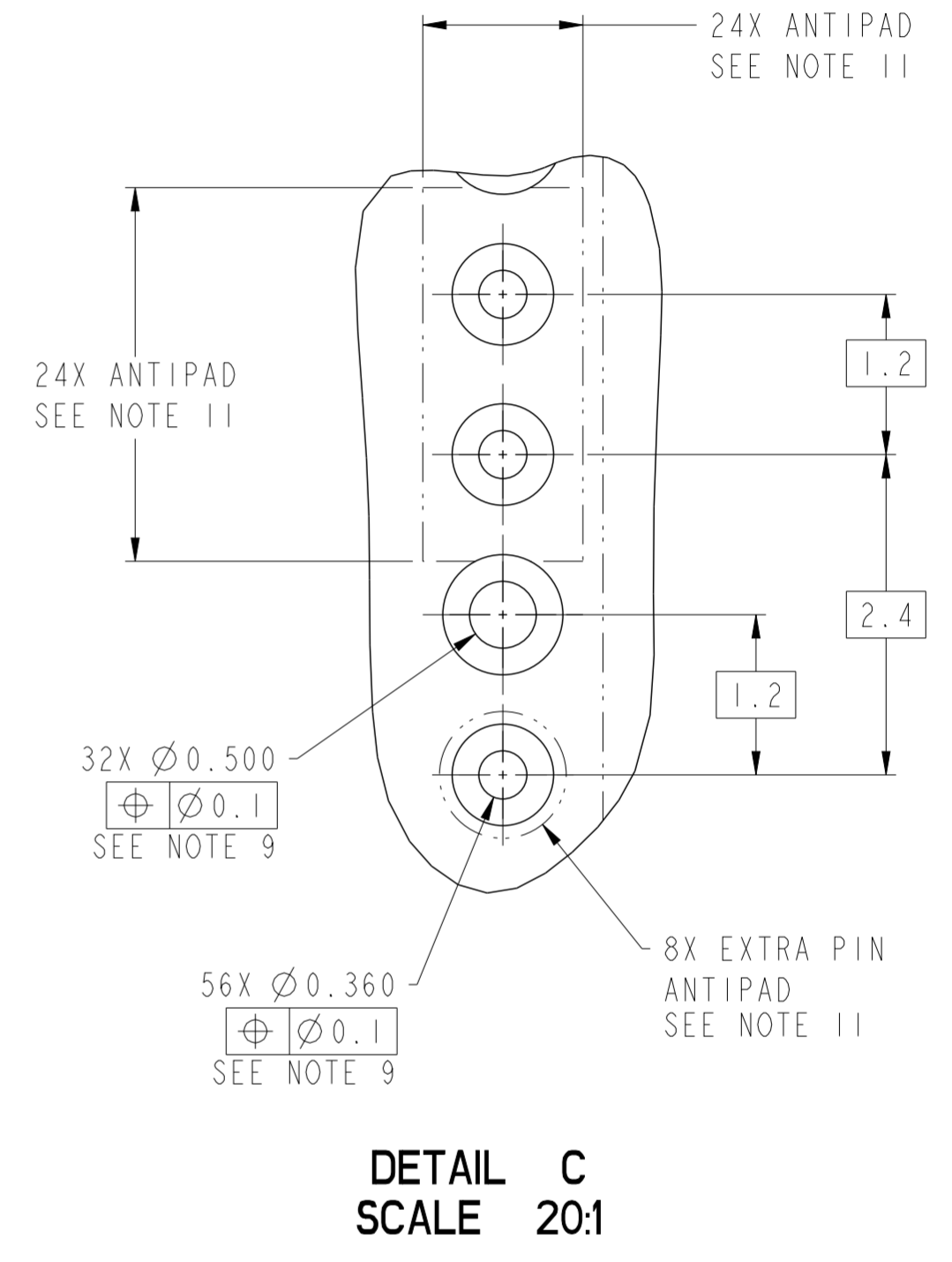
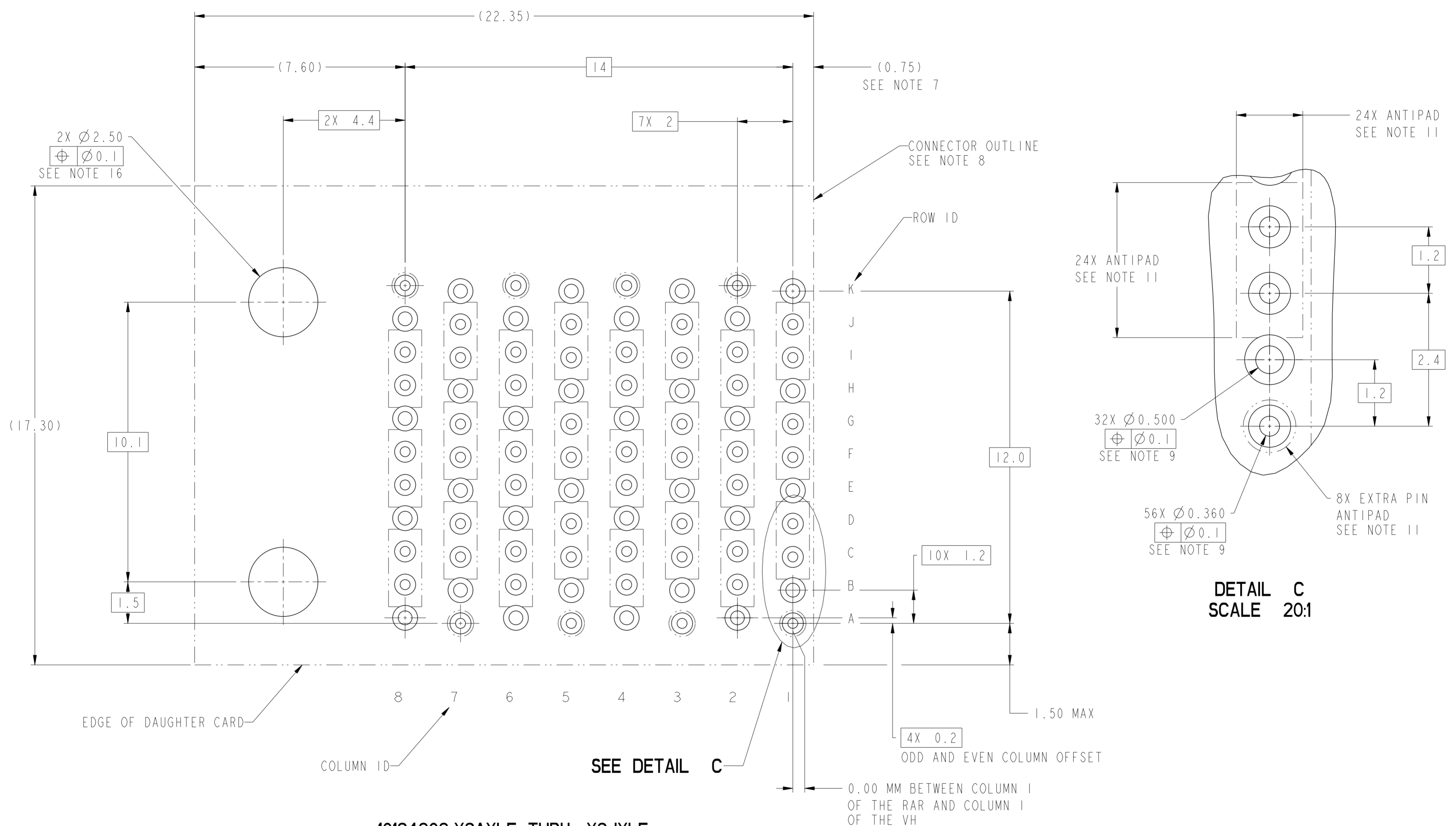
spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1														
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/22	product family	ExaMAX	rel level	Released										
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°	±°			title ExaMAX R.A. RECEPTACLE ASS'Y, 3 PR, 88 POS, 8 IMLA		dwg no 10124308	rev C	cat. no. Product - Customer Drw sheet 8 of 10		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				

PDS: Rev :C

STATUS:Released

Printed: Apr 22, 2020

1 2 3 4 5 6 7 8



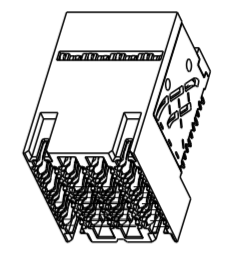
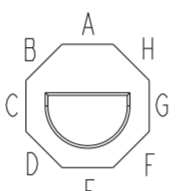
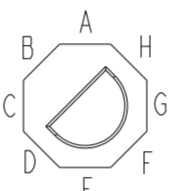
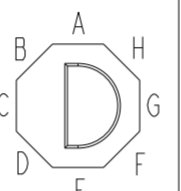
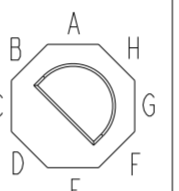
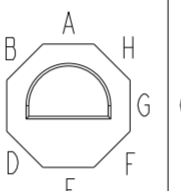
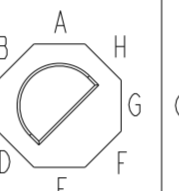
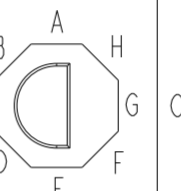
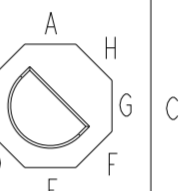
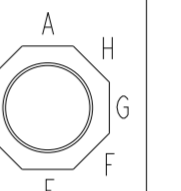
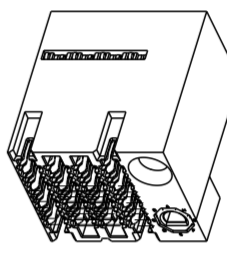
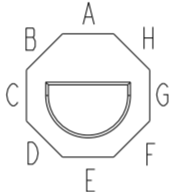

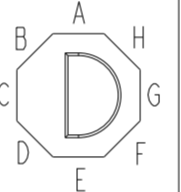
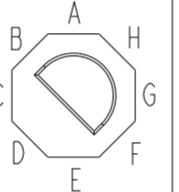
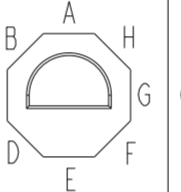
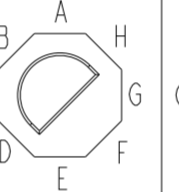
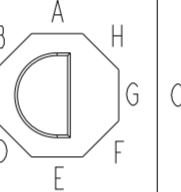
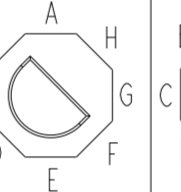
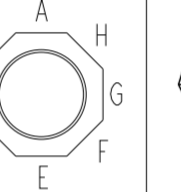
10124308-Y2AYLF THRU -Y2JYLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	SEE NOTES	dr	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	7:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14			ecn no	ELX-DG-35761-1	rel level	Released				
ASME Y14.5M		chr	-	apppr							Heaven Cen	2020/04/22	product family	ExaMAX
surface	linear	0.X	±.3	Amphenol FCi							title	ExaMAX R.A. RECEPTACLE	dwg no	10124308
	angular	0°	±°		ASS'Y, 3 PR, 88 POS, 8 IMLA	cat. no.	Product - Customer Drw	sheet 9 of 10						

10124308 - Y Y Y Y L F

PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10124308-1YYYYLF	STANDARD MATE
10124308-2YYYYLF	ADVANCED MATE
10124308-3YYYYLF	SHORT DETECT
10124308-4YYYYLF	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)										

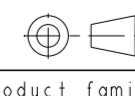
NOTES:

- 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, 10124308-2XXYLF, 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, 10124308-3XXYLF, 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, 10124308-4XXYLF, 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 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	Heaven Cen	2013/05/14	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/01/14		← →	ecn no	ELX-DG-35761-1	rel level	Released
ASME Y14.5M		chr								
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE	cat. no.	Product - Customer Drw	sheet 10 of 10	
		0.XX	±.10							
	angular	0°	±°							
		0.XXX	±.050			ASS'Y, 3 PR, 88 POS, 8 IMLA				