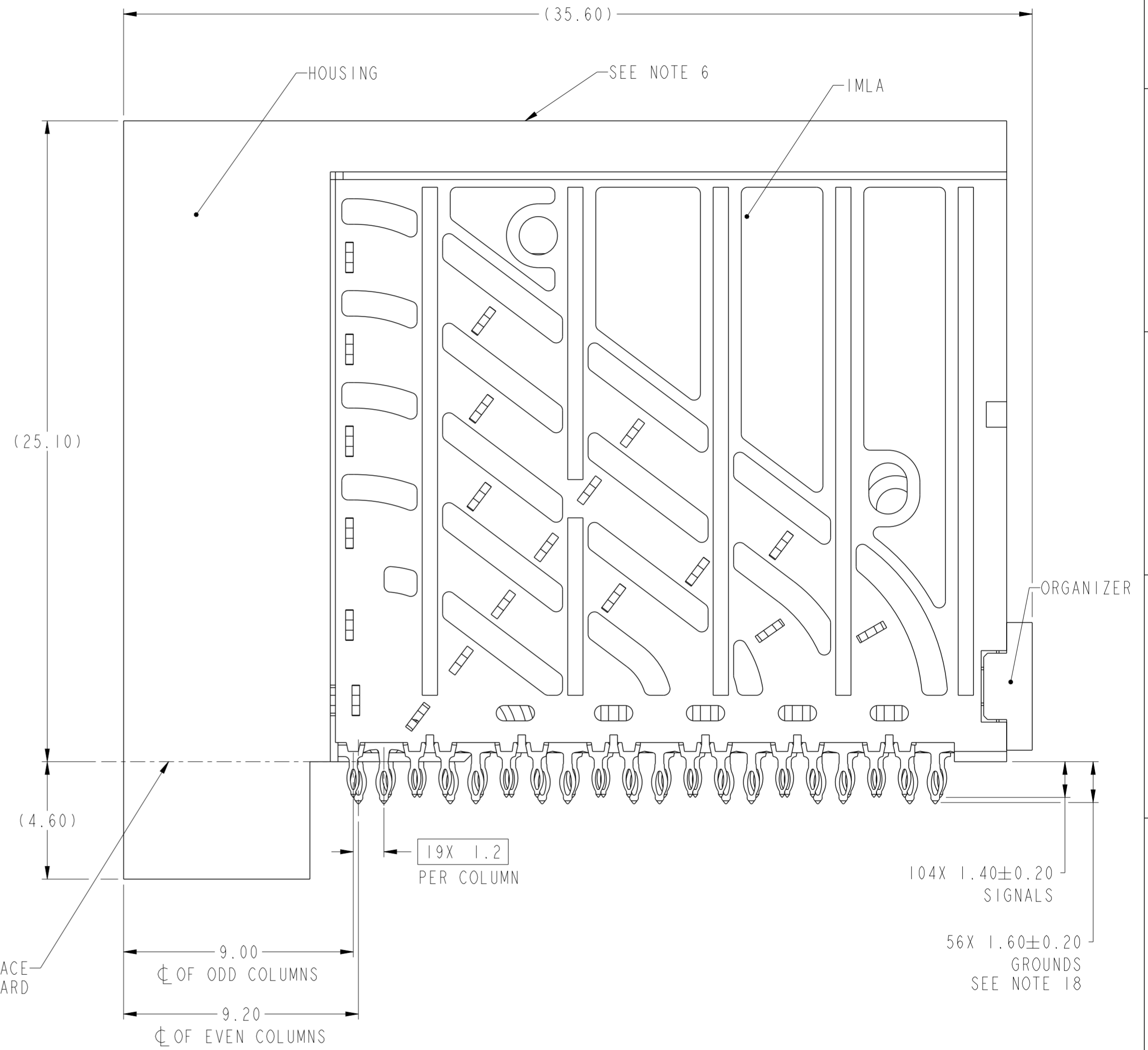
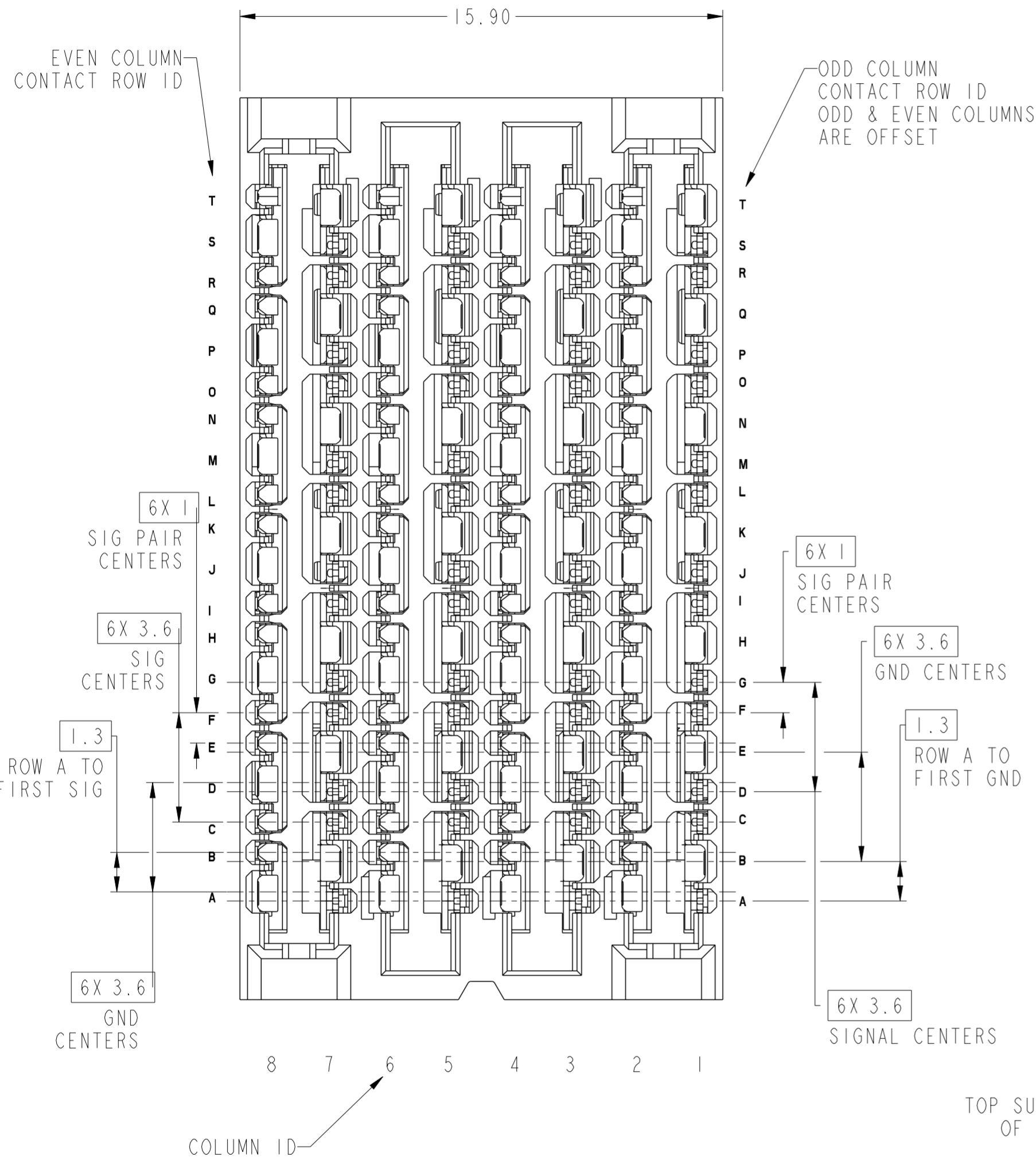


PRODUCT NUMBER
SEE TABLE



10124556-101LF
STANDARD MATE RECEPTACLE

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	7:1													
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1	rel level	Released													
ASME Y14.5M		chr	Justin Chen	2017/11/29							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°	±°	appr	Heaven Cen	2017/11/30	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE	dwg no	10124556	rev	B
linear	0.X	±.3																					
	0.XX	±.10																					
	0.XXX	±.050																					
angular	0°	±°																					
					cat. no.	SEE TABLE	Product - Customer Drw	sheet 1 of 10															

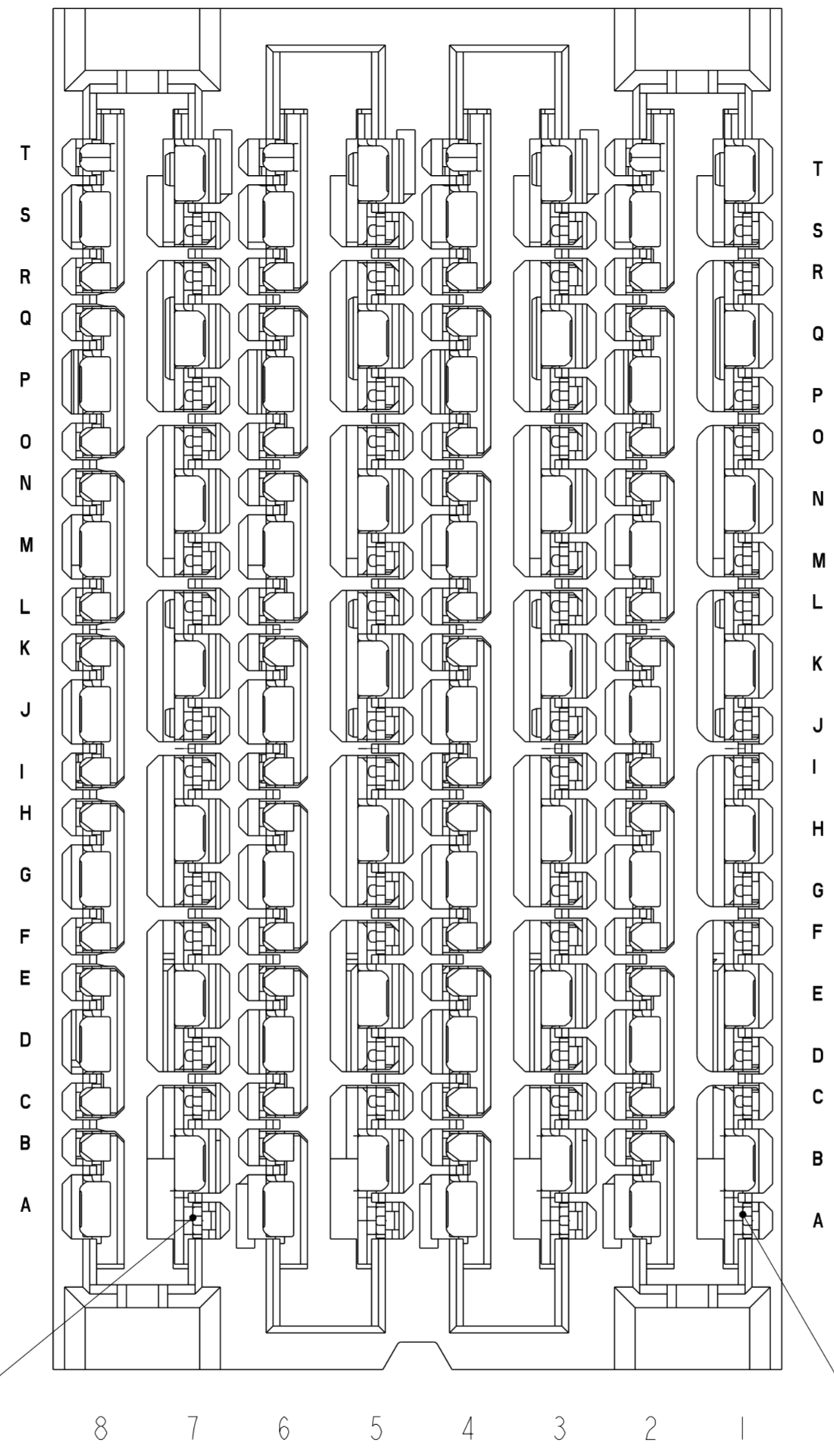
PDS: Rev :B

STATUS:Released

Printed: Dec 11, 2017

Amphenol FCI

© 2016 AFCI



ADVANCED MATE POSITION A7
SEE NOTE 13

ADVANCED MATE POSITION A1
SEE NOTE 13

10124556-201LF
ADVANCED MATE RECEPTACLE
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
 FOR ALL DIMENSIONS SEE 10124556-101LF ON SHEET 1

Amphenol FCI

© 2016 AFci

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	3:1										
tolerance std	ASME Y14.5M	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1												
		chr	Justin Chen	2017/11/29			rel level	Released												
surface	<table border="1"> <tr> <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>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3	0.XX	±.10	0.XXX	±.050	angular	0°	±°	appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level	Released		
linear	0.X		±.3																	
	0.XX		±.10																	
	0.XXX	±.050																		
angular	0°	±°																		
		Amphenol FCI	title ExaMAX R.A. RECEPTACLE ASS'Y, 6 PR, 160 POS, 8 IMLA			cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 10	rev	B									

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

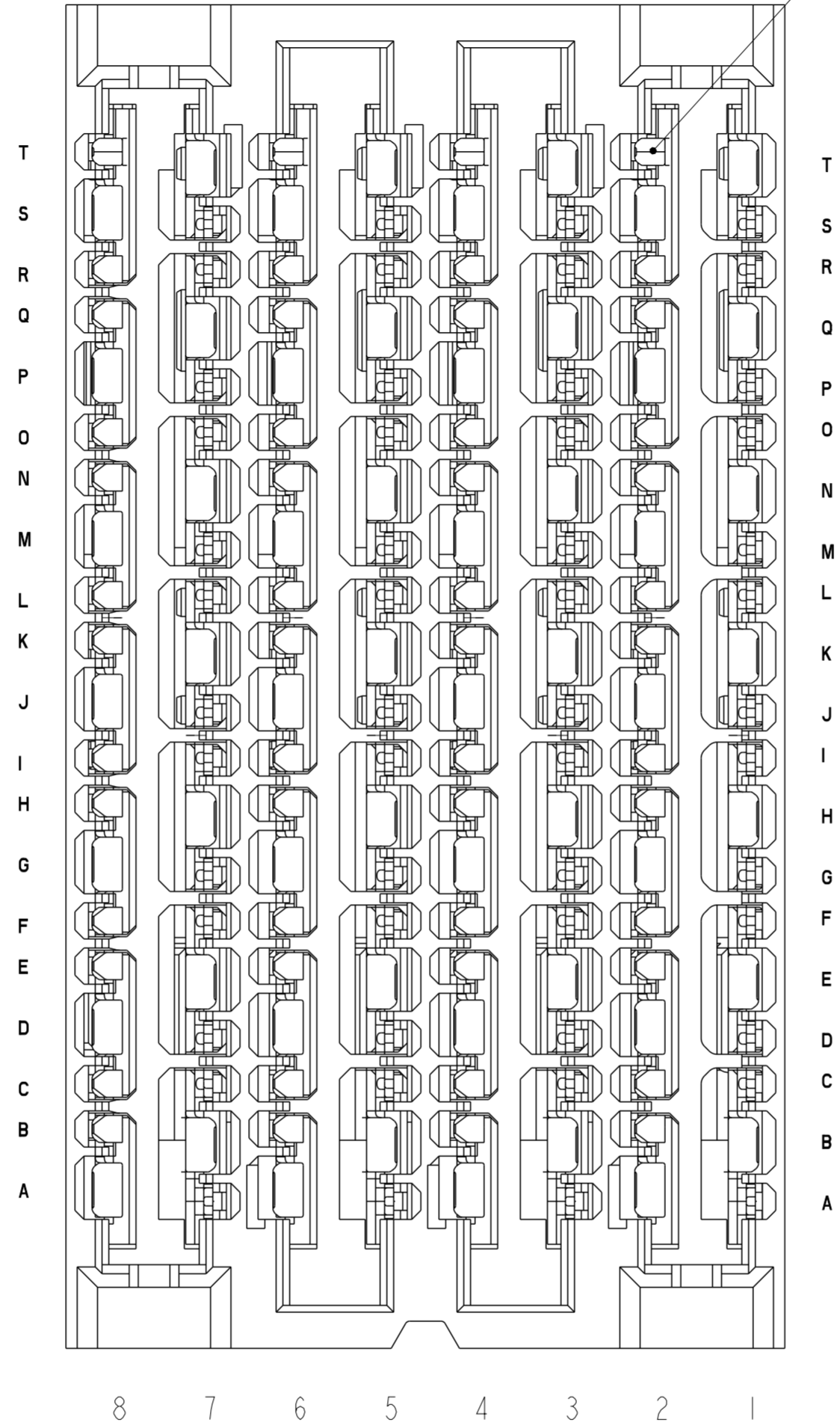
C

D

E

F

SHORT DETECT
POSITION T2
SEE NOTE 14

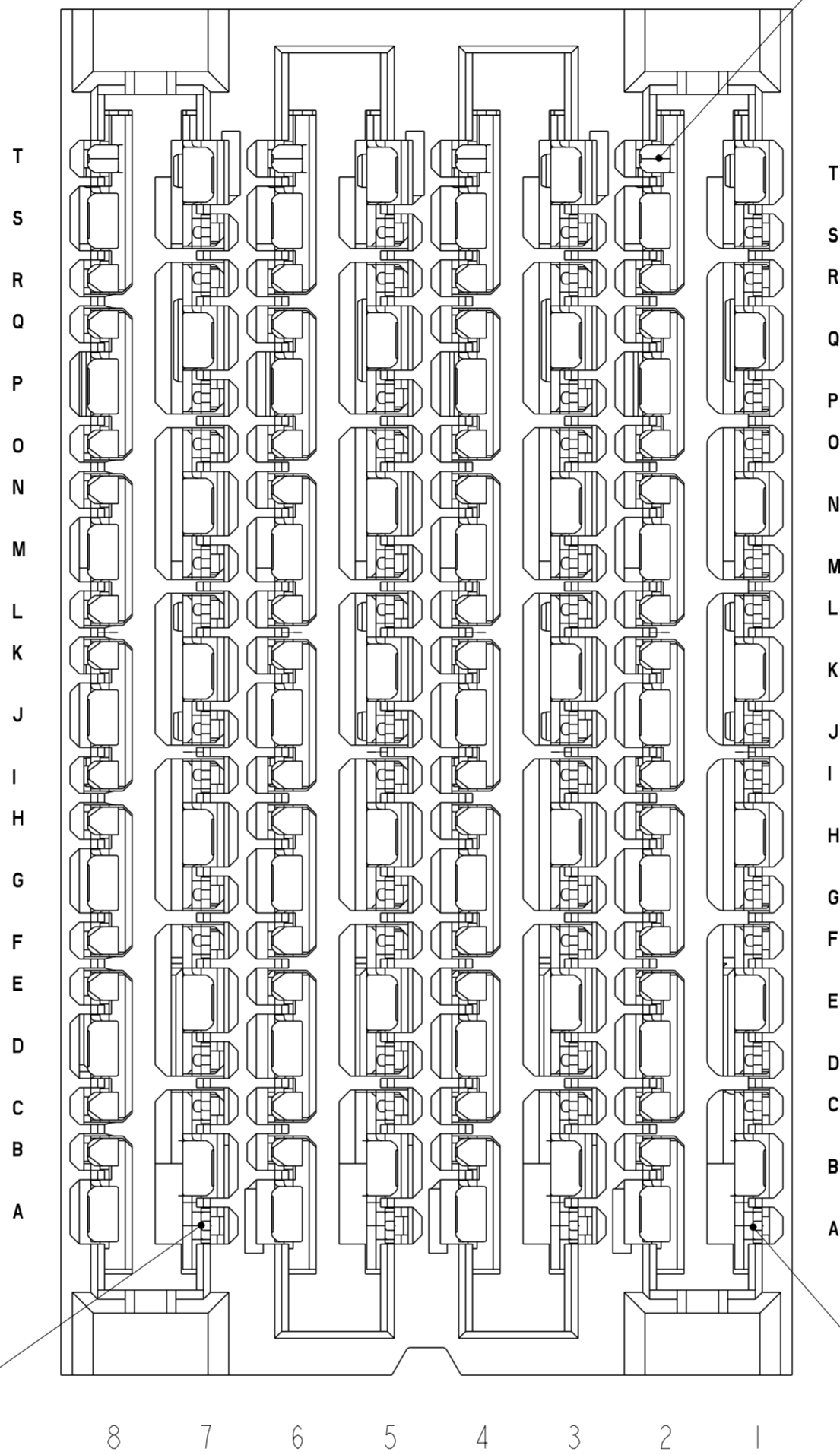


10124556-301LF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS POSITION T2
FOR ALL DIMENSIONS SEE 10124556-101LF ON SHEET 1

Amphenol
FCi

© 2016 AFci

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	3:1												
tolerance std	ASME Y14.5M	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1														
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			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°	±°	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX R.A. RECEPTACLE ASS'Y, 6 PR, 160 POS, 8 IMLA		dwg no 10124556	rev B															
				cat. no.		SEE TABLE	Product - Customer Drw		sheet 3 of 10													



SHORT DETECT
POSITION T2
SEE NOTE 15

ADVANCED MATE
POSITION A7
SEE NOTE 15

ADVANCED MATE
POSITION A1
SEE NOTE 15

10124556-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
SHORT DETECT POSITION IS POSITION T2
FOR ALL DIMENSIONS SEE 10124556-101LF ON SHEET 1

**Amphenol
FCi**

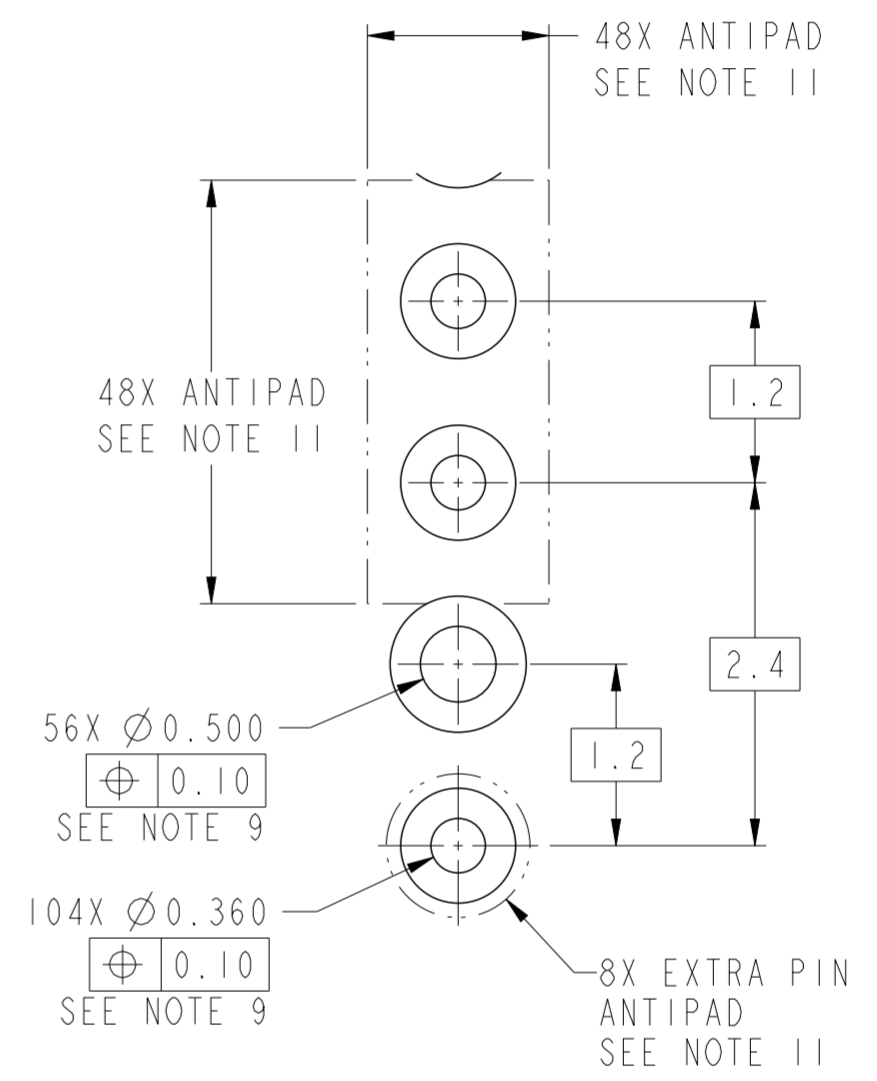
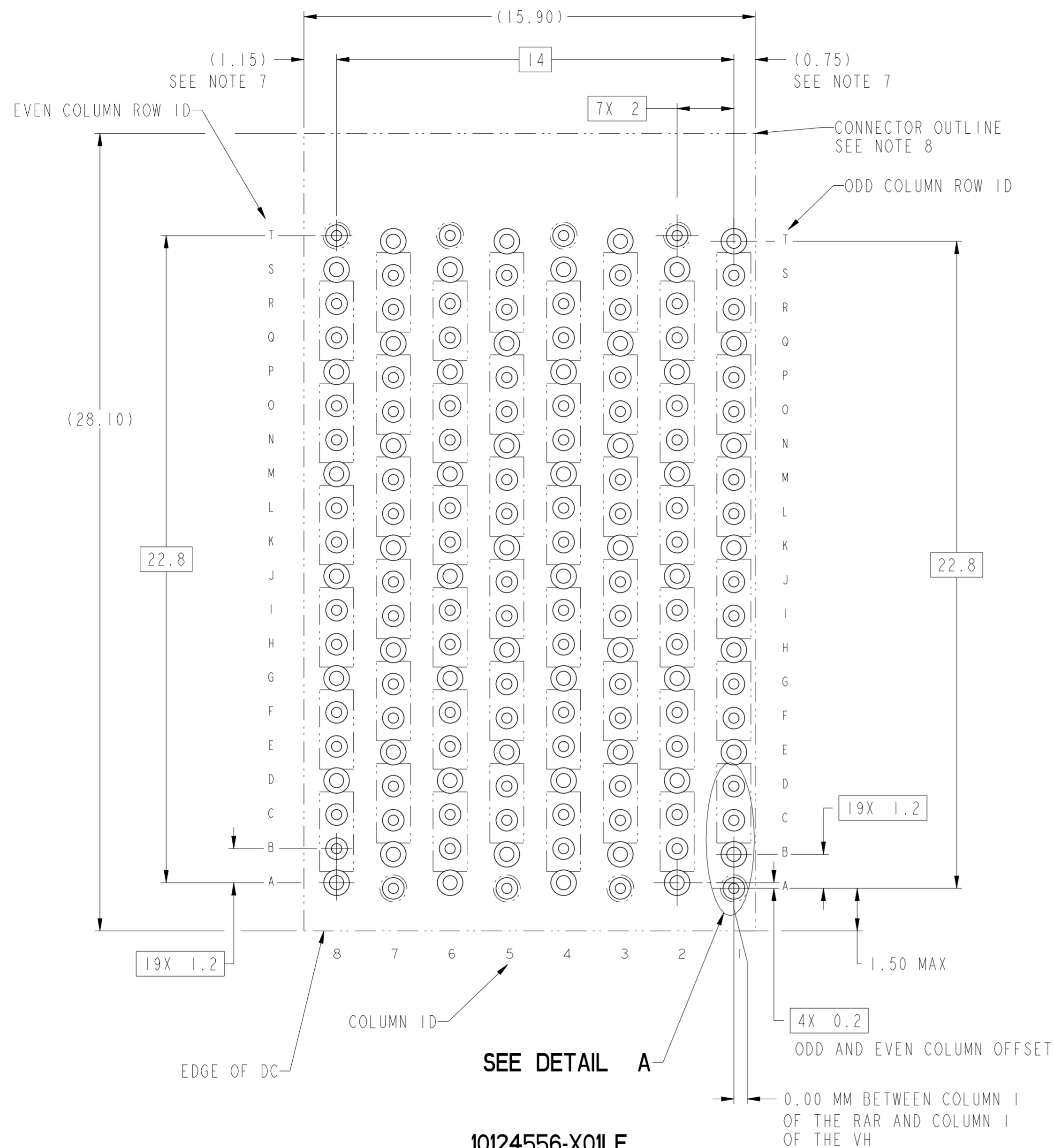
© 2016 AFCI

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	3:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			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°	±°	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear		0.X	±.3																			
		0.XX	±.10																			
	0.XXX	±.050																				
angular	0°	±°																				
		Amphenol FCi	title ExaMAX R.A. RECEPTACLE ASS'Y, 6 PR, 160 POS, 8 IMLA			dwg no	10124556		rev	B												
			cat. no.	SEE TABLE	Product - Customer Drw	sheet 4 of 10																

PDS: Rev :B

STATUS:Released

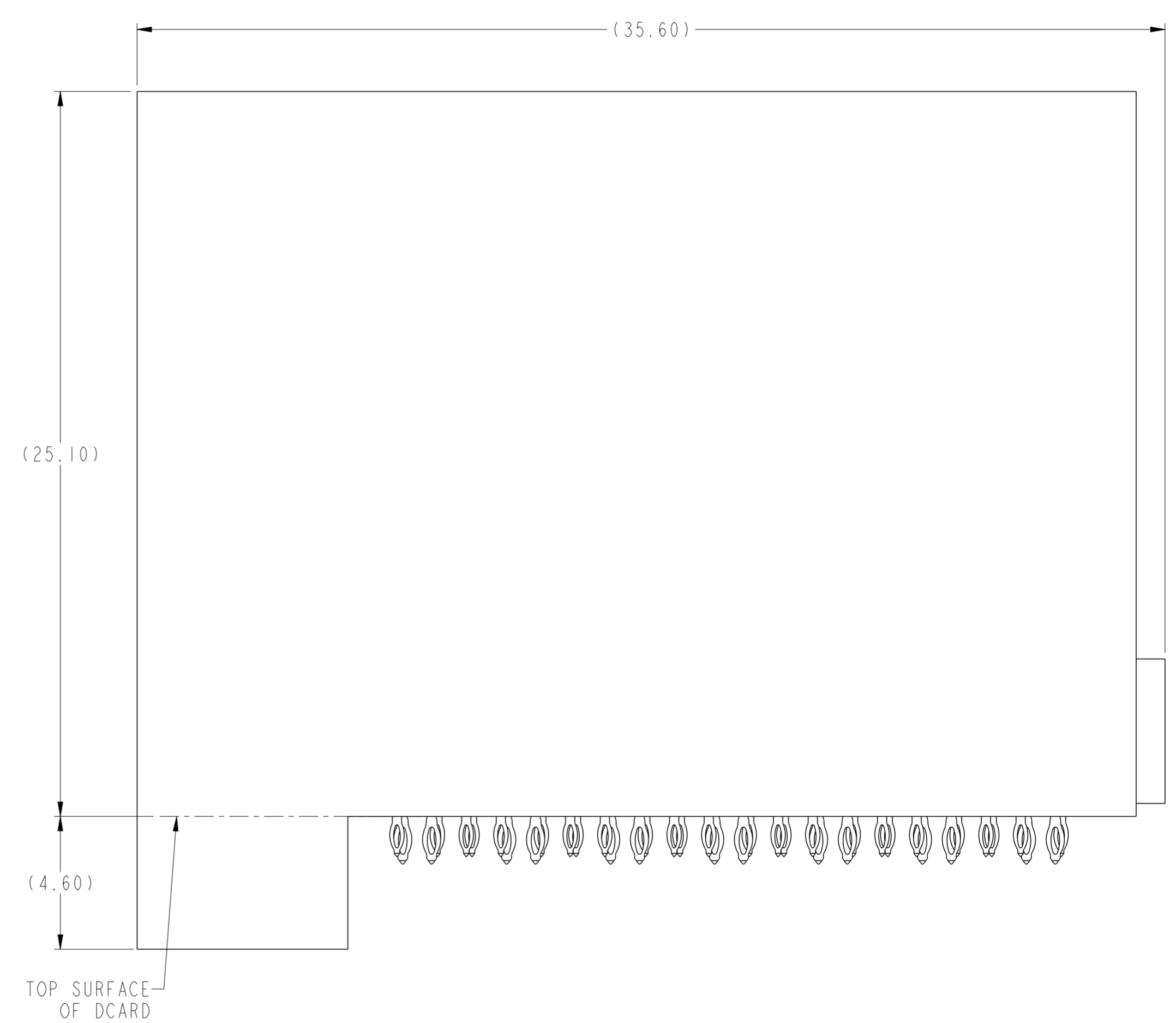
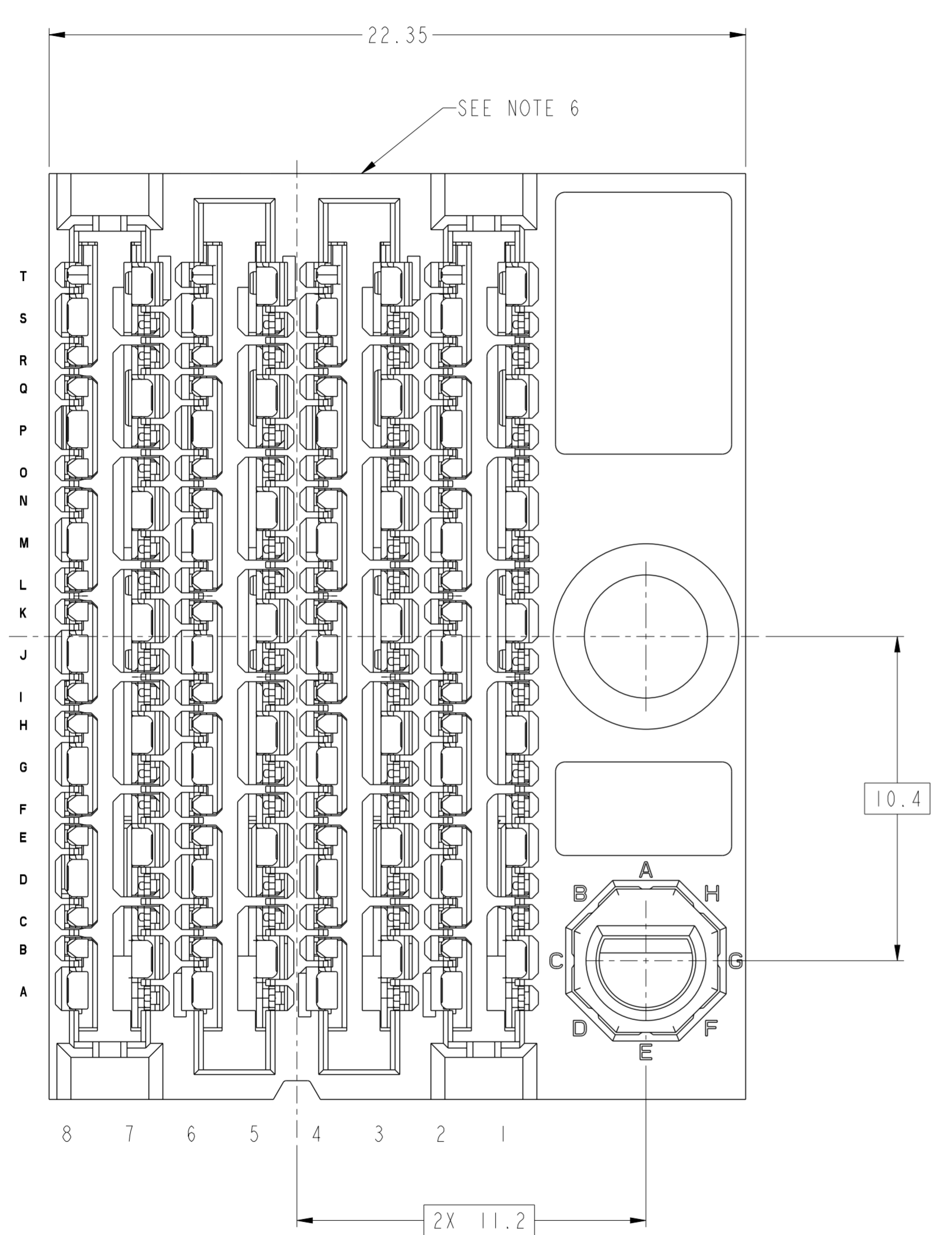
Printed: Dec 11, 2017



DETAIL A
SCALE 20:1

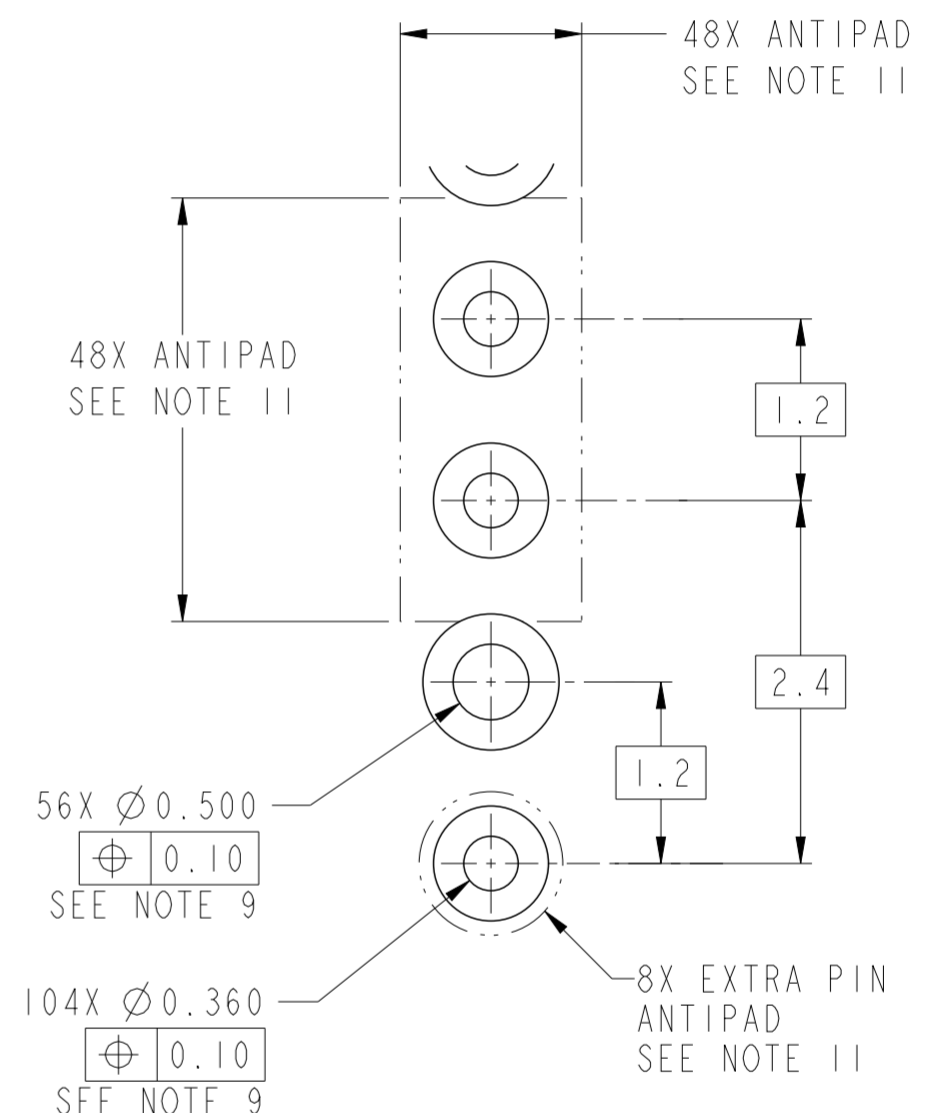
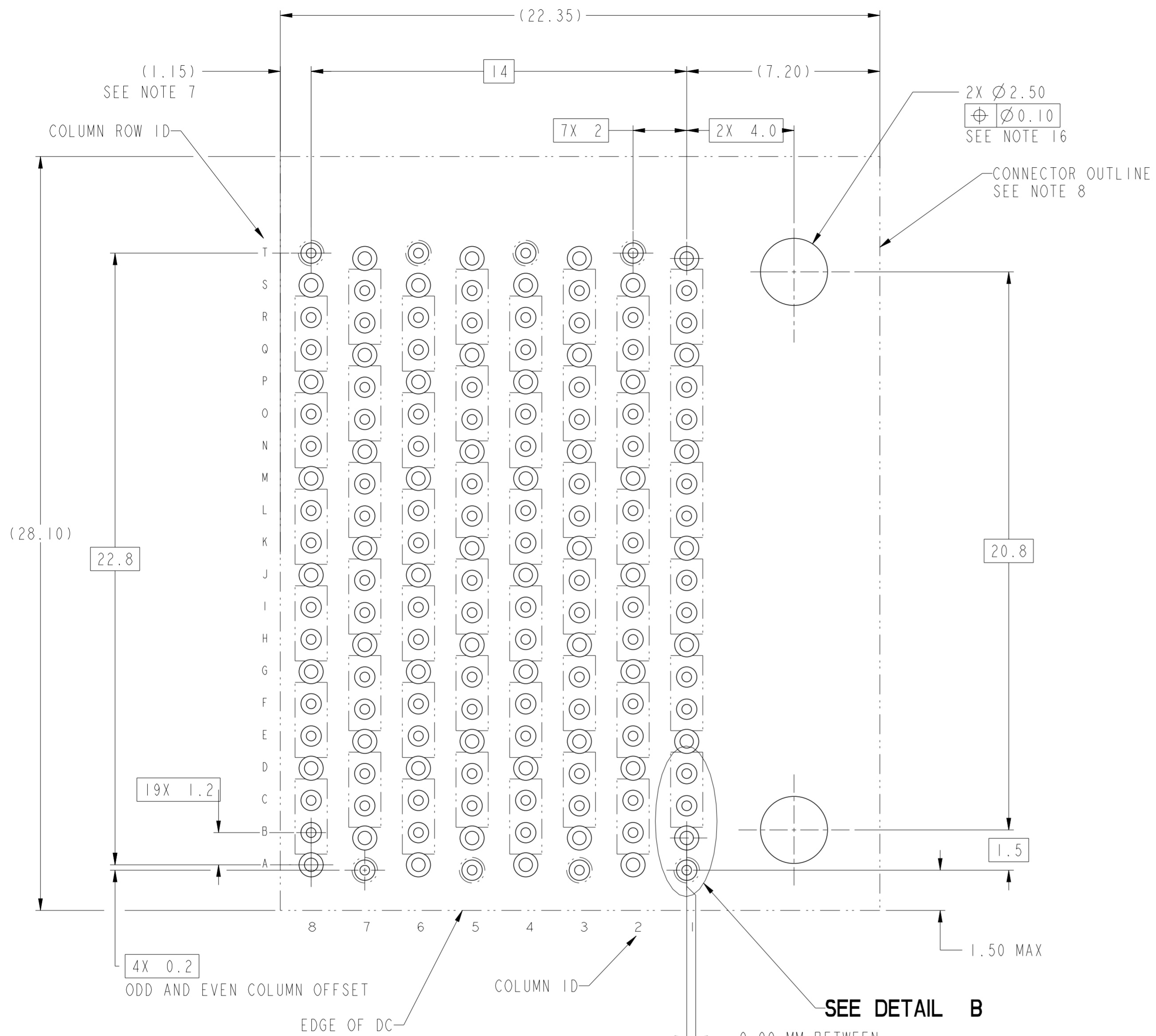
10124556-X01LF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 8:1

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	1:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			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°	±°	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		Amphenol FCi	title ExaMAX R.A. RECEPTACLE ASS'Y, 6 PR, 160 POS, 8 IMLA			dwg no	10124556		rev	B												
			cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 10																



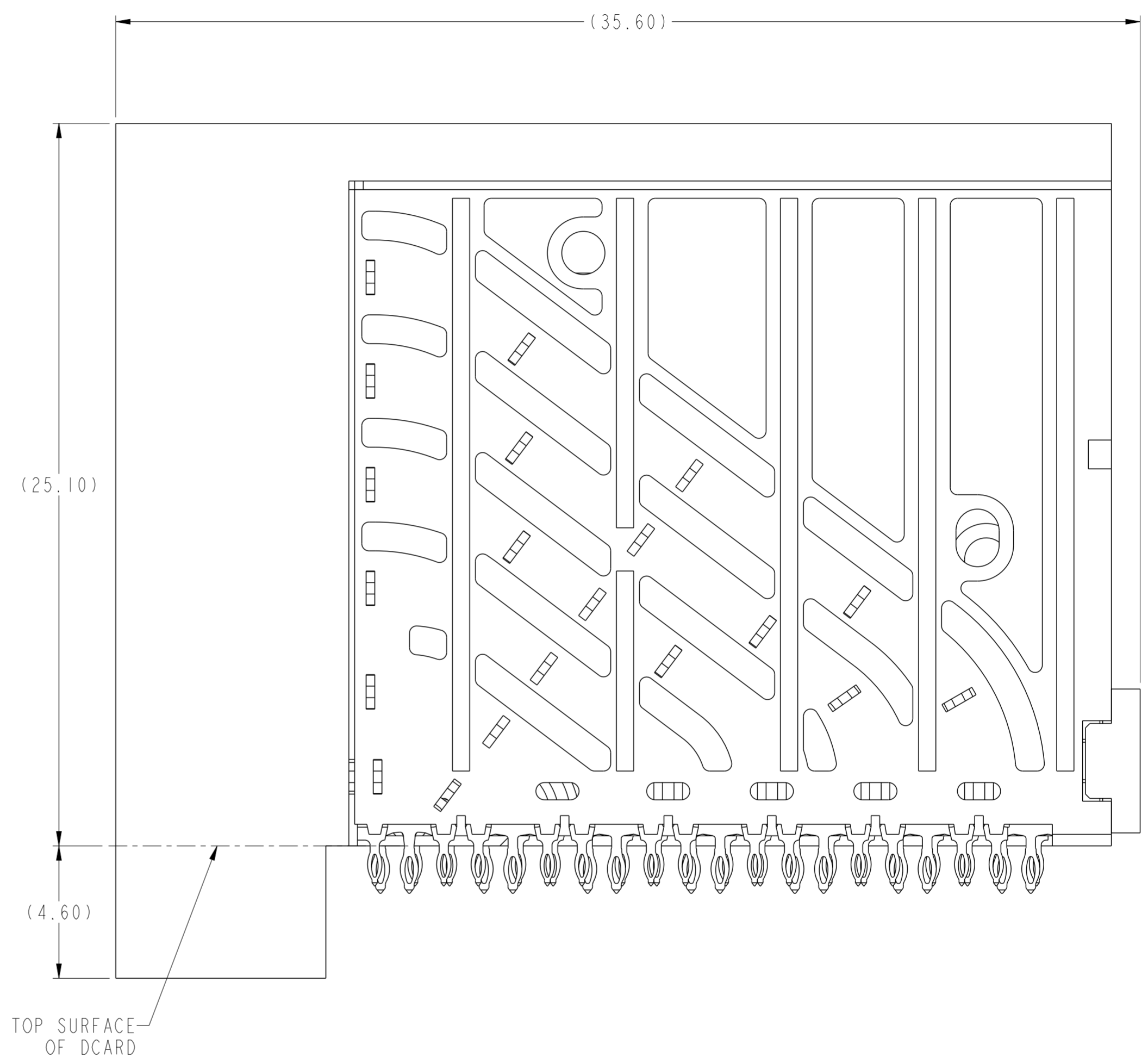
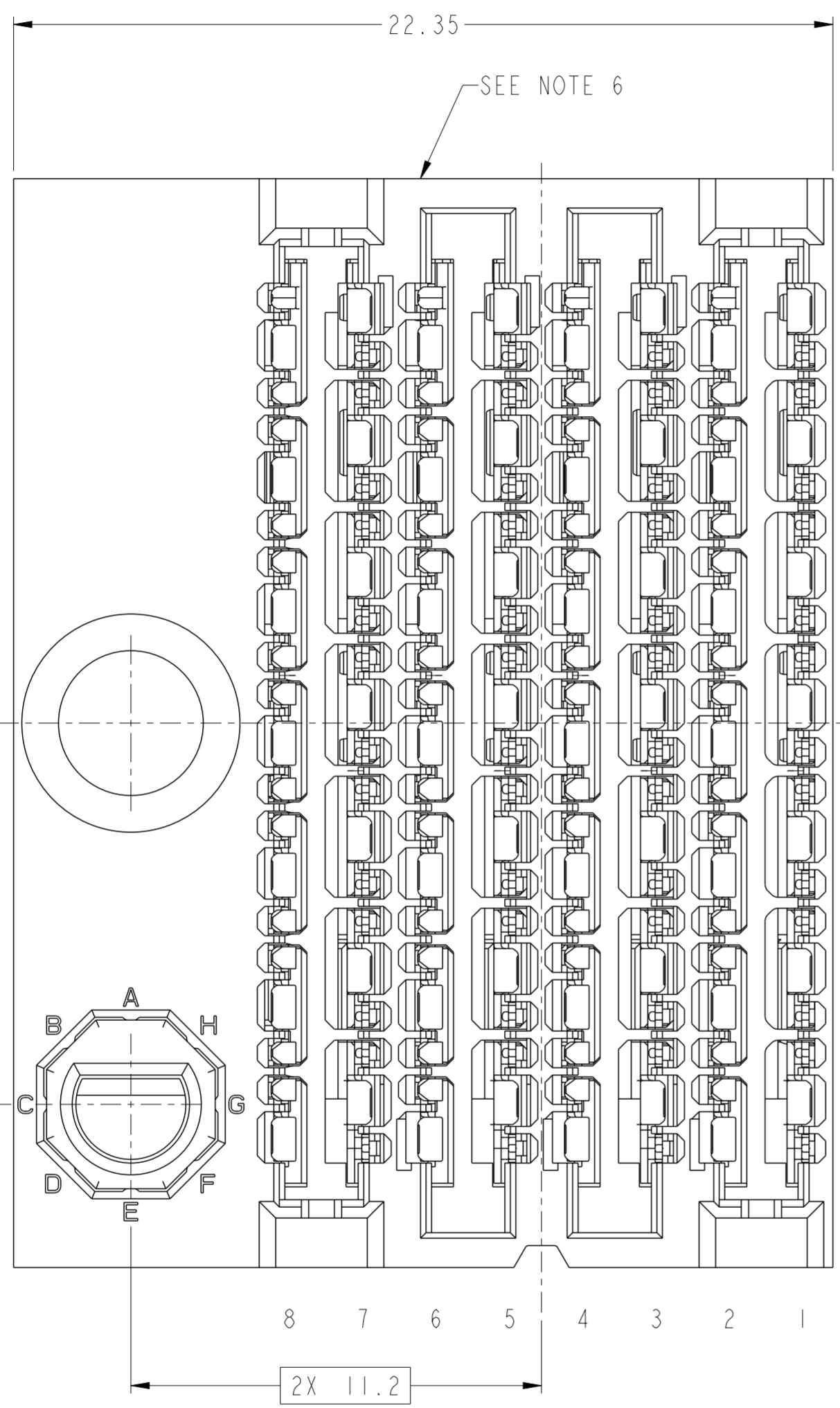
10124556-X1ALF THRU -X1JLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSIONS SEE 10124556-101LF ON SHEET 1
SCALE 7:1

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	8:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			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°	±°	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		Amphenol FCi	title			ExaMAX R.A. RECEPTACLE		dwg no	10124556													
			ASS'Y, 6 PR, 160 POS, 8 IMLA			rel level	B		cat. no.	SEE TABLE												
			Product - Customer Drw			sheet 6 of 10																



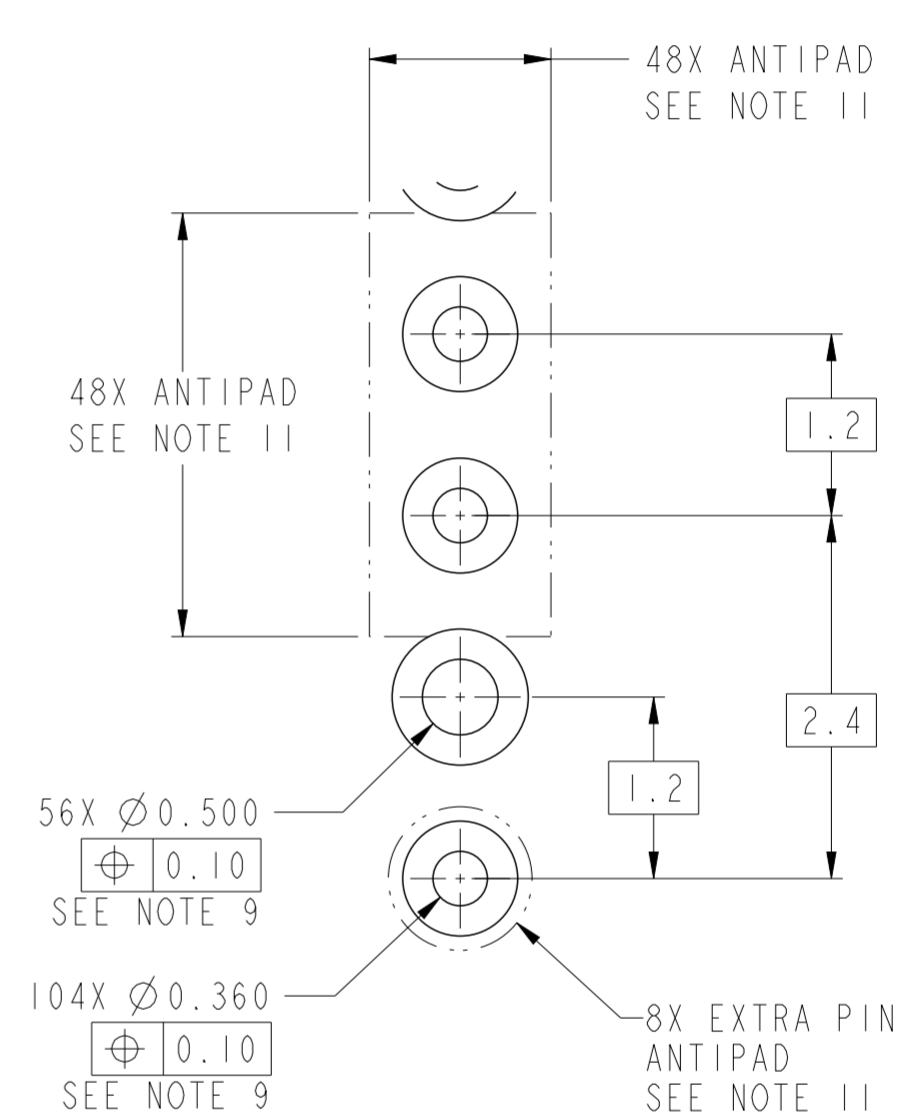
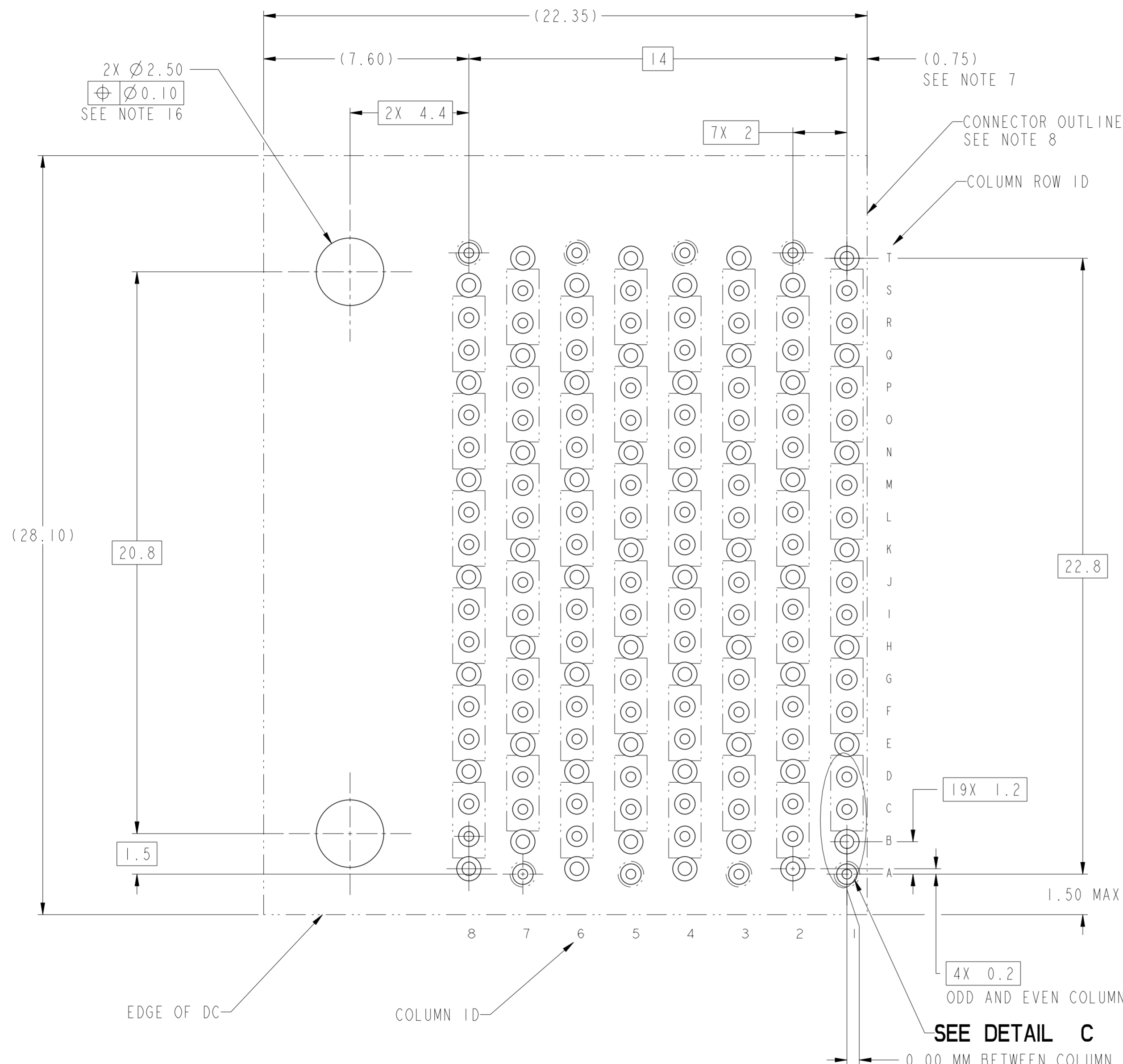
**10124556-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1**

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	8:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1	rel level	Released	
ASME Y14.5M		chr	Justin Chen	2017/11/29							
		appr	Heaven Cen	2017/11/30							
surface	linear	0.X	±.3		product family		ExaMAX	title ExaMAX R.A. RECEPTACLE ASS'Y, 6 PR, 160 POS, 8 IMLA	dwg no 10124556	rev B	
		0.XX	±.10		cat. no.	SEE TABLE	Product - Customer Drw				sheet 7 of 10
	angular	0°	±°								



10124556-X2ALF THRU -X2JLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSIONS SEE 10124556-101LF ON SHEET 1
SCALE 7:1

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	8:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1	rel level	Released										
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX		rel level	Released									
		appr	Heaven Cen	2017/11/30			dwg no	10124556		rev	B									
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, 6 PR, 160 POS, 8 IMLA		cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 10
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		

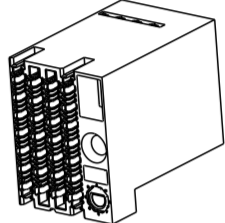
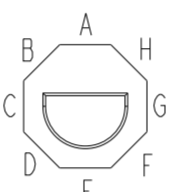
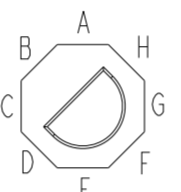
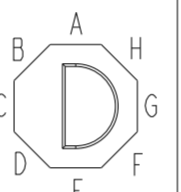
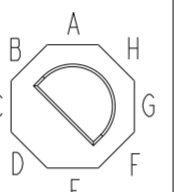
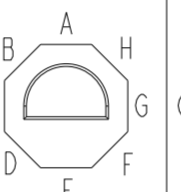
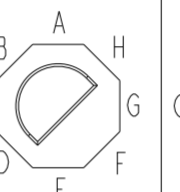
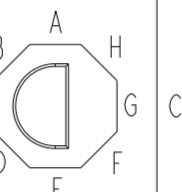
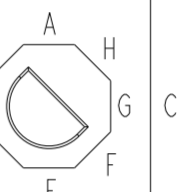
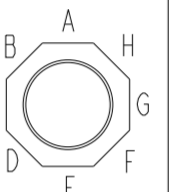
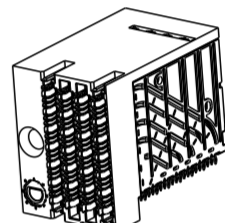
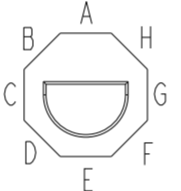

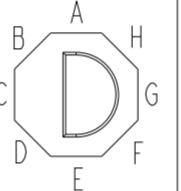
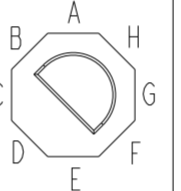
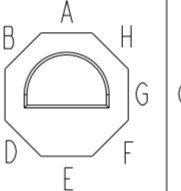
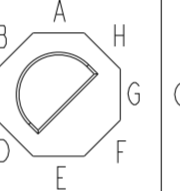
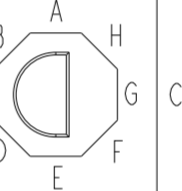
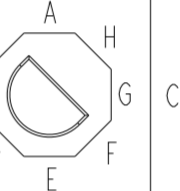
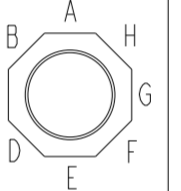


10124556-X2ALF THRU -X2JLF
 RECOMMENDED PCB LAYOUT
 COMPONENT SIDE
 NOTES 7, 8, 9, 11 & 16
 SCALE 8:1

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	8:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27			ecn no	ELX-DG-28235-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX		
		appr	Heaven Cen	2017/11/30			title	ExaMAX R.A. RECEPTACLE ASS'Y, 6 PR, 160 POS, 8 IMLA		dwg no
surface	linear	0.X	±.3		cat. no.	SEE TABLE	Product - Customer Drw	sheet 9 of 10		
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							

10124556 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10124556-1YYLF	STANDARD MATE
10124556-2YYLF	ADVANCED MATE
10124556-3YYLF	SHORT DETECT
10124556-4YYLF	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 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, 10124556-2XXLF, 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, 10124556-3XXLF, WHEN MATED WITH A STANDARD MATE VERTICAL HEADER OR A STANDARD MATE RIGHT-ANGLE HEADER, WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮ - THE ADVANCED MATE/SHORT DETECT RECEPTACLE, 10124556-4XXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER OR AN ADVANCED MATE RIGHT-ANGLE HEADER, WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75 MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS AND 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM 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 SCREW 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 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 ANGLE RECEPTACLE.)
- ⑱ - ALL GROUND CONTACTS ARE COMMONED WITHIN A COLUMN.

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/05	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Norman Luo	2017/10/27		←	ecn no	ELX-DG-28235-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	linear	0.X	±.3	Amphenol FCI	product family	ExaMAX	rel level	10124556	rev	B
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°	title	ExaMAX R.A. RECEPTACLE	cat. no.	SEE TABLE	Product - Customer Drw	sheet 10 of 10	