

PRODUCT NUMBER
SEE TABLE

EVEN COLUMN CONTACT ROW ID

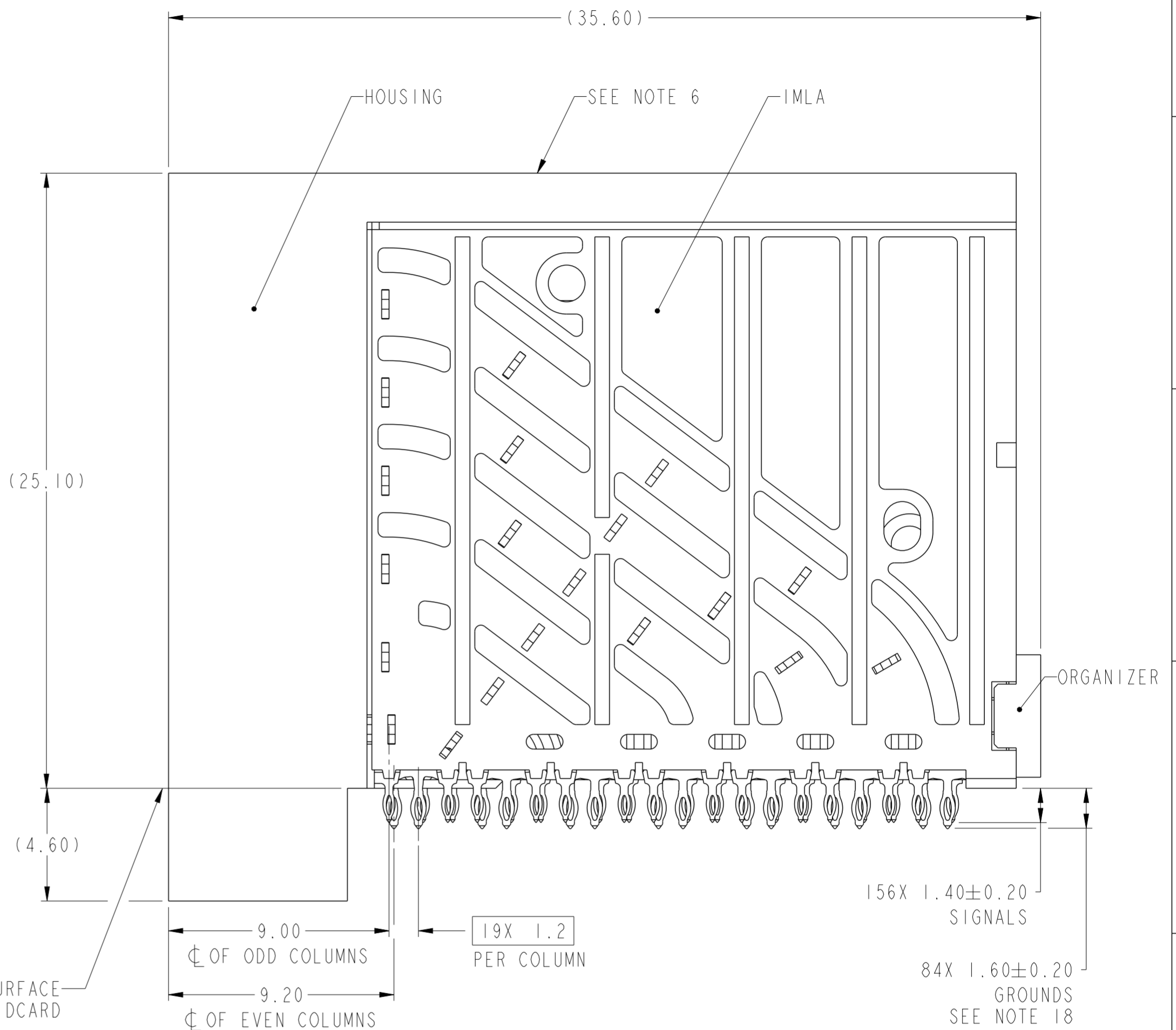
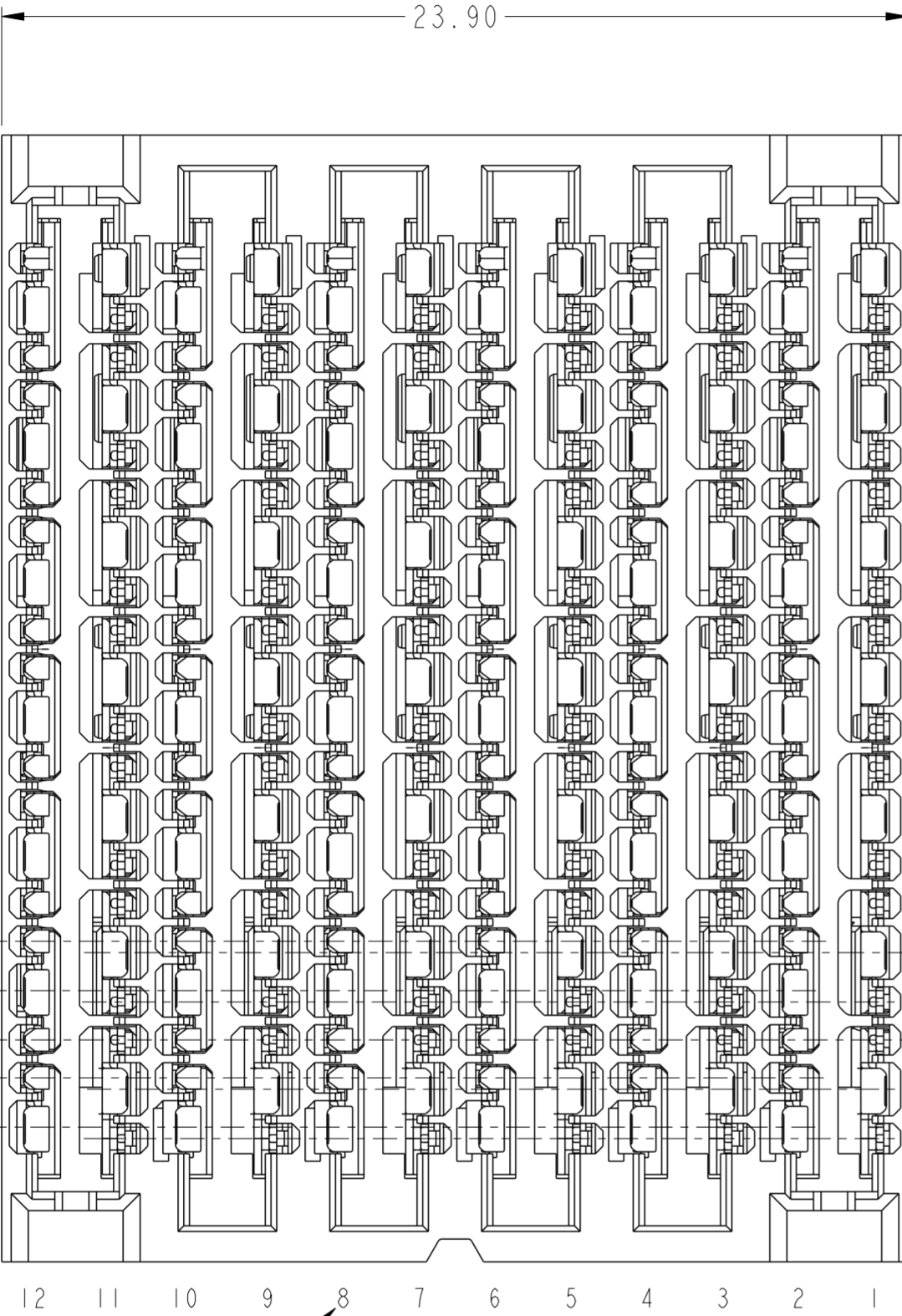
ODD COLUMN CONTACT ROW ID
ODD & EVEN COLUMNS ARE OFFSET

HOUSING

SEE NOTE 6

IMLA

ORGANIZER



10123159-101LF
STANDARD MATE RECEPTACLE
SCALE 6:1

Amphenol FCI

© 2016 AFCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			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	<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 ASSY 6 PR, 12 IMLA, 240 POS, 24mm		product family ExaMAX	rel level Released	rev B
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		
		cat. no.	SEE TABLE	Product - Customer Drw	sheet 1 of 11															

PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

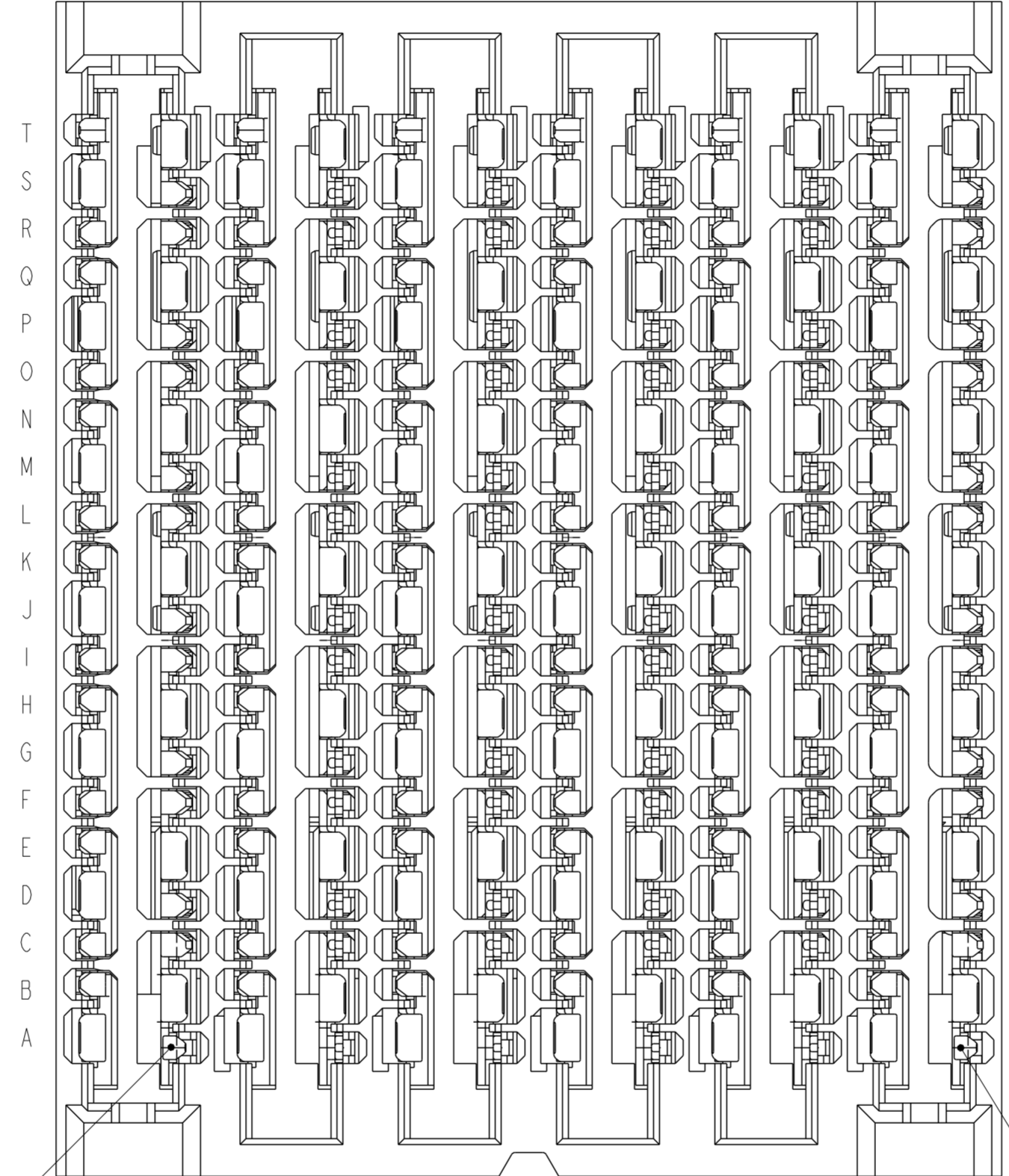
B

C

D

E

F



ADVANCED MATE POSITION A11 SEE NOTE 13

ADVANCED MATE POSITION A1 SEE NOTE 13

10123159-201LF
ADVANCED MATE RECEPTACLE
 ADVANCED MATE POSITIONS ARE A1 AND A11 ONLY
 FOR ALL DIMENSIONS SEE 10123159-101LF ON SHEET 1
 SCALE 7:1

Amphenol FCI

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spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	7:1																	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			ecn no	ELX-DG-28235-1																			
ASME Y14.5M		chr	Justin Chen	2017/11/29			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°	±°		<table border="1"> <tr> <td>title</td> <td>ExaMAX R.A. RECEPTACLE ASSY</td> <td>dwg no</td> <td>10123159</td> <td>rev</td> <td>B</td> </tr> <tr> <td>cat. no.</td> <td>SEE TABLE</td> <td>Product - Customer Drw</td> <td>sheet 2 of 11</td> <td colspan="2"></td> </tr> </table>	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	rev	B	cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11		
-	linear			0.X	±.3																						
				0.XX	±.10																						
		0.XXX	±.050																								
	angular	0°	±°																								
title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	rev	B																						
cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11																								

PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

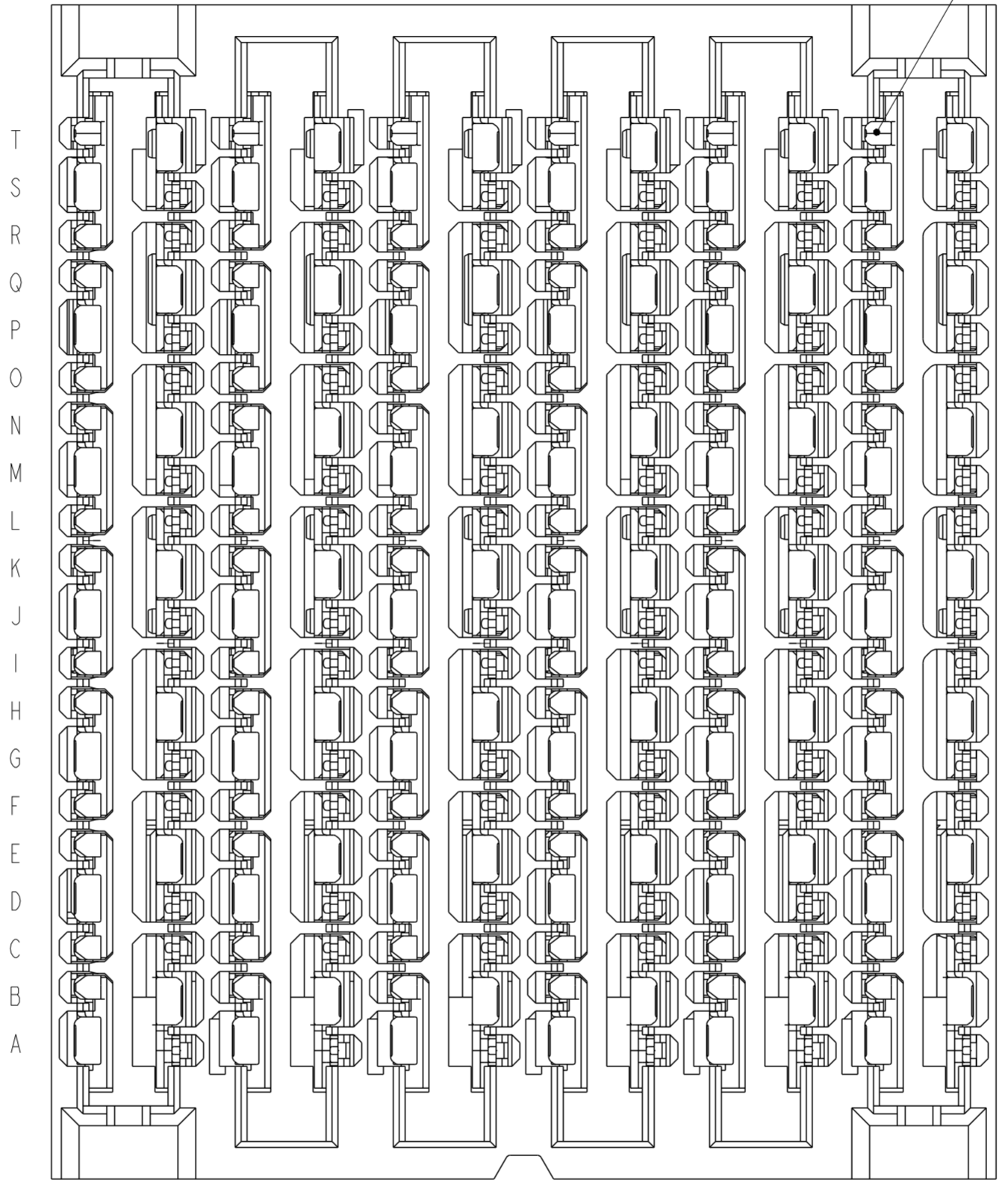
C

D

E

F

SHORT DETECT
POSITION T2
SEE NOTE 14



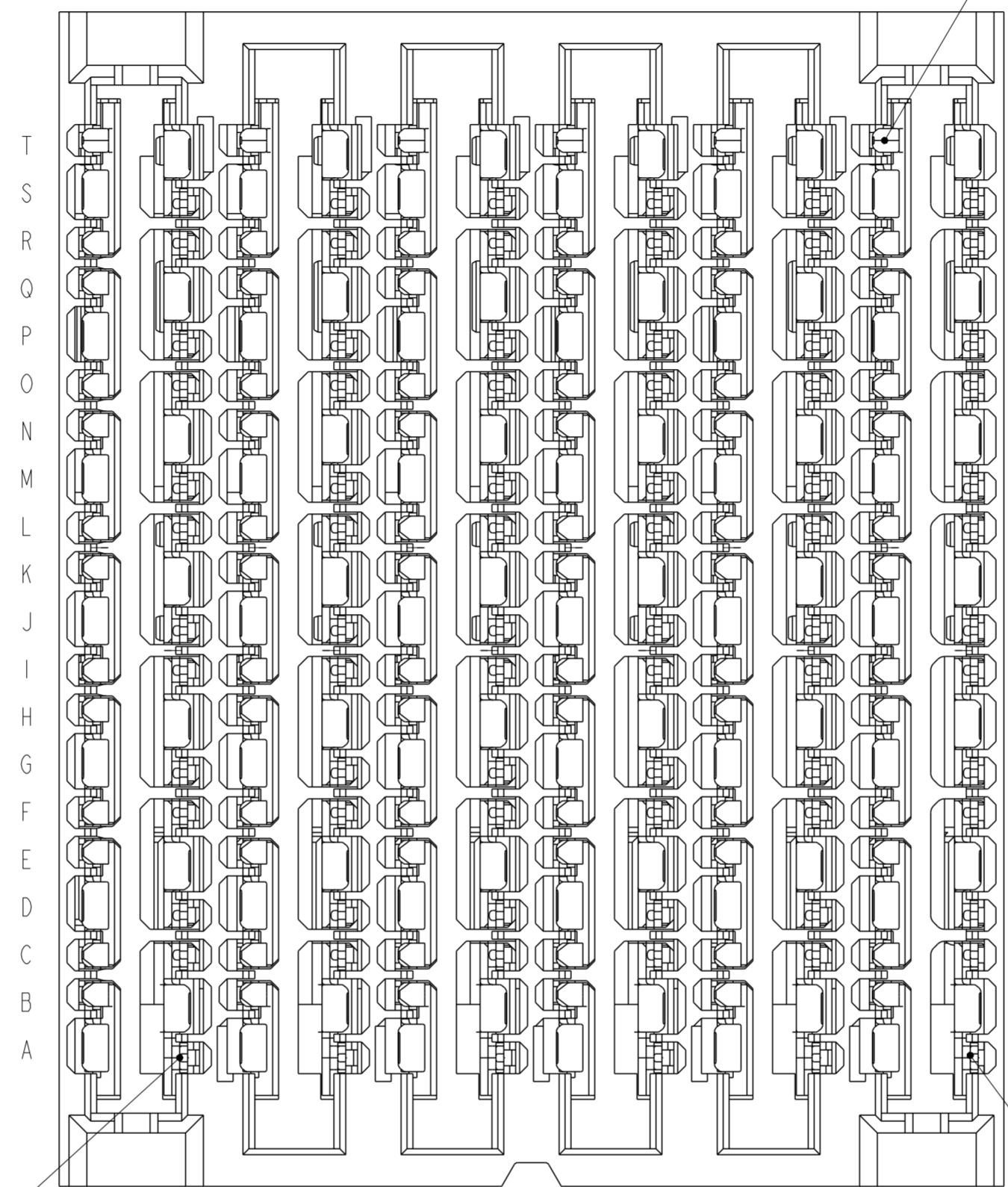
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10123159-301LF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS T2
FOR ALL DIMENSIONS SEE 10123159-101LF ON SHEET 1
SCALE 7:1

**Amphenol
FCi**

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spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			ecn no	ELX-DG-28235-1		
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released		
surface		appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear		0.X	±.3	Amphenol FCi	title		ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	
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angular	0°	±°	cat. no.		SEE TABLE	Product - Customer Drw	sheet 3 of 11			



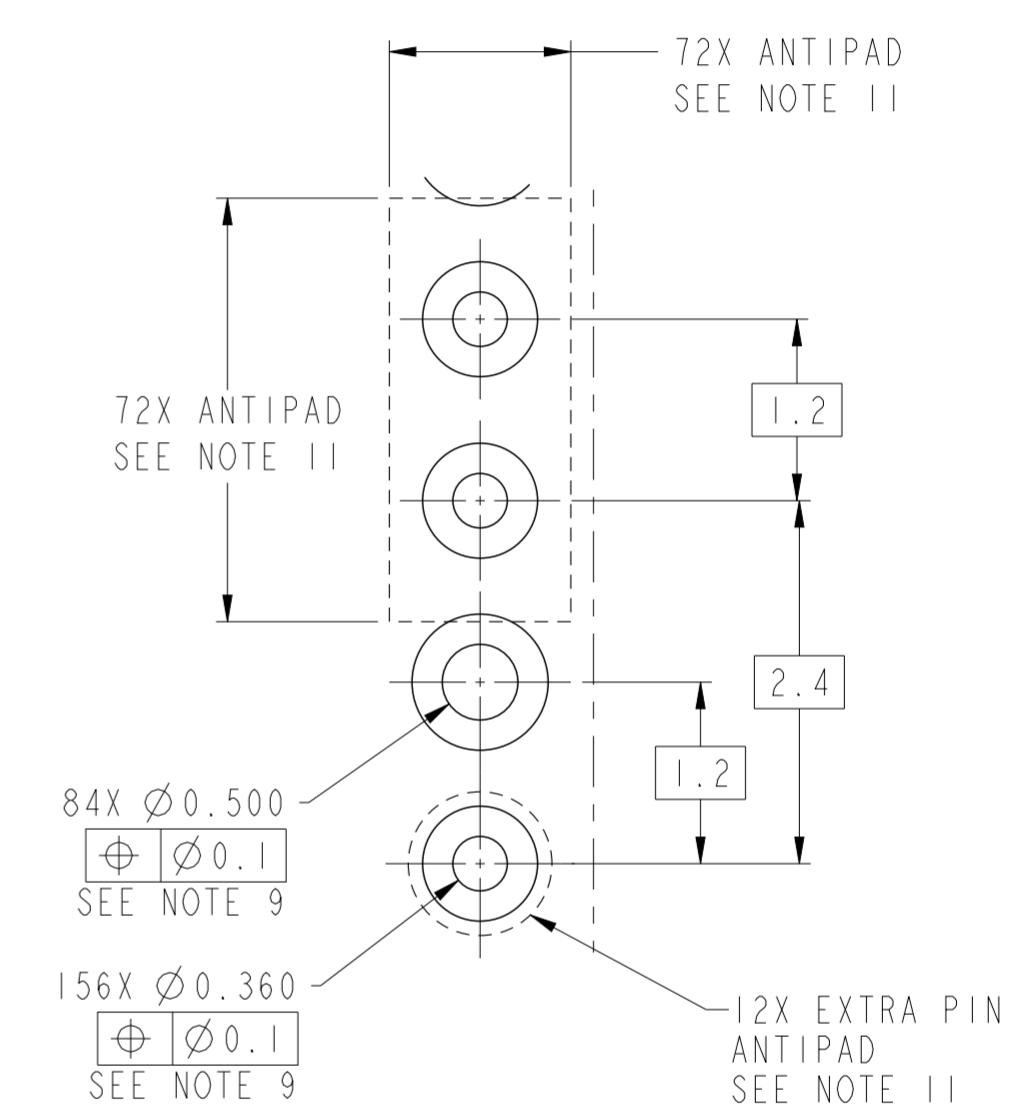
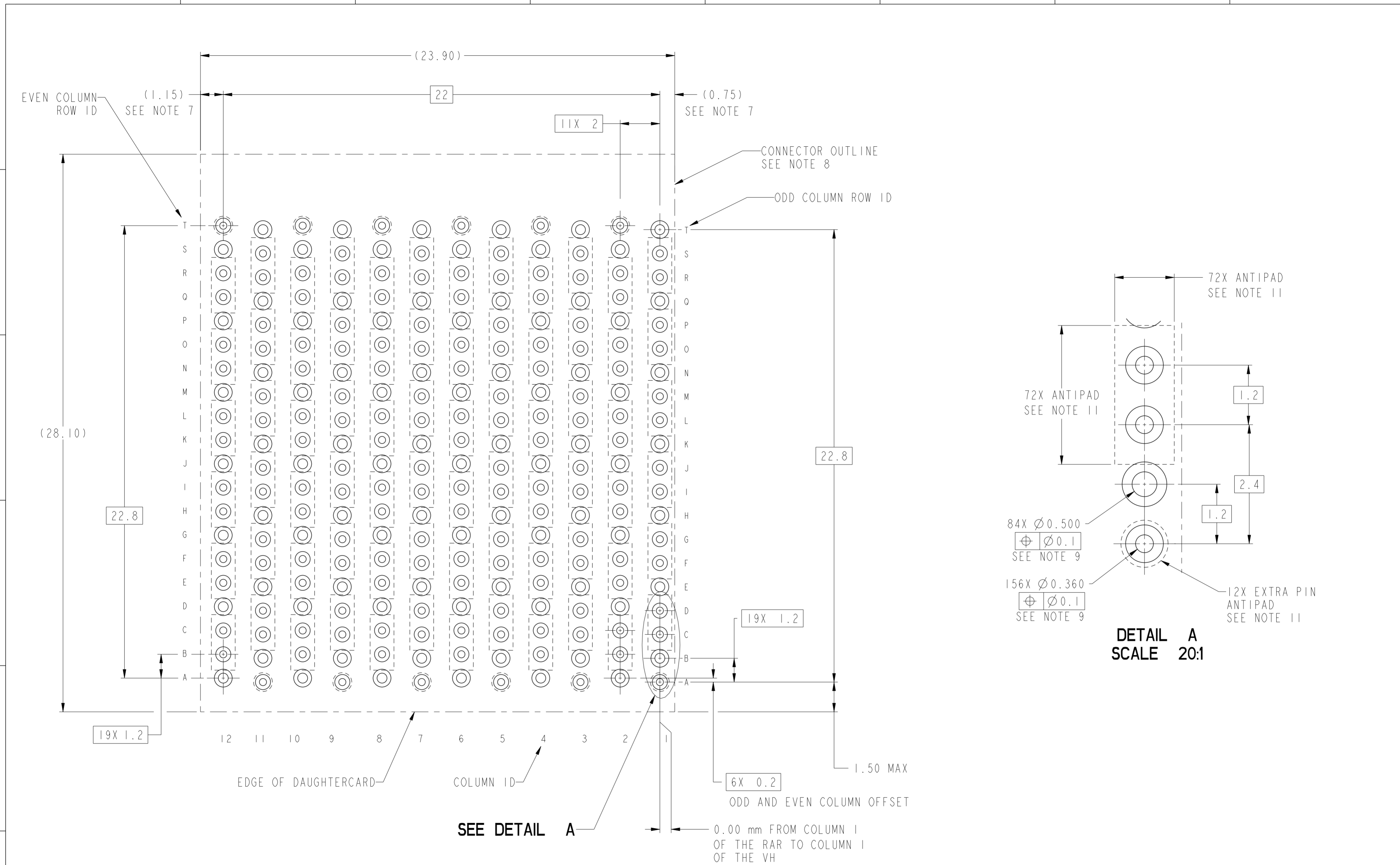
ADVANCED MATE
POSITION A11
SEE NOTE 15

SHORT DETECT
POSITION T2
SEE NOTE 15

ADVANCED MATE
POSITION A1
SEE NOTE 15

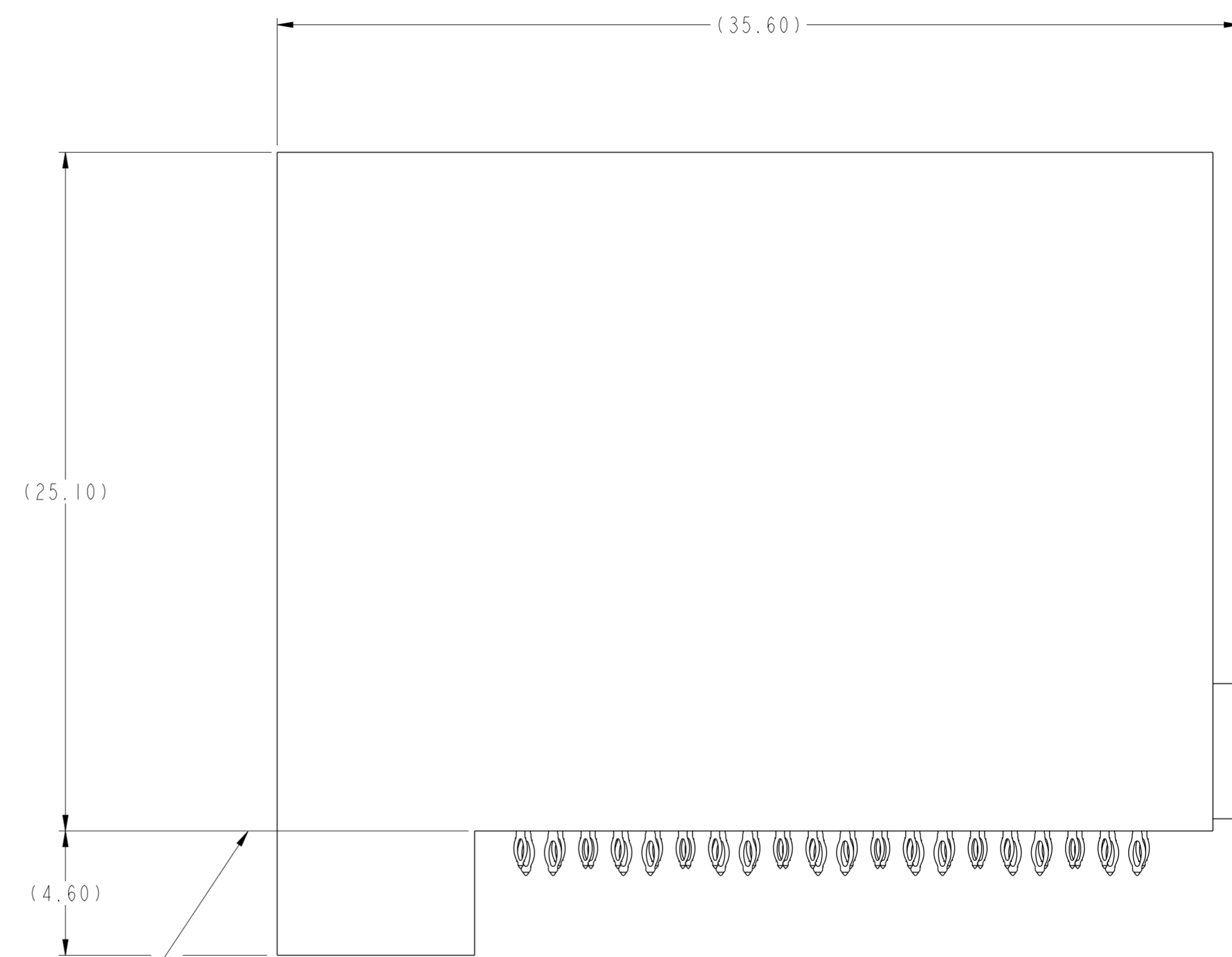
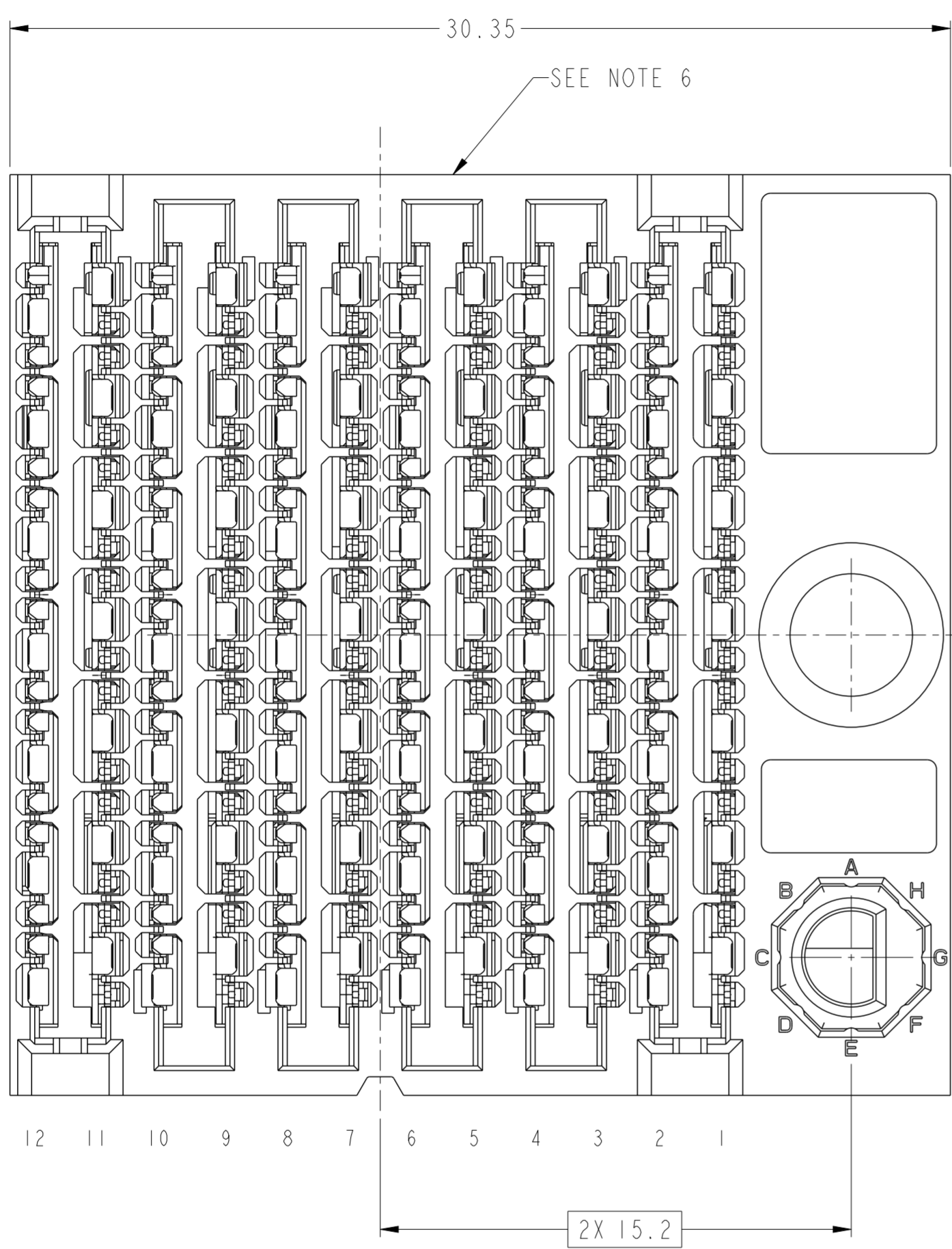
10123159-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
 SHORT DETECT POSITION IS T2
 FOR ALL DIMENSIONS SEE 10123159-101LF ON SHEET 1
 SCALE 7:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	7:1							
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			ecn no	ELX-DG-28235-1									
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released									
		appr	Heaven Cen	2017/11/30			product family	ExaMAX									
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 ASSY 6 PR, 12 IMLA, 240 POS, 24mm	dwg no 10123159	rev B
-	linear			0.X	±.3												
				0.XX	±.10												
		0.XXX	±.050														
	angular	0°	±°														
		cat. no.	SEE TABLE	Product - Customer Drw	sheet 4 of 11												



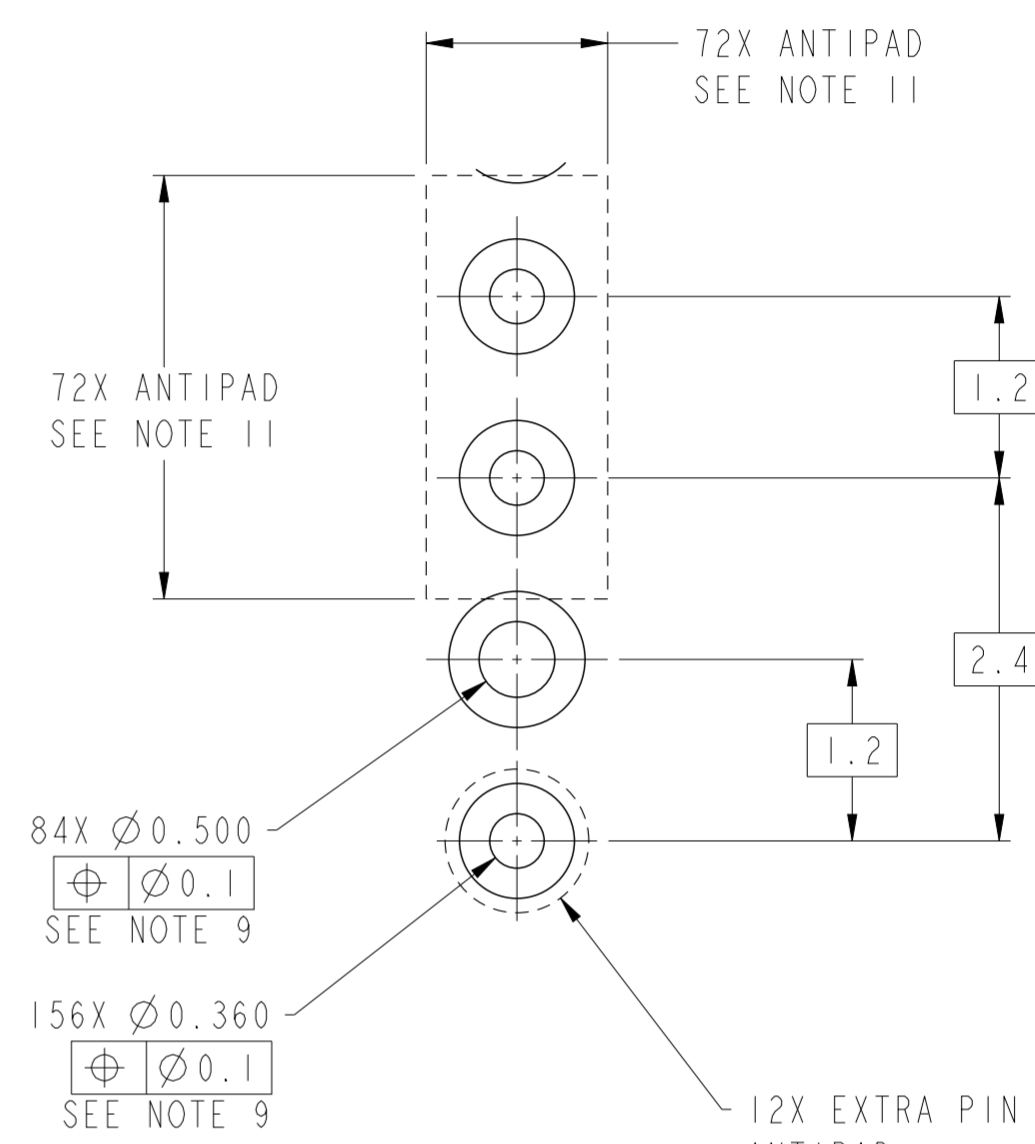
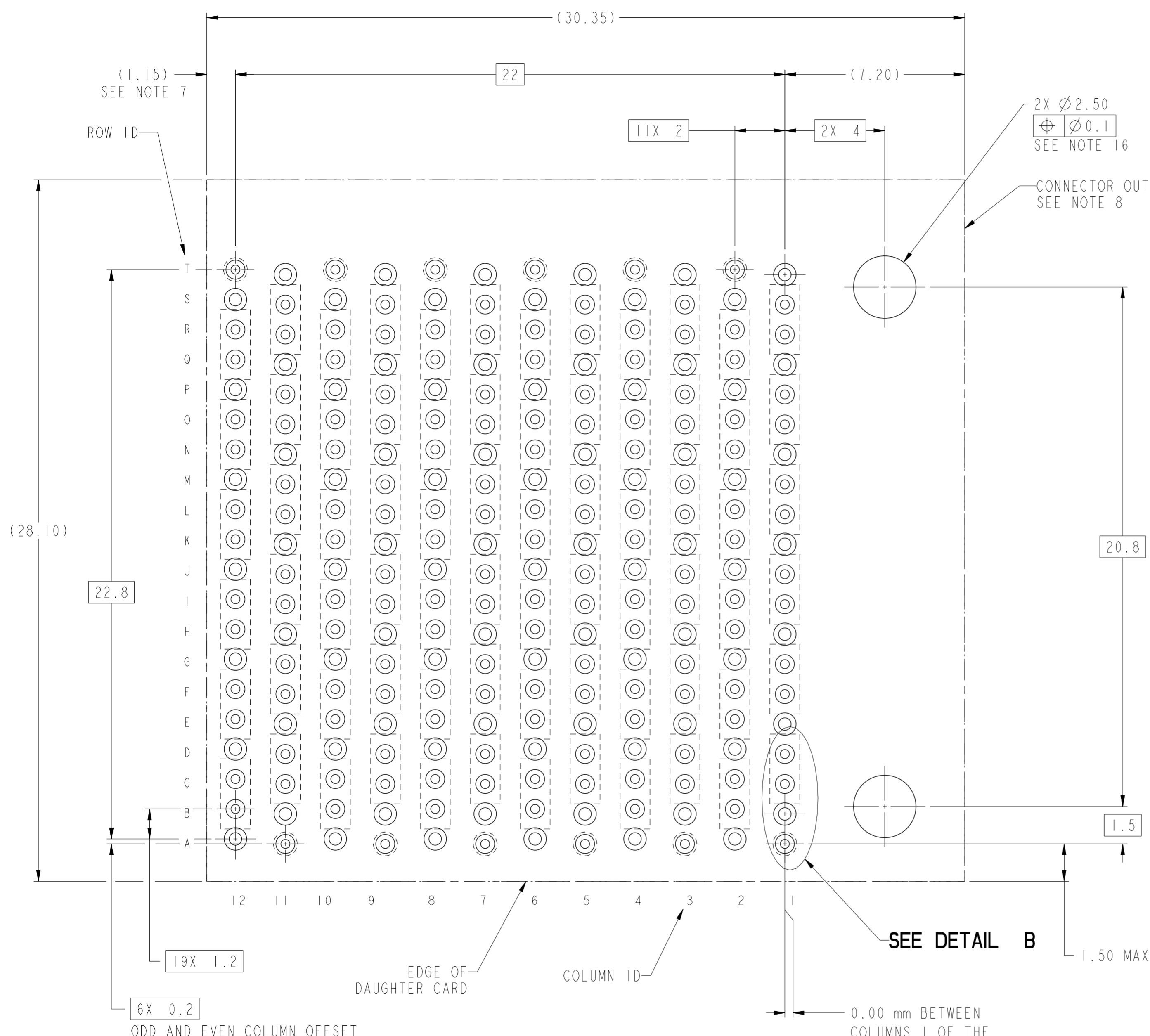
10123159-X01
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 8:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	8:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			ecn no	ELX-DG-28235-1		
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released		
		appr	Heaven Cen	2017/11/30			product family			
surface	linear	0.X	±.3		Amphenol FCI		title	ExaMAX R.A. RECEPTACLE ASSY		
		0.XX	±.10				6 PR, 12 IMLA, 240 POS, 24mm	dwg no	10123159	
		0.XXX	±.050				cat. no.	Product - Customer Drw		
	angular	0°	±°				rev	B		
							sheet 5 of 11			



10123159-X1ALF THRU 10123159-X1JLF
 RIGHT GUIDANCE (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE 10123159-101LF ON SHEET 1
 SCALE 6:1

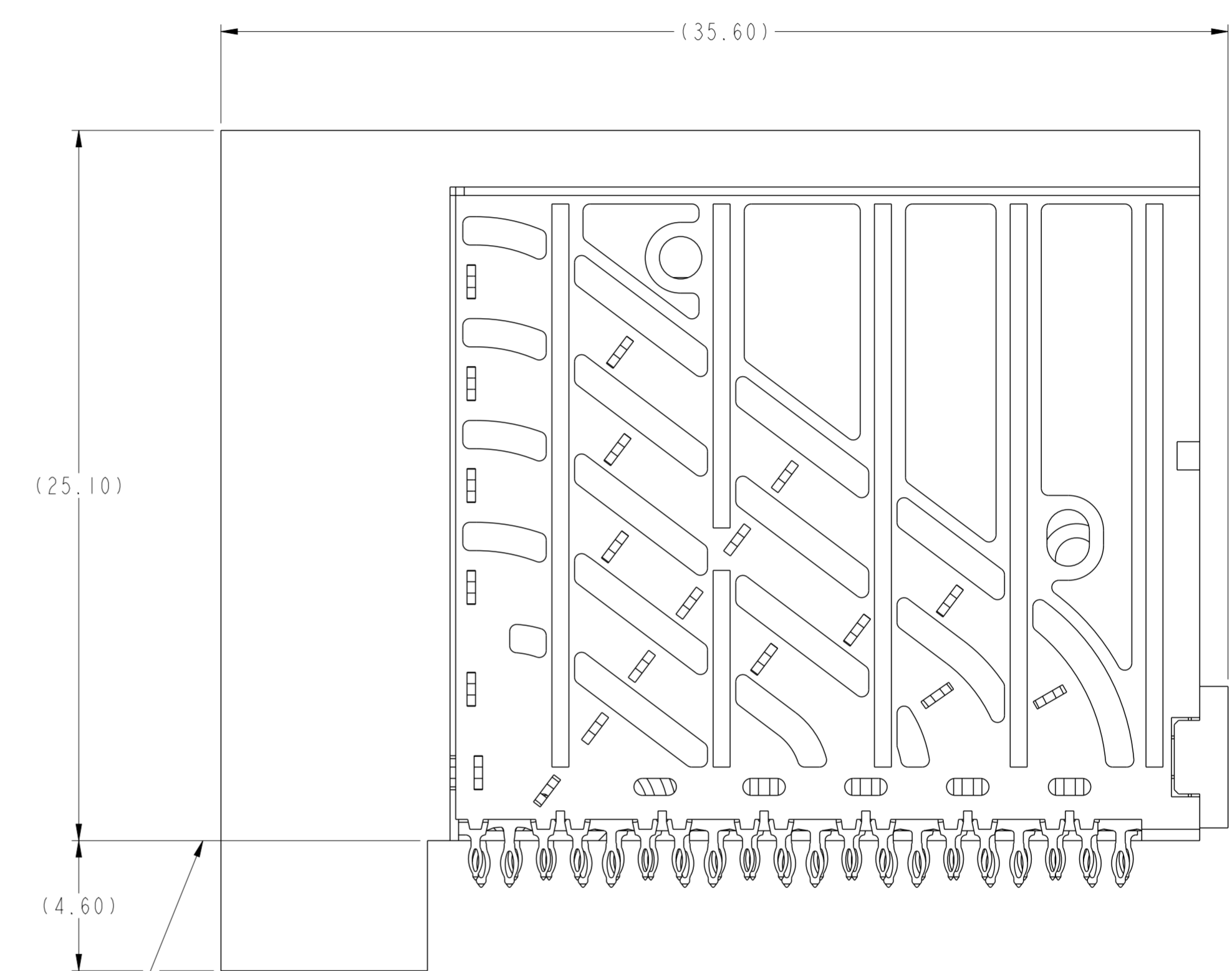
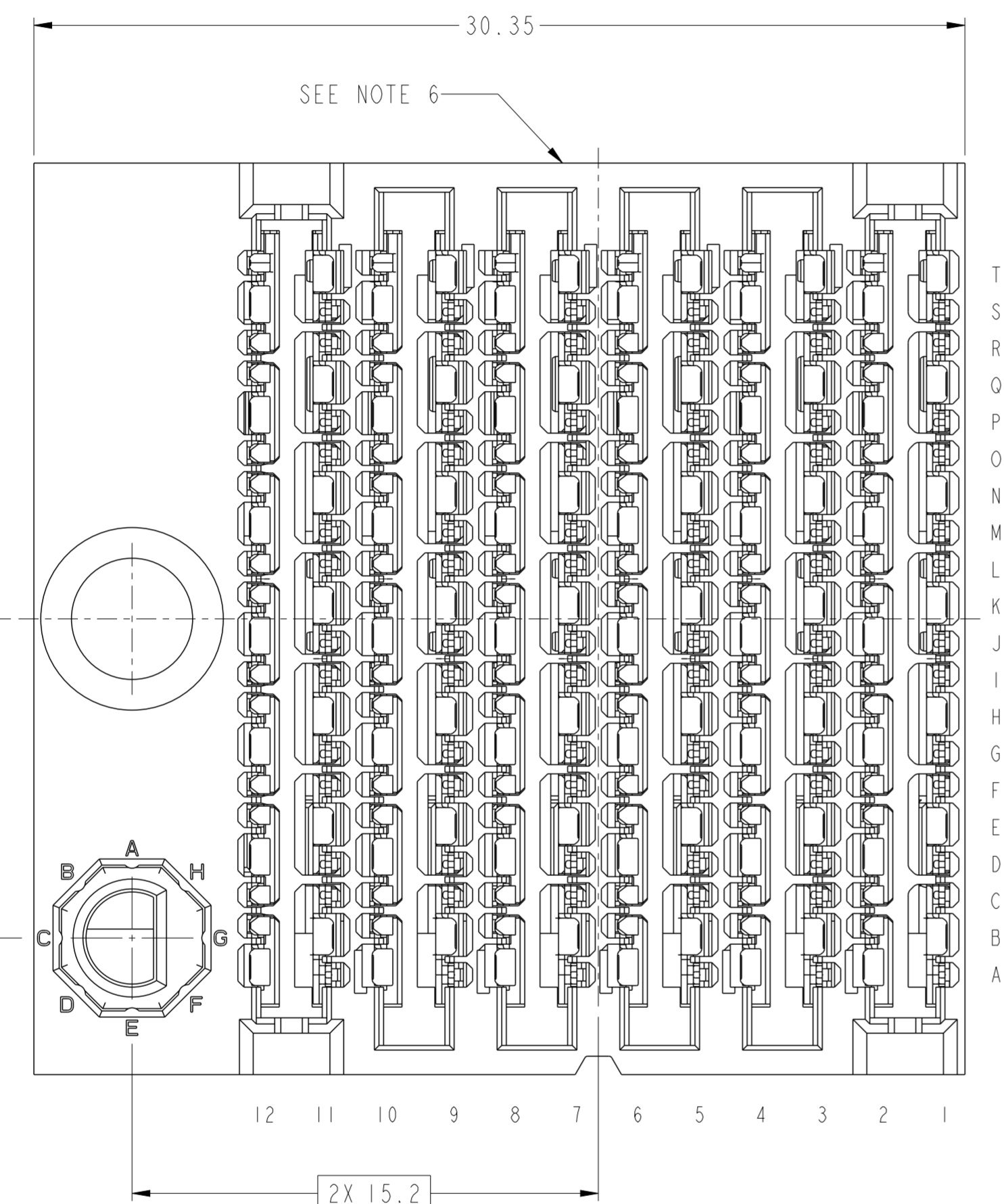
spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1								
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			ecn no	ELX-DG-28235-1	rel level	Released								
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX										
		appr	Heaven Cen	2017/11/30														
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 ASSY 6 PR, 12 IMLA, 240 POS, 24mm		dwg no 10123159	rev B
linear	0.X	±.3																
	0.XX	±.10																
	0.XXX	±.050																
angular	0°	±°																
		cat. no.	SEE TABLE	Product - Customer Drw	sheet 6 of 11													



**10123159-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1**

0.00 mm BETWEEN
COLUMNS 1 OF THE
RAR AND COLUMN 1
OF THE VH

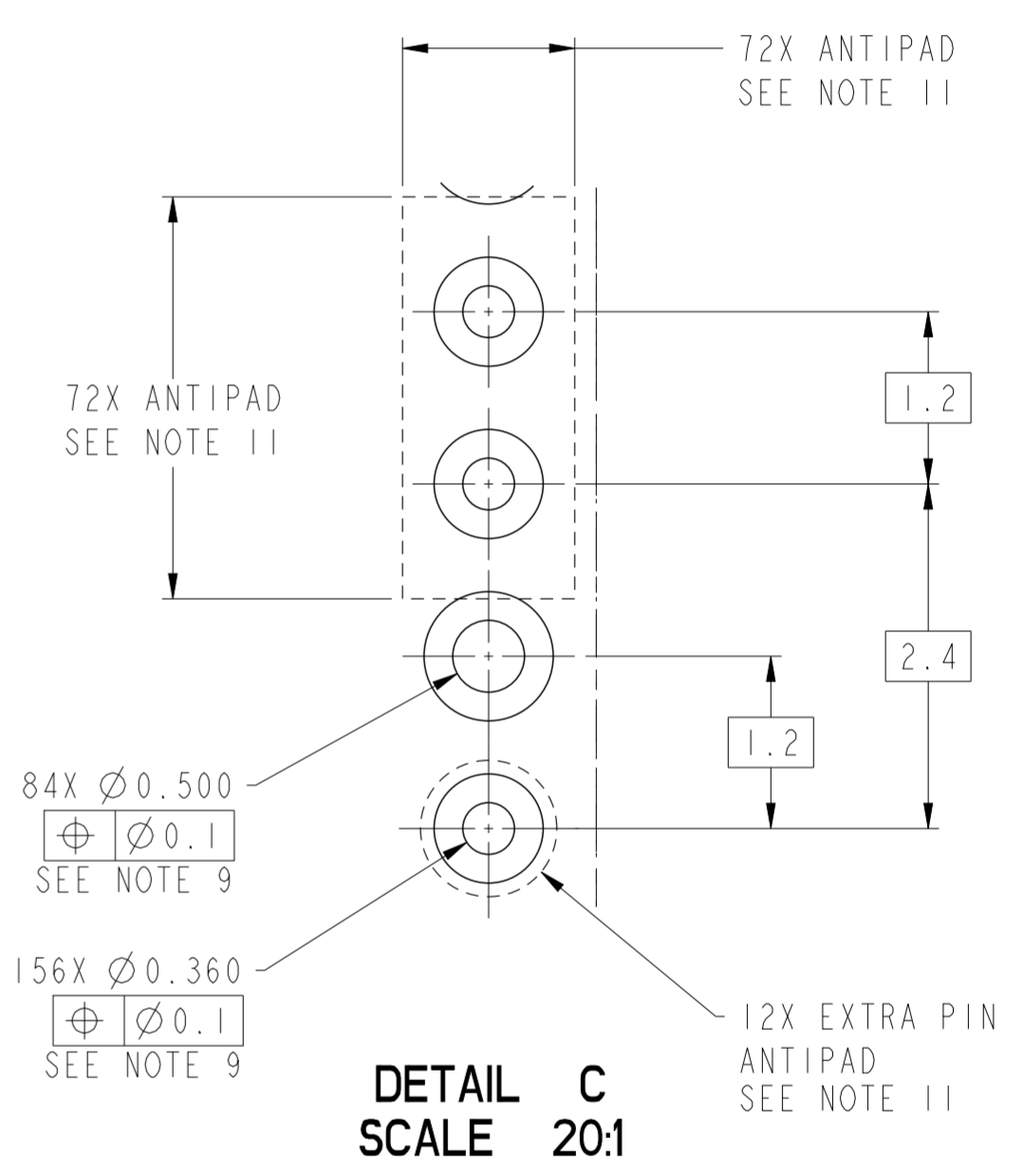
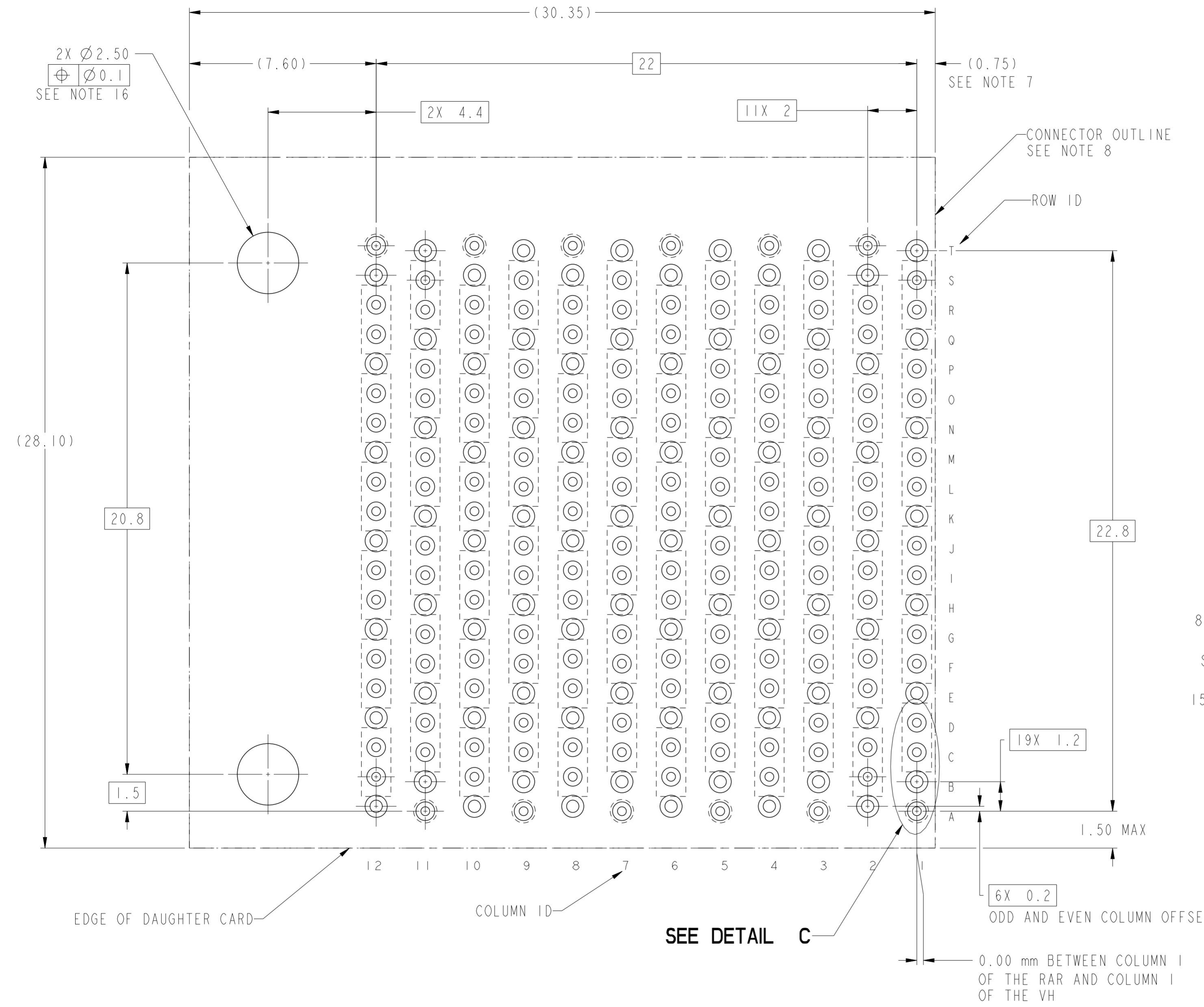
spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			ecn no	ELX-DG-28235-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	linear	0.X	±.3		title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 12 IMLA, 240 POS, 24mm	dwg no 10123159	rev B	cat. no. Product - Customer Drw	sheet 7 of 11	
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							



TOP SURFACE OF DAUGHTER CARD

10123159-X2ALF THRU 10123159-X2JLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10123159-101LF ON SHEET 1
SCALE 6:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			ecn no	ELX-DG-28235-1	rel level	Released		
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX				
surface	linear	0.X	±.3		Amphenol FCI		title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	rev	B
		0.XX	±.10		Amphenol FCI		6 PR, 12 IMLA, 240 POS, 24mm					
		0.XXX	±.050		Amphenol FCI		cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11		
	angular	0°	±°	Amphenol FCI								



10123159-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	8:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			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		title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 12 IMLA, 240 POS, 24mm cat. no.	product family -	dwg no 10123159	rev B	sheet 9 of 11	
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°							

1 0 | 2 3 | 5 9 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10123159-1YYLF	STANDARD MATE
10123159-2YYLF	ADVANCED MATE
10123159-3YYLF	SHORT DETECT
10123159-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER									BASE MODEL
	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)										

Amphenol FCI

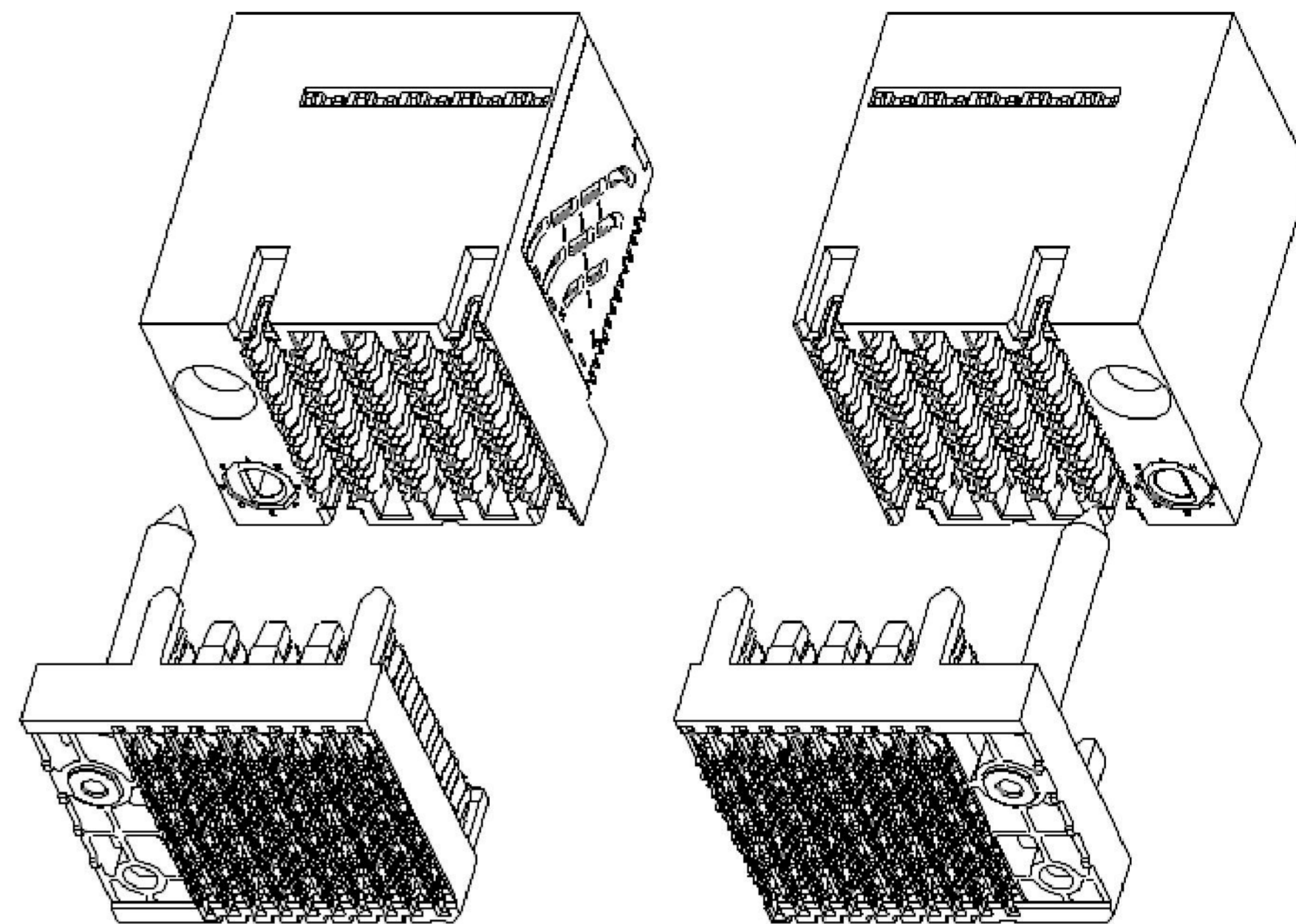
spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	1:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31		←→	ecn no	ELX-DG-28235-1				
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released				
		appr	Heaven Cen	2017/11/30			product family					
surface	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no	10123159	rev	B
		0.XX	±.10		6 PR, 12 IMLA, 240 POS, 24mm							
		0.XXX	±.050		cat. no.		Product - Customer Drw		sheet 10 of 11			
	angular	0°	±°									

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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, 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, (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, 10123159-2XXLF, 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, 10123159-3XXLF, WHEN MATED WITH A STANDARD MATE VERTICAL HEADER OR A STANDARD MATE RIGHT-ANGLE HEADER WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00mm AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮ - THE ADVANCE MATE/SHORT DETECT RECEPTACLE, 10123159-4XXLF, 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 1.00mm 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 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 WITHIN A COLUMN ARE COMMONED.



LEFT GUIDE

RIGHT GUIDE

**ExaMAX INTEGRATED GUIDE ORIENTATION
4 PAIR 10 IMLA CONNECTORS SHOWN FOR REFERENCE ONLY
SEE NOTE 17**

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/10	projection	MM	size	A2	scale	6:1						
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/31			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 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°	±°		title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 12 IMLA, 240 POS, 24mm	cat. no. SEE TABLE	Product - Customer Drw	sheet 11 of 11
linear	0.X		±.3													
	0.XX		±.10													
	0.XXX	±.050														
angular	0°	±°														

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренеспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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