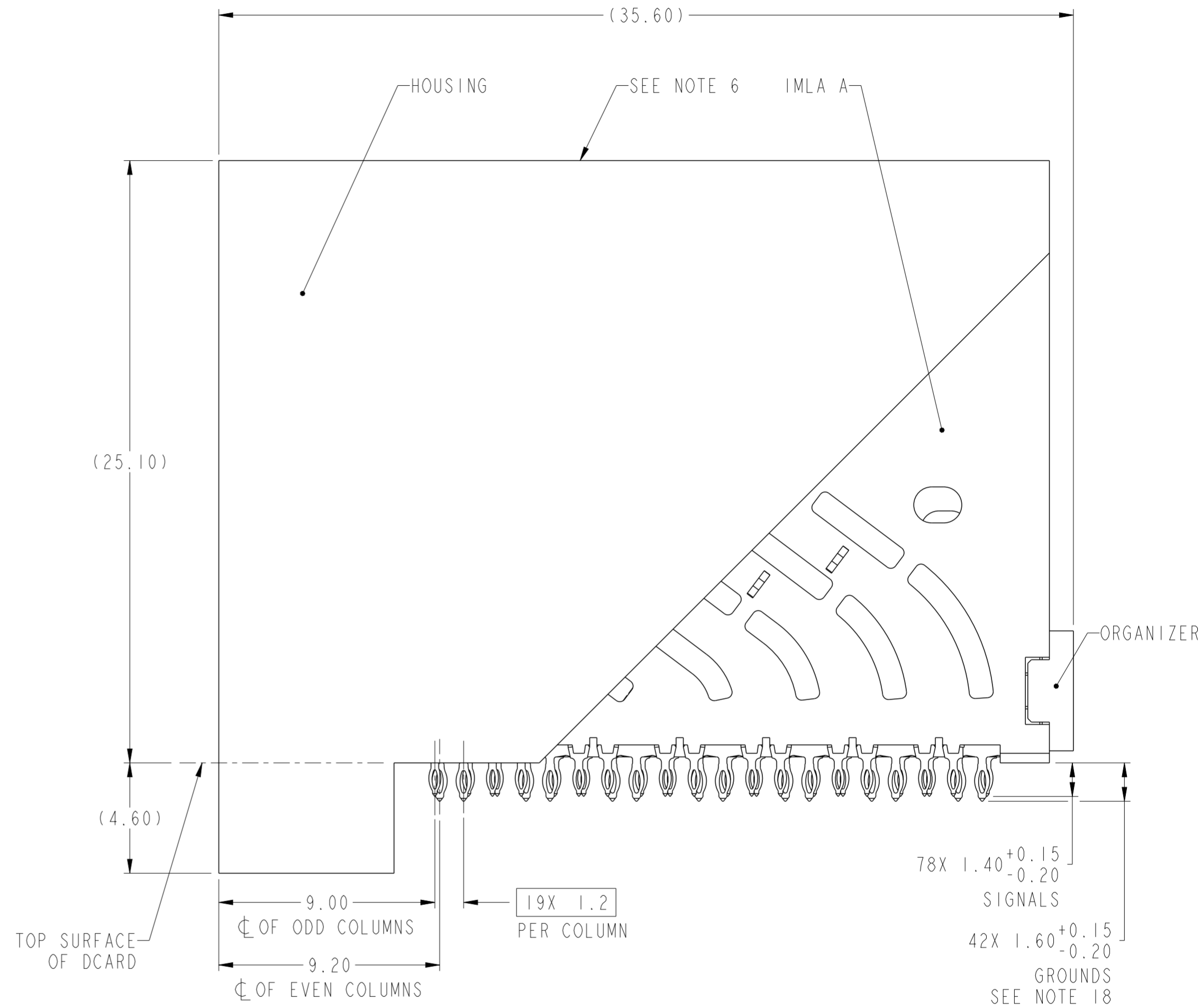
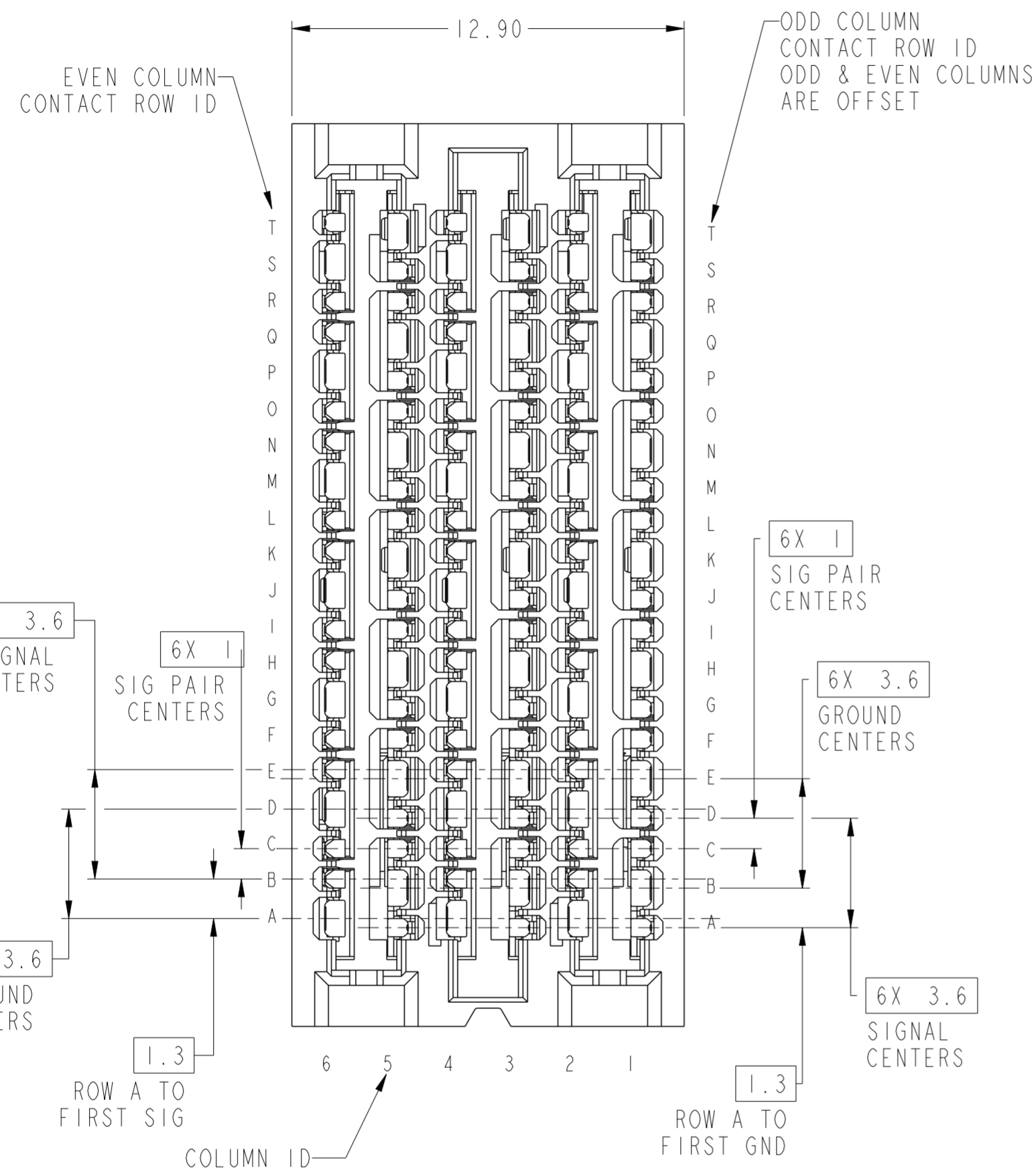
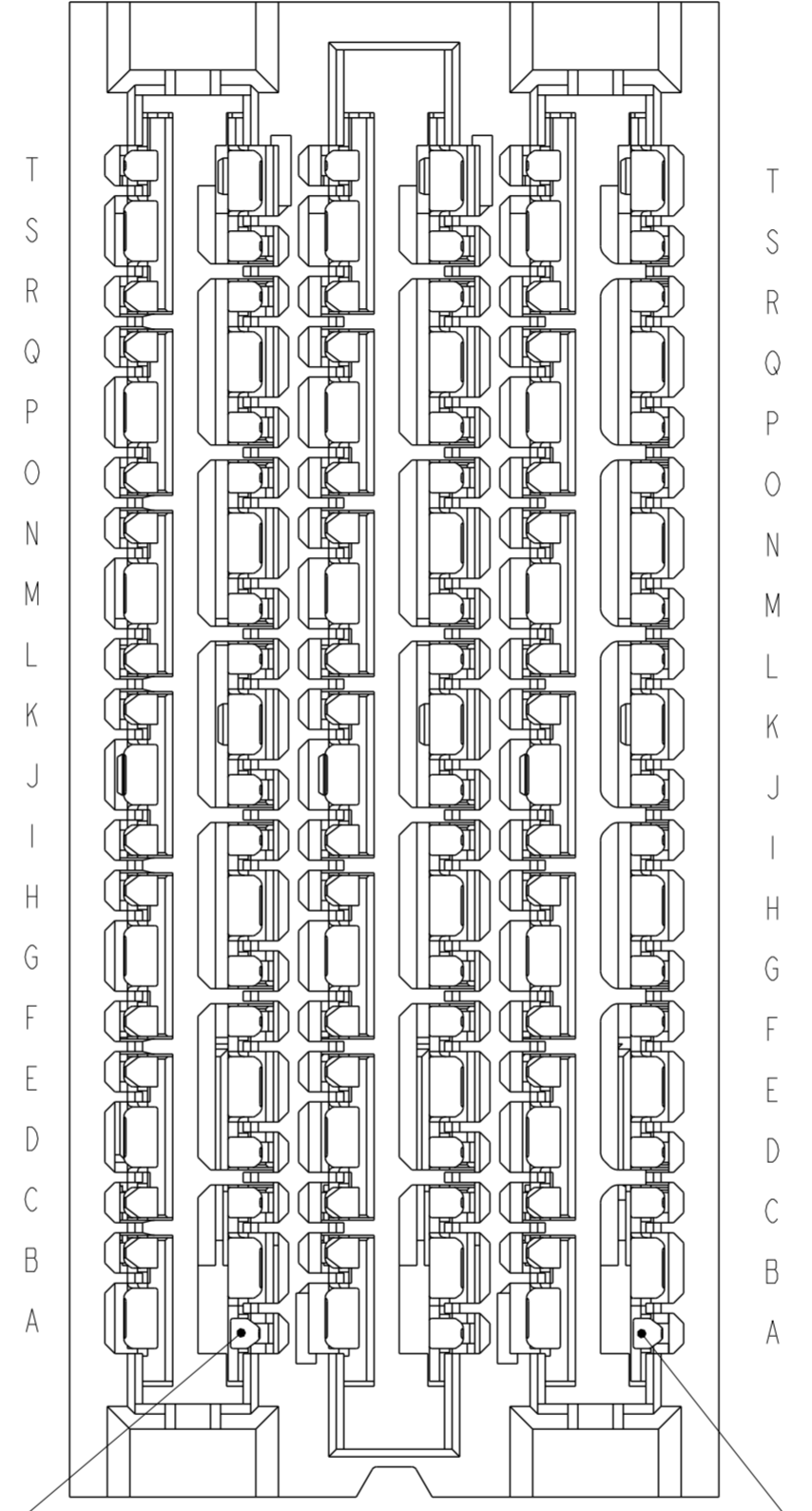


PRODUCT NUMBER
SEE TABLE



10131760-101LF
STANDARD MATE RECEPTACLE
SCALE 6:1

spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	Preliminary
ISO 406		chr	-							
ISO 1101		appr	-		product family	ExaMAX	rel level	Preliminary		
surface	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE ASSY	dwg no 10131760	rev 8	
		0.XX	±.10		6 PR, 120 POS, 6 IMLA, 13mm					
		0.XXX	±.050		cat. no. SEE TABLE					
ISO 1302	angular	0°	±°	Product - Customer Drw		sheet 1 of 11				



ADVANCED MATE
POSITION A5
SEE NOTE 13

ADVANCED MATE
POSITION A1
SEE NOTE 13

10131760-201LF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 AND A5 ONLY
FOR ALL DIMENSIONS SEE 10131760-101LF ON SHEET 1
SCALE 7:1

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spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	
ISO 406		chr	-							
ISO 1101		appr	-		product family	ExaMAX	rel level	Preliminary		
surface	linear	Amphenol FCi		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no	10131760	
	angular	0°	±°	6 PR, 120 POS, 6 IMLA, 13mm		cat. no.	SEE TABLE	Product - Customer Drw	rev	8
ISO 1302								sheet 2 of 11		

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

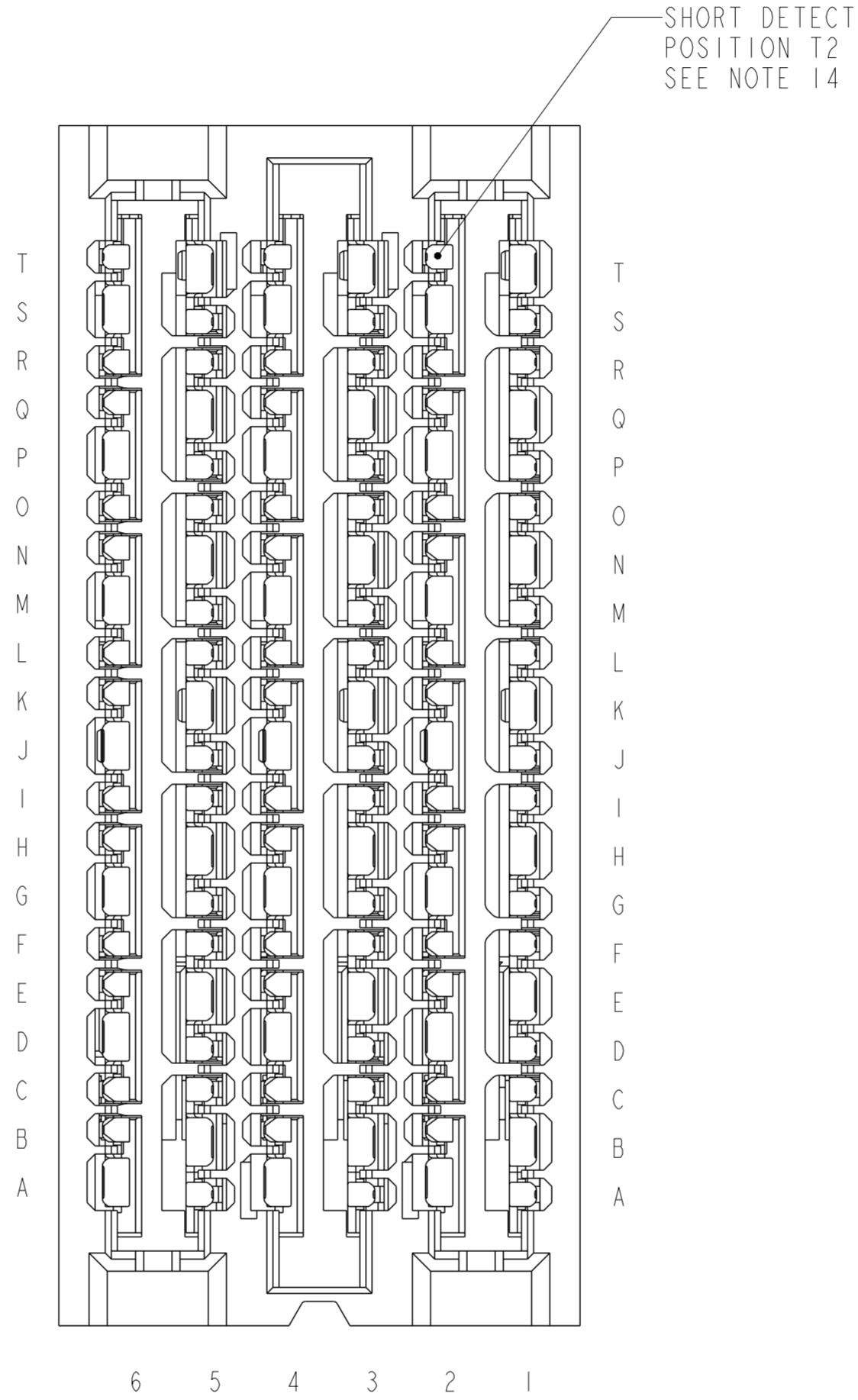
B

C

D

E

F

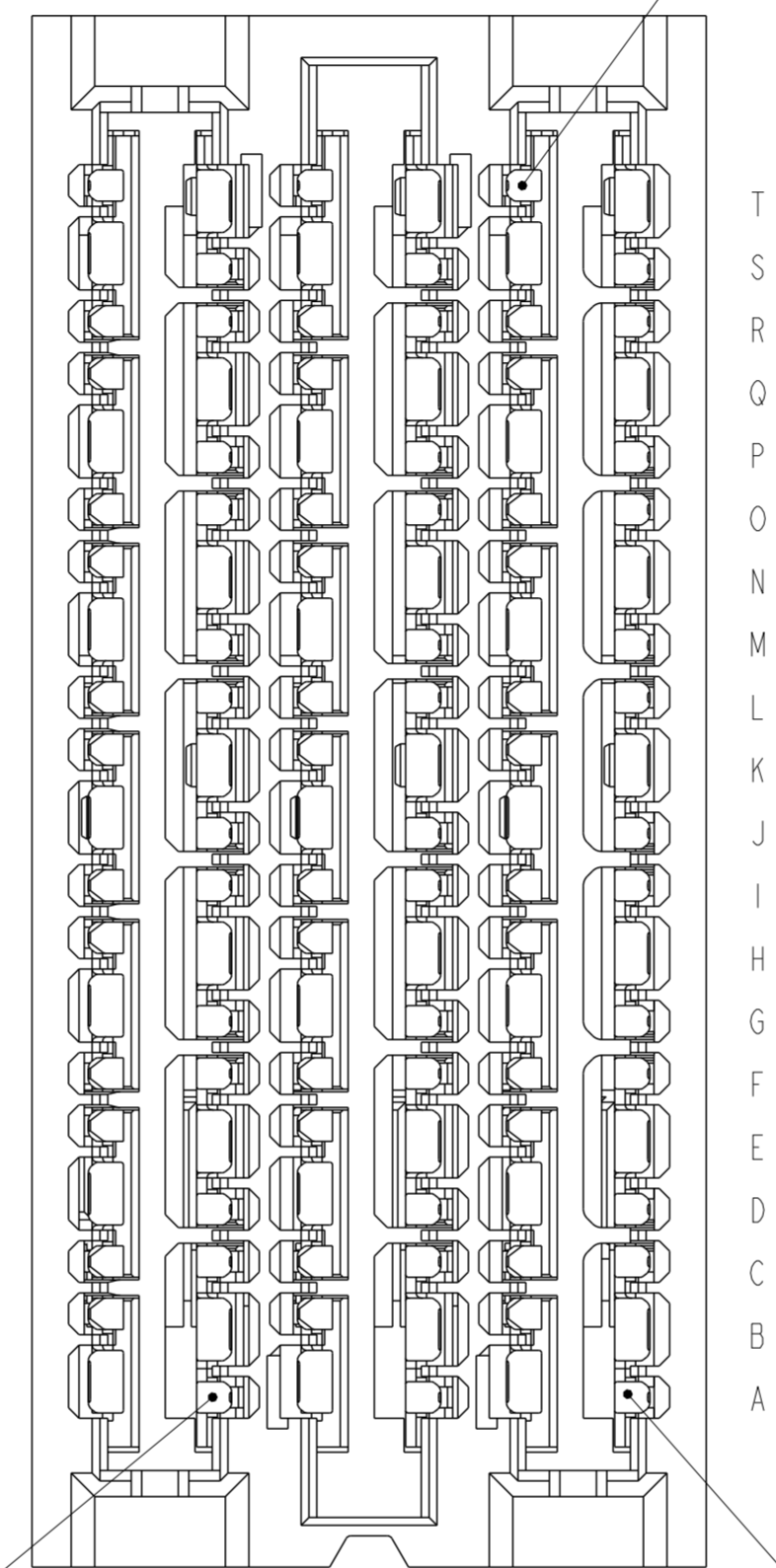


10131760-301LF
 SHORT DETECT RECEPTACLE
 SHORT DETECT POSITION IS T2
 FOR ALL DIMENSIONS SEE 10131760-101LF ON SHEET 1
 SCALE 7:1

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spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	7:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31		← MM →	ecn no	-	rel level		
ISO 406		chr	-	-			rel level	Preliminary			
ISO 1101		appr	-	-	product family	ExaMAX	rev		8		
surface	linear	0.X	±.3	Amphenol FCi	title		ExaMAX R.A. RECEPTACLE ASSY		cat. no.	SEE TABLE	
ISO 1302		0.XX	±.10		6 PR, 120 POS, 6 IMLA, 13mm		dwg no	10131760			
		0.XXX	±.050		Product - Customer Drw			sheet 3 of 11			
	angular	0°	±°								



ADVANCED MATE POSITION A5 SEE NOTE 15

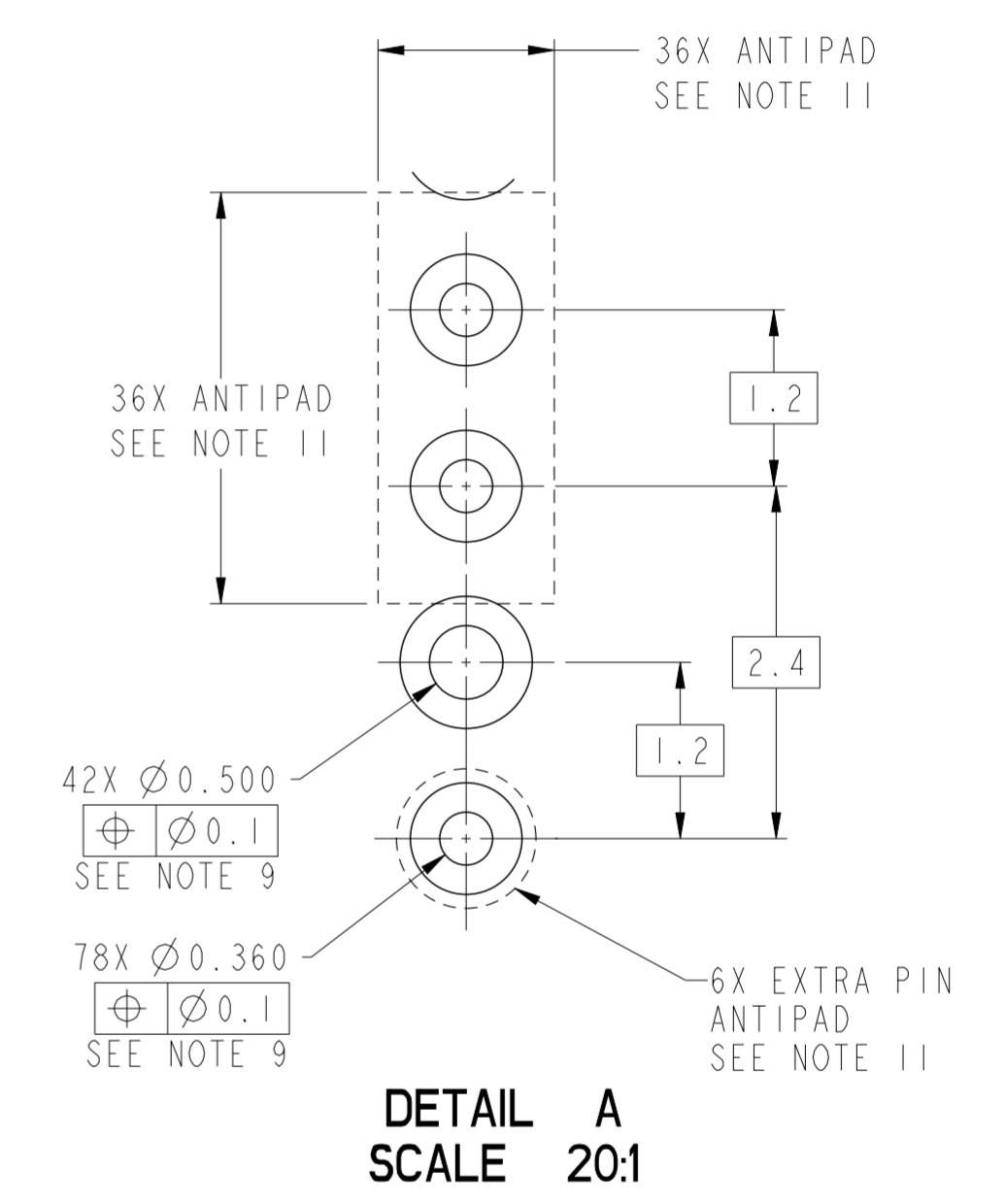
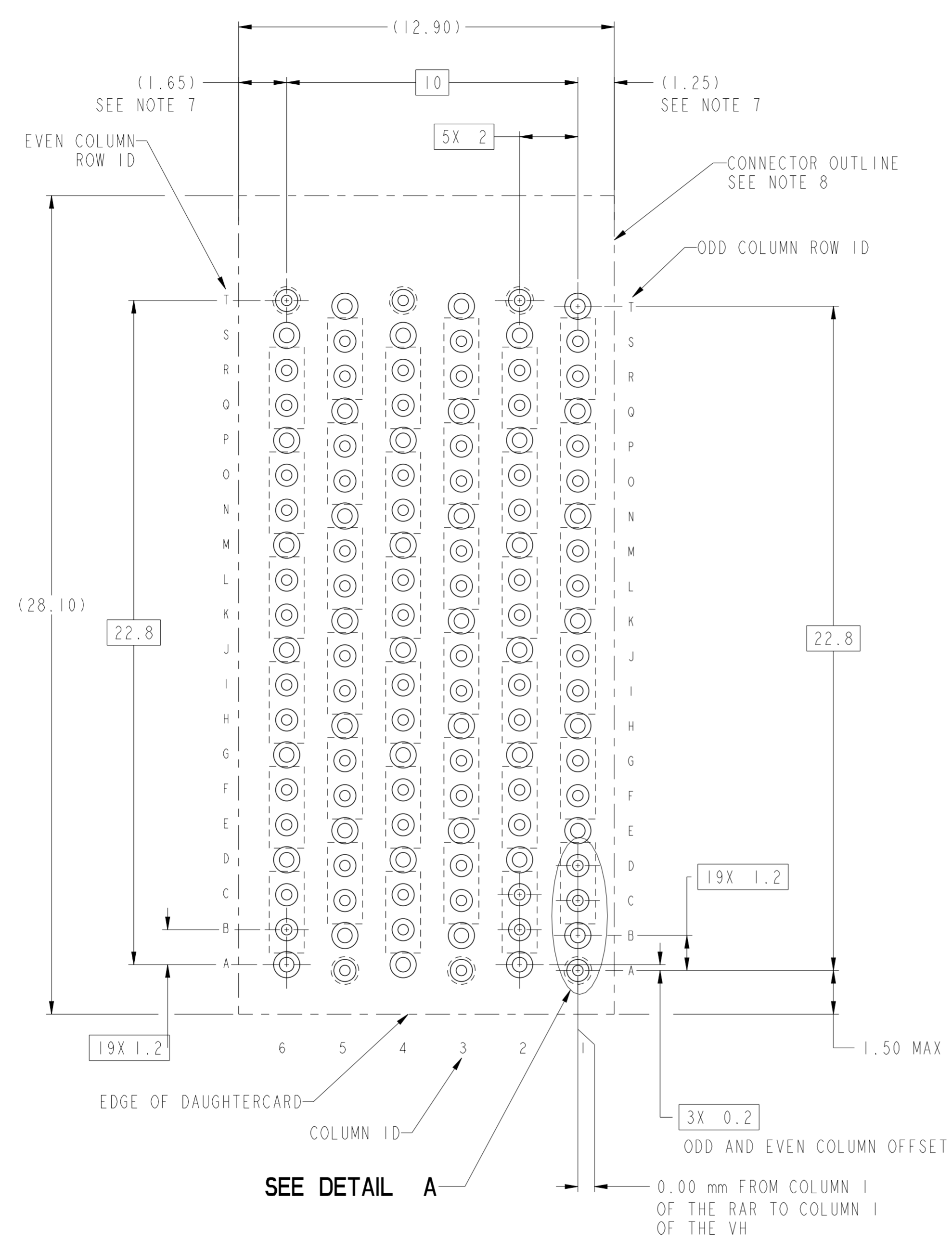
ADVANCED MATE POSITION A1 SEE NOTE 15

10131760-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
 SHORT DETECT POSITION IS T2
 FOR ALL DIMENSIONS SEE 10131760-101LF ON SHEET 1
 SCALE 7:1

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spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	
ISO 406		chr	-	-			Product family	ExaMAX	Preliminary	
ISO 1101		appr	-	-	title		ExaMAX R.A. RECEPTACLE ASSY	cat. no.	10131760	rev
surface	linear	Amphenol FCi		6 PR, 120 POS, 6 IMLA, 13mm		dwg no	Product - Customer Drw		sheet 4 of 11	
ISO 1302	angular	0°	±°							



10131760-X01
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 8:1

spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	8:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	Preliminary		
ISO 406		chr	-									
ISO 1101		appr	-		product family	-						
surface	linear	Amphenol FCI			title		ExaMAX R.A. RECEPTACLE ASSY		dwg no	10131760	rev	8
ISO 1302	angular				6 PR, 120 POS, 6 IMLA, 13mm		cat. no.		Product - Customer Drw		sheet 5 of 11	

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

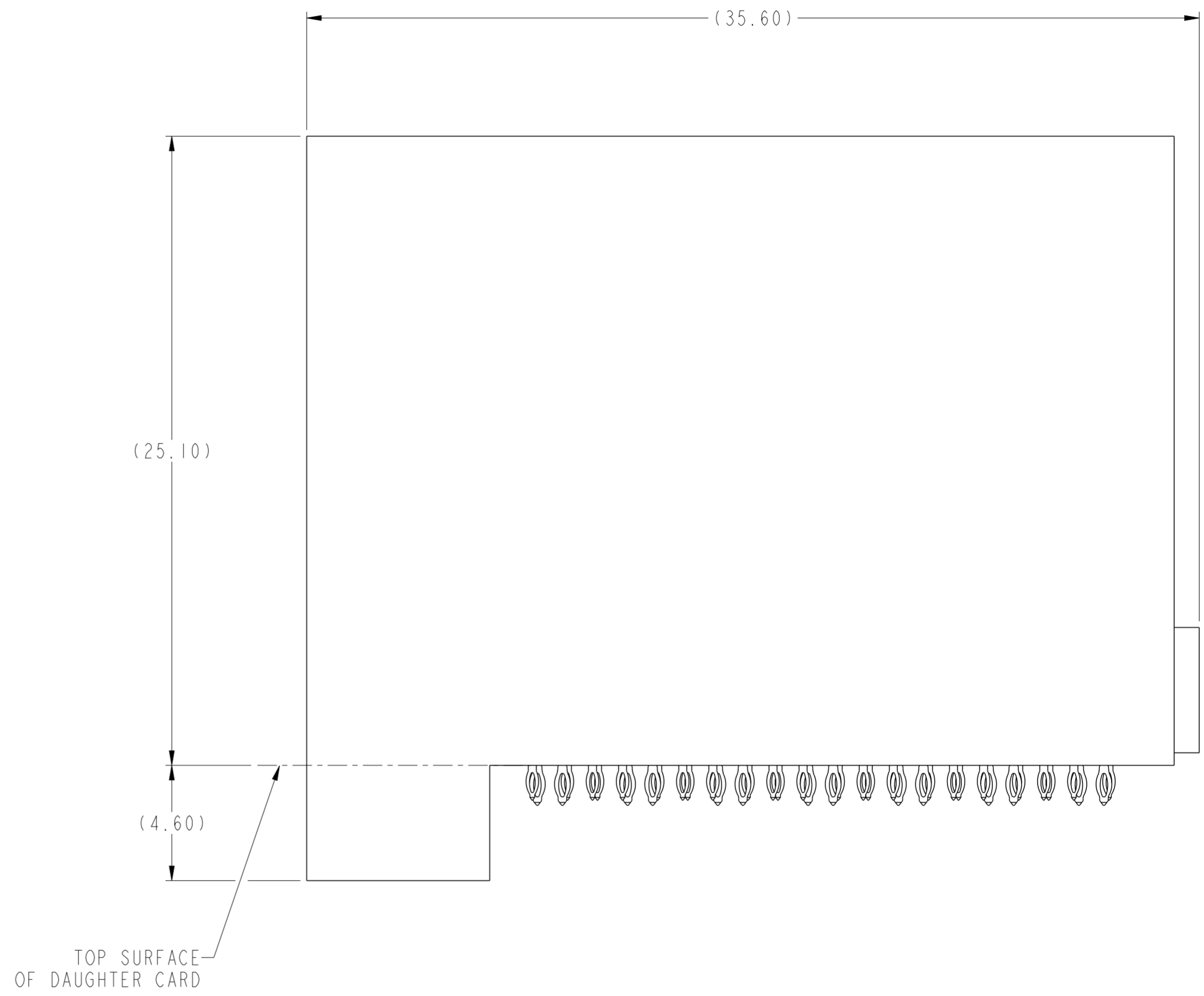
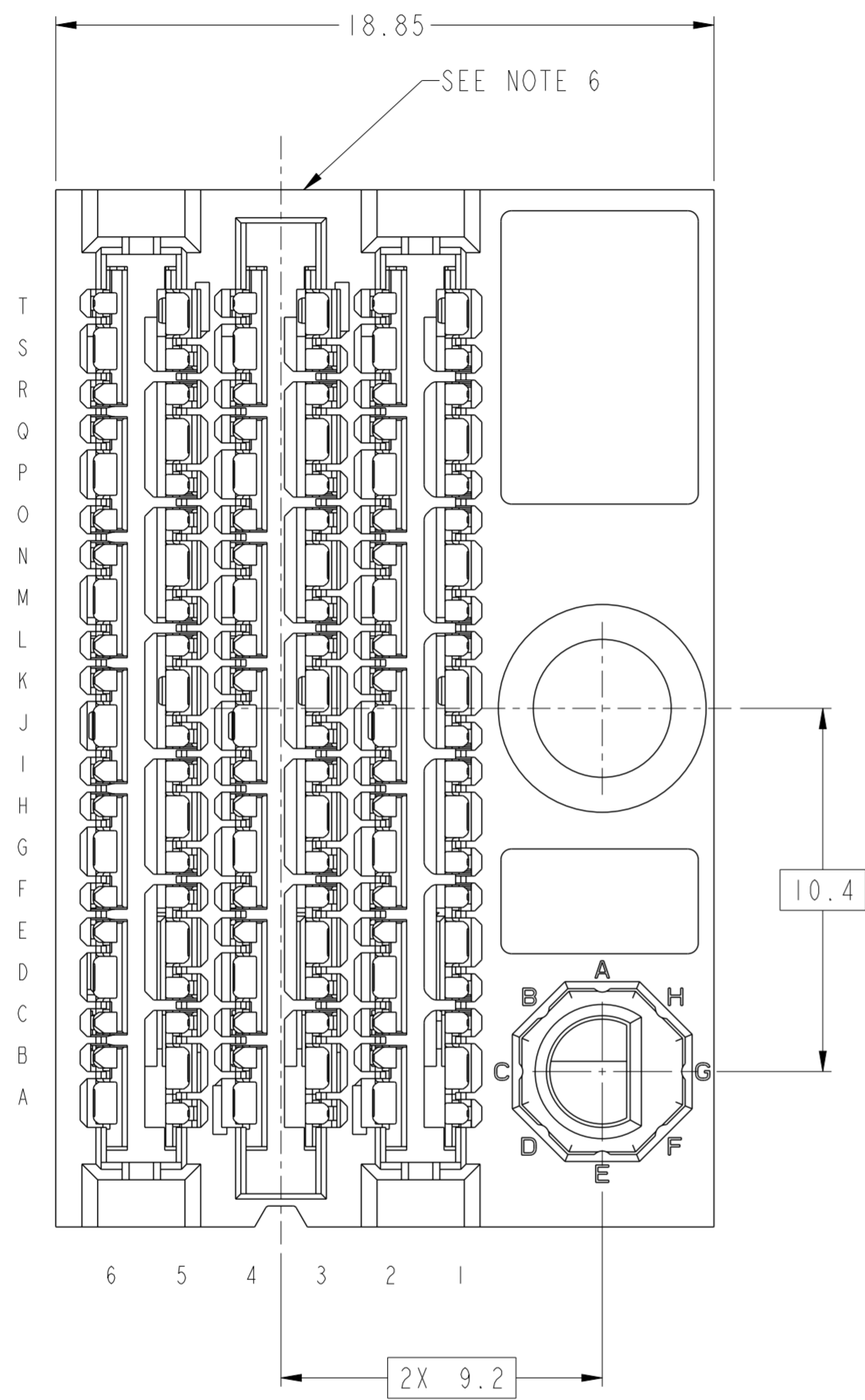
B

C

D

E

F



10131760-X1ALF THRU 10131760-X1JLF
 RIGHT GUIDANCE (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE 10131760-101LF ON SHEET 1
 SCALE 6:1

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spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	Preliminary
ISO 406		chr	-							
ISO 1101		appr	-		product family	ExaMAX	rel level	Preliminary		
surface	linear	0.X	±.3	Amphenol FCi	title ExaMAX R.A. RECEPTACLE ASSY 6 PR, 120 POS, 6 IMLA, 13mm	dwg no 10131760	rev 8			
		0.XX	±.10							
		0.XXX	±.050							
ISO 1302	angular	0°	±°	cat. no.	SEE TABLE	Product - Customer Drw	sheet 6 of 11			

3

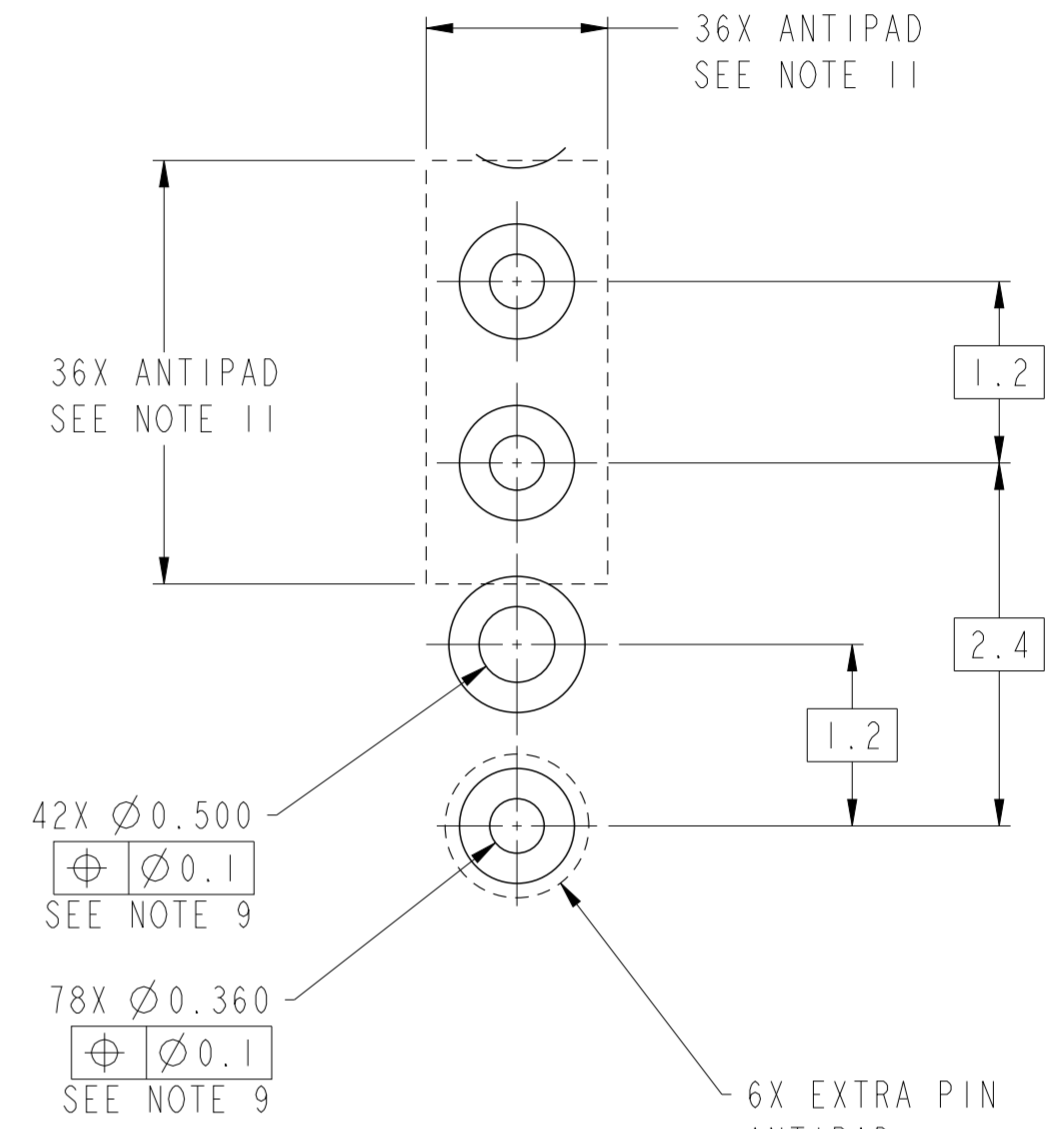
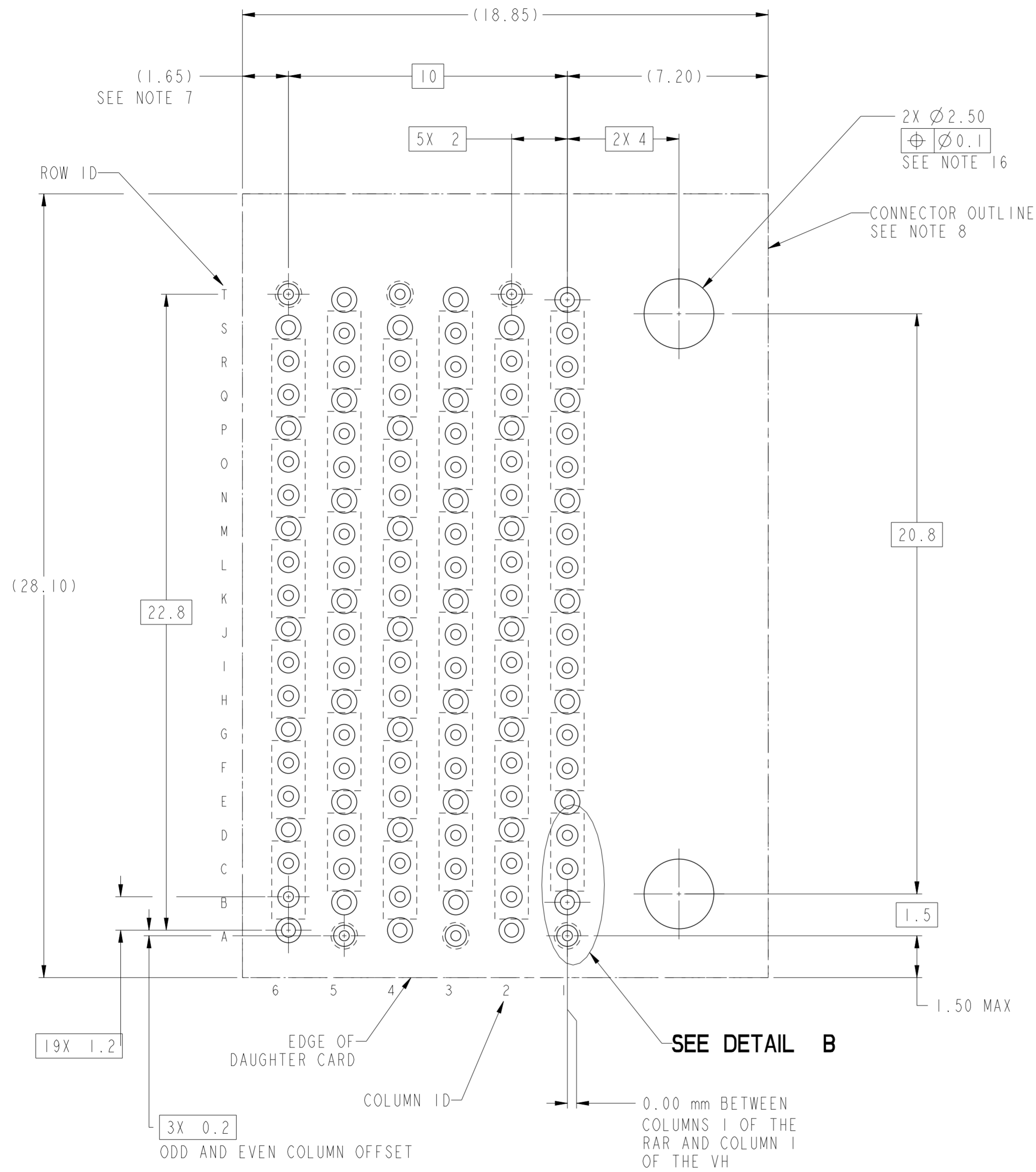
4

5

6

7

8



DETAIL B
SCALE 20:1

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**10131760-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1**

spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	Preliminary
ISO 406		chr	-	appr						
ISO 1101		Amphenol FCI			product family	-	title	ExaMAX R.A. RECEPTACLE ASSY		
surface	linear	0.X	±.3	6 PR, 120 POS, 6 IMLA, 13mm	dwg no	10131760		rev	8	
ISO 1302	angular	0°	±°	cat. no.	-	Product - Customer Drw	sheet 7 of 11			

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

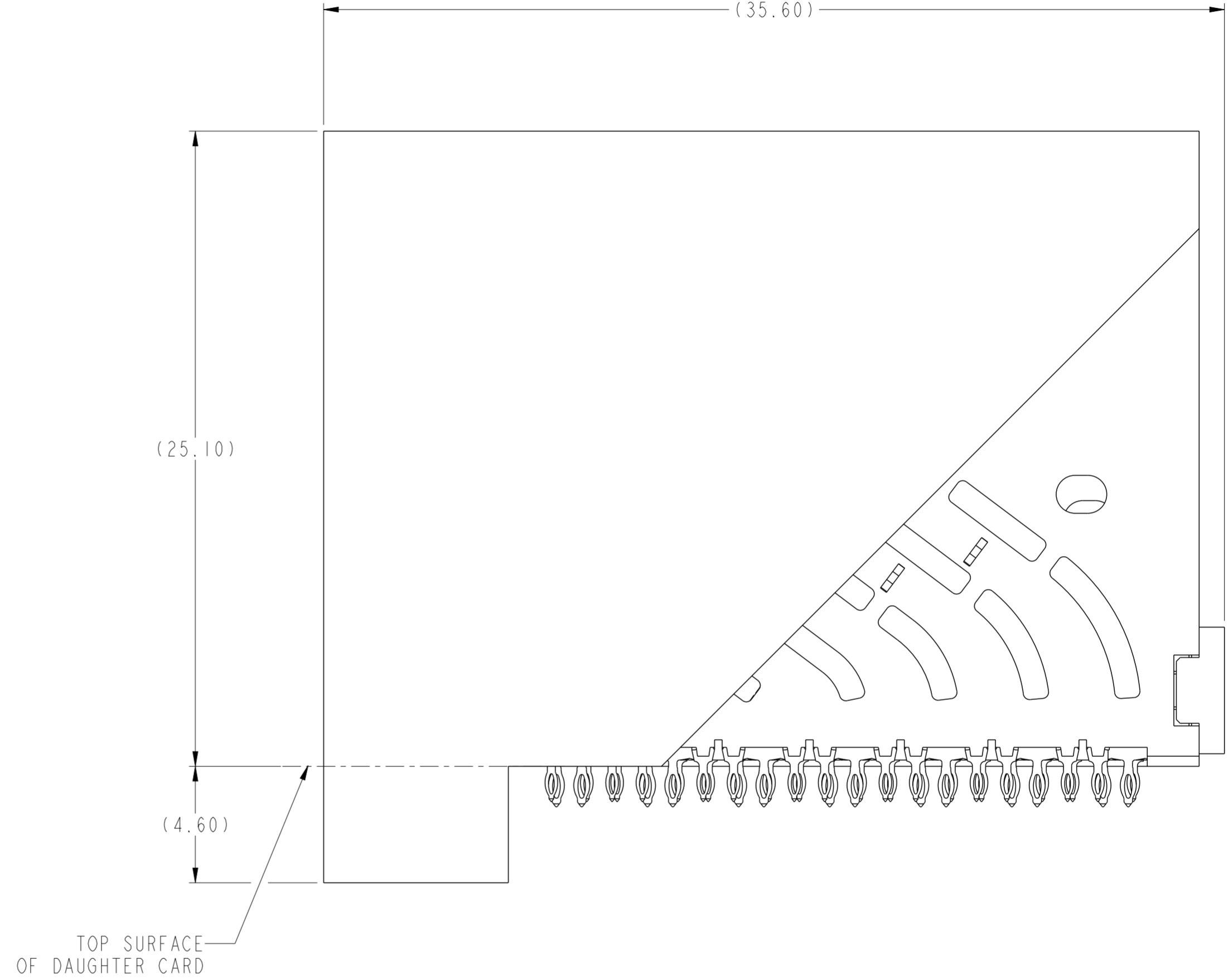
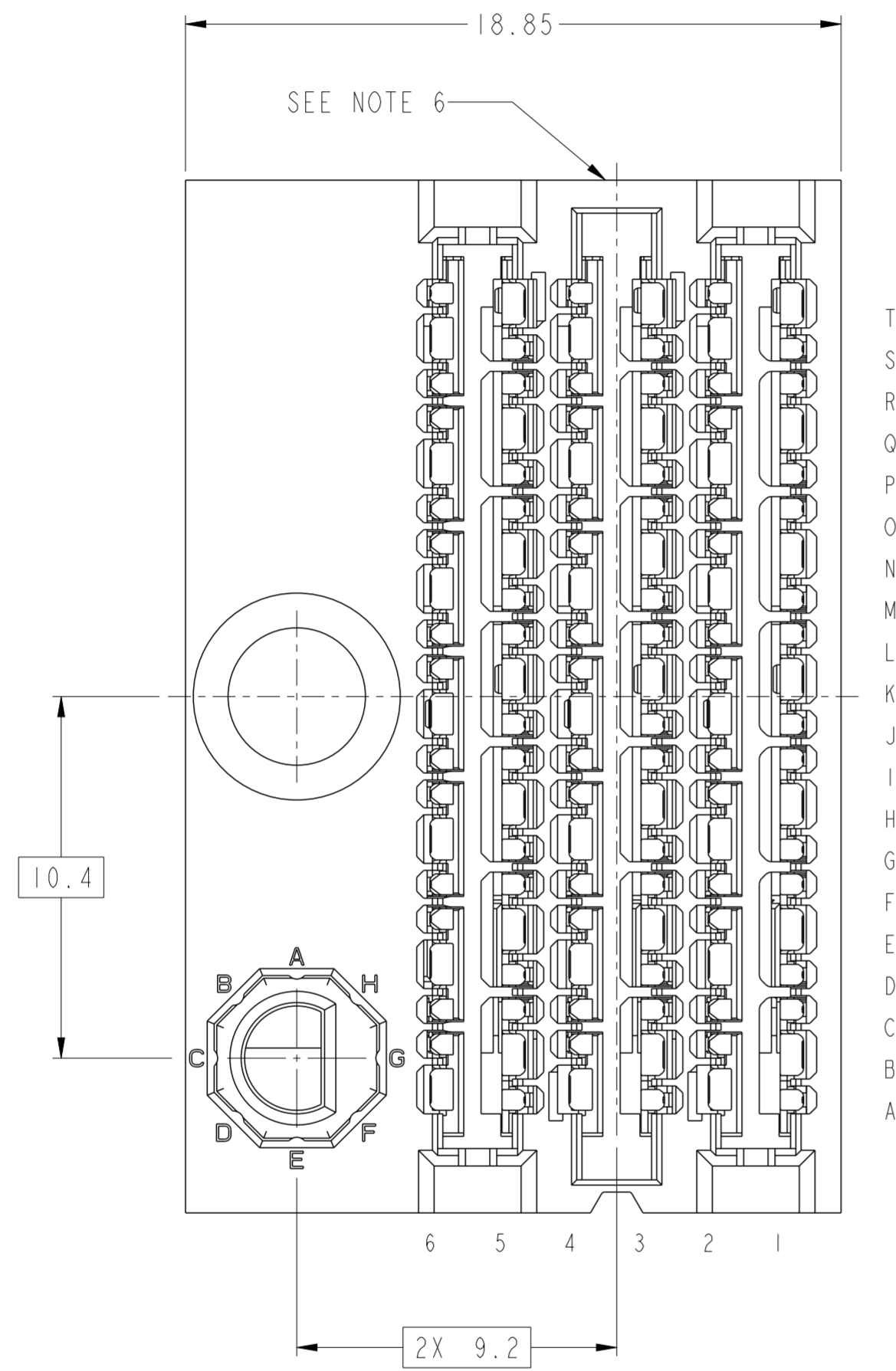
B

C

D

E

F



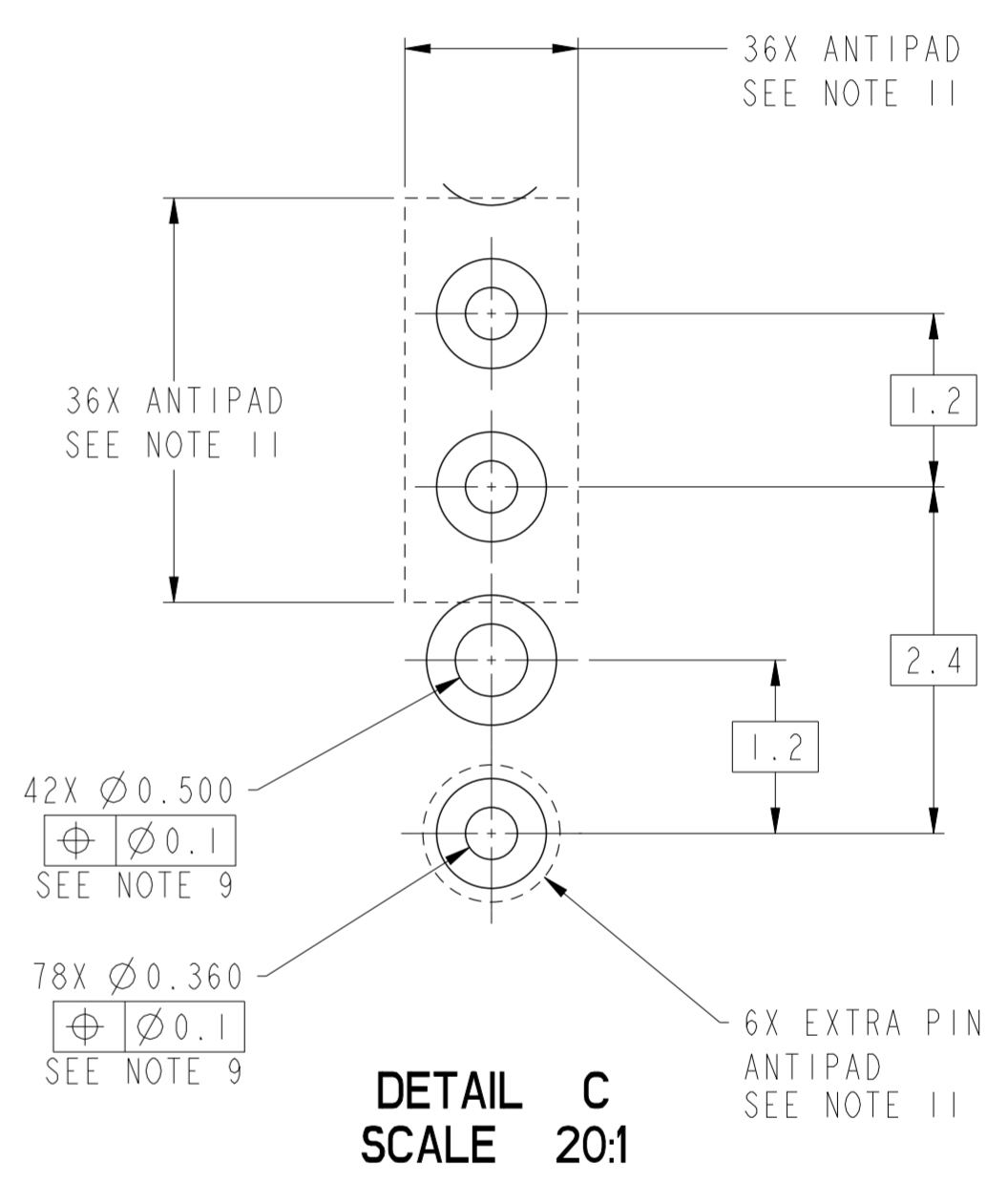
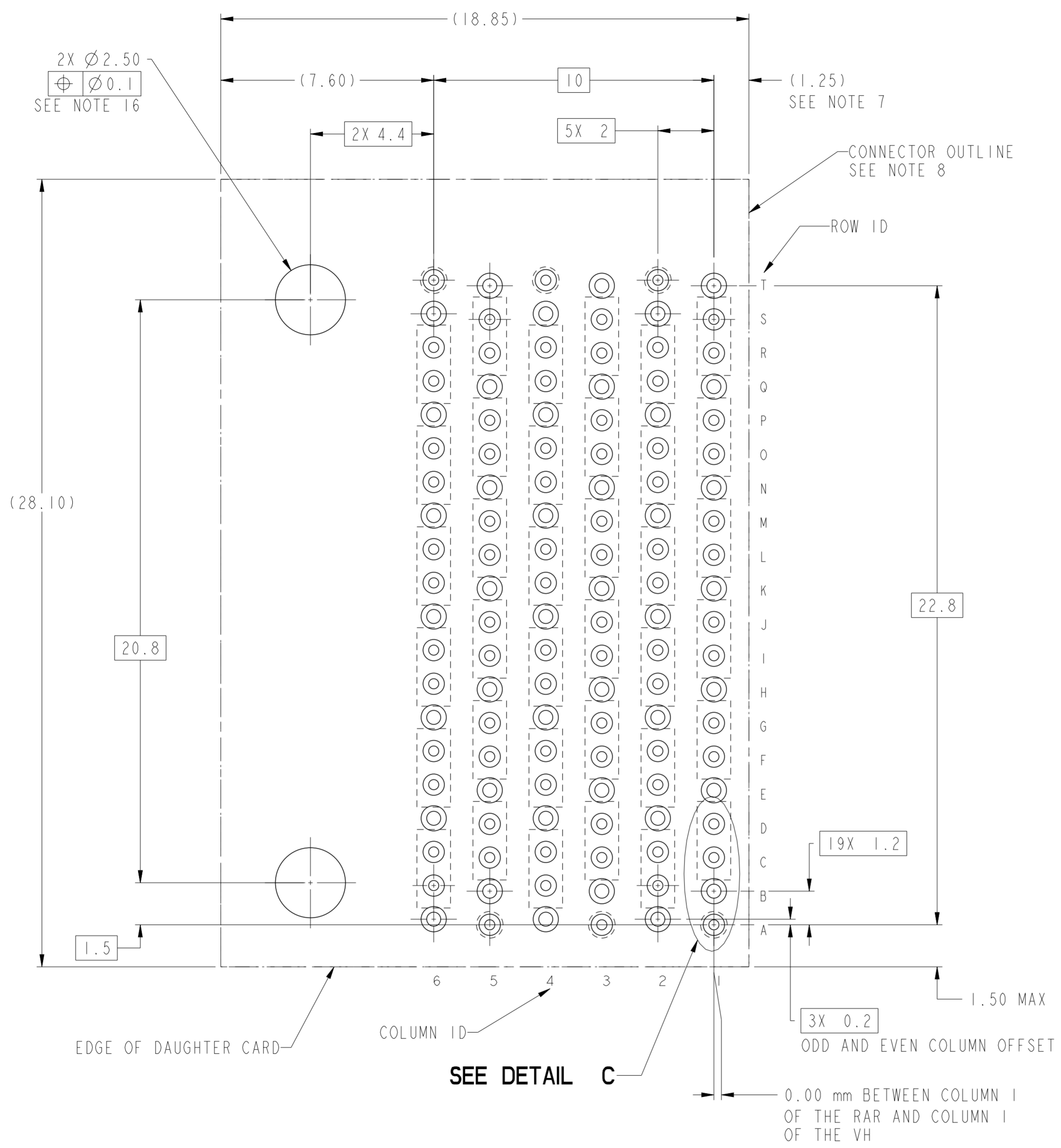
10131760-X2ALF THRU 10131760-X2JLF
 LEFT GUIDANCE (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE 10131760-101LF ON SHEET 1
 SCALE 6:1

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spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	Preliminary
ISO 406		chr	-							
ISO 1101		appr	-		product family	ExaMAX				
surface	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE ASSY	dwg no 10131760	rev 8	
		0.XX	±.10		6 PR, 120 POS, 6 IMLA, 13mm					
		0.XXX	±.050		cat. no. SEE TABLE					
ISO 1302	angular	0°	±°	Product - Customer Drw		sheet 8 of 11				

3 4 5 6 7 8

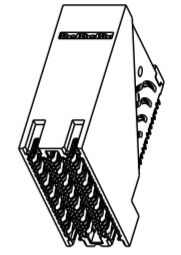
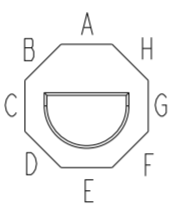

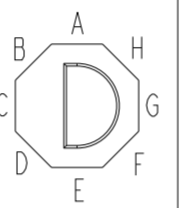
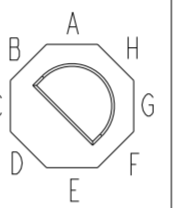
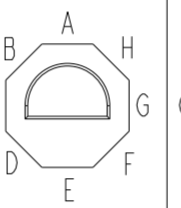
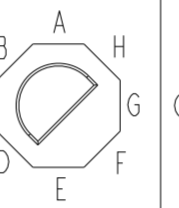
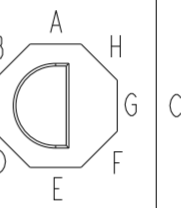
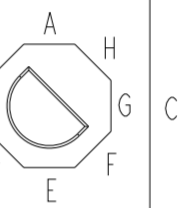

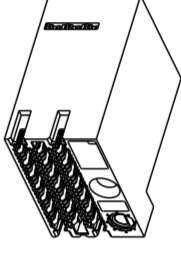
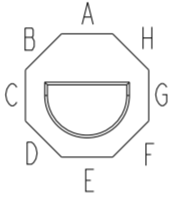
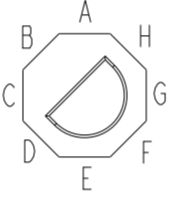
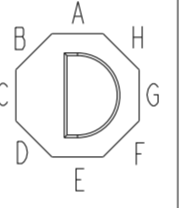
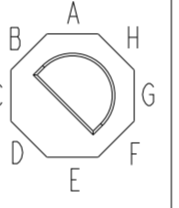
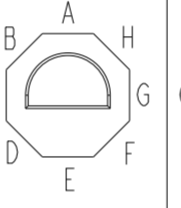
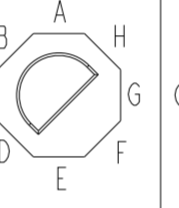
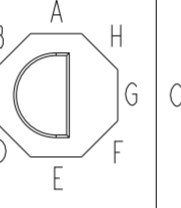
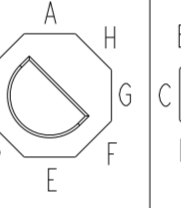
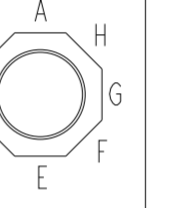
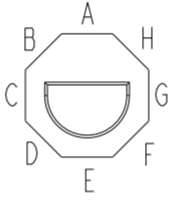
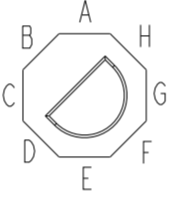
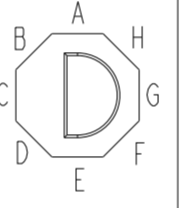
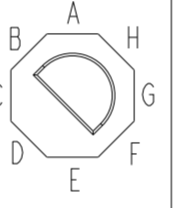
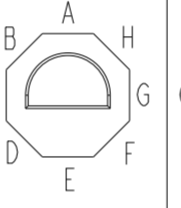
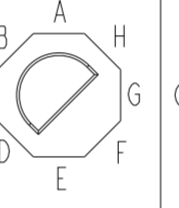
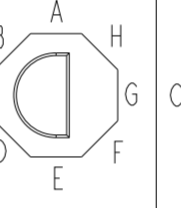
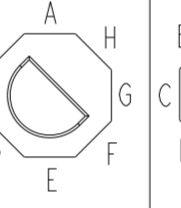
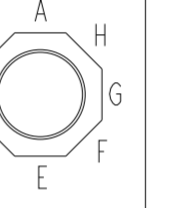
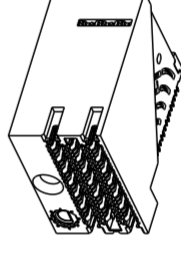
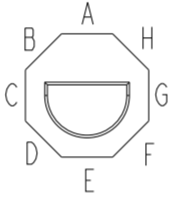
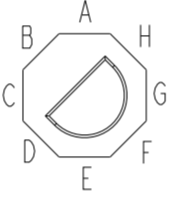
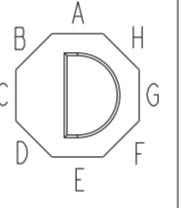
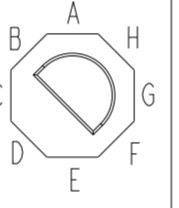
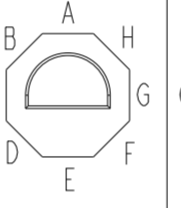
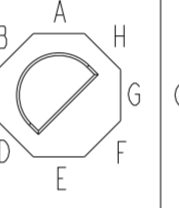
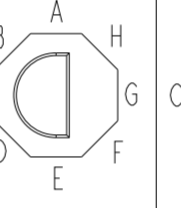
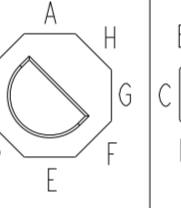
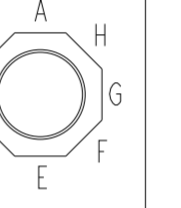


10131760-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1

spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	8:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31			ecn no	-	rel level	Preliminary
ISO 406		chr	-							
ISO 1101		appr	-		product family	-				
surface	linear	0.X	±.3		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no 10131760	rev 8
		0.XX	±.10		6 PR, 120 POS, 6 IMLA, 13mm		Product - Customer Drw			
	angular	0°	±°		cat. no.	-	sheet 9 of 11			

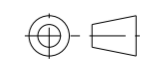
10131760 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10131760-1YYLF	STANDARD MATE
10131760-2YYLF	ADVANCED MATE
10131760-3YYLF	SHORT DETECT
10131760-4YYLF	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)											
											

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spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	1:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31		←→	ecn no	-	rel level	Preliminary			
ISO 406		chr	-	-									
ISO 1101		appr	-	-									
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE ASSY	6 PR, 120 POS, 6 IMLA, 13mm	cat. no.	-	Product - Customer Drw			
ISO 1302	0.XX	±.10	dvw no								10131760	rev	8
	0.XXX	±.050											
angular	0°	±°	sheet 10 of 11										

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, (PART NUMBER & LOT CODE), ON THIS SURFACE.
- ⑦ - THE MINIMUM VIA SPACING BETWEEN STACKED CONNECTORS IS 3.0 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 APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTH, TRACE SPACING, ETC.
- 12 - THE HOUSING WILL WITHSTAND EXPOSURE TO 260° C FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- ⑬ - THE ADVANCED MATE RECEPTACLE, 10131760-2XXLF, 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, 10131760-3XXLF, 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, 10131760-4XXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER OR AN ADVANCED MATE RIGHT-ANGLE HEADER WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75mm 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 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.

spec ref	SEE NOTES	dr	Justin Chen	2014/12/22	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/03/31		← →	ecn no	-	rel level	Preliminary
ISO 406		chr	-	product family			ExaMAX			
ISO 1101		appr	-	title			ExaMAX R.A. RECEPTACLE ASSY	dwg no		10131760
surface	linear	0.X	±.3	Amphenol FCi	6 PR, 120 POS, 6 IMLA, 13mm	cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11	
ISO 1302		0.XX	±.10							
	angular	0°	±°							

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