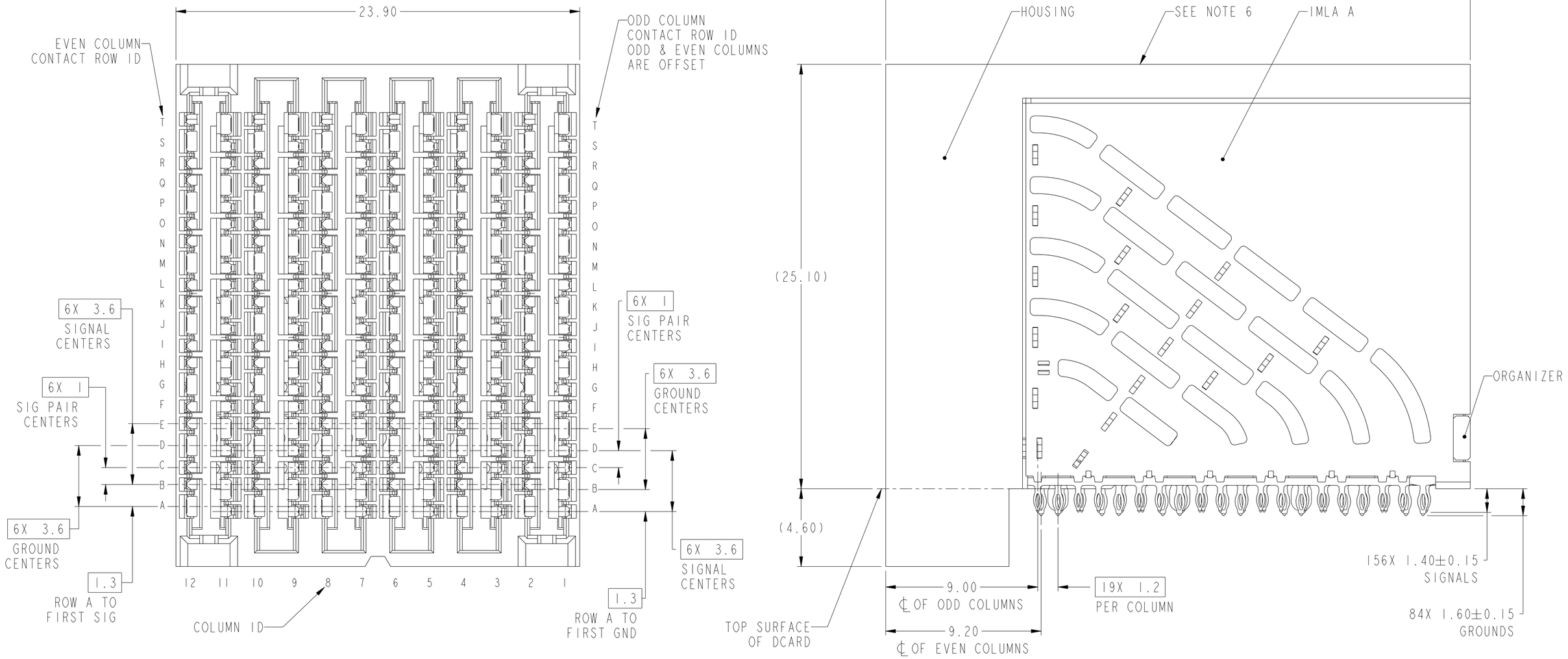
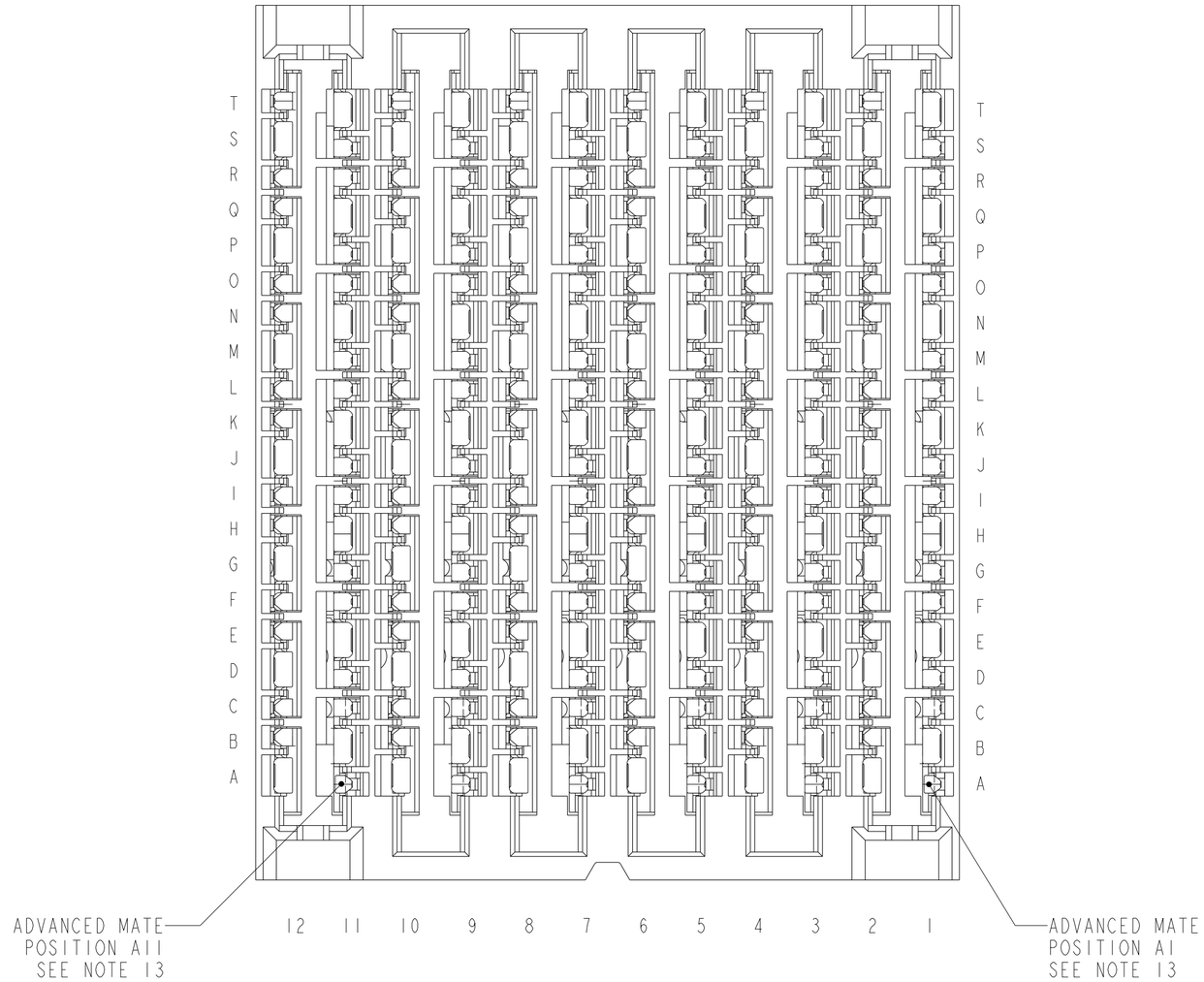
PRODUCT NUMBER
SEE TABLE



10123159-101LF
STANDARD MATE RECEPTACLE
SCALE 6:1

spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2	scale 6:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17				
				chr	D JOHNESCU	2014-03-12			ecn no	
				appr			product family	ExaMAX	rel level	In Work
surface √	linear	0.X	±.3	FCI	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159		rev 7
		0.XX	±.10			6 PR, 240 POS, 12 IMLA, 24mm				
		0.XXX	±.050							
	angular	0°	±°	www.fci.com	cat. no.	SEE TABLE	Product - Customer Drw		sheet 1 of 10	

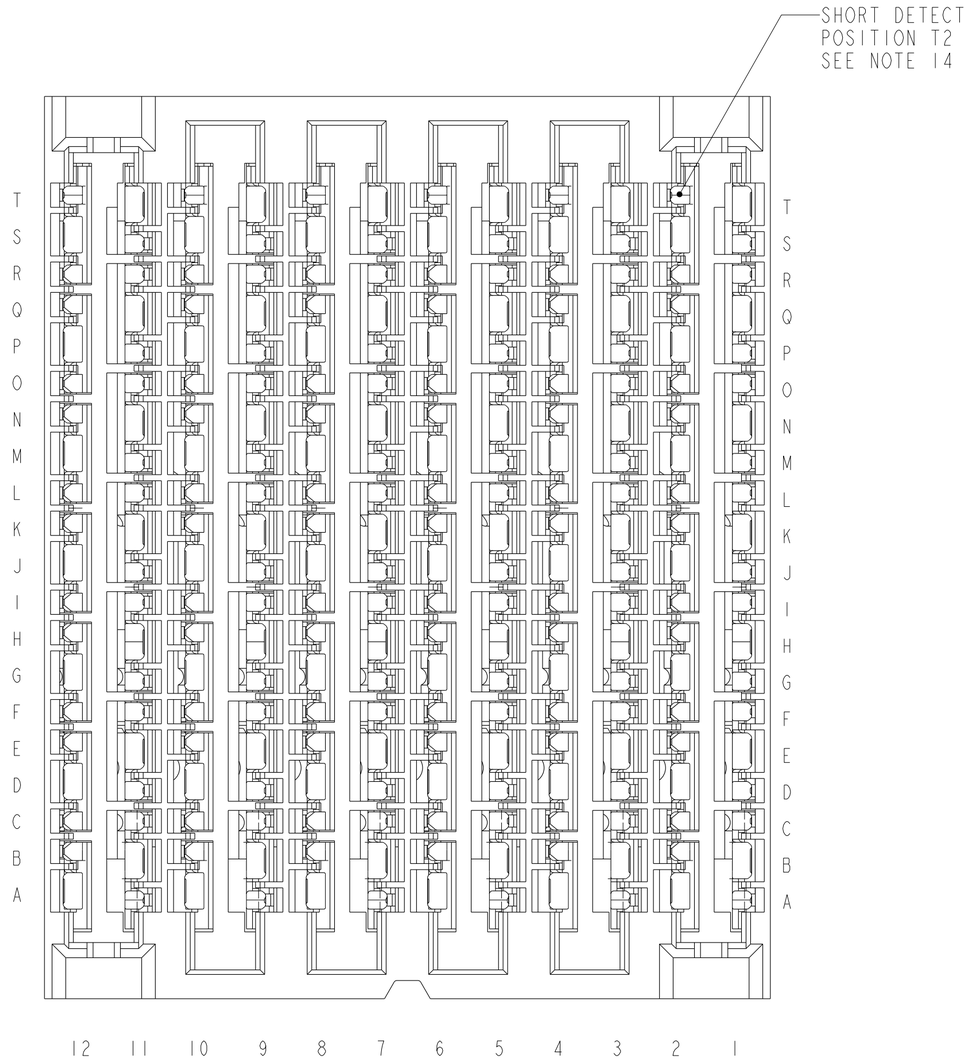
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10123159-201LF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 AND A11 ONLY
FOR ALL DIMENSIONS SEE 10123159-101LF ON SHEET 1
SCALE 7:1

spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2 / scale 7:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17			
				chr	D JOHNESCU	2014-03-12			ecn no
				appr			product family: ExaMAX		rel level: In Work
surface √	linear	0.X	±.3	FCI	title: ExaMAX R.A. RECEPTACLE ASSY 6 PR, 240 POS, 12 IMLA, 24mm		dwg no: 10123159		rev 7
		0.XX	±.10						
		0.XXX	±.050						
	angular	0°	±°	www.fci.com	cat. no. SEE TABLE	Product - Customer Drw			sheet 2 of 10

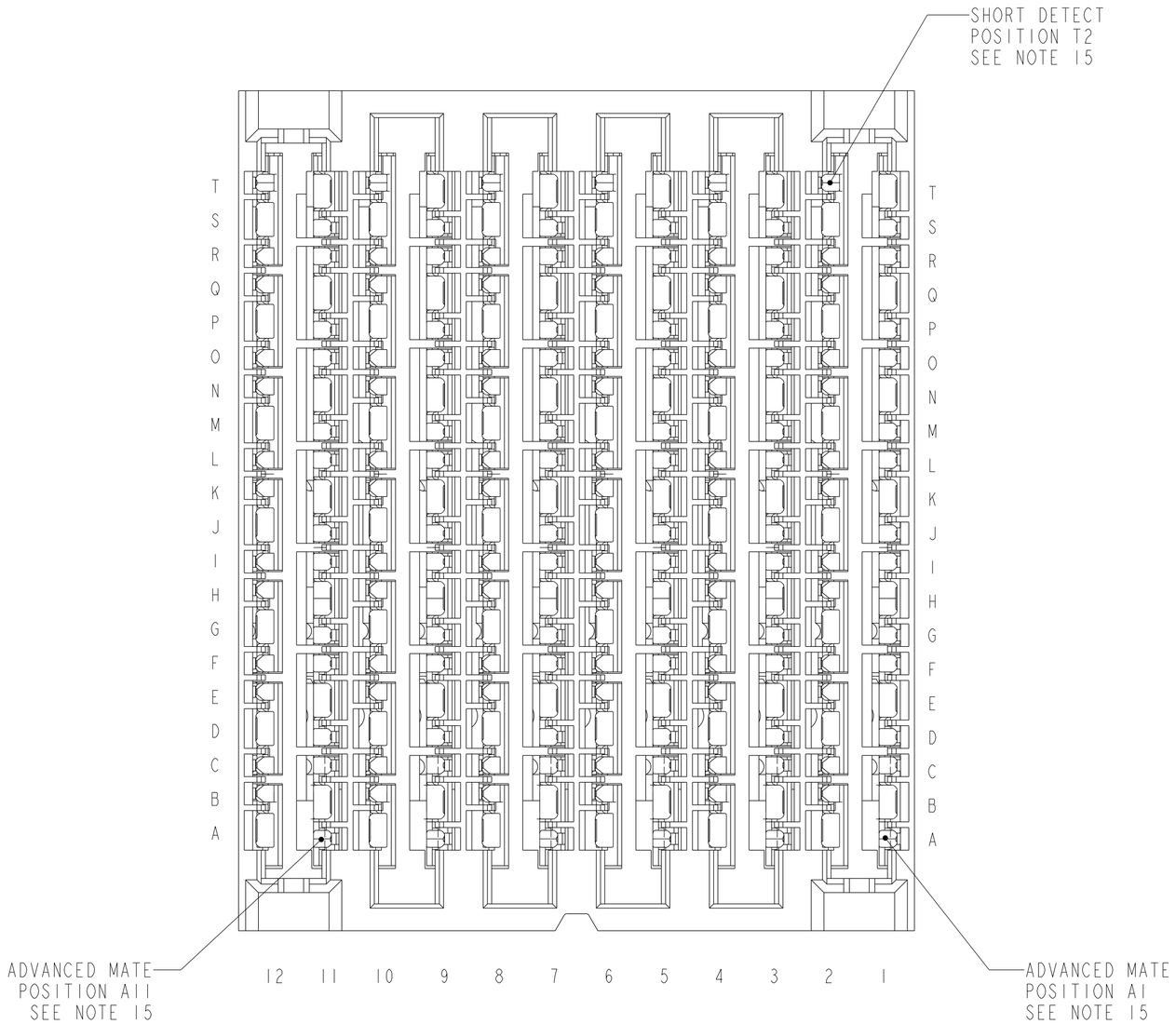
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10123159-301LF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS T2
FOR ALL DIMENSIONS SEE 10123159-101LF ON SHEET 1
SCALE 7:1

spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2 / scale 7:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17			ecn no
				chr	D JOHNESCU	2014-03-12			
				appr			product family	ExaMAX	rel level In Work
surface	linear	0.X	±.3	FCI www.fci.com	title	ExaMAX R.A. RECEPTACLE ASSY 6 PR, 240 POS, 12 IMLA, 24mm	dwg no	10123159	rev 7
		0.XX	±.10						
		0.XXX	±.050						
	angular	0°	± °		cat. no.	SEE TABLE	Product - Customer Drw		sheet 3 of 10

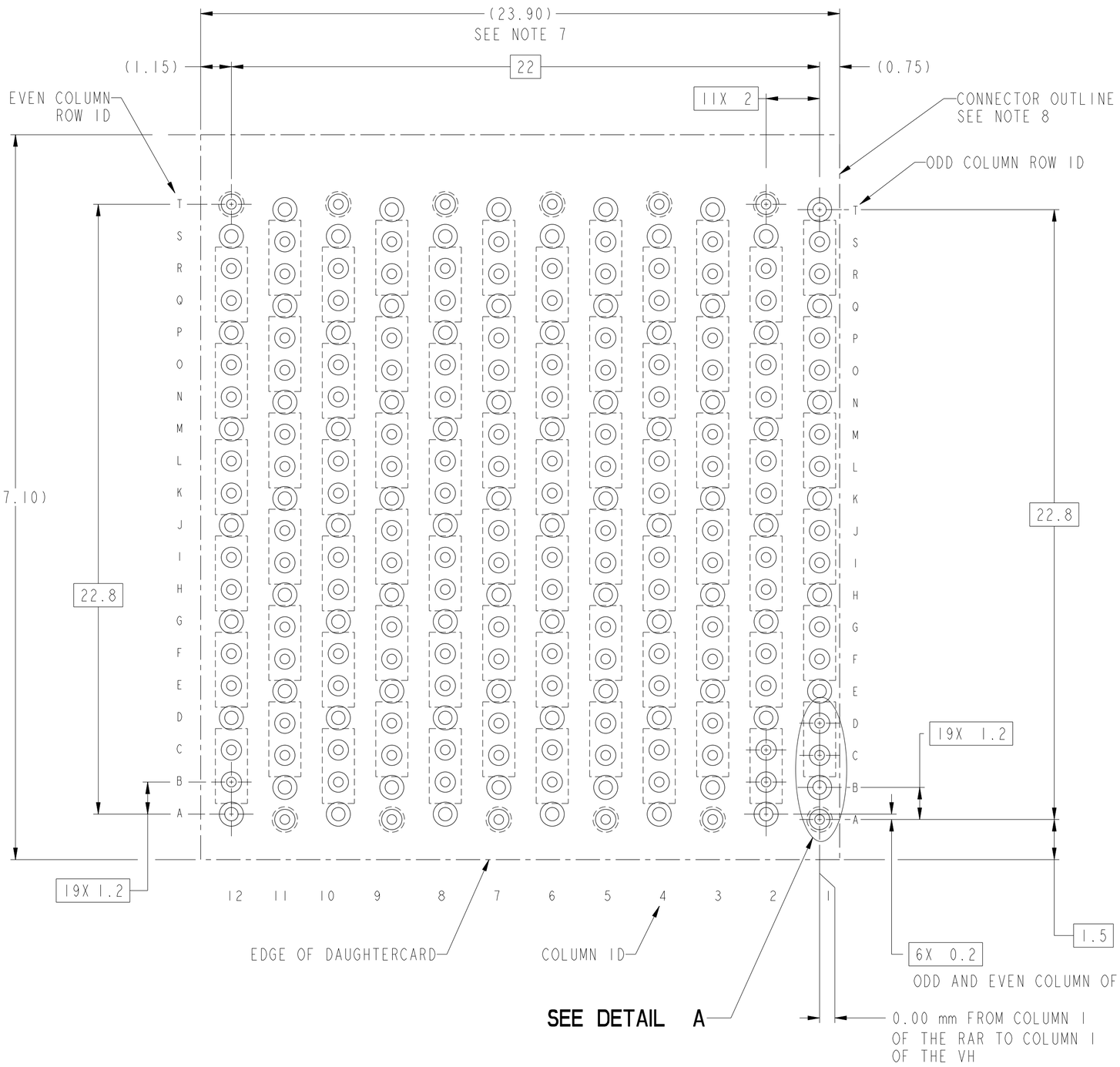
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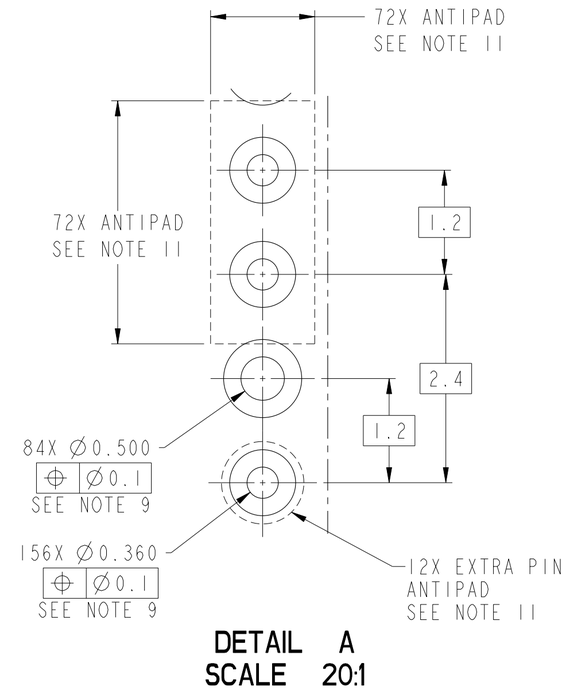


10123159-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
SHORT DETECT POSITION IS T2
FOR ALL DIMENSIONS SEE 10123159-101LF ON SHEET 1
SCALE 7:1

spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2 / scale 7:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17			ecn no
				chr	D JOHNESCU	2014-03-12			
				appr			product family	ExaMAX	rel level In Work
surface -	linear	0.X	±.3	FCI	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	rev 7
		0.XX	±.10			6 PR, 240 POS, 12 IMLA, 24mm			
		0.XXX	±.050						
	angular	0°	± °	www.fci.com	cat. no.	SEE TABLE	Product - Customer Drw		sheet 4 of 10

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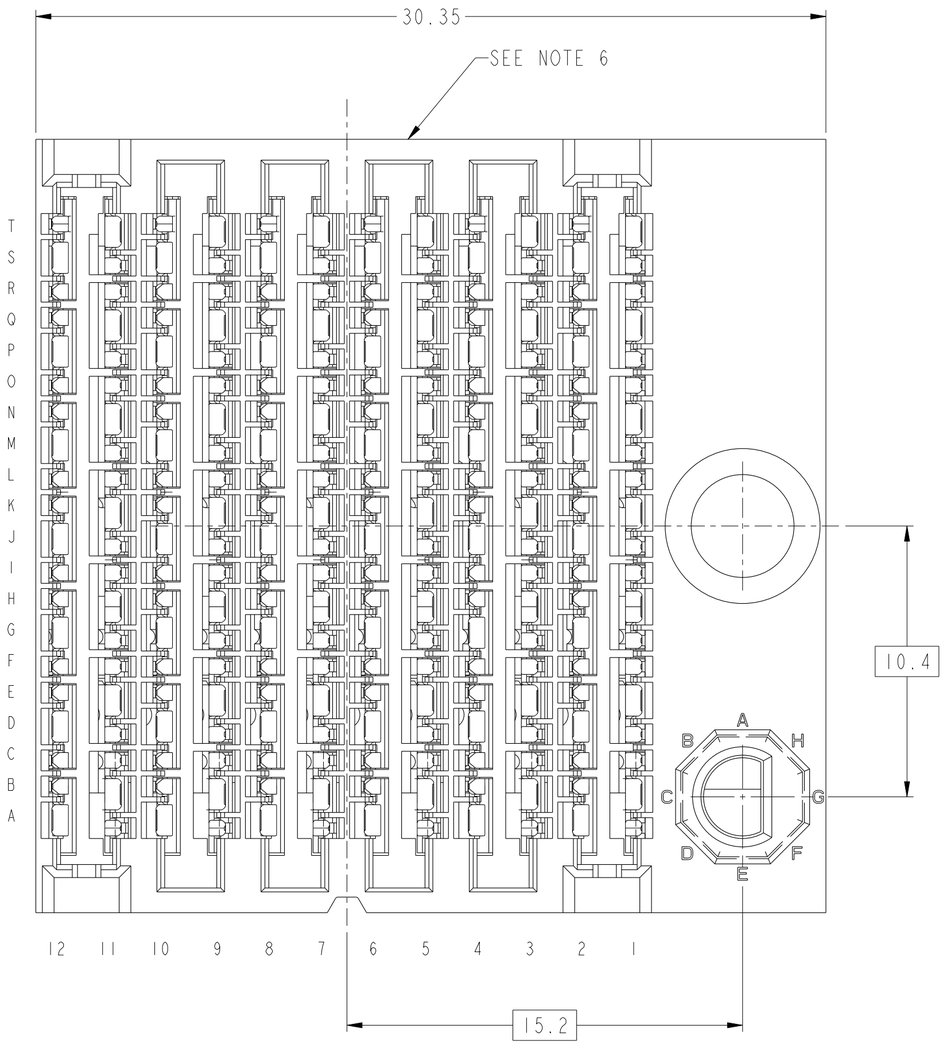


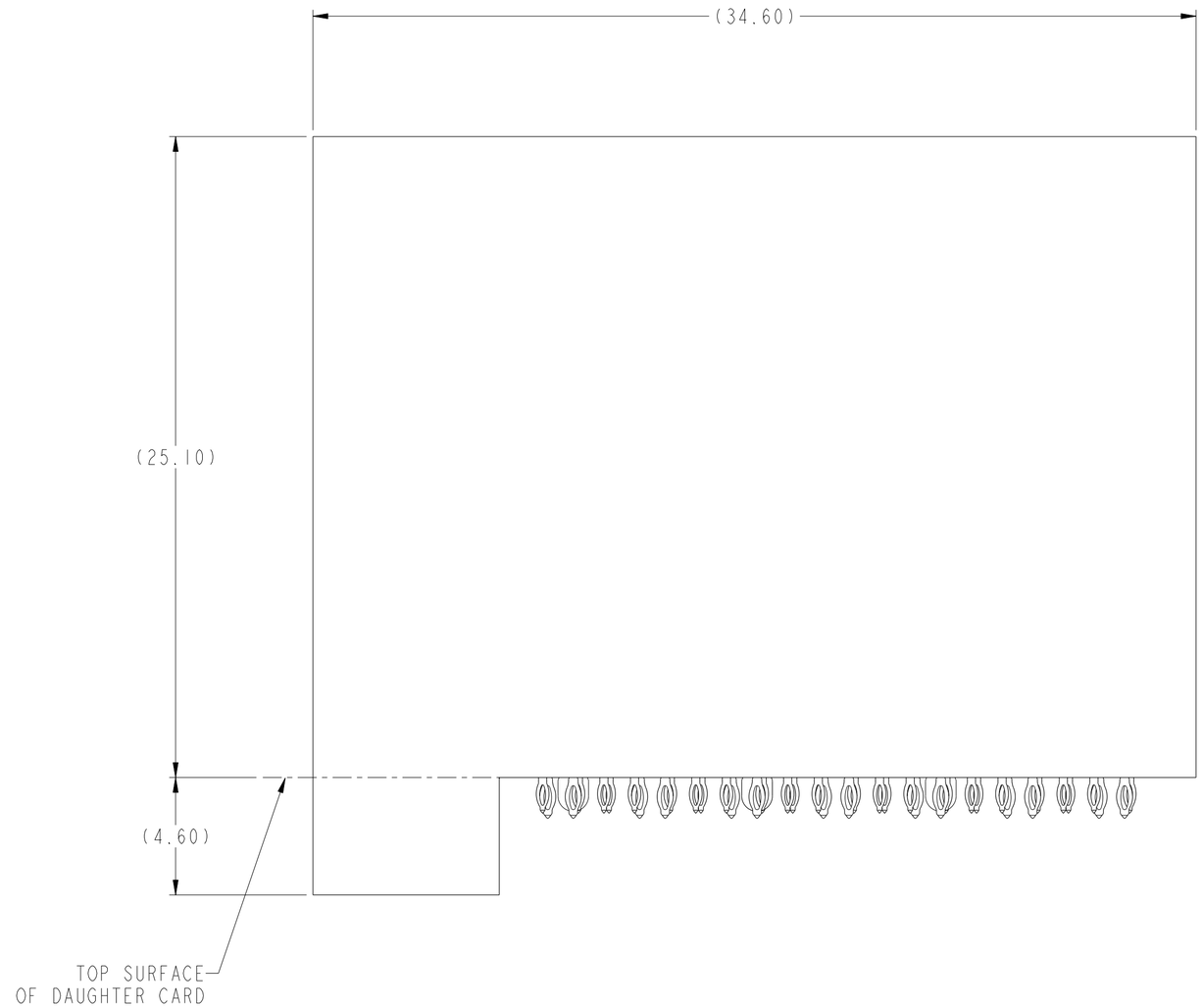
DETAIL A
SCALE 20:1

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

spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2 / scale 8:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17			ecn no
				chr	D JOHNESCU	2014-03-12			
				appr			product family -		rel level In Work
surface	linear	0.X	±.3	FCI	title: ExaMAX R.A. RECEPTACLE ASSY, 6 PR, 240 POS, 12 IMLA, 24mm		dwg no 10123159		rev 7
		0.XX	±.10						
		0.XXX	±.050						
	angular	0°	±°	www.fci.com	cat. no. -		Product - Customer Drw		sheet 5 of 10

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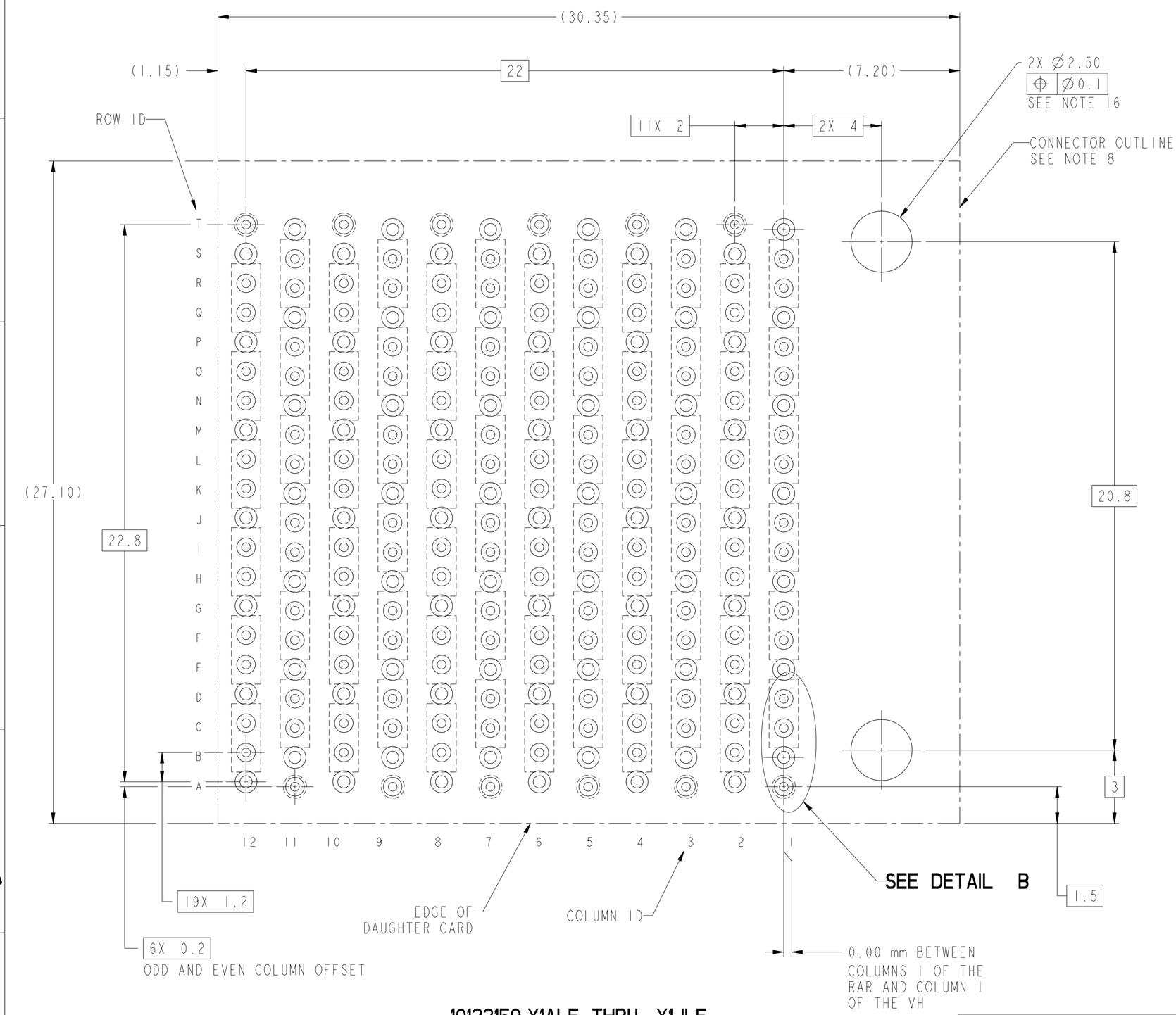


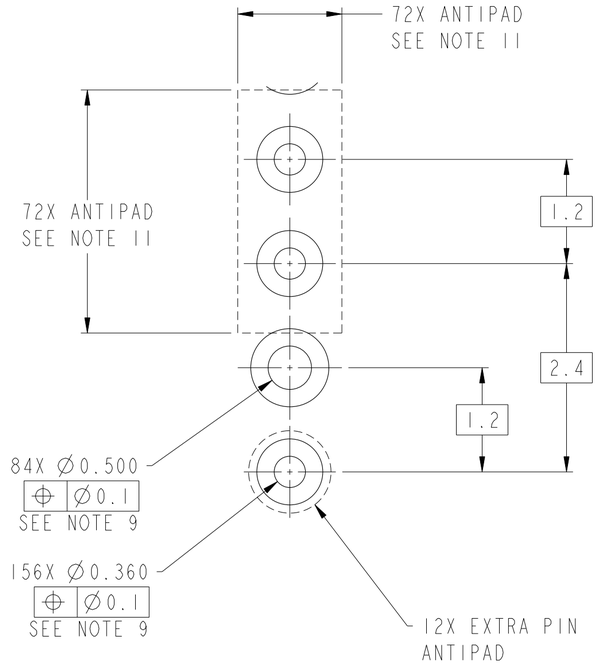


10123159-X1ALF THRU 10123159-X1JLF
RIGHT GUIDANCE
FOR ALL OTHER DIMENSIONS SEE 10123159-101LF ON SHEET 1
SCALE 6:1

spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2 / scale 6:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17			ecn no
				chr	D JOHNESCU	2014-03-12			
				appr			product family	ExaMAX	rel level In Work
surface -	linear	0.X	±.3	FCI	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	rev 7
		0.XX	±.10			6 PR, 240 POS, 12 IMLA, 24mm			
		0.XXX	±.050						
	angular	0°	±°	www.fci.com	cat. no.	SEE TABLE	Product - Customer Drw		sheet 6 of 10

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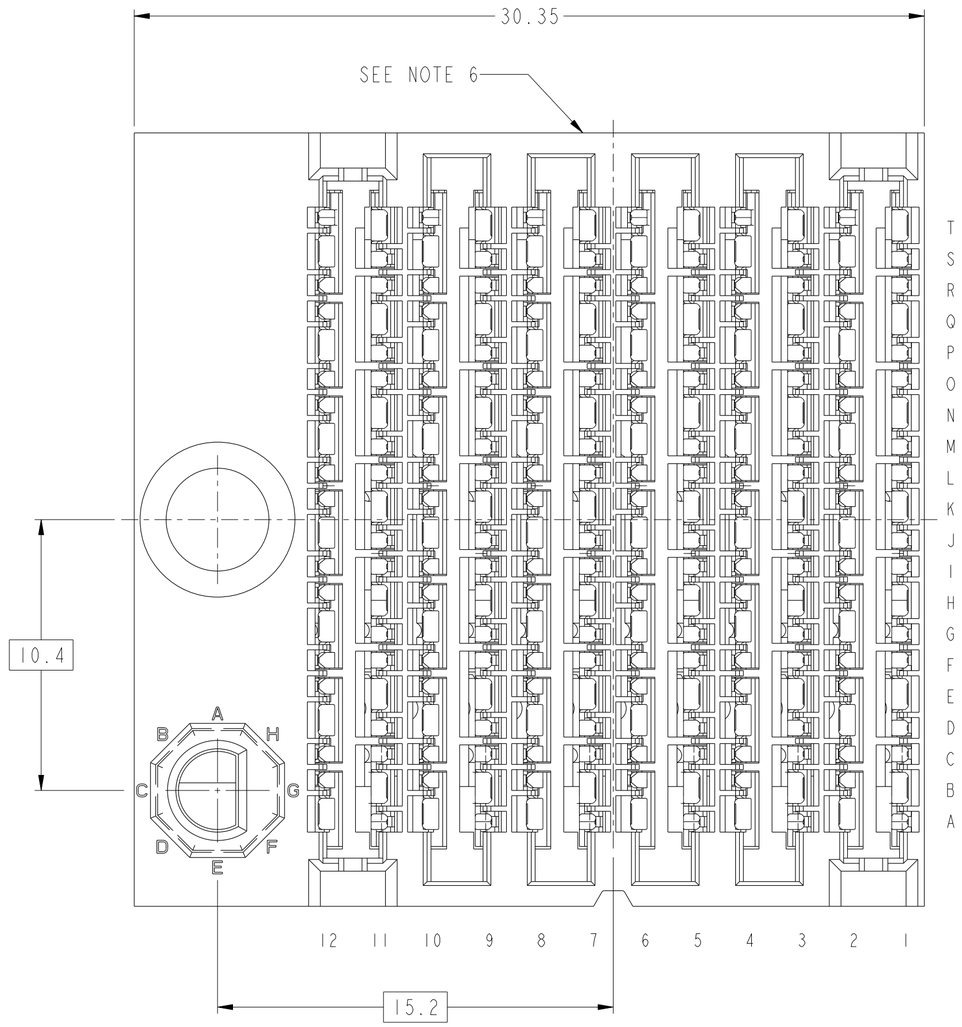


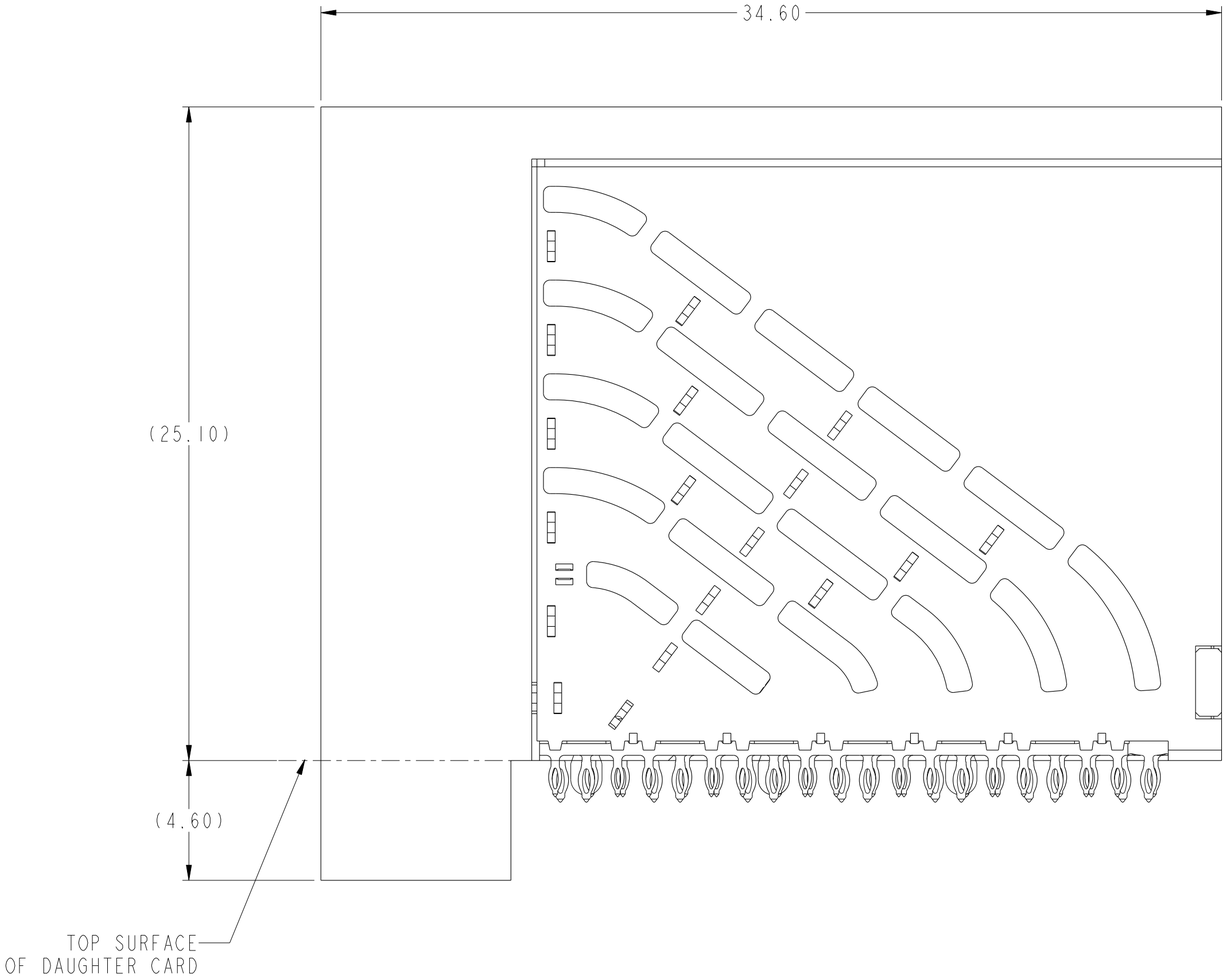
DETAIL B
SCALE 20:1

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

spec ref	SEE NOTES		dr	SHU CHEN	2013-10-17	projection	MM	size A2	scale 1:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	HEAVEN CEN	2013-10-17			ecn no	
			chr	D JOHNESCU	2014-03-12				
			appr			product family	-	rel level	In Work
surface √	linear	0.X ±.3	FCI www.fci.com	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159		rev 7
		0.XX ±.10			6 PR, 240 POS, 12 IMLA, 24mm				
		0.XXX ±.050		cat. no.	-	Product - Customer Drw		sheet 7 of 10	
	angular	0° ±°							

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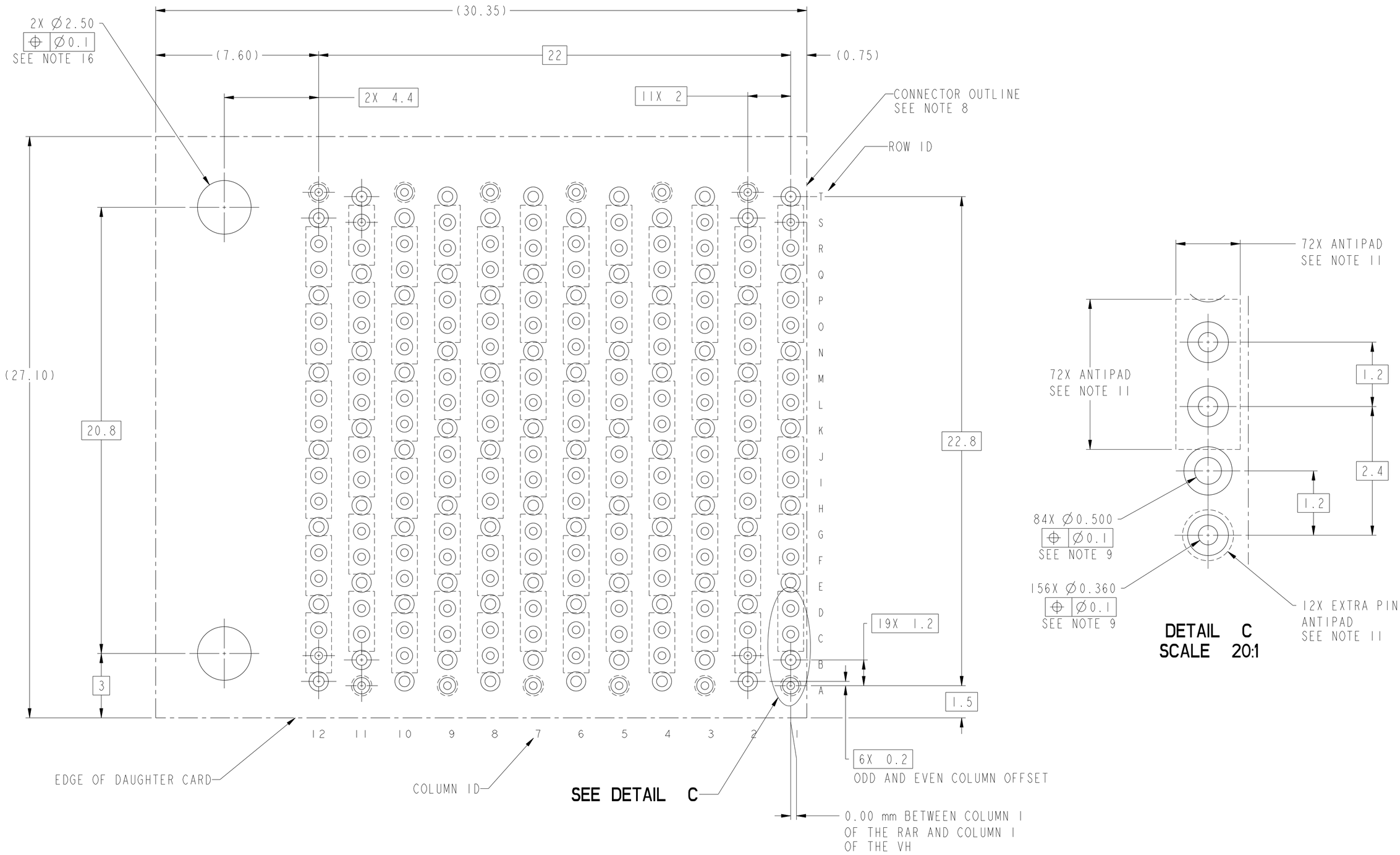




10123159-X2ALF THRU 10123159-X2JLF
LEFT GUIDANCE
FOR ALL OTHER DIMENSIONS SEE 10123159-101LF ON SHEET 1
SCALE 6:1

spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2 / scale 6:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17			ecn no
				chr	D JOHNESCU	2014-03-12			
				appr			product family	ExaMAX	rel level In Work
surface √	linear	0.X	±.3	FCI	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	rev 7
		0.XX	±.10			6 PR, 240 POS, 12 IMLA, 24mm			
		0.XXX	±.050						
	angular	0°	±°	www.fci.com	cat. no.	SEE TABLE	Product - Customer Drw		sheet 8 of 10

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DETAIL C
SCALE 20:1

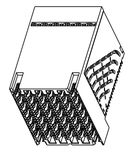
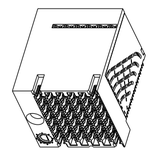
10123159-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 8, 9, 11 & 16
SCALE 8:1

spec ref	SEE NOTES		dr	SHU CHEN	2013-10-17	projection	MM	size A2	scale 8:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	HEAVEN CEN	2013-10-17				ecn no
			chr	D JOHNESCU	2014-03-12				
			appr			product family -		rel level	In Work
surface -	linear	0.X ±.3	FCI	title	ExaMAX R.A. RECEPTACLE ASSY			dwg no 10123159	rev 7
		0.XX ±.10			6 PR, 240 POS, 12 IMLA, 24mm				
		0.XXX ±.050	www.fci.com	cat. no. -		Product - Customer Drw		sheet 9 of 10	
	angular	0° ±°							

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10123159 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION	STATUS
10123159-1YYLF	STANDARD MATE	TOOLED
10123159-2YYLF	ADVANCED MATE	NOT TOOLED
10123159-3YYLF	SHORT DETECT	
10123159-4YYLF	ADVANCED MATE & SHORT DETECT	

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER									STATUS	BASE MODULE
WITHOUT END GUIDES MODULE (SEE SHEET 1)	01									TOOLED	
RIGHT GUIDANCE MODULE (SEE SHEET 6)	1A	1B	1C	1D	1E	1F	1G	1H	1J (NO KEY)	NOT TOOLED	
LEFT GUIDANCE MODULE (SEE SHEET 8)	2A	2B	2C	2D	2E	2F	2G	2H	2J (NO KEY)	NOT TOOLED	

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 CENTERLINE SPACING BETWEEN ADJACENT MODULES IS 24.0mm FOR -X01

(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, 10123159-2XXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER, 10123162-2XXLF, OR ADVANCED MATE RIGHT-ANGLE HEADER, 10124560-2XXLF, 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 AN STANDARD MATE VERTICAL HEADER, 10123162-1XXLF, OR THE STANDARD MATE RIGHT-ANGLE HEADER, 10124560-1XXLF, 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, 10123162-2XXLF, OR THE ADVANCED MATE RIGHT-ANGLE HEADER, 10124560-2XXLF, 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 MAY 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.

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spec ref	SEE NOTES			dr	SHU CHEN	2013-10-17	projection	MM	size A2 / scale 1:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	HEAVEN CEN	2013-10-17			ecn no
				chr	D JOHNESCU	2014-03-12			
				appr			product family -		rel level In Work
surface -	linear	0.X	±.3	FCI	title	ExaMAX R.A. RECEPTACLE ASSY	dwg no	10123159	rev 7
		0.XX	±.10			6 PR, 240 POS, 12 IMLA, 24mm			
		0.XXX	±.050						
	angular	0°	±°	www.fci.com	cat. no. -	Product - Customer Drw			sheet 10 of 10