

PRODUCT NUMBER
SEE TABLE

EVEN COLUMN
CONTACT ROW ID

ODD COLUMN
CONTACT ROW ID
ODD & EVEN COLUMNS
ARE OFFSET

6X 3.6
SIGNAL
CENTERS

6X 1
SIG PAIR
CENTERS

6X 3.6
GROUND
CENTERS

1.3
ROW A TO
FIRST SIG

COLUMN ID

6X 1
SIG PAIR
CENTERS

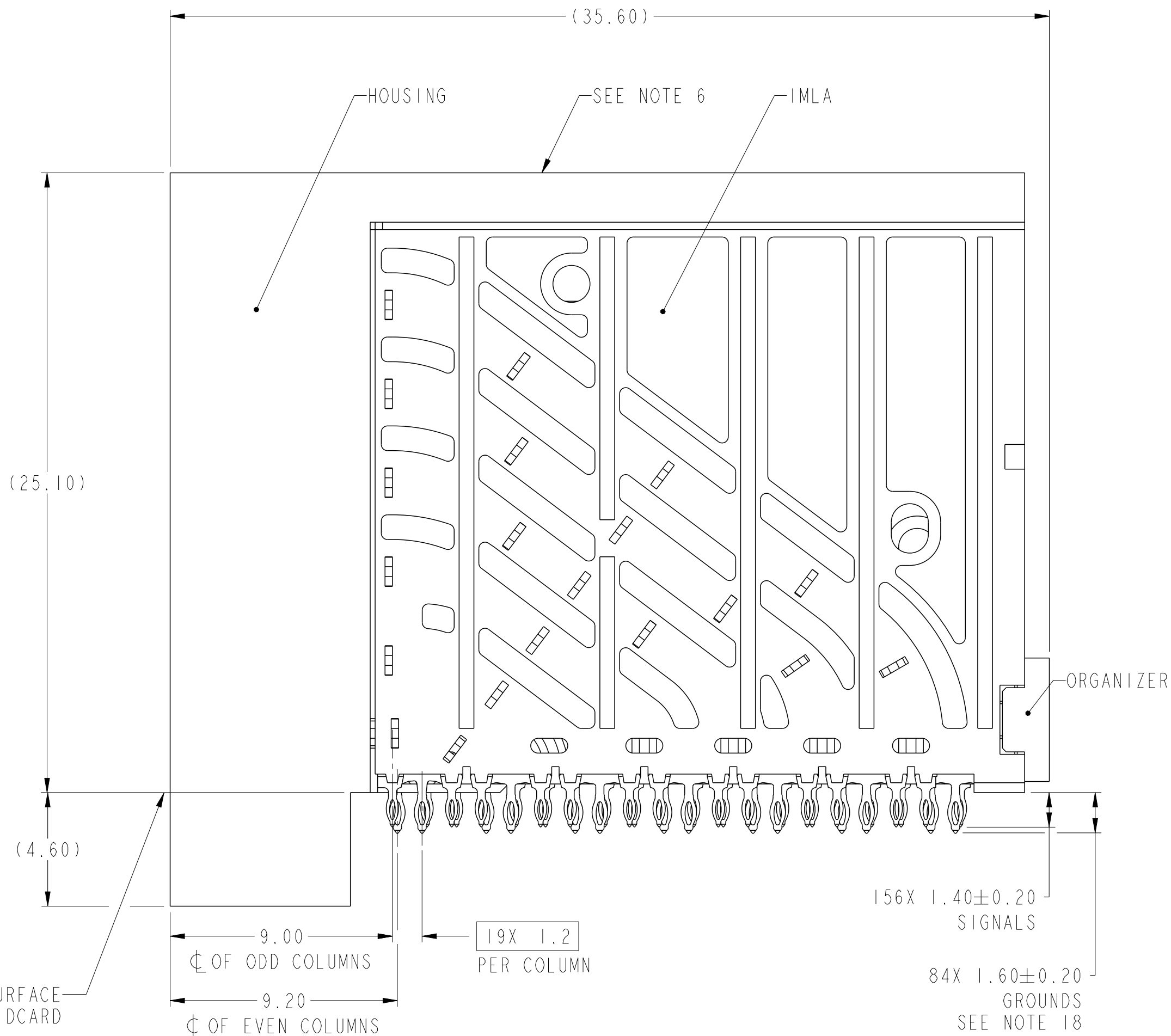
6X 3.6
GROUND
CENTERS

6X 3.6
SIGNAL
CENTERS

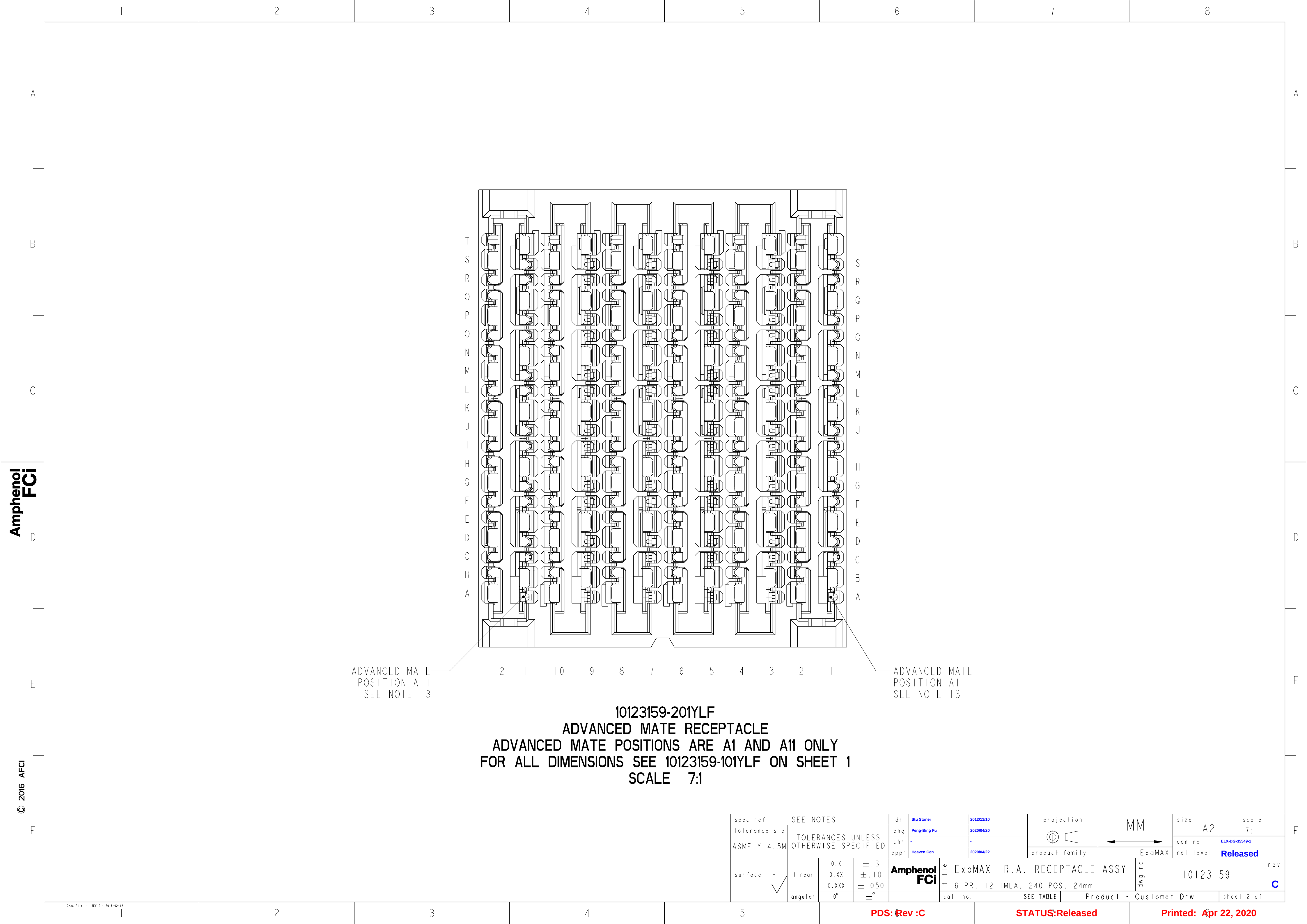
1.3
ROW A TO
FIRST GND

TOP SURFACE
OF DCARD

10123159-101YLF
STANDARD MATE RECEPTACLE
SCALE 6:1



spec ref		SEE NOTES		dr		Stu Stoner		2012/11/10		projection		MM		size		scale			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2020/04/20						A2		6:1			
ASME Y14.5M				chr		-		-						ecn no		ELX-DG-35549-1			
		appr		Heaven Cen		2020/04/22		product family						ExaMAX		rel level		Released	
surface -		linear		0.X ±.3 0.XX ±.10 0.XXX ±.050		Amphenol FCi		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no		10123159		rev			
																		6 PR, 12 IMLA, 240 POS, 24mm	
																		cat. no.	
		angular		0° ±°															



Amphenol
FCi

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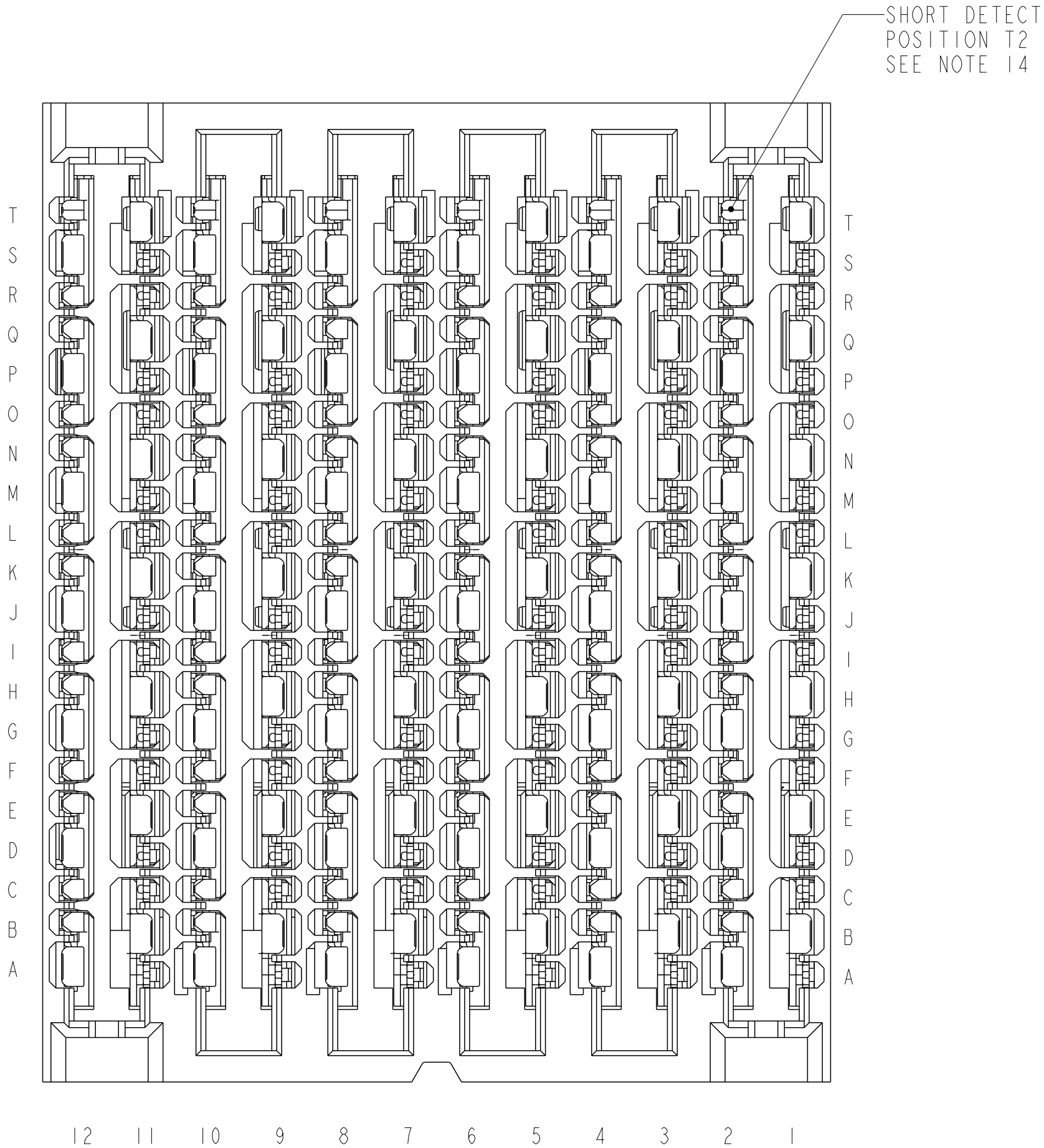
10123159-201YLF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 AND A11 ONLY
FOR ALL DIMENSIONS SEE 10123159-101YLF ON SHEET 1
SCALE 7:1

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		2020/04/20						ecn no		ELX-DG-35549-1						
ASME Y14.5M					chr		-		-						rel level		Released						
					appr		Heaven Cen		2020/04/22						product family		ExaMAX						
surface		-		linear		0.X		±.3		Amphenol FCi		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no		10123159		rev		C	
				0.XX		±.10																	
				0.XXX		±.050																	
		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 2 of 11							

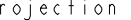
PDS: Rev :C

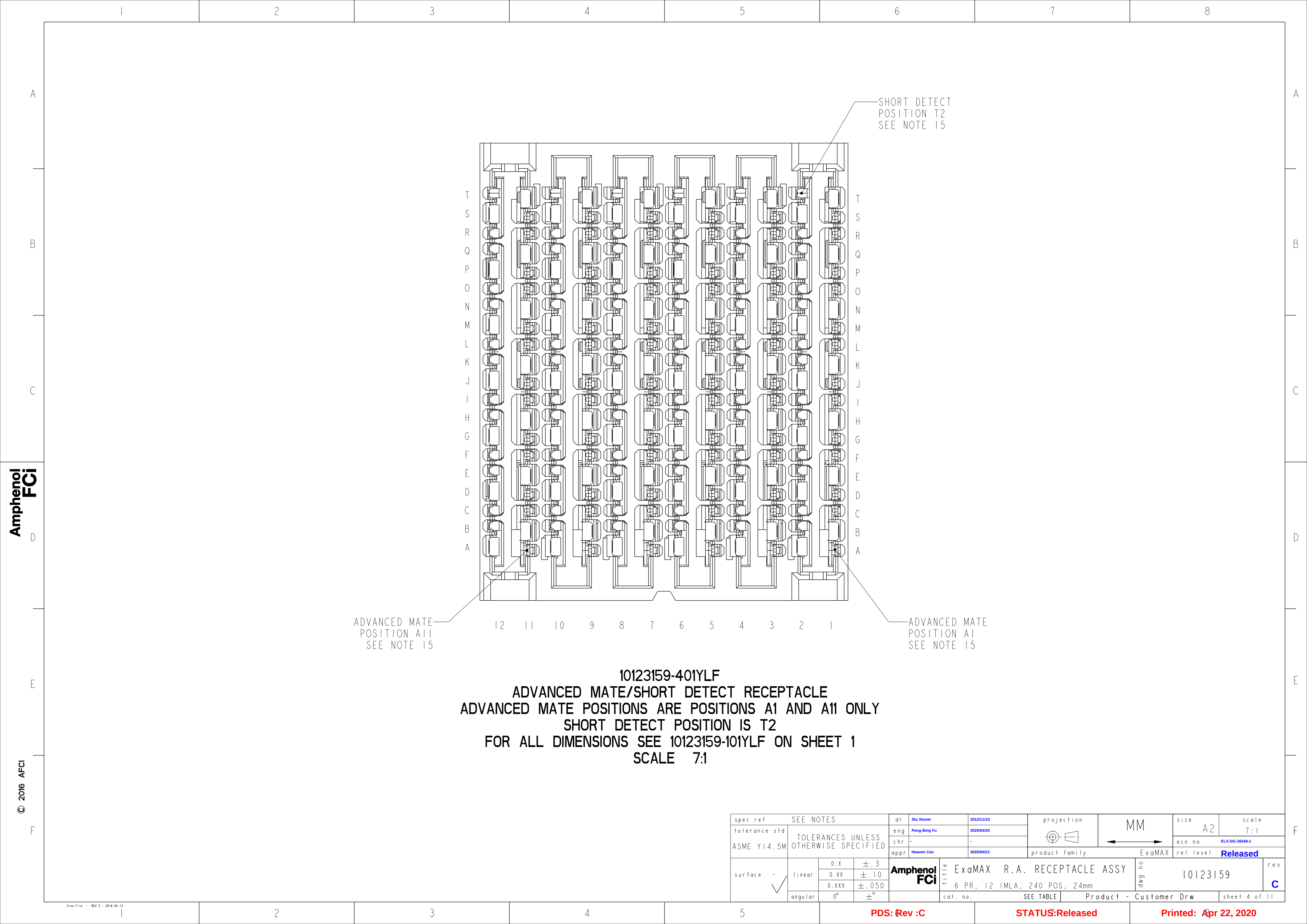
STATUS:Released

Printed: Apr 22, 2020



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

spec ref	SEE NOTES				dr	Stu Stoner	2012/11/10			size	A2	scale	7:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	Peng-Bing Fu	2020/04/20			ecn no	ELX-DG-35549-1		
ASME Y14.5M					chr	-	-			rel level	Released		
					appr	Heaven Cen	2020/04/22			product family		ExaMAX	
surface - 	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE ASSY				dwg no	10123159	rev	C
		0.XX	±.10			6 PR, 12 IMLA, 240 POS, 24mm							
		0.XXX	±.050										
		angular	0°			±°							
				cat. no.	SEE TABLE		Product - Customer Drw				sheet 3 of 11		



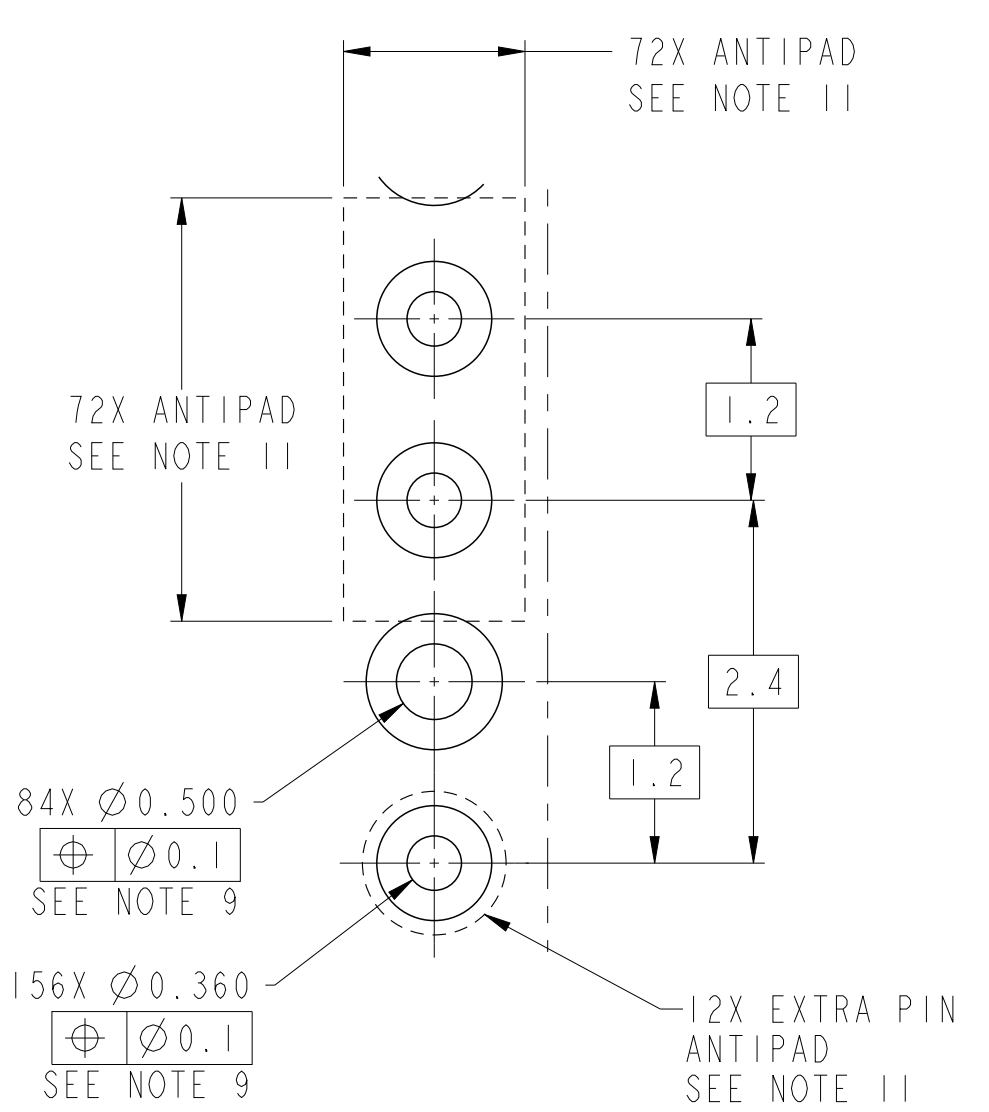
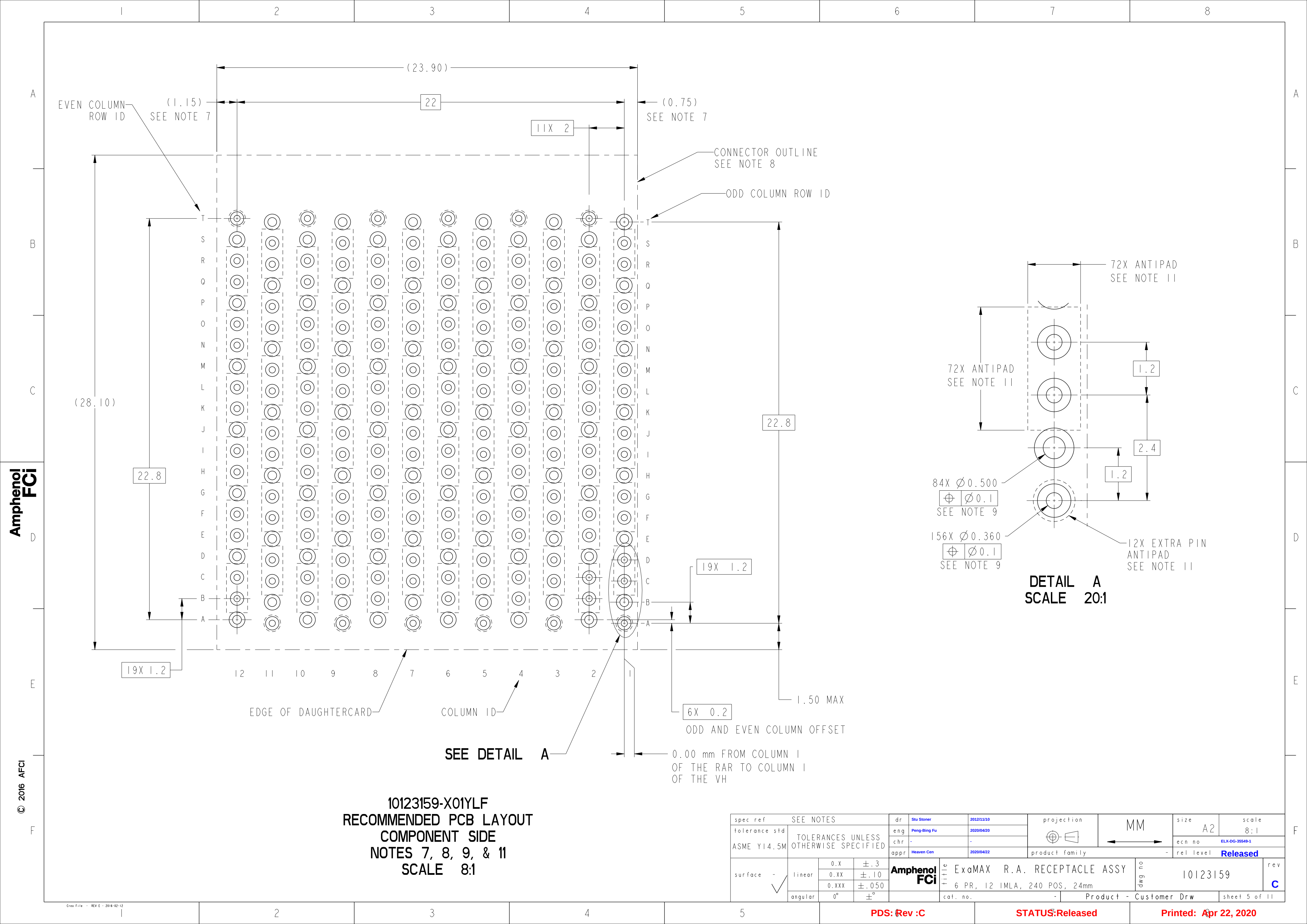
10123159-401YLF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
SHORT DETECT POSITION IS T2
FOR ALL DIMENSIONS SEE 10123159-101YLF ON SHEET 1
SCALE 7:1

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		2020/04/20						ecn no		ELX-DG-35549-1																
ASME Y14.5M					chr		-		-						rel level		Released																
					appr		Heaven Cen		2020/04/22						product family		ExaMAX																
surface		-		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY										dwg no		10123159		rev		C			
		✓				0.XX		±.10				6 PR, 12 IMLA, 240 POS, 24mm																					
						0.XXX		±.050																									
				angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw										sheet 4 of 11							

PDS: Rev :C

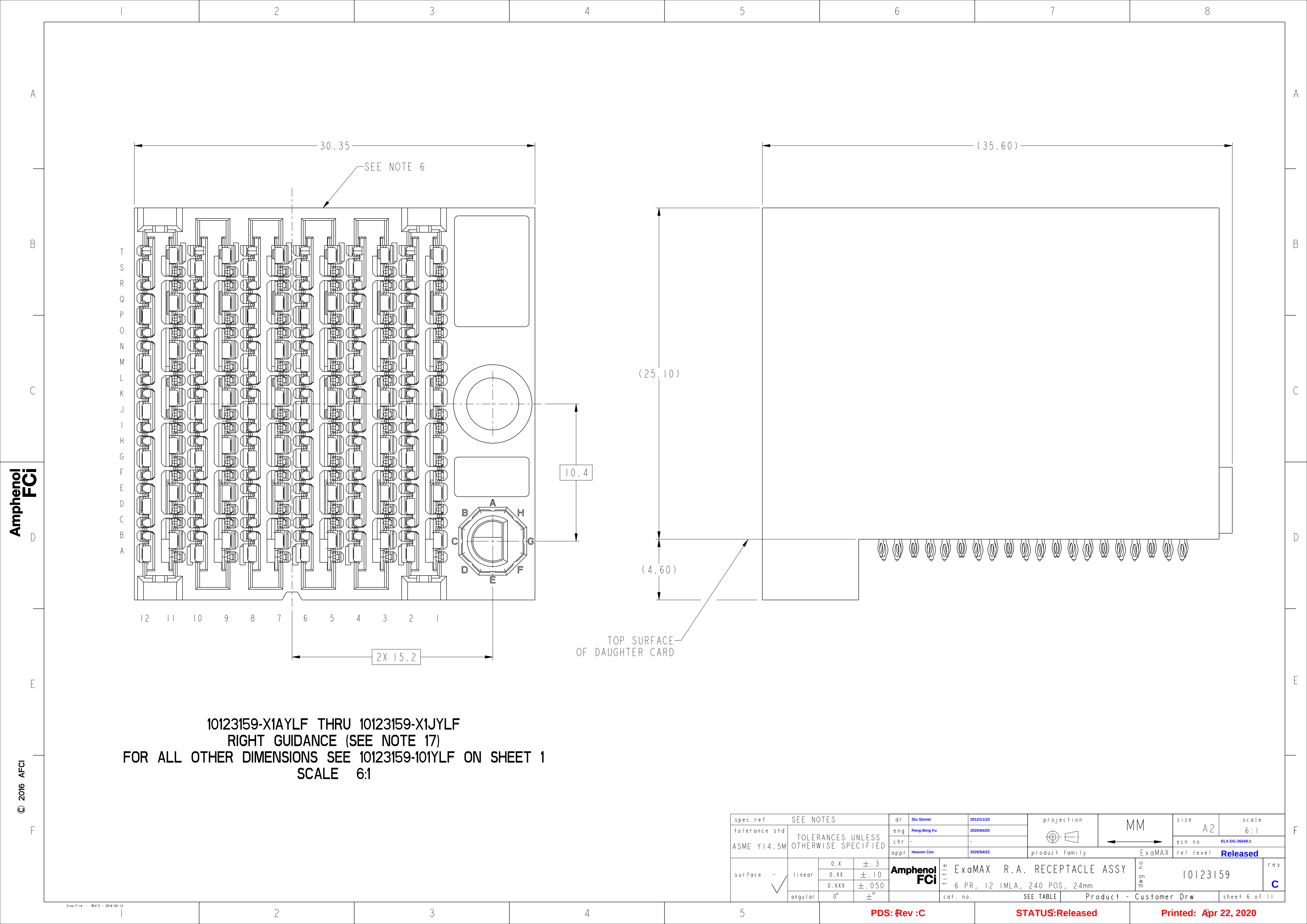
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Printed: Apr 22, 2020

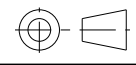
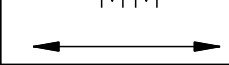


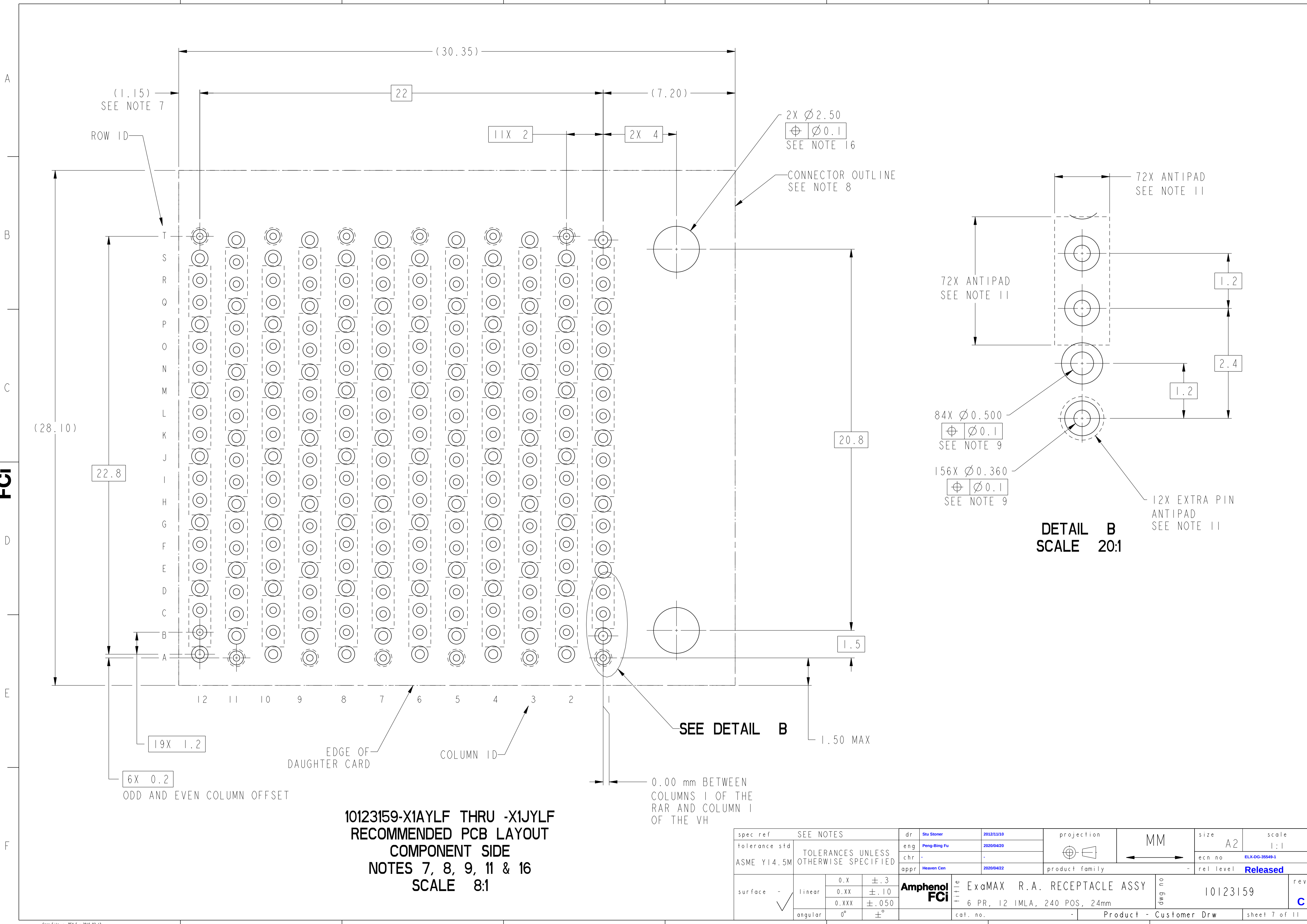
10123159-X01YLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 8:1

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		2020/04/20						ecn no		ELX-DG-35549-1												
ASME Y14.5M					chr		-		-						product family		-		rel level		Released								
surface		linear		0.X		±.3		Amphenol FCI		title					ExaMAX R.A. RECEPTACLE ASSY		dwg no		10123159		rev		C						
				0.XX		±.10						cat. no.		-											Product - Customer Drw		sheet 5 of 11		
		angular		0°		±°																							



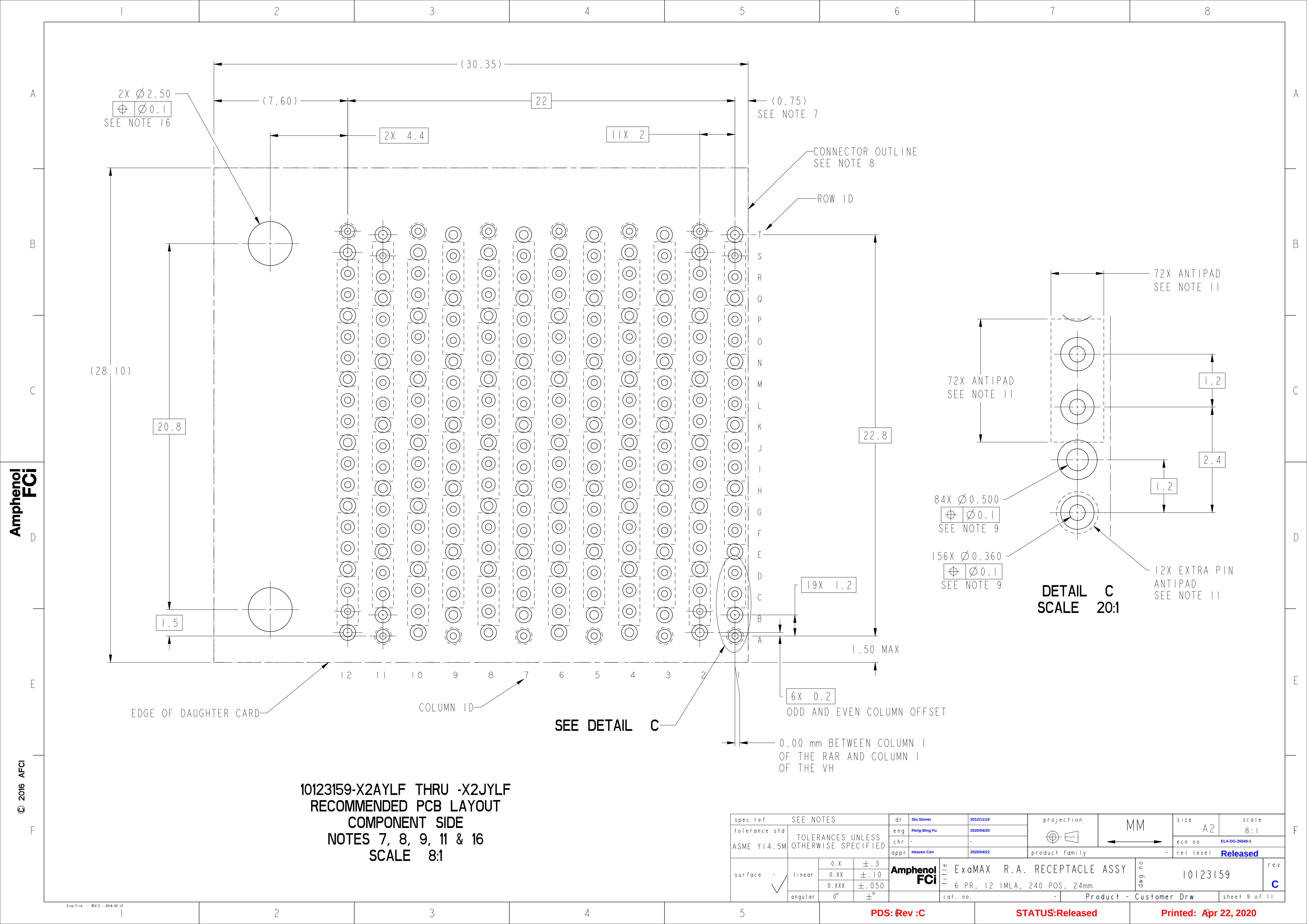
10123159-X1AYLF THRU 10123159-X1JYLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10123159-101YLF ON SHEET 1
SCALE 6:1

spec ref	SEE NOTES				dr	Stu Stoner	2012/11/10			size	A2	scale	6:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	Peng-Bing Fu	2020/04/20			ecn no	ELX-DG-35549-1			
ASME Y14.5M					chr	-	-			rel level	Released			
					appr	Heaven Cen	2020/04/22			product family		ExaMAX		
surface - 	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE ASSY 6 PR, 12 IMLA, 240 POS, 24mm				dwg no	10123159		rev	C
		0.XX	±.10											
		0.XXX	±.050											
		angular	0°	±°		cat. no.	SEE TABLE	Product - Customer Drw				sheet 6 of 11		



10123159-X1AYLF THRU -X1JYLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1

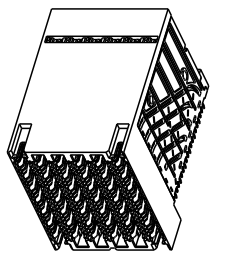
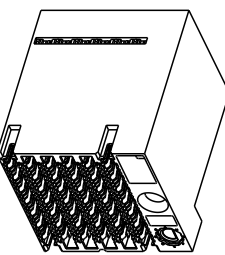
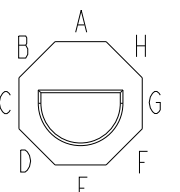
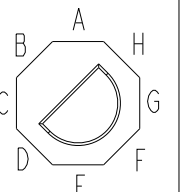
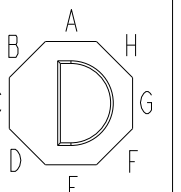
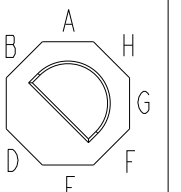
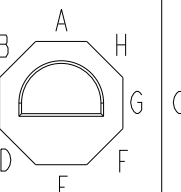
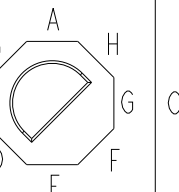
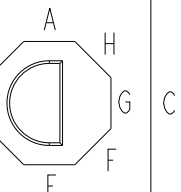
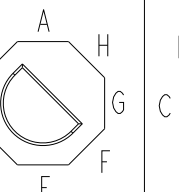
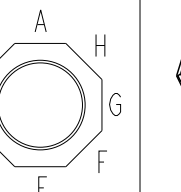
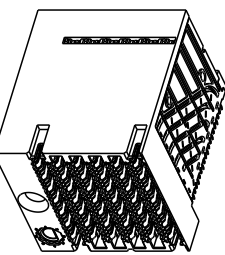
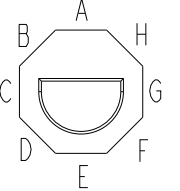
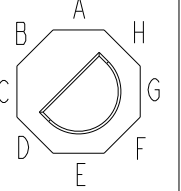
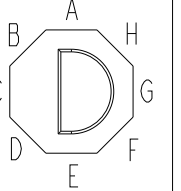
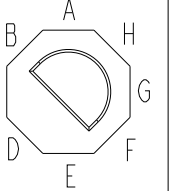
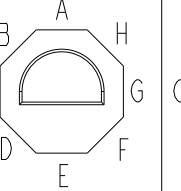
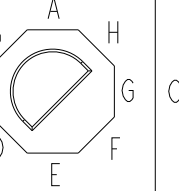
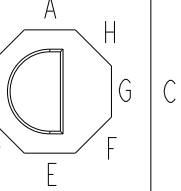
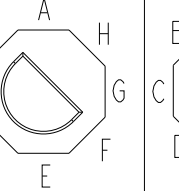
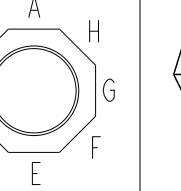
spec ref		SEE NOTES			dr		Stu Stoner		2012/11/10		projection		MM		size		A2		scale		1:1																
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2020/04/20						ecn no		ELX-DG-35549-1																				
ASME Y14.5M					chr		-		-						rel level		Released																				
					appr		Heaven Cen		2020/04/22		product family										-																
surface -		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY										dwg no		10123159										rev		C	
				0.XX		±.10																															
				0.XXX		±.050																															
		angular		0°		±°						cat. no.		-		Product - Customer Drw										sheet 7 of 11											



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

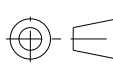
PLATING
SEE NOTE 2

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

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER									BASE MODEL
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)	
										

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spec ref	SEE NOTES			dr	Stu Stoner	2012/11/10			size A2	scale 1:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2020/04/20					
ASME Y14.5M				chr	-	-					
	appr	Heaven Cen			2020/04/22	product family			-	ecn no ELX-DG-35549-1	
										rel level Released	
surface - 	linear	0.X	±.3	Amphenol FCi	title	ExaMAX R.A. RECEPTACLE ASSY 6 PR, 12 IMLA, 240 POS, 24mm			dwg no 10123159	rev C	
		0.XX	±.10								
	0.XXX	±.050	cat. no.								-
	angular	0°	±°								

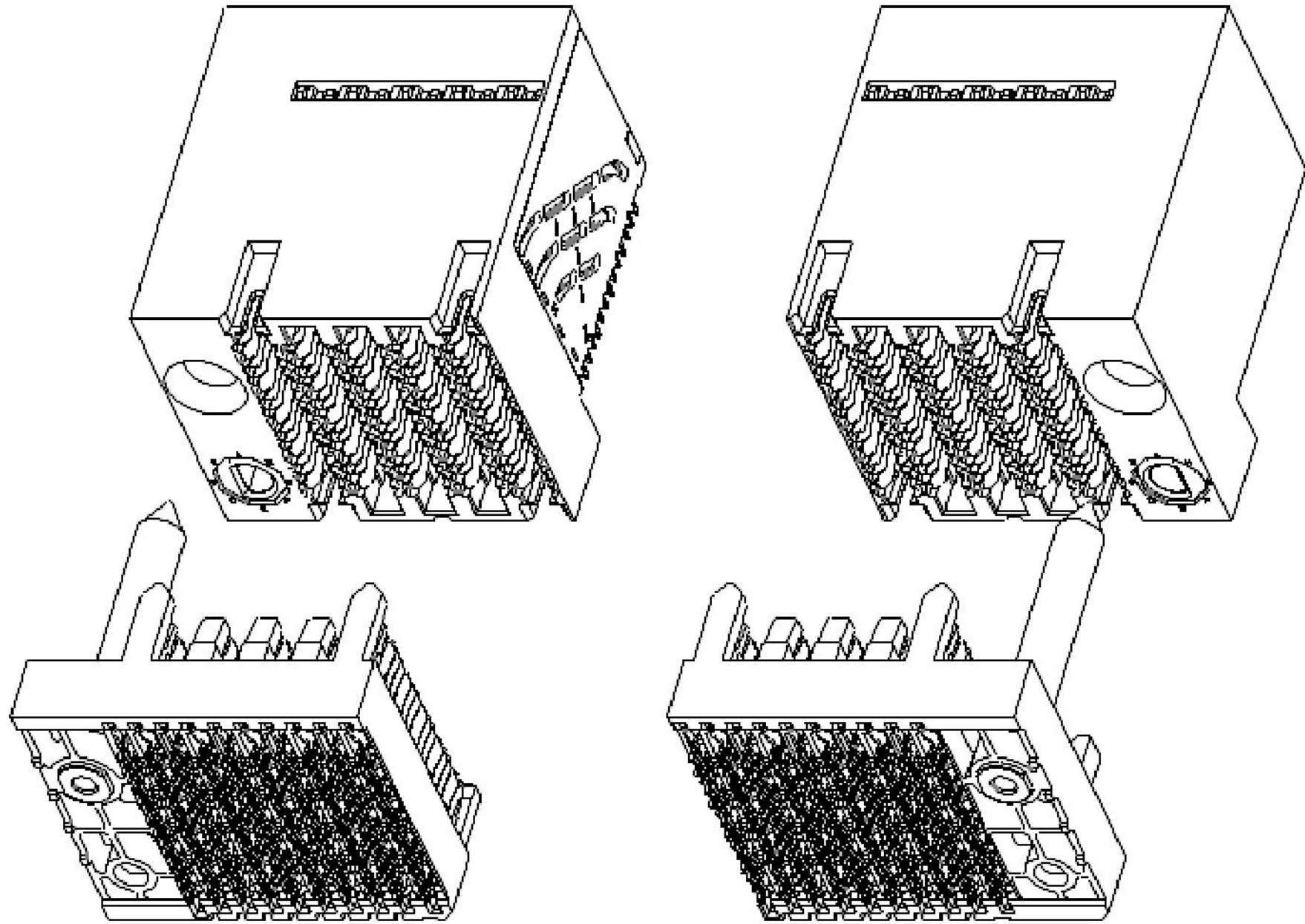
PDS: Rev :C

STATUS:Released

Printed: Apr 22, 2020

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:
-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, (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, 10123159-2YYYYLF, 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, 10123159-3YYYYLF, 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, 10123159-4YYYYLF, 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		2020/04/20						ecn no		ELX-DG-35549-1																				
ASME Y14.5M					chr		-		-						rel level		Released																				
					appr		Heaven Cen		2020/04/22						product family		ExaMAX																				
surface - 		linear		0.X		±.3		Amphenol FCi		title		ExaMAX R.A. RECEPTACLE ASSY										dwg no		10123159										rev		C	
				0.XX		±.10																															
				0.XXX		±.050																															
		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw										sheet 11 of 11													