

PRODUCT NUMBER
SEE TABLE

EVEN COLUMN
CONTACT ROW ID

ODD COLUMN
CONTACT ROW ID
ODD & EVEN COLUMNS
ARE OFFSET


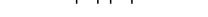

HOUSING

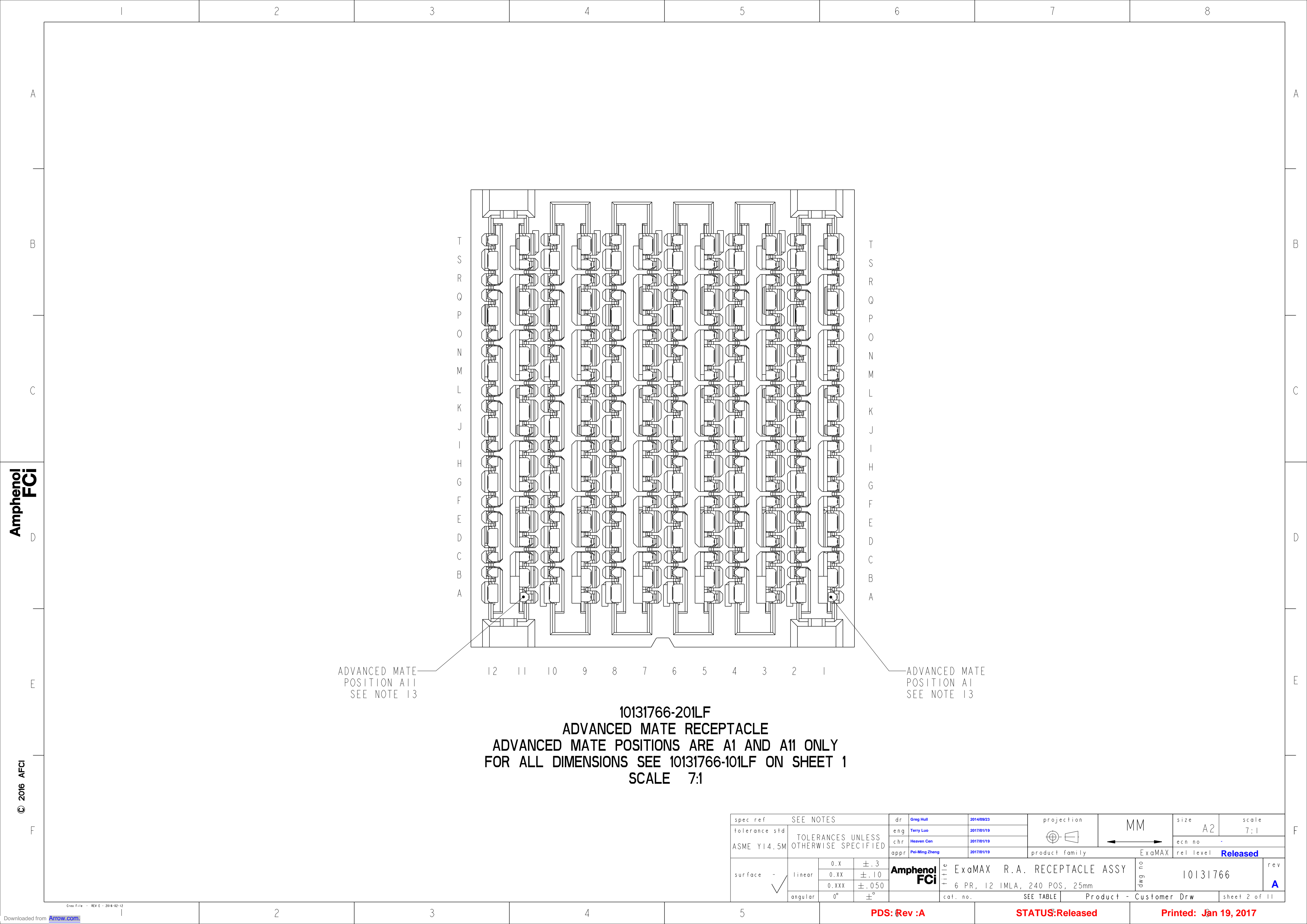
SEE NOTE 6

IMLA

ORGANIZER

10131766-101LF
STANDARD MATE RECEPTACLE
SCALE 6:1

spec ref		SEE NOTES		dr		Greg Hull		2014/09/23		projection		MM		size		A2		scale		6:1					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Terry Luo		2017/01/19						ecn no		-		rel level		Released					
ASME Y14.5M				chr		Heaven Cen		2017/01/19																	
		appr		Pei-Ming Zheng		2017/01/19		product family														ExaMAX			
surface - 		linear		0.X ±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY				dwg no		10131766				rev		A			
																								0.XX ±.10	
																								0.XXX ±.050	
				angular		0° ±°				cat. no.		SEE TABLE		Product - Customer Drw				sheet 1 of 11							

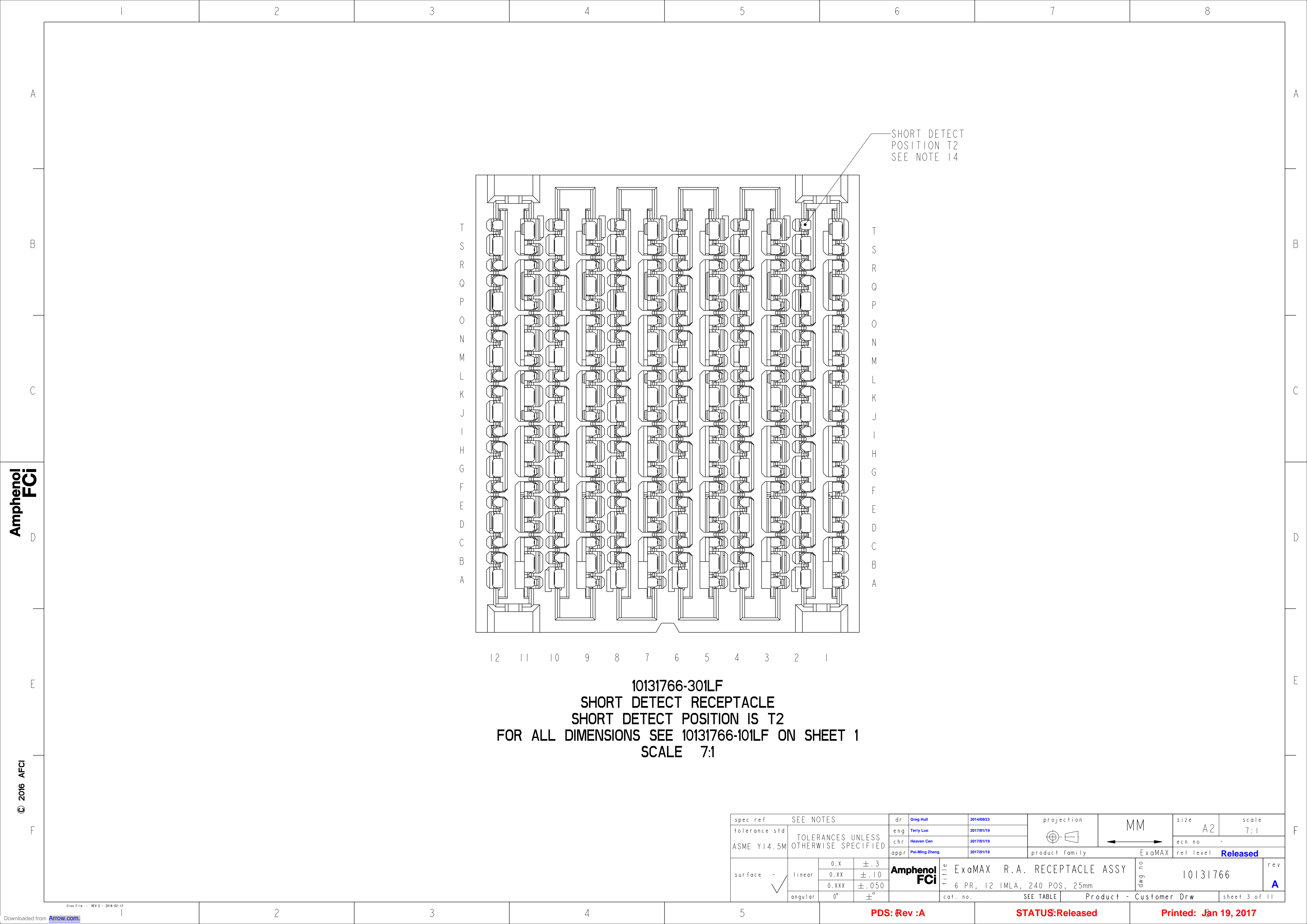


Amphenol
FCi

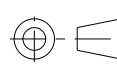

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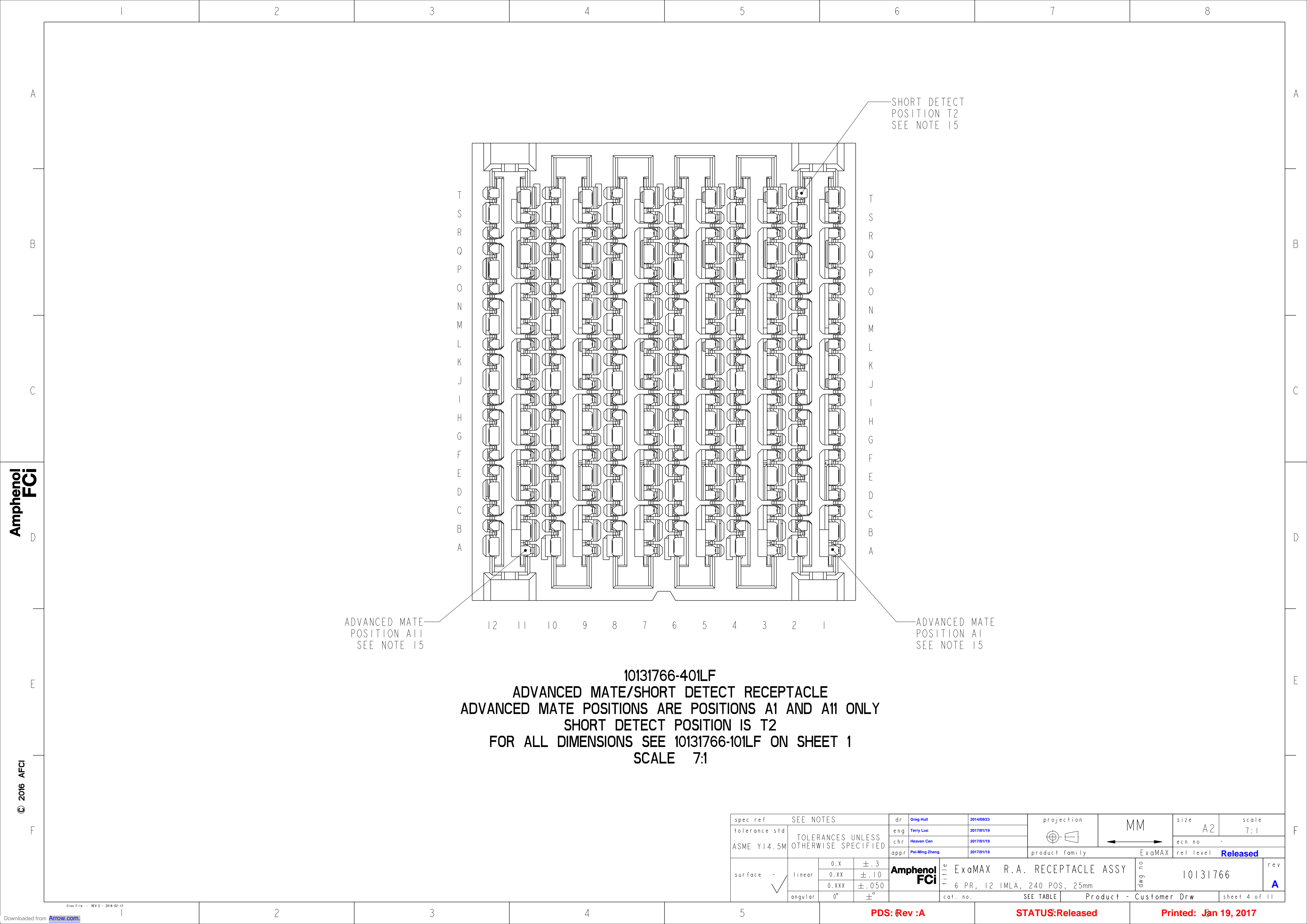
10131766-201LF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 AND A11 ONLY
FOR ALL DIMENSIONS SEE 10131766-101LF ON SHEET 1
SCALE 7:1

spec ref		SEE NOTES			dr		Greg Hull		2014/09/23		projection		MM		size		A2		scale		7:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Terry Luo		2017/01/19						ecn no		-					
ASME Y14.5M					chr		Heaven Cen		2017/01/19						rel level		Released					
					appr		Pei-Ming Zheng		2017/01/19						product family		ExaMAX					
surface -		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no		10131766		rev		A		
				0.XX		±.10																
		0.XXX		±.050		cat. no.																SEE TABLE
angular		0°		±°																		

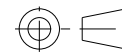





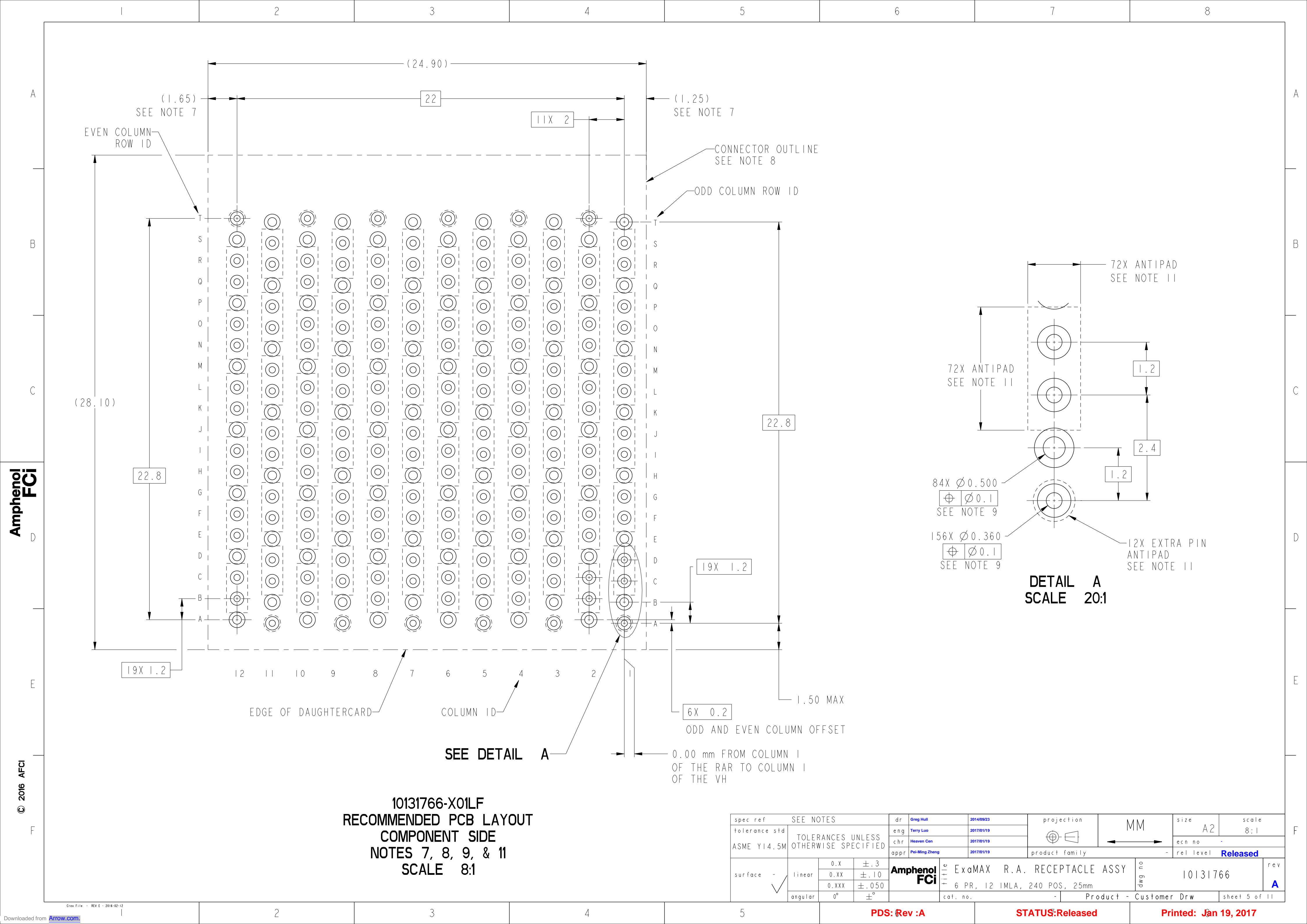
10131766-301LF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS T2
FOR ALL DIMENSIONS SEE 10131766-101LF ON SHEET 1
SCALE 7:1

spec ref		SEE NOTES			dr		Greg Hull		2014/09/23		projection		<div>MM</div>		size		A2		scale		7:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Terry Luo		2017/01/19						ecn no		-		rel level		Released	
ASME Y14.5M					chr		Heaven Cen		2017/01/19						product family		ExaMAX					
					appr		Pei-Ming Zheng		2017/01/19													
surface - <div>✓</div>		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no		10131766		rev		A		
				0.XX		±.10																
				0.XXX		±.050																
		angular		0°		±°		cat. no.		SEE TABLE		Product - Customer Drw		sheet 3 of 11								



10131766-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
SHORT DETECT POSITION IS T2
FOR ALL DIMENSIONS SEE 10131766-101LF ON SHEET 1
SCALE 7:1

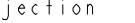

spec ref		SEE NOTES		dr	Greg Hull		2014/09/23		projection		MM		size	A2		scale		7:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Terry Luo		2017/01/19				 MM 		ecn no		-		rel level		Released	
ASME Y14.5M				chr	Heaven Cen		2017/01/19													
				appr	Pei-Ming Zheng		2017/01/19													
surface - 		linear		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no		10131766		rev		A				
																		0.X ±.3		0.XX ±.10
		0.XXX ±.050																		
		angular		0° ±°		cat. no.		SEE TABLE		Product - Customer Drw		sheet 4 of 11								



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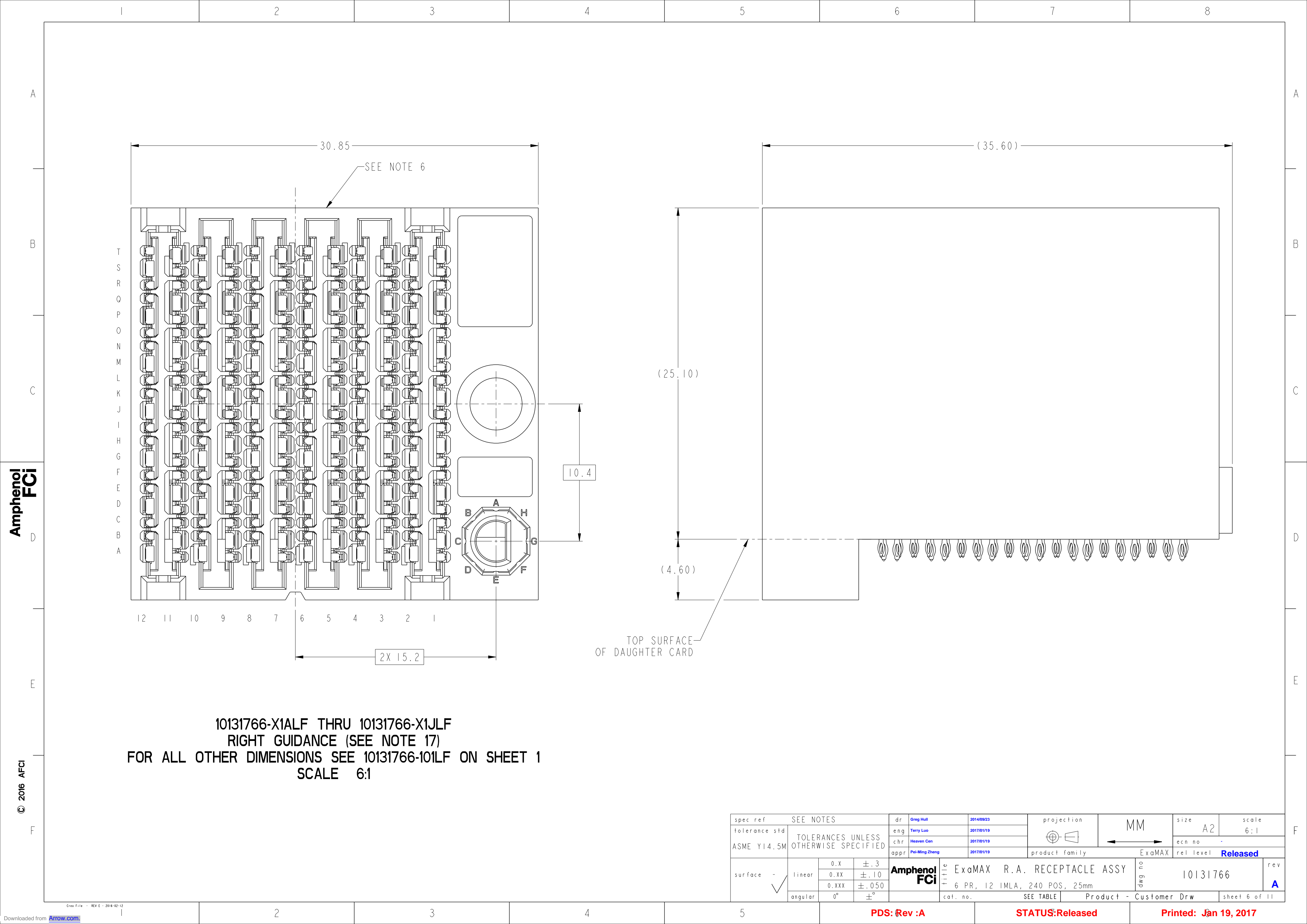
10131766-X01LF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 8:1

spec ref		SEE NOTES		dr	Greg Hull	2014/09/23	projection		MM	size	A2	scale	8:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Terry Luo	2017/01/19									
ASME Y14.5M				chr	Heaven Cen	2017/01/19	product family			-	ecn no	-	rel level	Released	
				appr	Pei-Ming Zheng	2017/01/19				rel level	Released				
surface	- 	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPTACLE ASSY			dwg no	10131766			rev	A
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		angular	0°	±°											

PDS: Rev :A

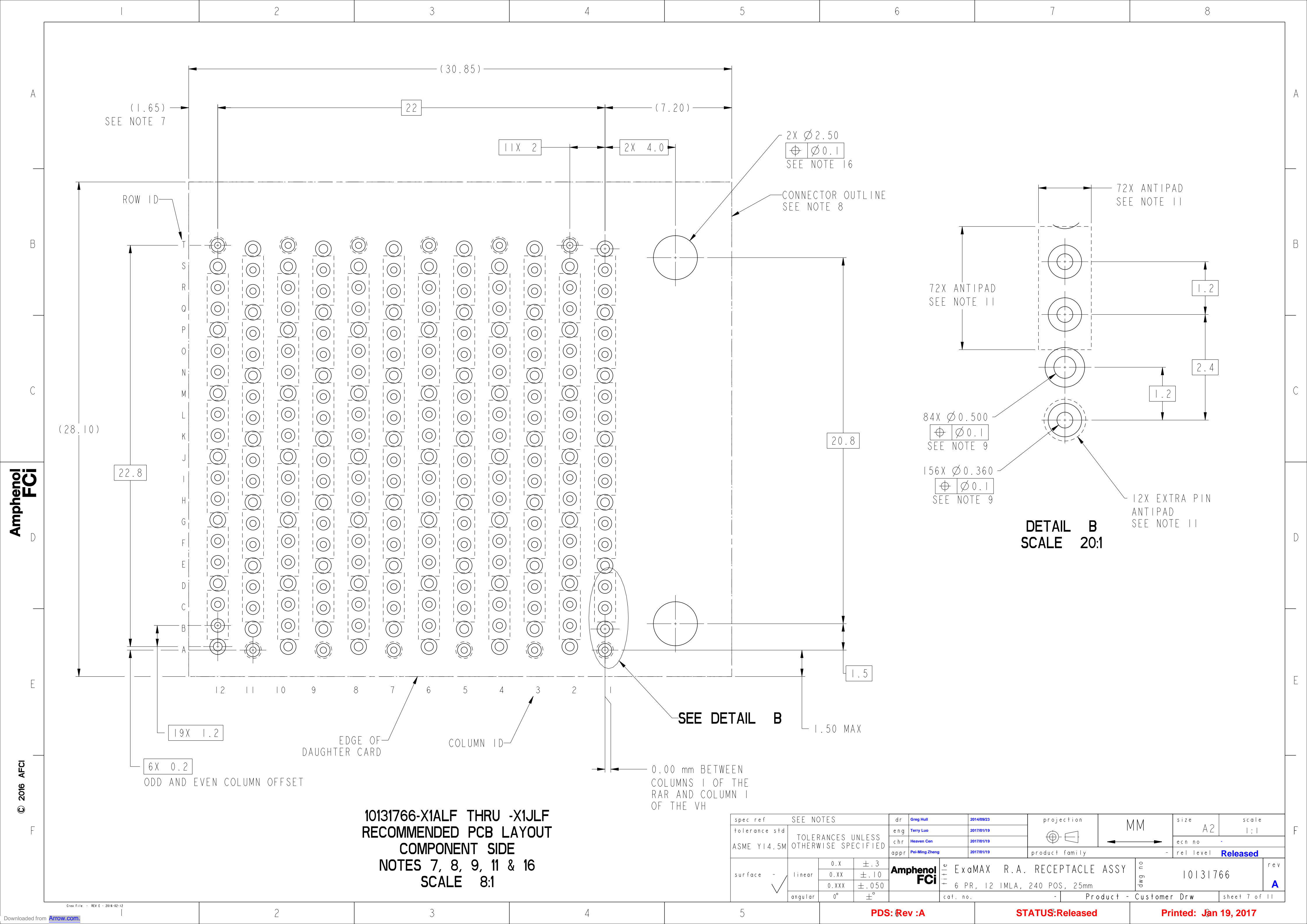
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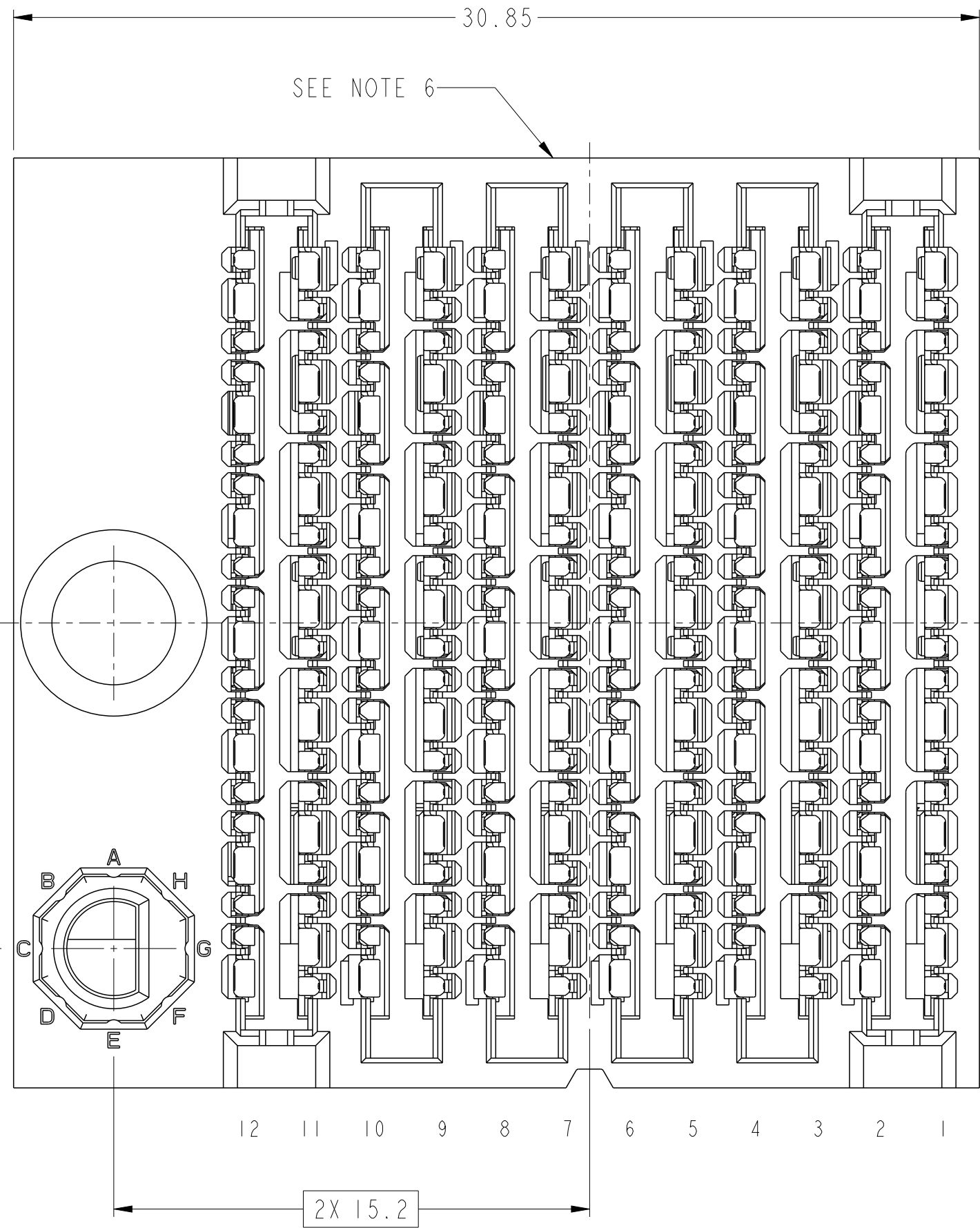
Printed: Jan 19, 2017



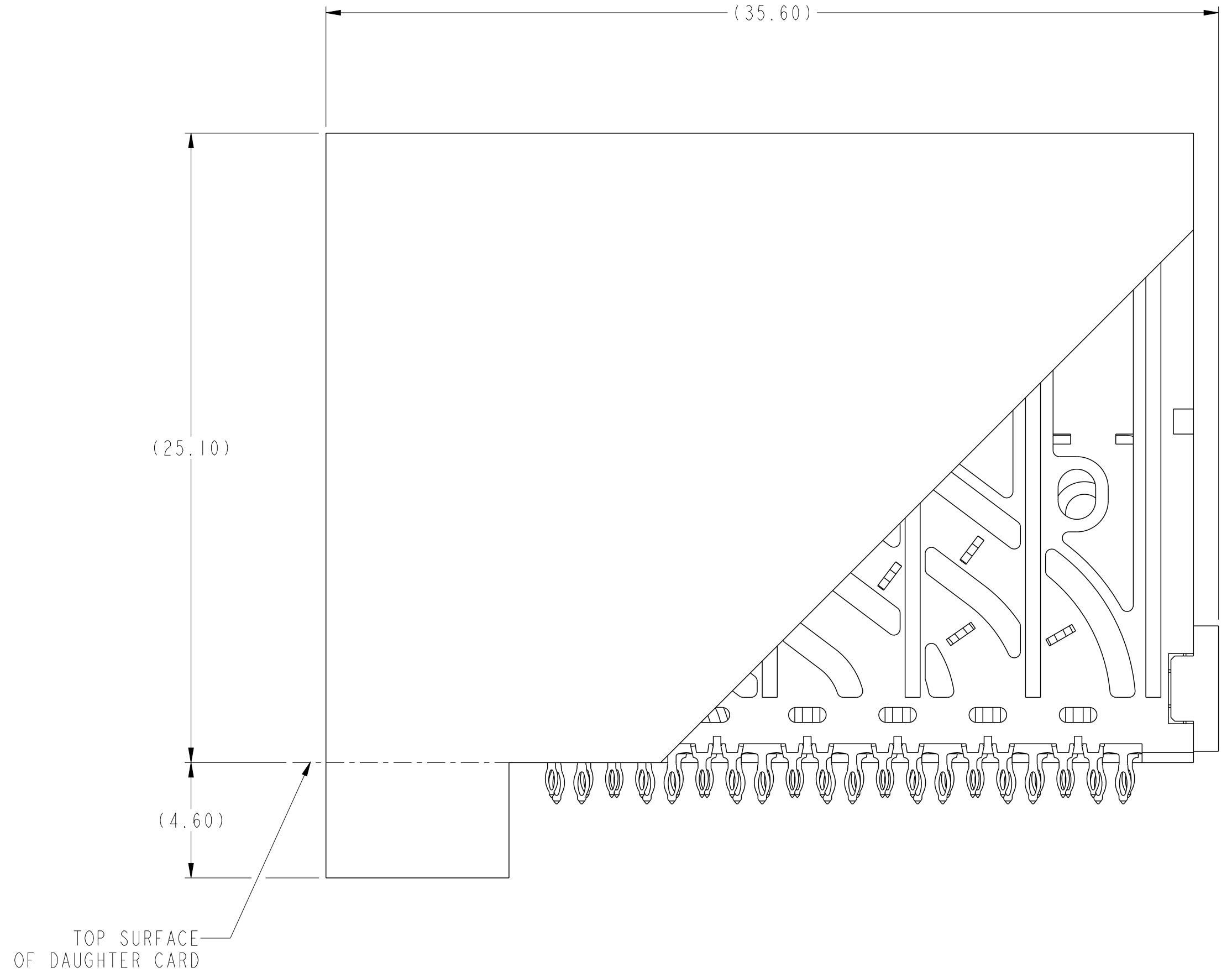
10131766-X1ALF THRU 10131766-X1JLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10131766-101LF ON SHEET 1
SCALE 6:1

spec ref		SEE NOTES			dr		Greg Hull		2014/09/23		projection		MM		size		A2		scale		6:1				
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Terry Luo		2017/01/19						ecn no		-		rel level		Released				
ASME Y14.5M					chr		Heaven Cen		2017/01/19						product family		ExaMAX								
					appr		Pei-Ming Zheng		2017/01/19																
surface - 		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY 6 PR, 12 IMLA, 240 POS, 25mm						dwg no		10131766		rev		A	
				0.XX		±.10																			
				0.XXX		±.050																			
				angular		0°		±°		cat. no.		SEE TABLE		Product - Customer Drw						sheet 6 of 11					

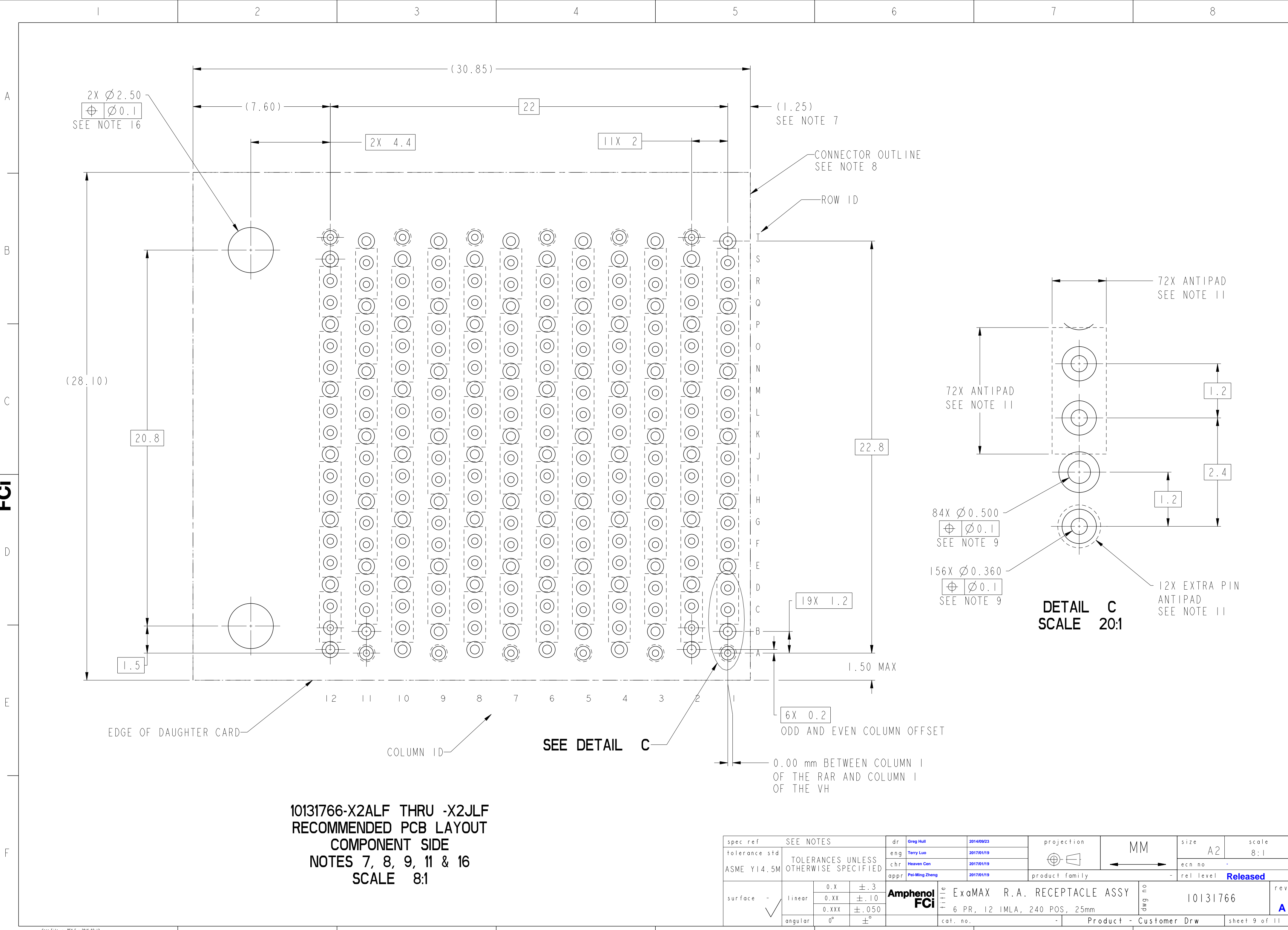




10131766-X2ALF THRU 10131766-X2JLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE 10131766-101LF ON SHEET 1
SCALE 6:1



spec ref		SEE NOTES			dr		Greg Hull		2014/09/23		projection		MM		size		A2		scale		6:1								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Terry Luo		2017/01/19						ecn no		-		rel level		Released								
ASME Y14.5M					chr		Heaven Cen		2017/01/19						product family		ExaMAX												
					appr		Pei-Ming Zheng		2017/01/19																				
surface - 		linear		0.X		±.3		Amphenol FCi		title		ExaMAX R.A. RECEPTACLE ASSY 6 PR, 12 IMLA, 240 POS, 25mm										dwg no		10131766		rev		A	
				0.XX		±.10																							
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		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw										sheet 8 of 11					

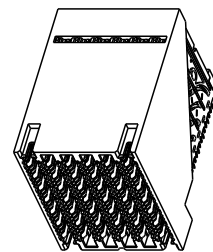
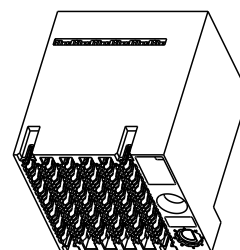
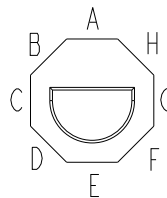
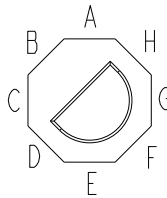
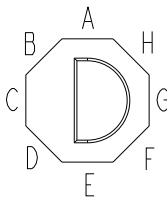
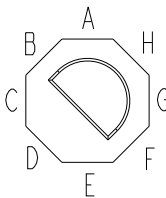
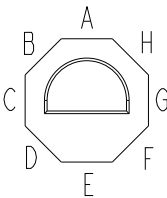
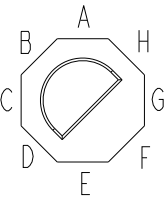
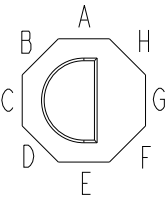
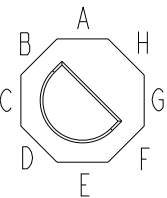
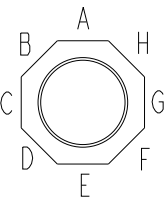
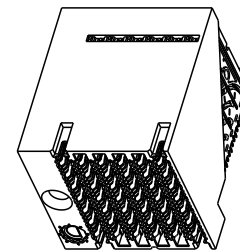
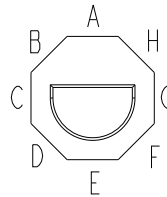
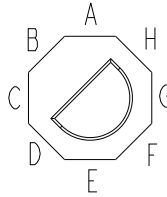
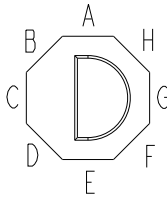
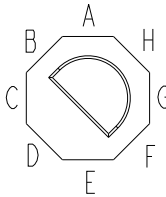
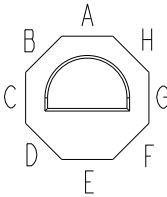
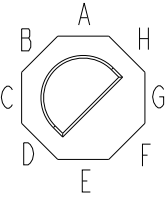
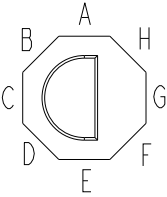
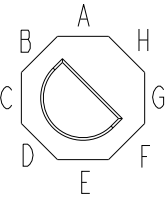
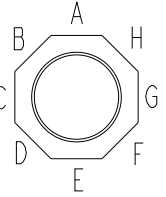


10131766-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 8:1

spec ref		SEE NOTES			dr		Greg Hull		2014/09/23		projection		MM		size		A2		scale		8:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Terry Luo		2017/01/19						ecn no		-		rel level		Released		
ASME Y14.5M					chr		Heaven Cen		2017/01/19														
					appr		Pei-Ming Zheng		2017/01/19														
											product family		-										
surface		-		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY		dwg no		10131766		rev		A	
				0.XX		±.10																	
				0.XXX		±.050																	
		angular		0°		±°						cat. no.		-		Product - Customer Drw				sheet 9 of 11			

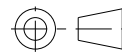
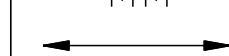


10131766 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10131766-1YYLF	STANDARD MATE
10131766-2YYLF	ADVANCED MATE
10131766-3YYLF	SHORT DETECT
10131766-4YYLF	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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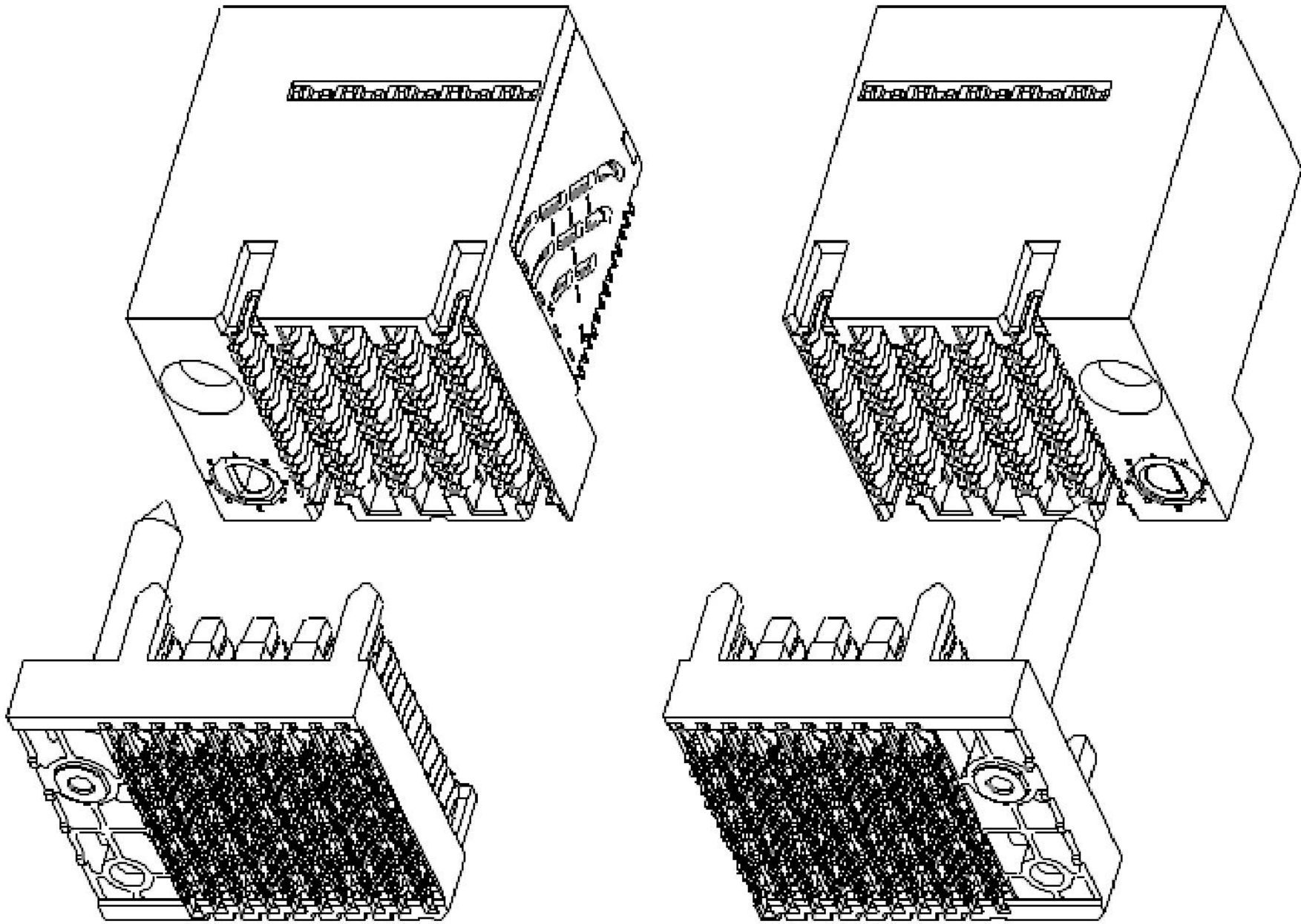
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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	Terry Luo	2017/01/19			ecn no	-	rel level	Released	
ASME Y14.5M					chr	Heaven Cen	2017/01/19							
					appr	Pei-Ming Zheng	2017/01/19							product family
	linear	0.X	±.3		title	ExaMAX R.A. RECEPTACLE ASSY				dwg no	10131766		rev	A
		0.XX	±.10											
		0.XXX	±.050											
	angular	0°	±°			cat. no.	-	Product - Customer Drw				sheet 10 of 11		

PDS: Rev :A

STATUS:Released

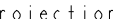



Printed: Jan 19, 2017

- 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 PEAK TEMPERATURE FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- 13 - THE ADVANCED MATE RECEPTACLE, 10131766-2XXLF, 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, 10131766-3XXLF, 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, 10131766-4XXLF, 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.



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		Greg Hull		2014/09/23		projection				MM		size		A2		scale		6:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Terry Luo		2017/01/19						ecn no		-									
ASME Y14.5M				chr		Heaven Cen		2017/01/19						rel level		Released									
				appr		Pei-Ming Zheng		2017/01/19						product family		ExaMAX									
surface				linear		Amphenol FCI		title		ExaMAX R.A. RECEPTACLE ASSY		6 PR, 12 IMLA, 240 POS, 25mm		dwg no		10131766		rev		A					
																						0.X		±.3	
																						0.XX		±.10	
				angular		0°		±°																	
										cat. no.		SEE TABLE		Product - Customer Drw						sheet 11 of 11					