

PRODUCT NUMBER
SEE TABLE

Amphenol
FCi

© 2016 AFCi

A

B

C

D

E

F

A

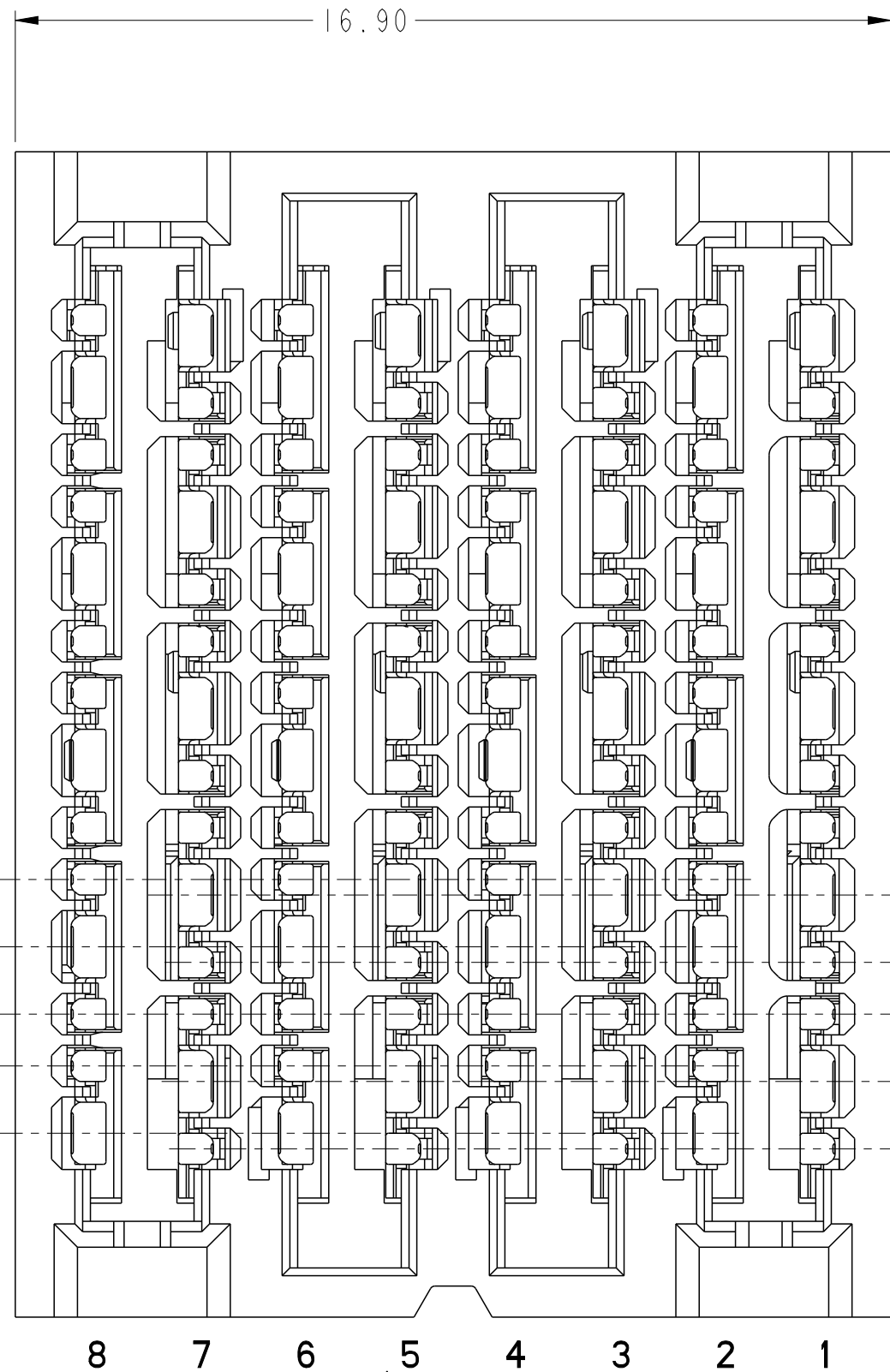
B

C

D

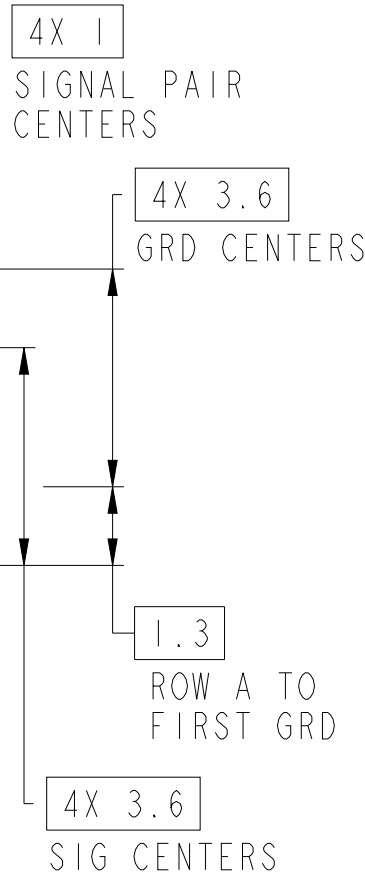
E

F



10135216-101LF
STANDARD MATE RECEPTACLE
SCALE 8:1

ODD COLUMN,
CONTACT ROW ID
ODD & EVEN COLUMNS
ARE OFFSET



TOP SURFACE
OF DAUGHTER CARD

(28.40)

HOUSING

SEE NOTE 6

IMLA A

(17.90)

ORGANIZER

(4.60)

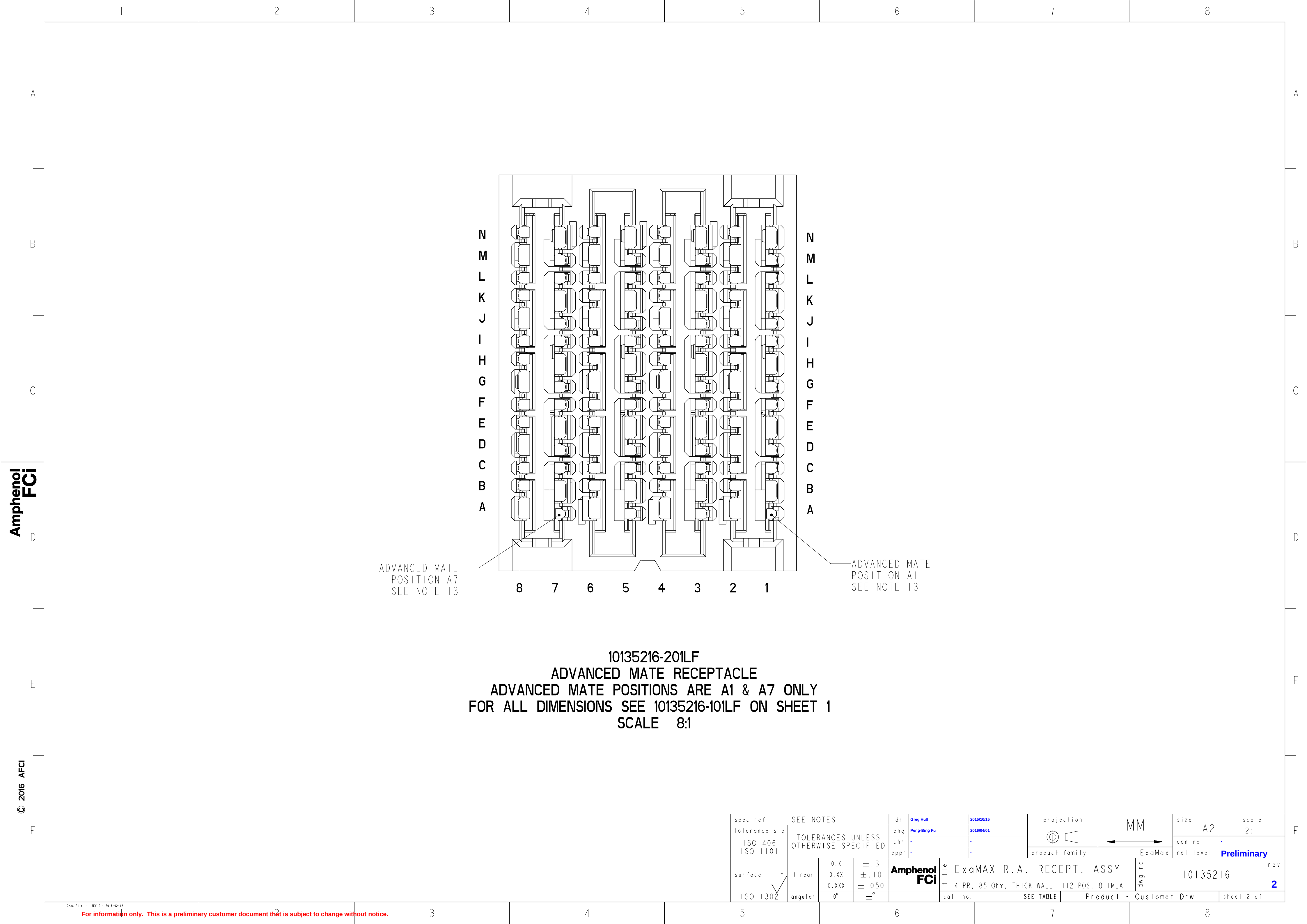
9.00
Ø ODD COLUMNS

9.20
Ø EVEN COLUMNS

13X 1.2
PER COLUMN

72X 1.40^{+0.15}_{-0.20}
SIGNALS
40X 1.60^{+0.15}_{-0.20}
GROUNDS
SEE NOTE 18

spec ref		SEE NOTES			dr		Greg Hull		2015/10/15		projection		MM		size		A2		scale		2:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2016/04/01						ecn no		-		rel level		Preliminary	
ISO 406					chr		-		-						product family		ExaMax					
ISO 1101					appr		-		-													
surface		linear		0.X		±.3		Amphenol FCi		title		ExaMAX R.A. RECEPT. ASSY		dwg no		10135216		rev		2		
		0.XX		±.10																		
		0.XXX		±.050																		
ISO 1302		angular		0°		±°		cat. no.		SEE TABLE		Product - Customer Drw		sheet 1 of 11								



N
M
L
K
J
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F
E
D
C
B
A

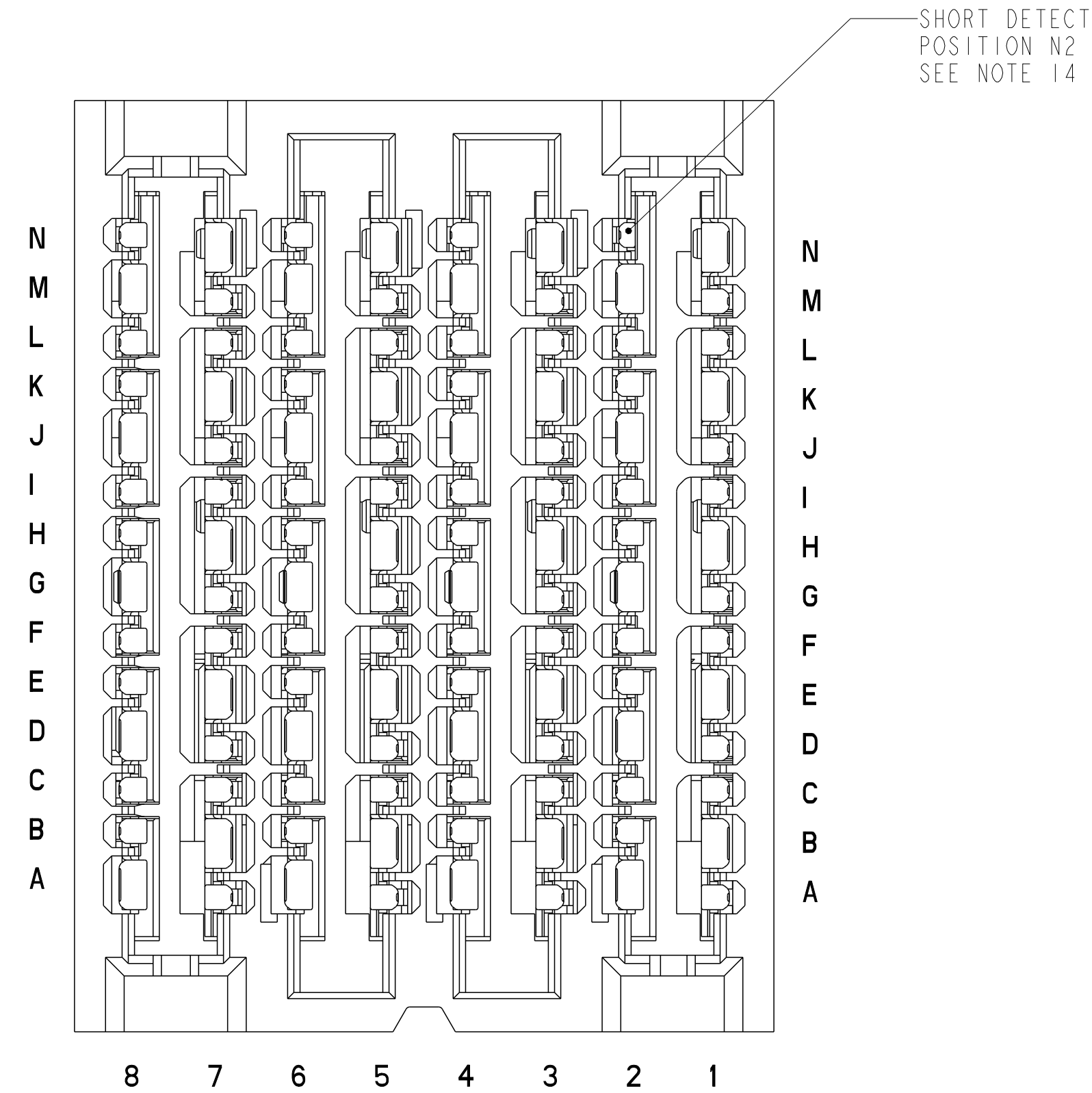
N
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A

ADVANCED MATE
POSITION A7
SEE NOTE 13

ADVANCED MATE
POSITION A1
SEE NOTE 13

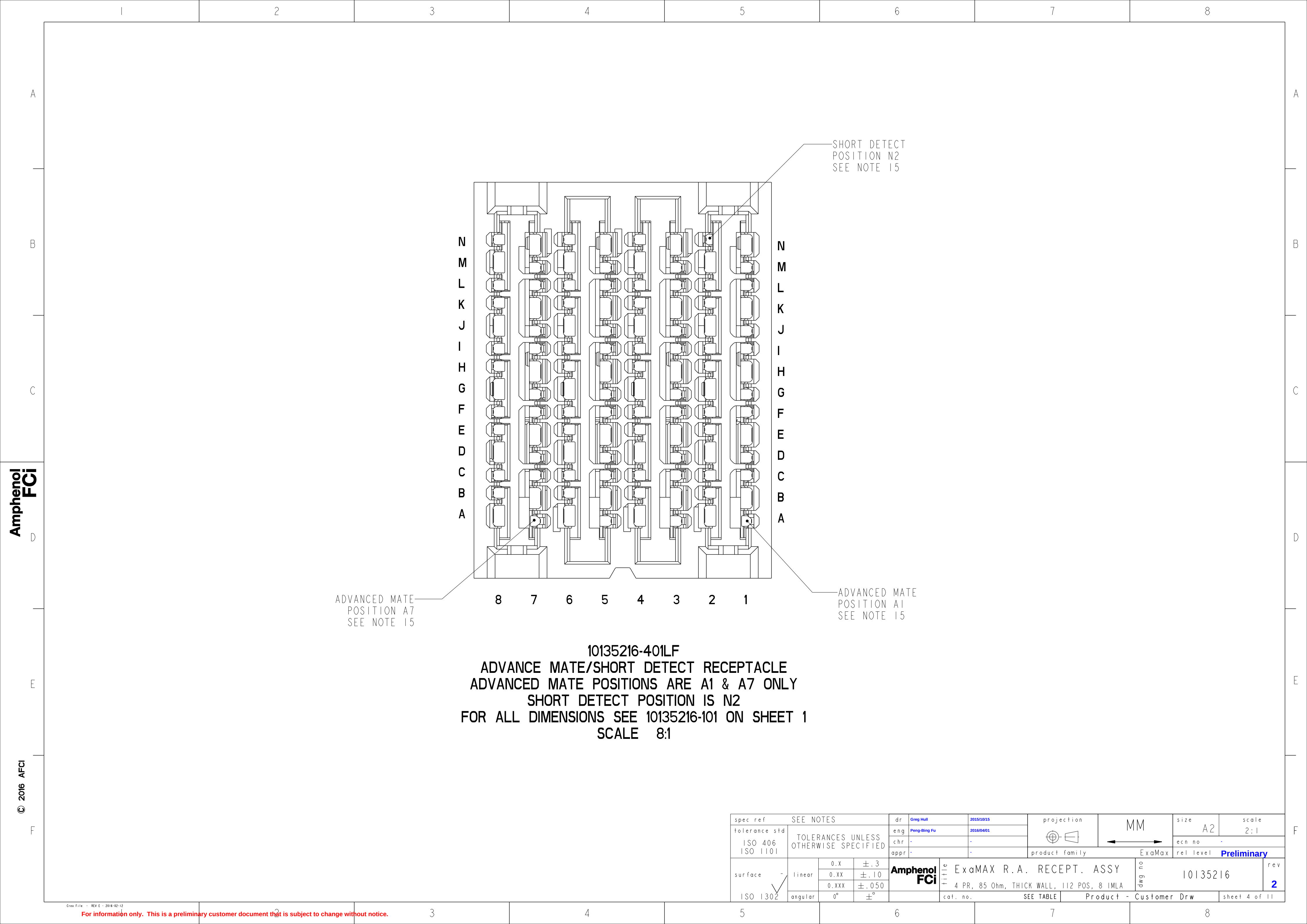
10135216-201LF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 & A7 ONLY
FOR ALL DIMENSIONS SEE 10135216-101LF ON SHEET 1
SCALE 8:1

spec ref		SEE NOTES				dr		Greg Hull		2015/10/15		projection		MM		size		A2		scale		2:1									
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED				eng		Peng-Bing Fu		2016/04/01						ecn no		-													
ISO 406						chr		-		-																					
ISO 1101						appr		-		-																					
						product family				ExaMax				rel level				Preliminary													
surface		-		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPT. ASSY						dwg no		10135216						rev		2	
				0.XX		±.10																									
				0.XXX		±.050																									
ISO 1302				angular		0°		±°		cat. no.		SEE TABLE		Product - Customer Drw						sheet 2 of 11											



10135216-301LF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS N2
FOR ALL DIMENSIONS SEE 10135216-101LF ON SHEET 1
SCALE 8:1

spec ref		SEE NOTES			dr Greg Hull		2015/10/15		projection		MM		size A2		scale 2:1								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Peng-Bing Fu		2016/04/01						ecn no		-								
ISO 406					chr		-						-										
ISO 1101					appr		-						-										
									product family				ExaMax										
													rel level				Preliminary						
surface		linear		0.X ±.3		Amphenol FCI		title		ExaMAX R.A. RECEPT. ASSY						dwg no		10135216		rev		2	
				0.XX ±.10						4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA													
				0.XXX ±.050																			
ISO 1302		angular		0° ±°				cat. no.		SEE TABLE		Product - Customer Drw						sheet 3 of 11					

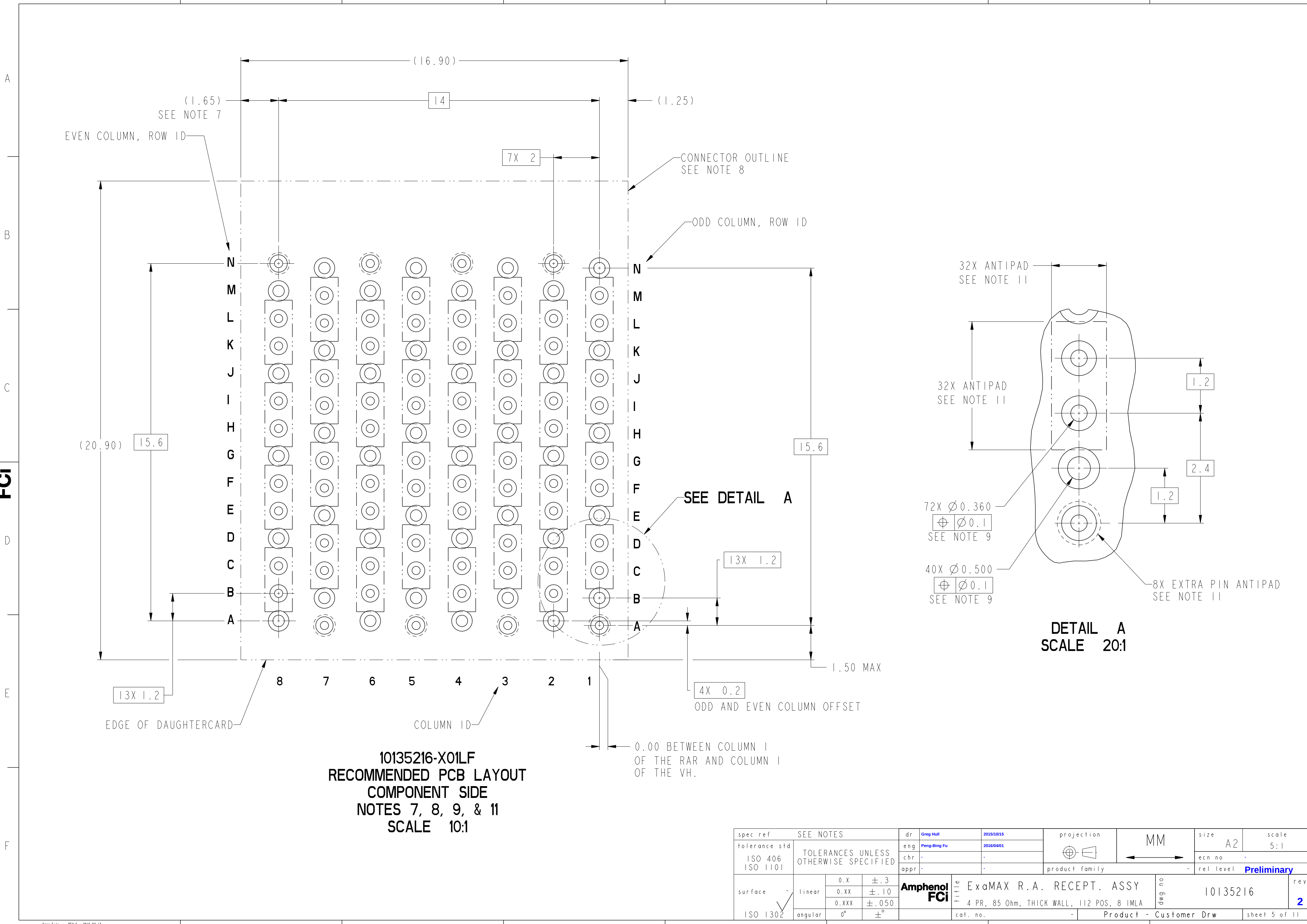


Amphenol
FCi

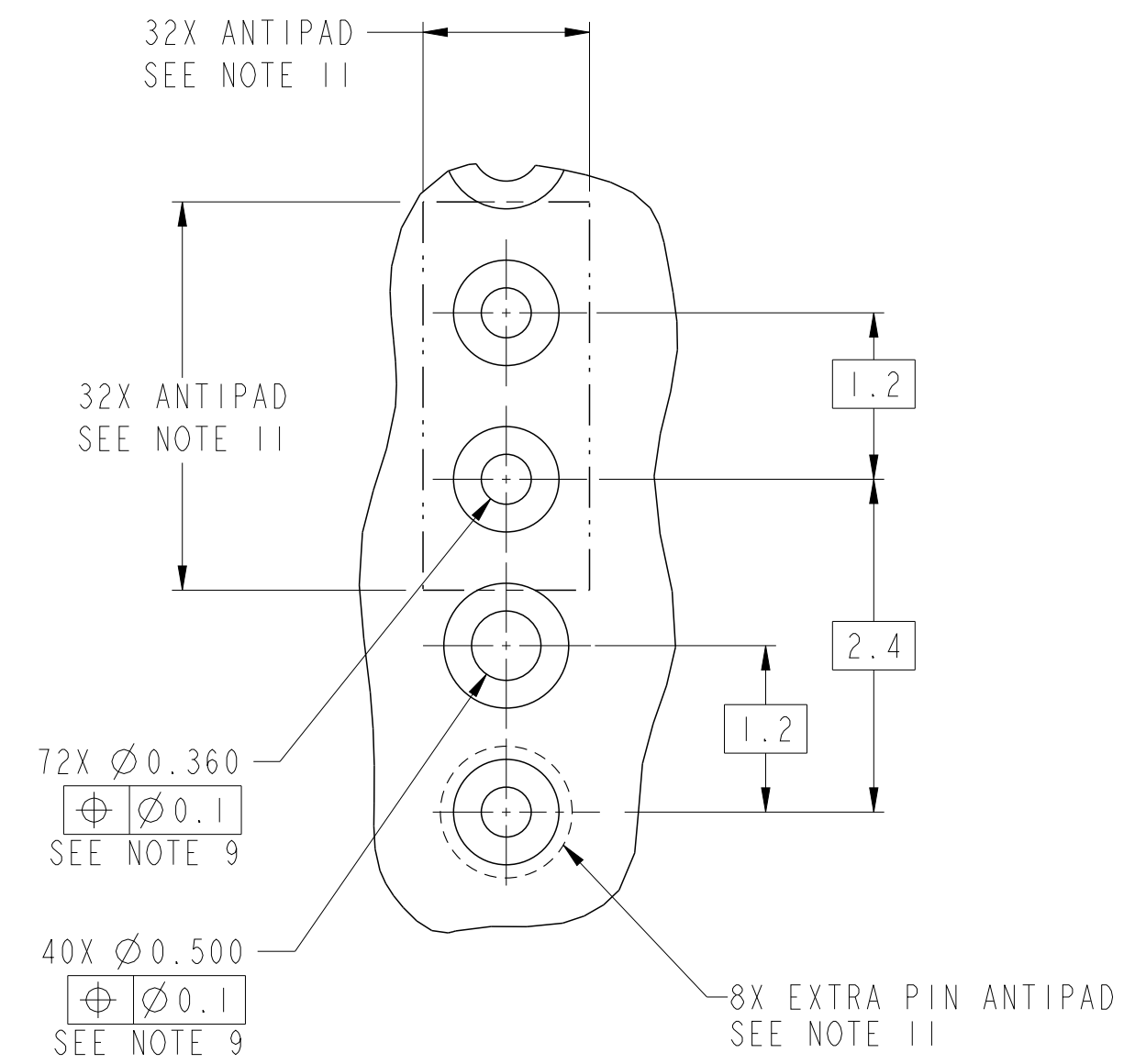
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10135216-401LF
ADVANCE MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 & A7 ONLY
SHORT DETECT POSITION IS N2
FOR ALL DIMENSIONS SEE 10135216-101 ON SHEET 1
SCALE 8:1

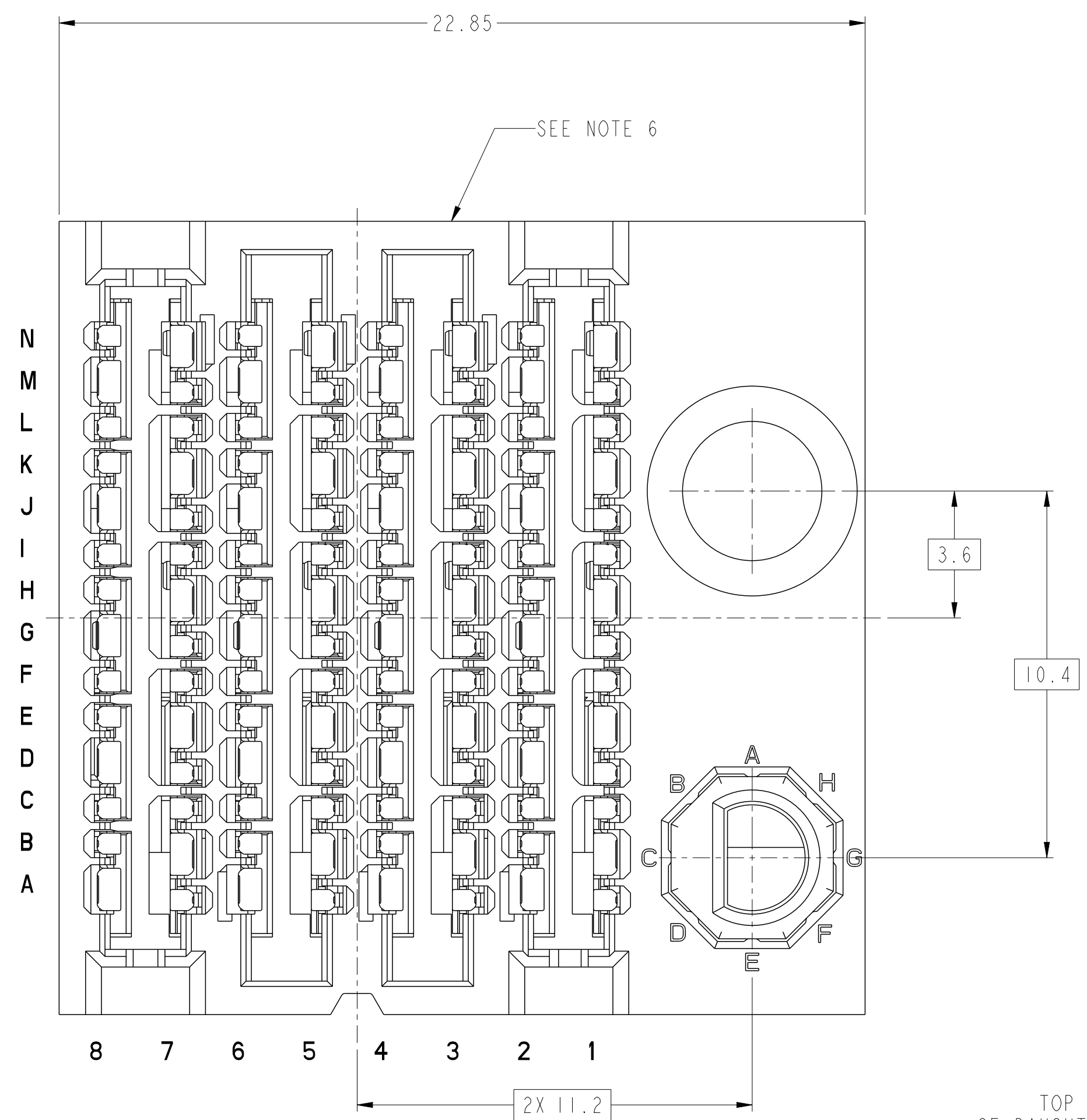
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED				eng		Peng-Bing Fu		2016/04/01						ecn no		-		rel level		Preliminary							
ISO 406						chr		-		-																			
ISO 1101						appr		-		-																			
						product family				ExaMax																			
surface		linear		0.X		±.3		Amphenol FCi		title		ExaMAX R.A. RECEPT. ASSY										dwg no		10135216		rev		2	
				0.XX		±.10																							
				0.XXX		±.050																							
ISO 1302		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw										sheet 4 of 11					



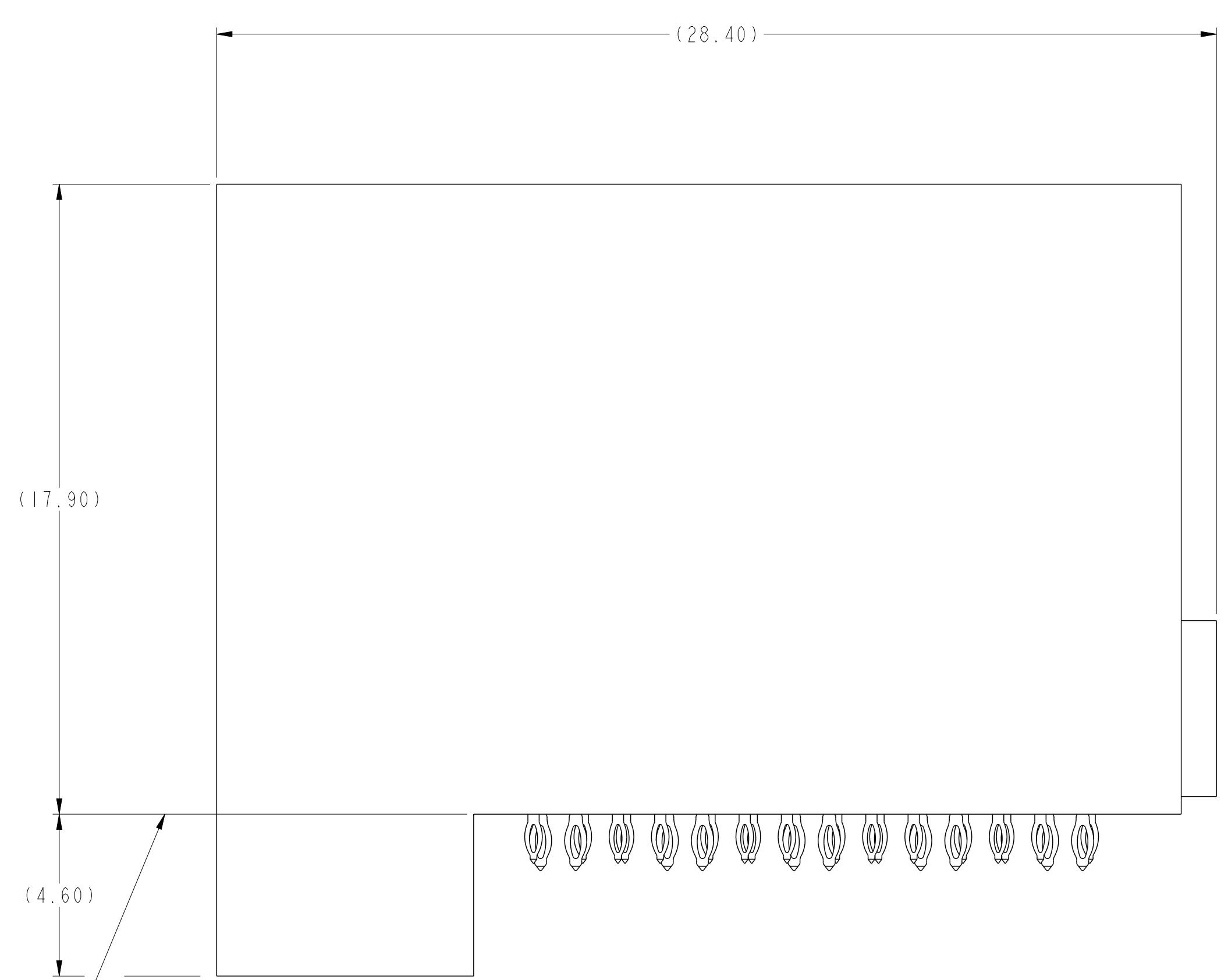
10135216-X01LF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 10:1



spec ref		SEE NOTES			dr		Greg Hull		2015/10/15		projection		MM		size		A2		scale		5:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2016/04/01						ecn no		-					
ISO 406					chr		-		-						rel level		Preliminary					
ISO 1101					appr		-		-						product family		-					
surface					linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. RECEPT. ASSY		dwg no		10135216		rev	
ISO 1302		0.XX		±.10																		
		0.XXX		±.050																		
		angular		0°		±°				cat. no.		-		Product - Customer Drw		sheet 5 of 11						

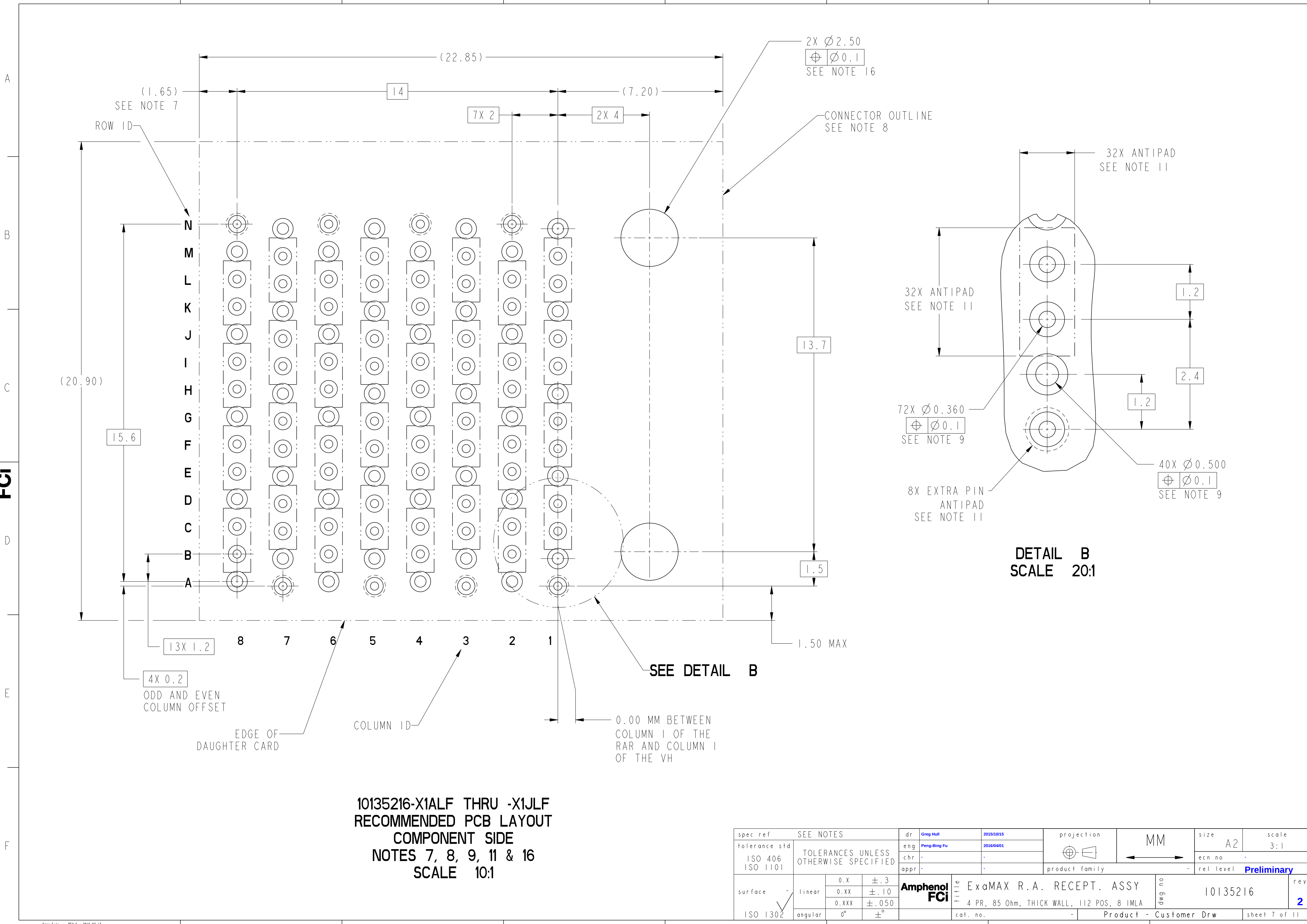


TOP SURFACE
OF DAUGHTER CARD



10135216-X1ALF THRU -X1JLF
RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSION SEE 10135216-101LF ON SHEET 1
SCALE 8:1

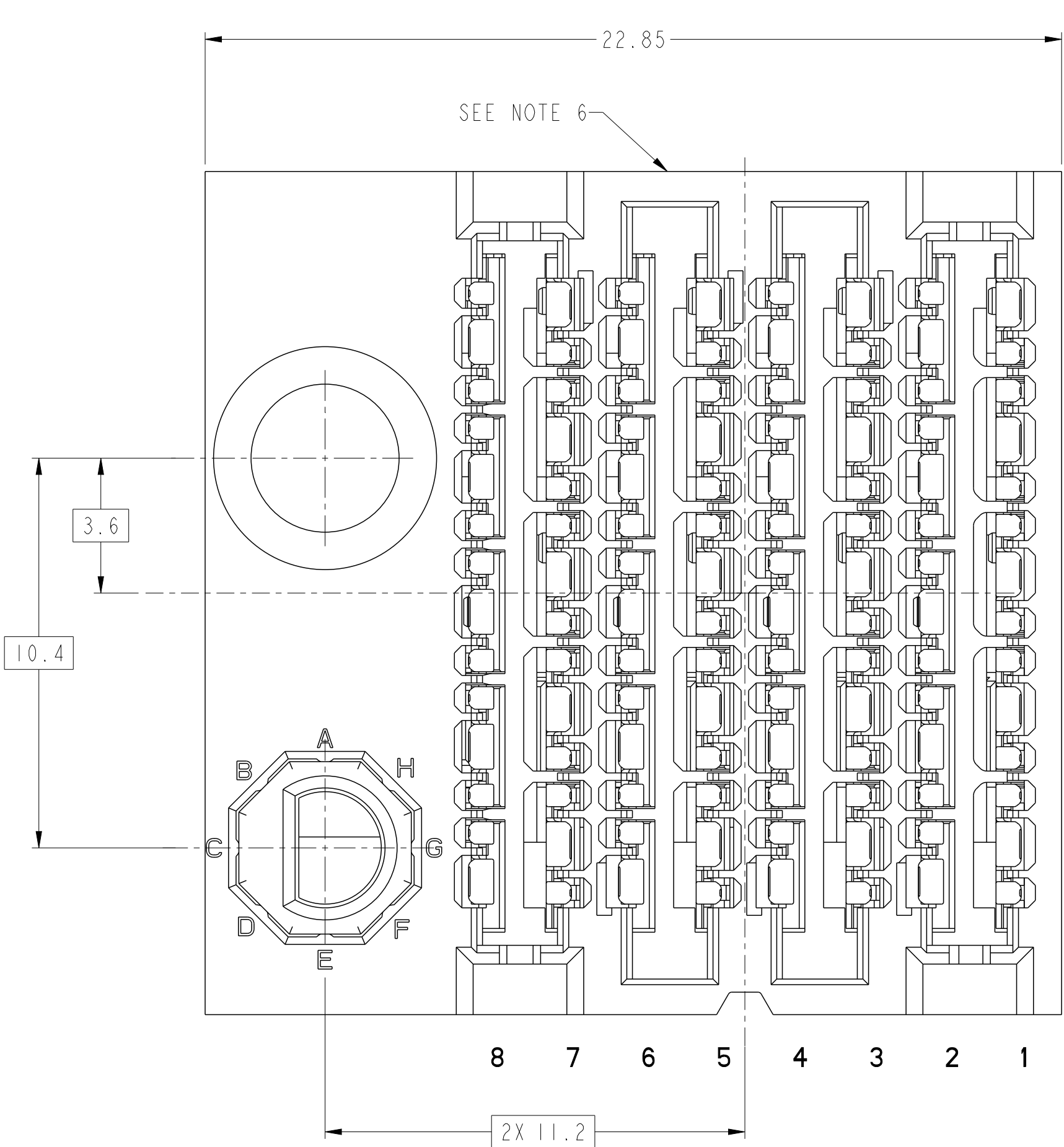
spec ref		SEE NOTES			dr	Greg Hull	2015/10/15	projection		MM		size	A2	scale	2:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2016/04/01					ecn no	-			
ISO 406					chr	-	-	product family		ExaMax		rel level			Preliminary	
ISO 1101					appr	-	-									
surface		linear	0.X	±.3	Amphenol FCi	title	ExaMAX R.A. RECEPT. ASSY				dwg no	10135216		rev	2	
ISO 1302	angular		0.XX	±.10												
			0.XXX	±.050												4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA
			0°	±°		cat. no.	SEE TABLE	Product - Customer Drw				sheet 6 of 11				



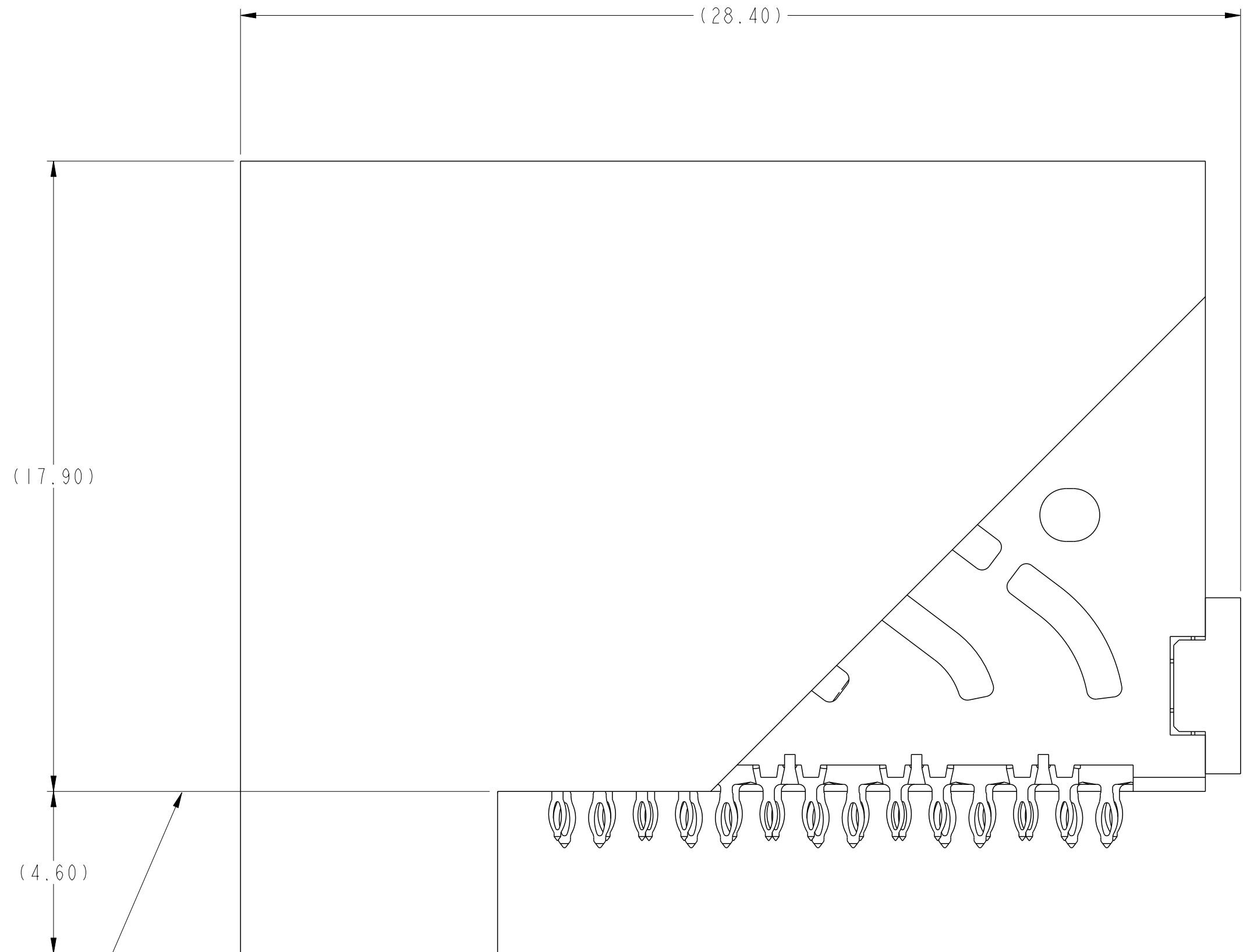
10135216-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref		SEE NOTES			dr		Greg Hull		2015/10/15		projection		MM		size		A2		scale		3:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2016/04/01						ecn no		-		rel level		Preliminary	
ISO 406					chr		-		-													
ISO 1101					appr		-		-													
surface		linear			Amphenol FCI		title		ExaMAX R.A. RECEPT. ASSY		dwg no		10135216		rev		2					
																			0.X		±.3	
																			0.XX		±.10	
																			0.XXX		±.050	
ISO 1302		angular			0°		±°		cat. no.		-		Product - Customer Drw		sheet 7 of 11							

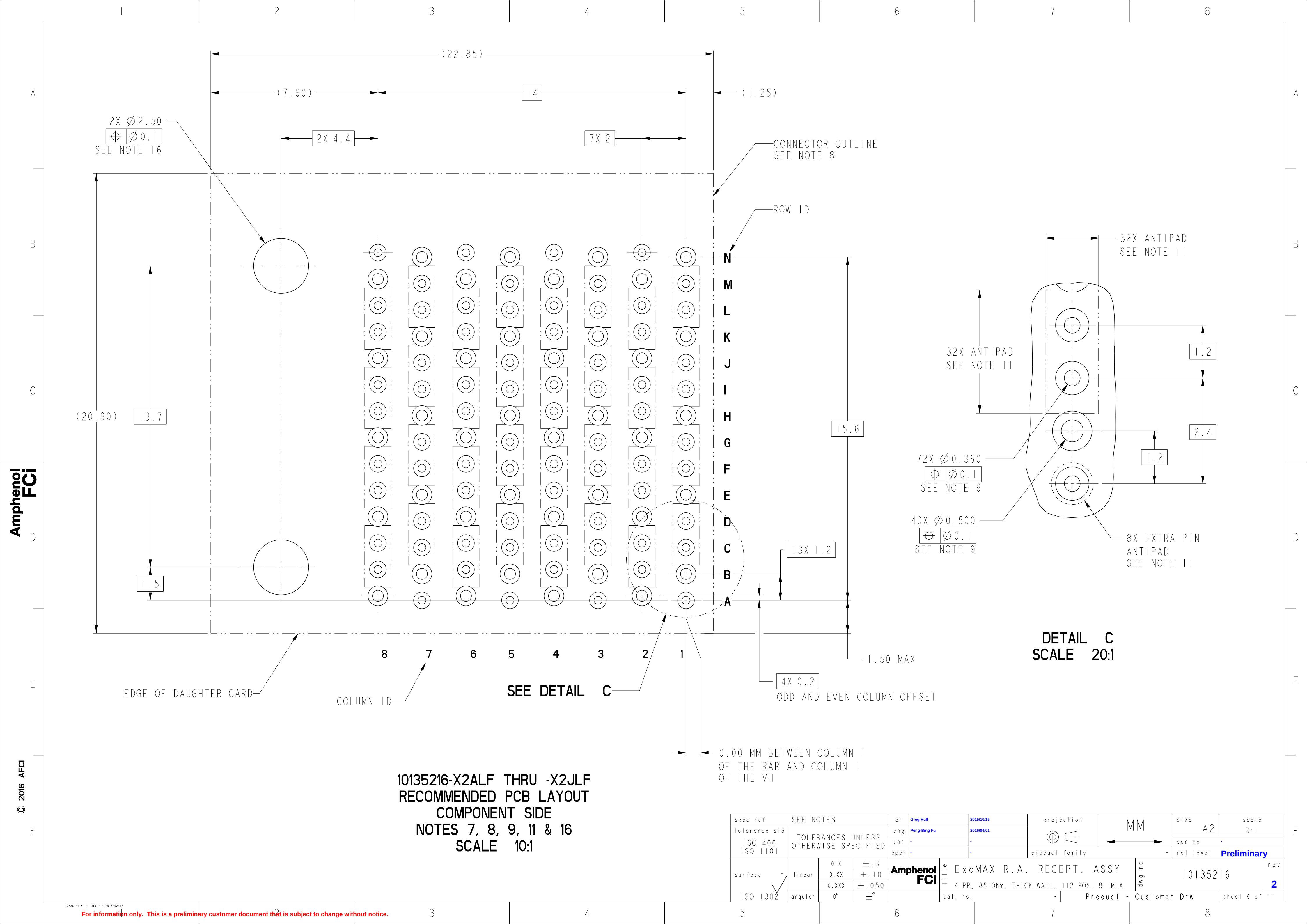
10135216-X2ALF THRU -X2JLF
LEFT GUIDANCE (SEE NOTE 17)
FOR ALL DIMENSIONS SEE 10135216-101LF ON SHEET 1
SCALE 8:1



TOP SURFACE
OF DAUGHTER CARD

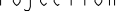


spec ref	SEE NOTES			dr	Greg Hull	2015/10/15			size	A2	scale	2:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2016/04/01			ecn no	rel level Preliminary					
ISO 406				chr	-	-									
ISO 1101				appr	-	-	product family	ExaMax							
surface		linear	0.X	±.3	Amphenol FCi	title	ExaMAX R.A. RECEPT. ASSY				dwg no	10135216		rev	2
			0.XX	±.10											
			0.XXX	±.050											
ISO 1302		angular	0°	±°		cat. no.	SEE TABLE	Product - Customer Drw				sheet 8 of 11			



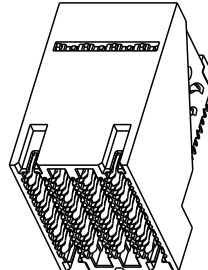
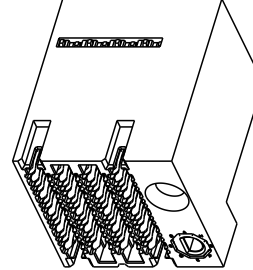
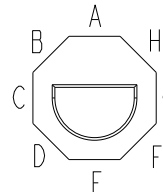
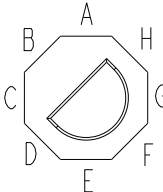
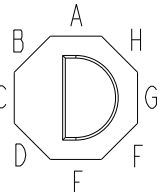
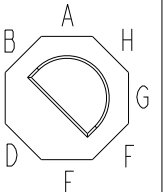
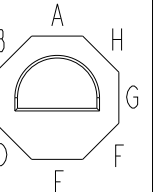
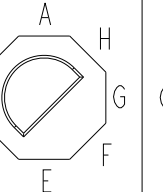
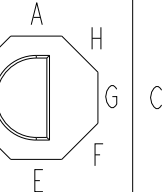
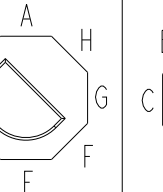
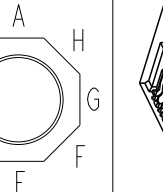
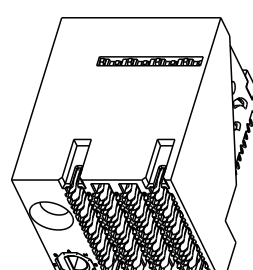
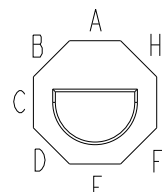
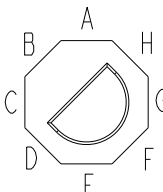
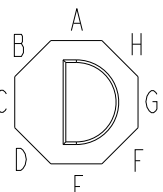
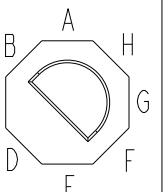
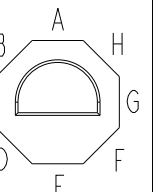
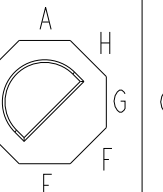
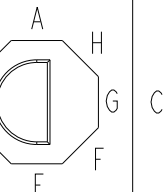
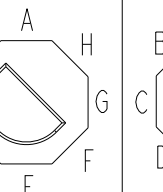
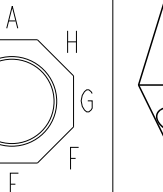
DETAIL C
SCALE 20:1

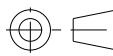
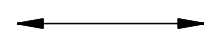
10135216-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	SEE NOTES			dr	Greg Hull	2015/10/15	projection		size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2016/04/01			ecn no				-
ISO 406				chr	-	-			rel level				Preliminary
ISO 1101				appr	-	-			product family				-
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. RECEPT. ASSY			dwg no	10135216		rev	2
		0.XX	±.10										
		0.XXX	±.050										
ISO 1302	angular	0°	±°		cat. no.	-	Product - Customer Drw				sheet 9 of 11		

10135216 - Y Y Y L F

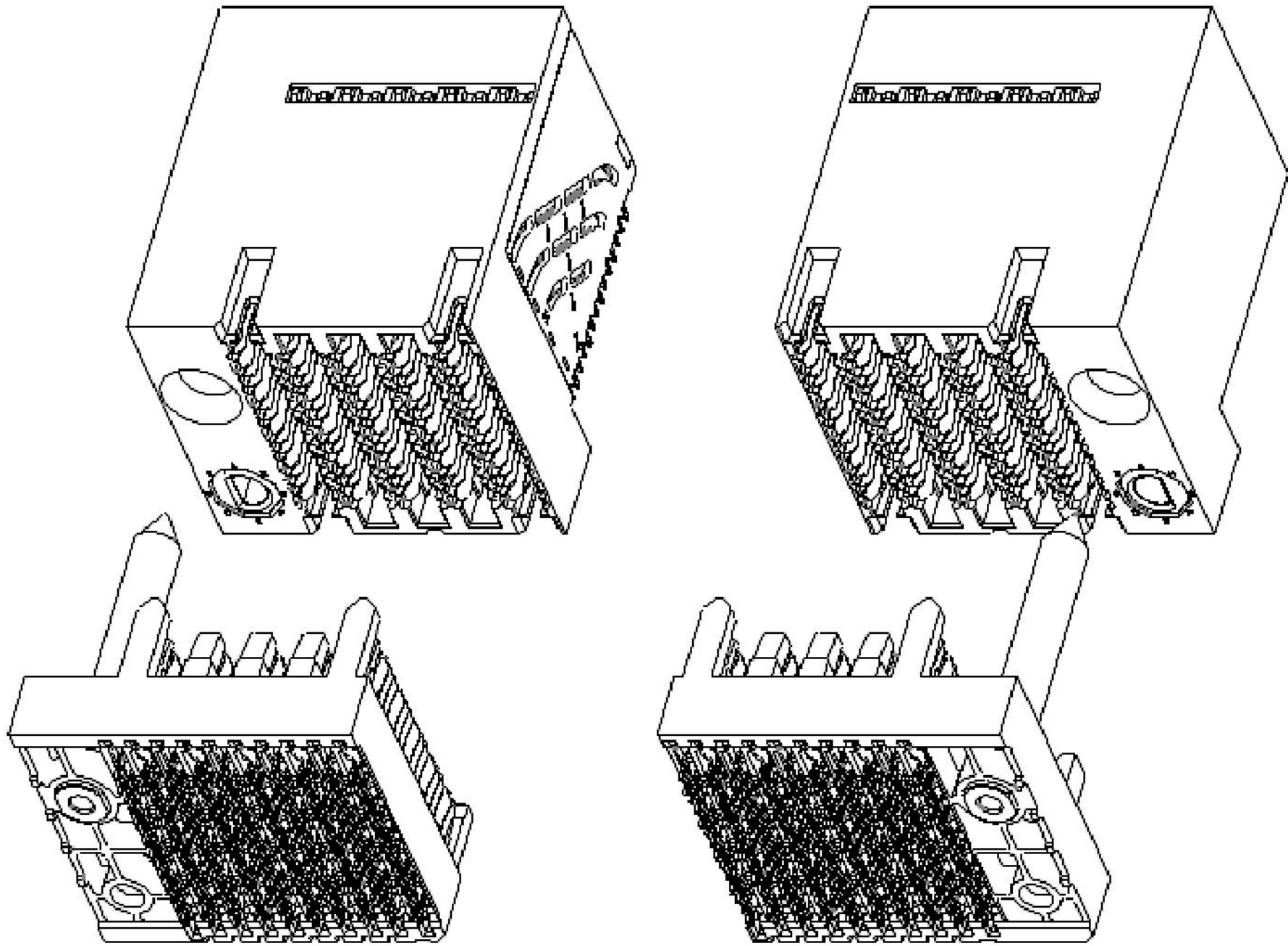
ASSEMBLY PART NUMBER	DESCRIPTION
10135216-1YYLF	STANDARD MATE
10135216-2YYLF	ADVANCED MATE
10135216-3YYLF	SHORT DETECT
10135216-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
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)		
											

spec ref		SEE NOTES			dr		Greg Hull		2015/10/15						size		A2		scale		1:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2016/04/01						ecn no		-					
ISO 406					chr		-		-													
ISO 1101					appr		-		-													
											product family		ExaMax		rel level		Preliminary					
surface		linear		0.X		±.3				title		ExaMAX R.A. RECEPT. ASSY		dwg no		10135216		rev		2		
		0.XX		±.10																		
		0.XXX		±.050																		
ISO 1302		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 10 of 11						

NOTES:

- ① - CONNECTOR MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, NATURAL, UL94-V0
CONTACT: COPPER ALLOY
ORGANIZER: STAINLESS STEEL
- 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 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, 10135216-2XXLF, 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, 10135216-3XXLF, 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, 10135216-4XXLF, 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 SCREW 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		2015/10/15		projection		MM		size		A2		scale		2:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2016/04/01						ecn no		-		rel level		Preliminary	
ISO 406					chr		-		-						product family		ExaMax					
ISO 1101					appr		-		-													
surface		linear		0.X		±.3		Amphenol FCi		title		ExaMAX R.A. RECEPT. ASSY		dwg no		10135216		rev		2		
		0.XX		±.10																		
		0.XXX		±.050																		
ISO 1302		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 11 of 11						