

PRODUCT NUMBER
SEE TABLE

EVEN COLUMN,
CONTACT ROW ID

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

4X 1
SIG PAIR
CENTERS

4X 3.6
SIG CENTERS

1.3
ROW A TO
FIRST SIG

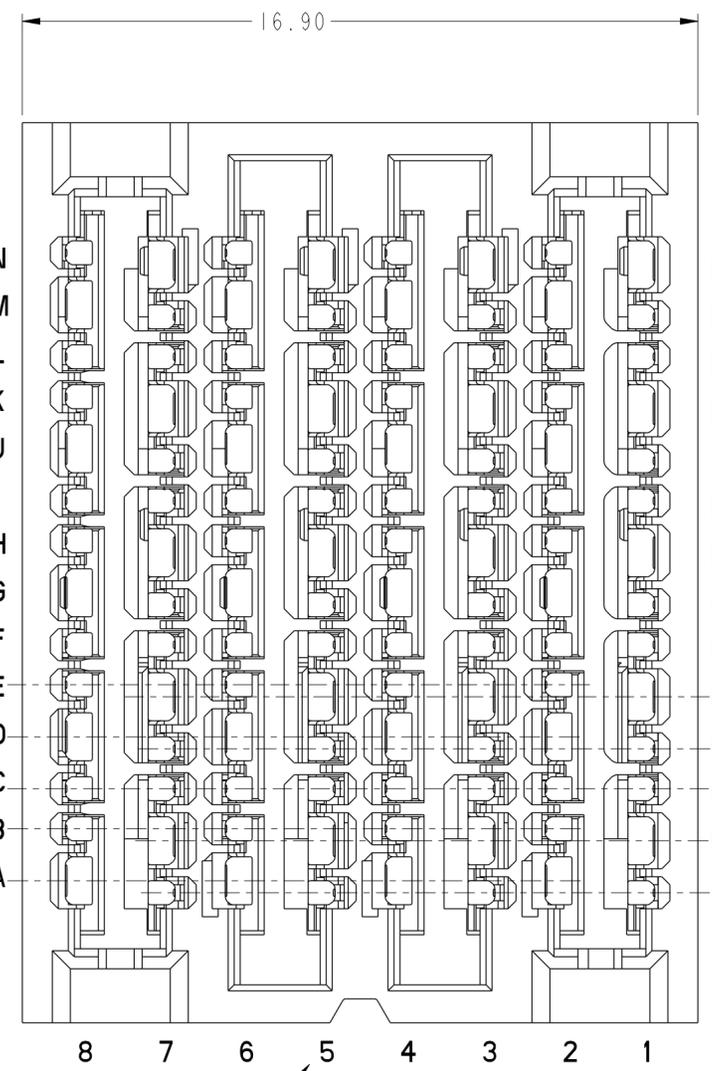
4X 3.6
GND CENTERS

4X 1
SIGNAL PAIR
CENTERS

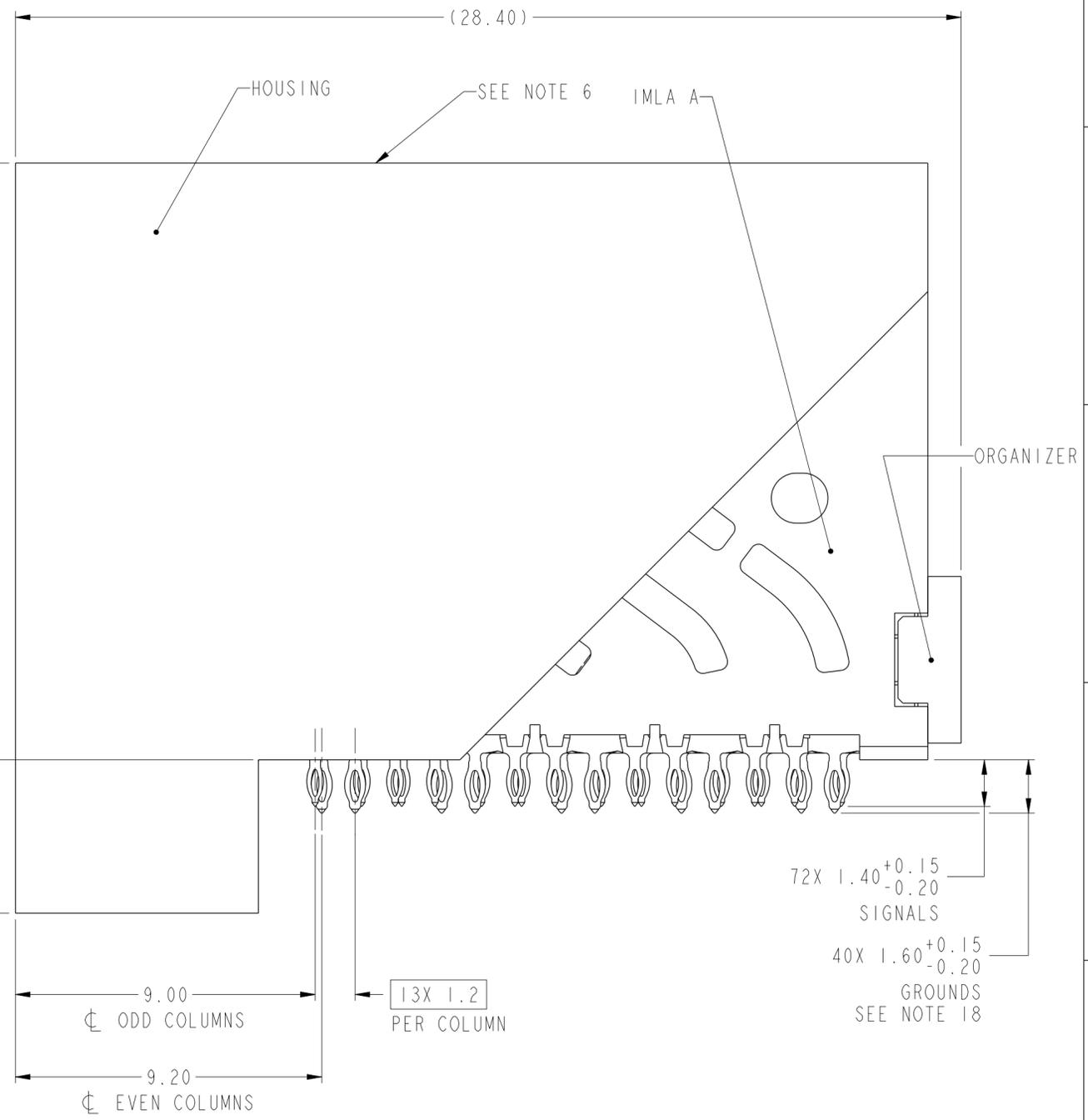
4X 3.6
GRD CENTERS

1.3
ROW A TO
FIRST GRD

4X 3.6
SIG CENTERS



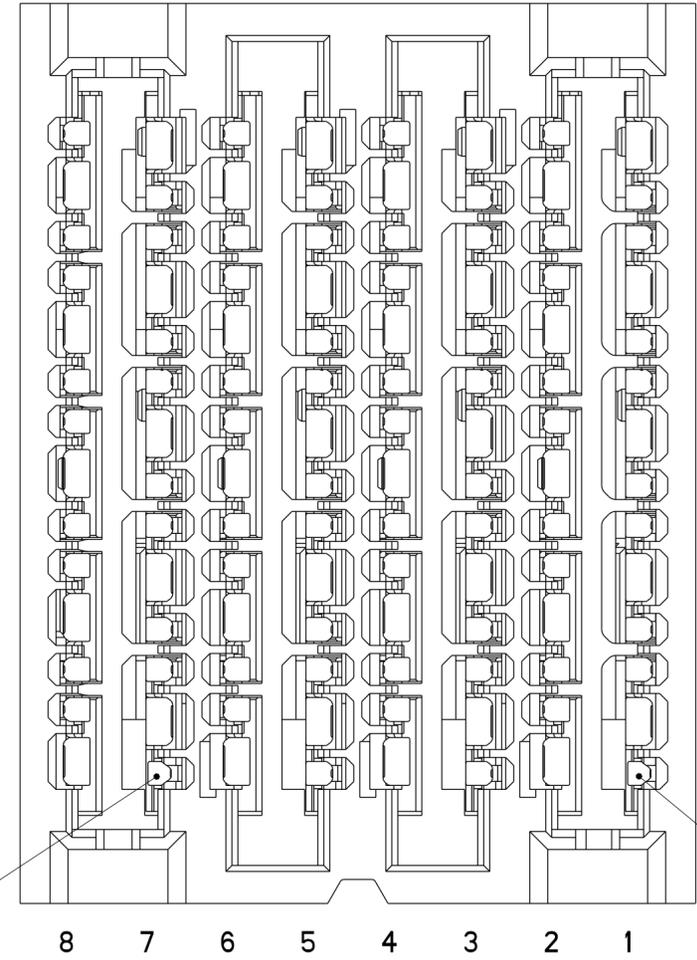
10135216-101LF
STANDARD MATE RECEPTACLE
SCALE 8:1



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	-	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 4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA	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			

Amphenol FCI

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ADVANCED MATE
POSITION A7
SEE NOTE 13

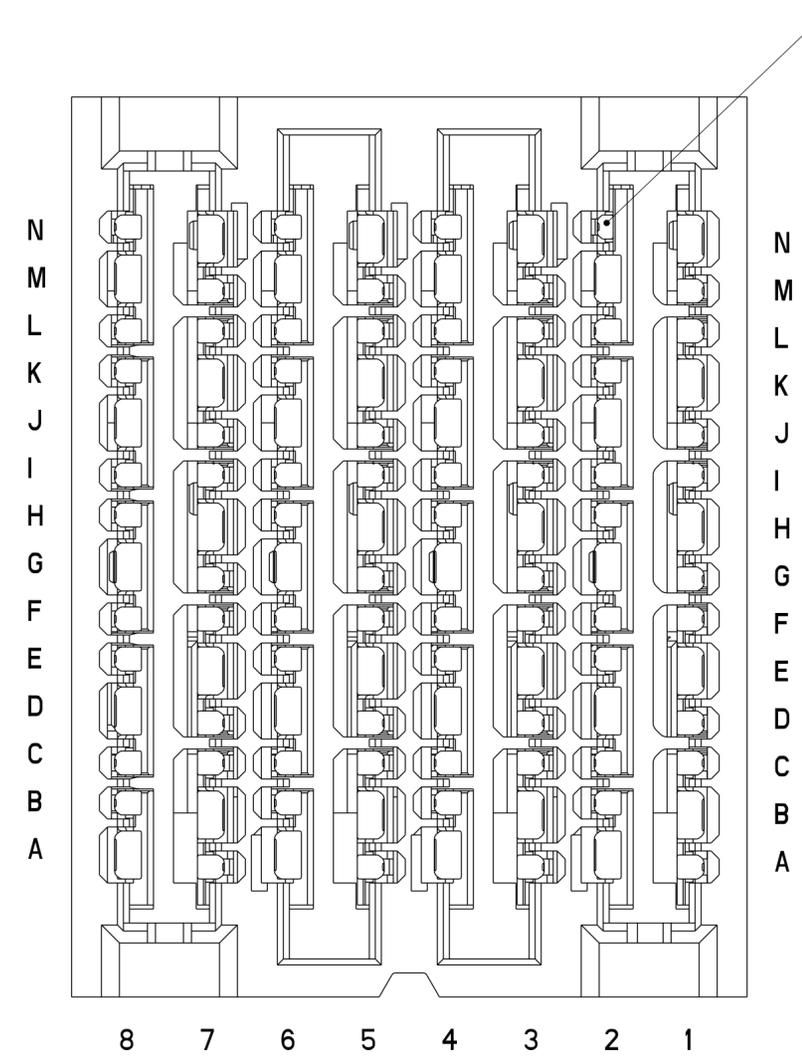
ADVANCED MATE
POSITION A1
SEE NOTE 13

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

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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 ISO 1101		chr	-	product family			ExaMax			
surface	linear	0.X	±.3	Amphenol FCi	title ExaMAX R.A. RECEPT. ASSY 4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA	cat. no. SEE TABLE	Product - Customer Drw	sheet 2 of 11	rev	2
ISO 1302	0.XX	±.10	dwg no						10135216	
	0.XXX	±.050								
	angular	0°	±°							



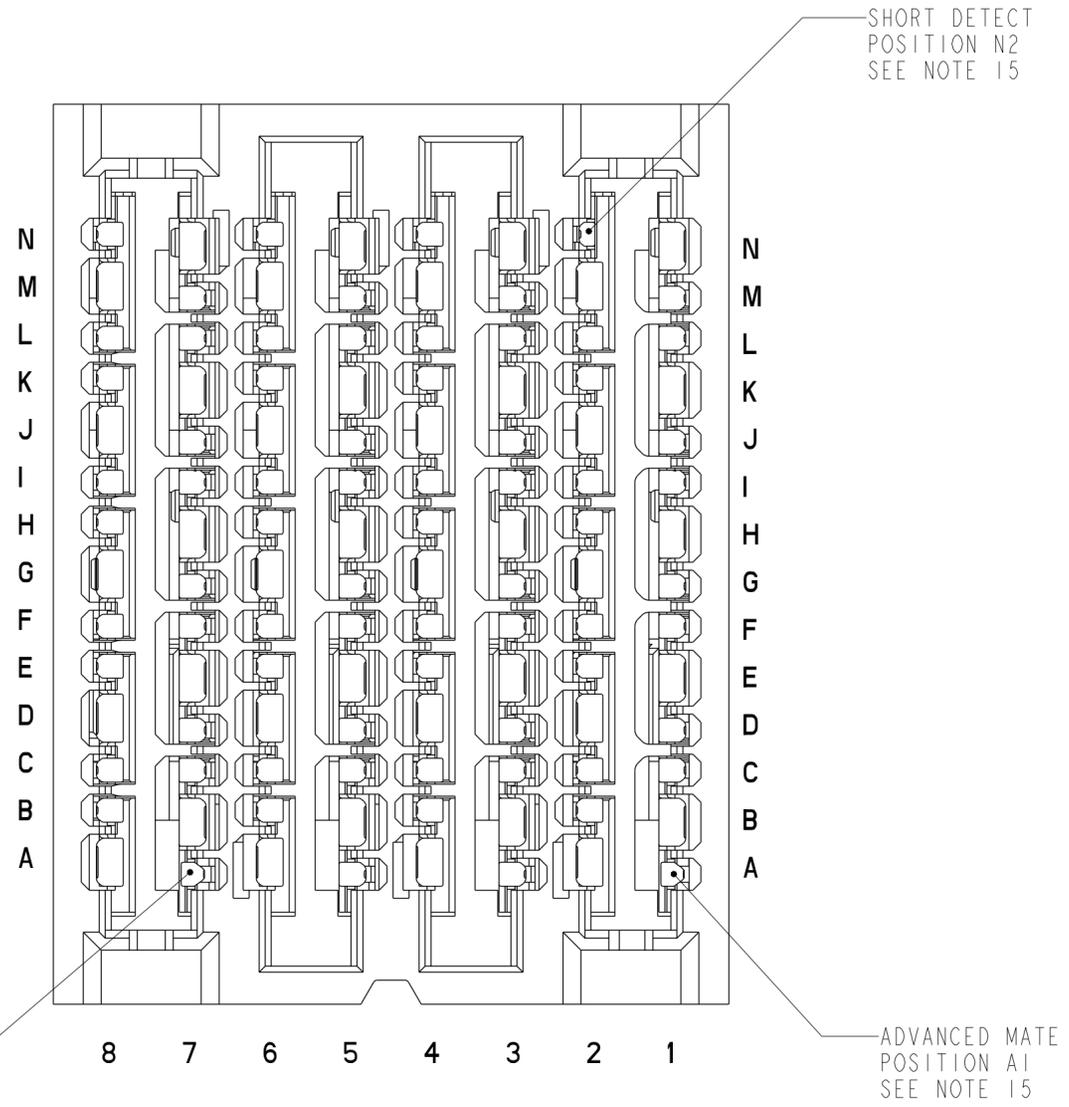
SHORT DETECT
POSITION N2
SEE NOTE 14

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

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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 ISO 1101		chr	-	-			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		4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA		cat. no.	SEE TABLE	Product - Customer Drw	sheet 3 of 11		
ISO 1302	angular	0°	±°									

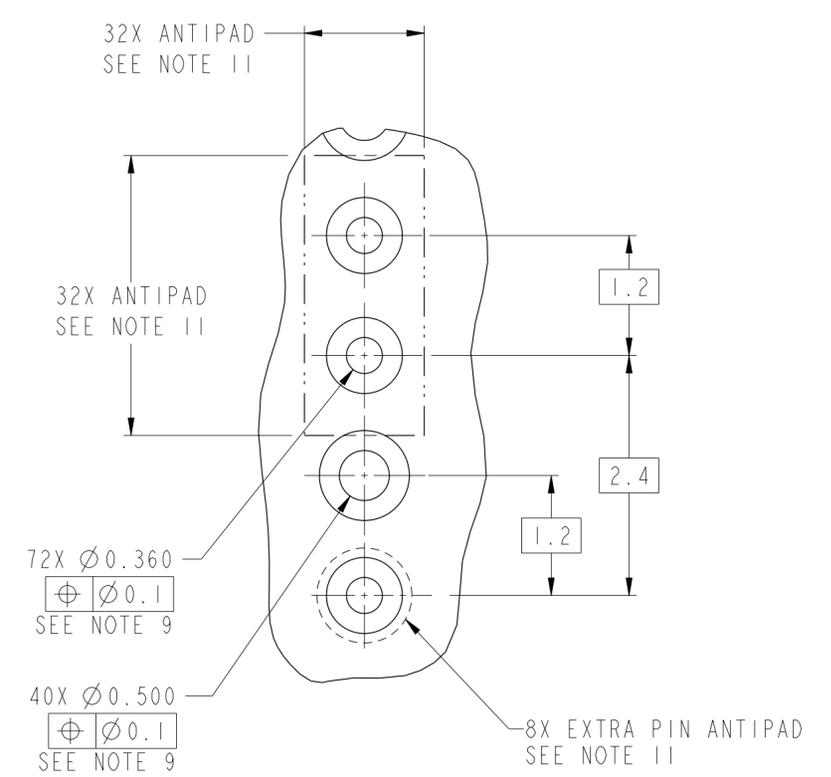
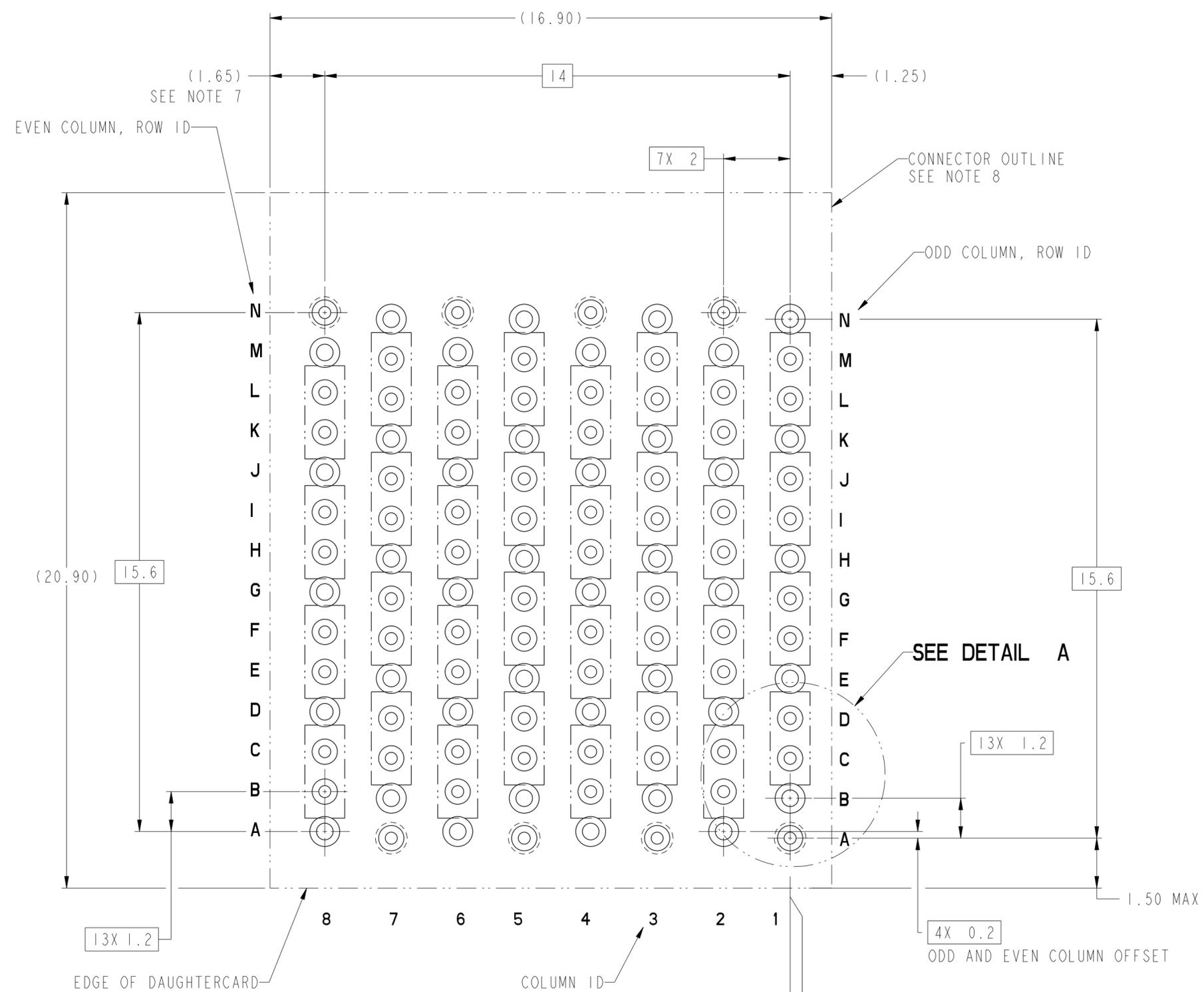


10135216-401LF
 ADVANCE MATE/SHORT DETECT RECEPTACLE
 ADVANCED MATE POSITIONS ARE A1 & A7 ONLY
 SHORT DETECT POSITION IS N2
 FOR ALL DIMENSIONS SEE 10135216-101 ON SHEET 1
 SCALE 8:1

Amphenol
FCi

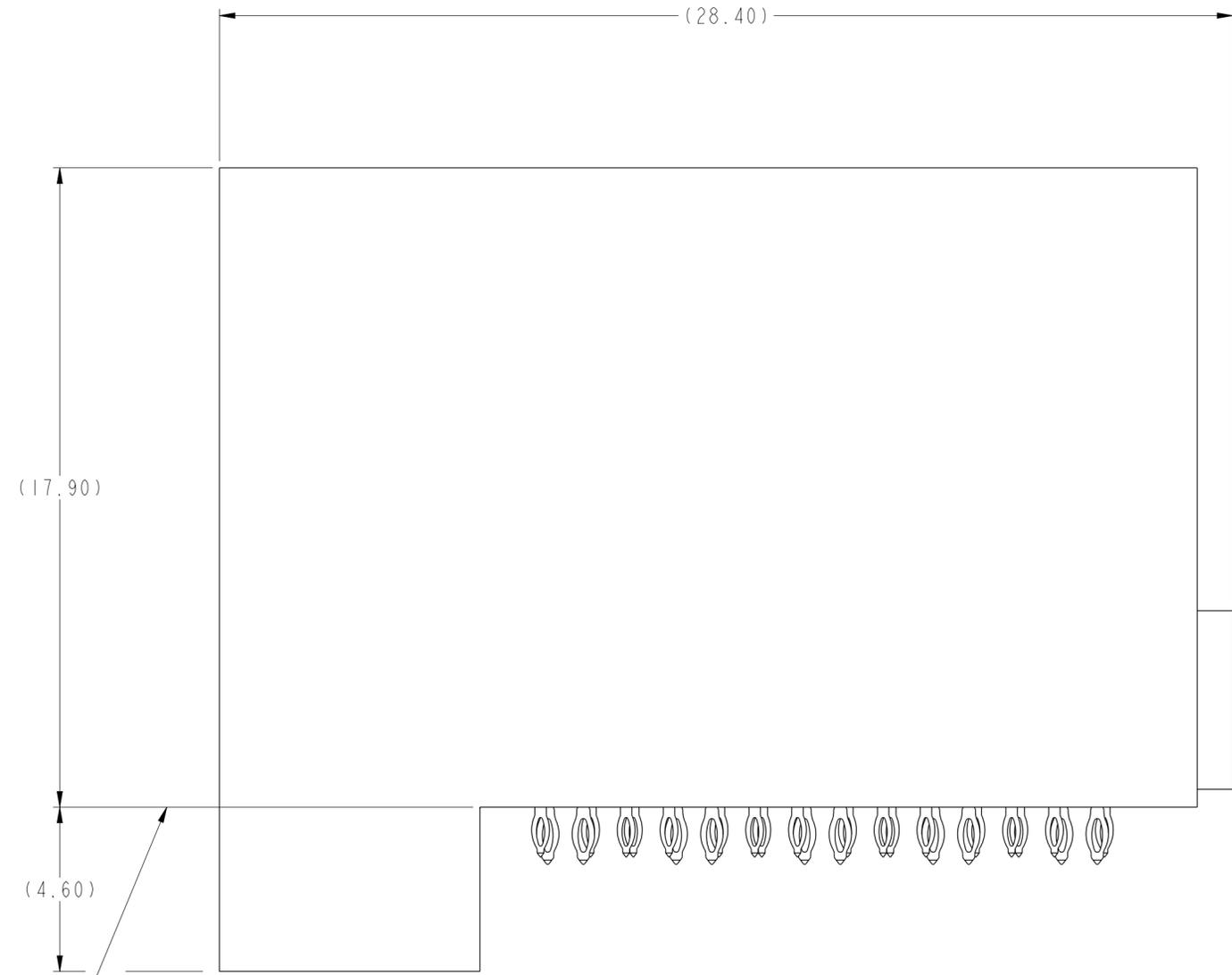
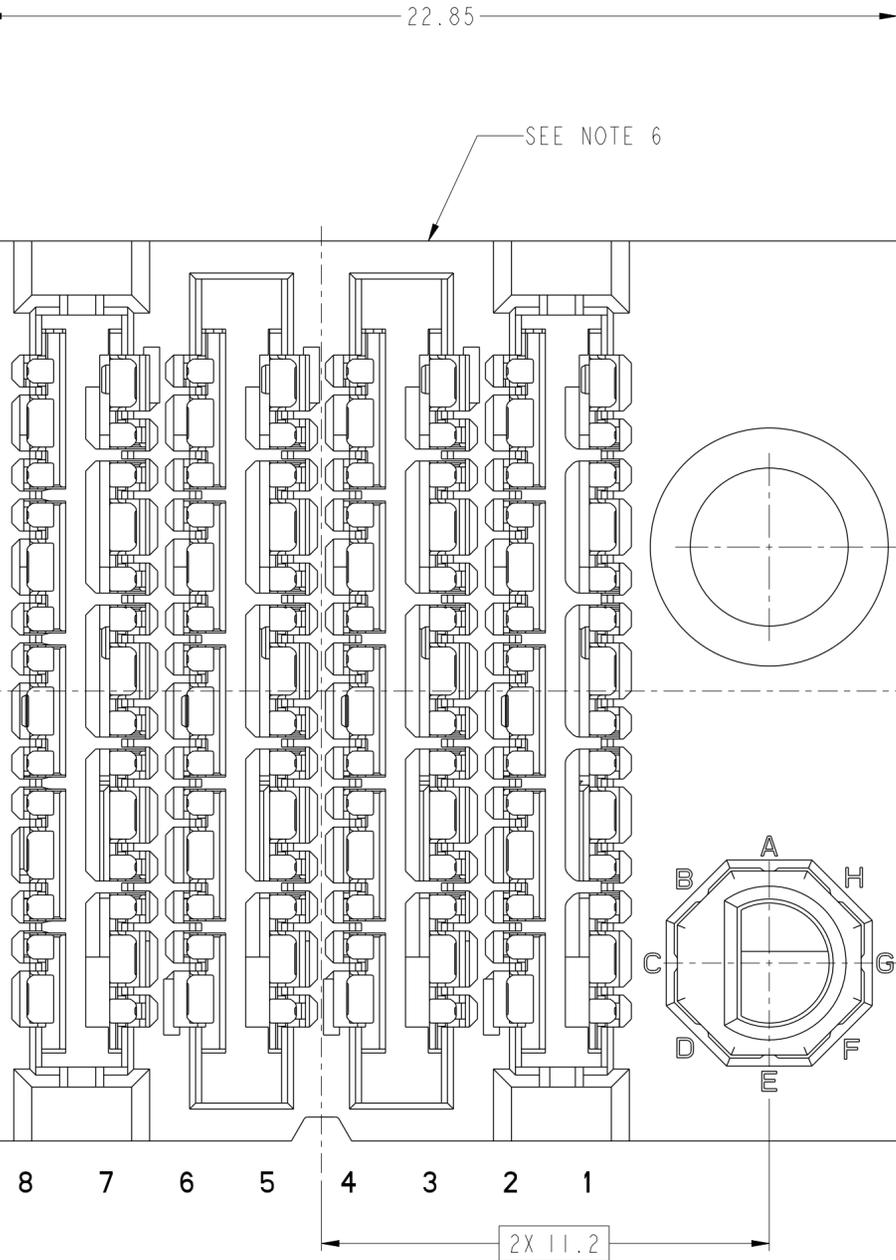
© 2016 AFCI

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	
ISO 406		chr	-	-			Product family	ExaMax	Preliminary	
ISO 1101		appr	-	-	Title		ExaMAX R.A. RECEPT. ASSY	dwg no	10135216	rev
surface	linear	Amphenol FCi		4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA		cat. no.	SEE TABLE	Product - Customer Drw	sheet 4 of 11	
ISO 1302	angular	0°	±°							



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	-	rel level	Preliminary
ISO 406 ISO 1101		chr	-	appr						
surface	linear	Amphenol FCi			title		ExaMAX R.A. RECEPT. ASSY		dwg no	10135216
ISO 1302	angular	0.X	±.3	0.XX	±.10	0.XXX	±.050	4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA	rev	2
		0°	±°	cat. no.	-	Product - Customer Drw	sheet 5 of 11			

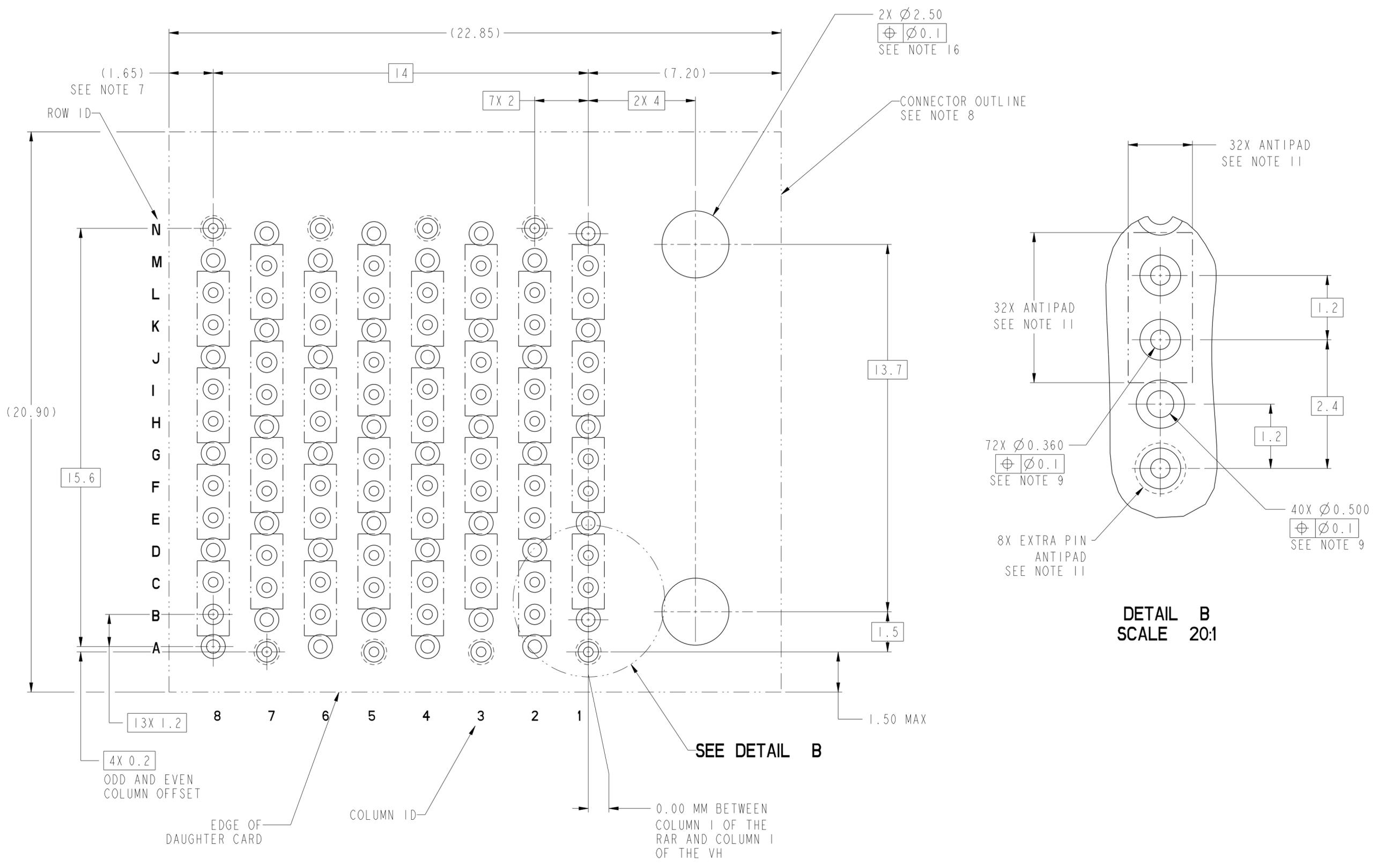


10135216-X1ALF THRU -X1JLF
 RIGHT GUIDANCE (SEE NOTE 17)
 FOR ALL DIMENSION SEE 10135216-101LF ON SHEET 1
 SCALE 8:1

Amphenol
 FCI

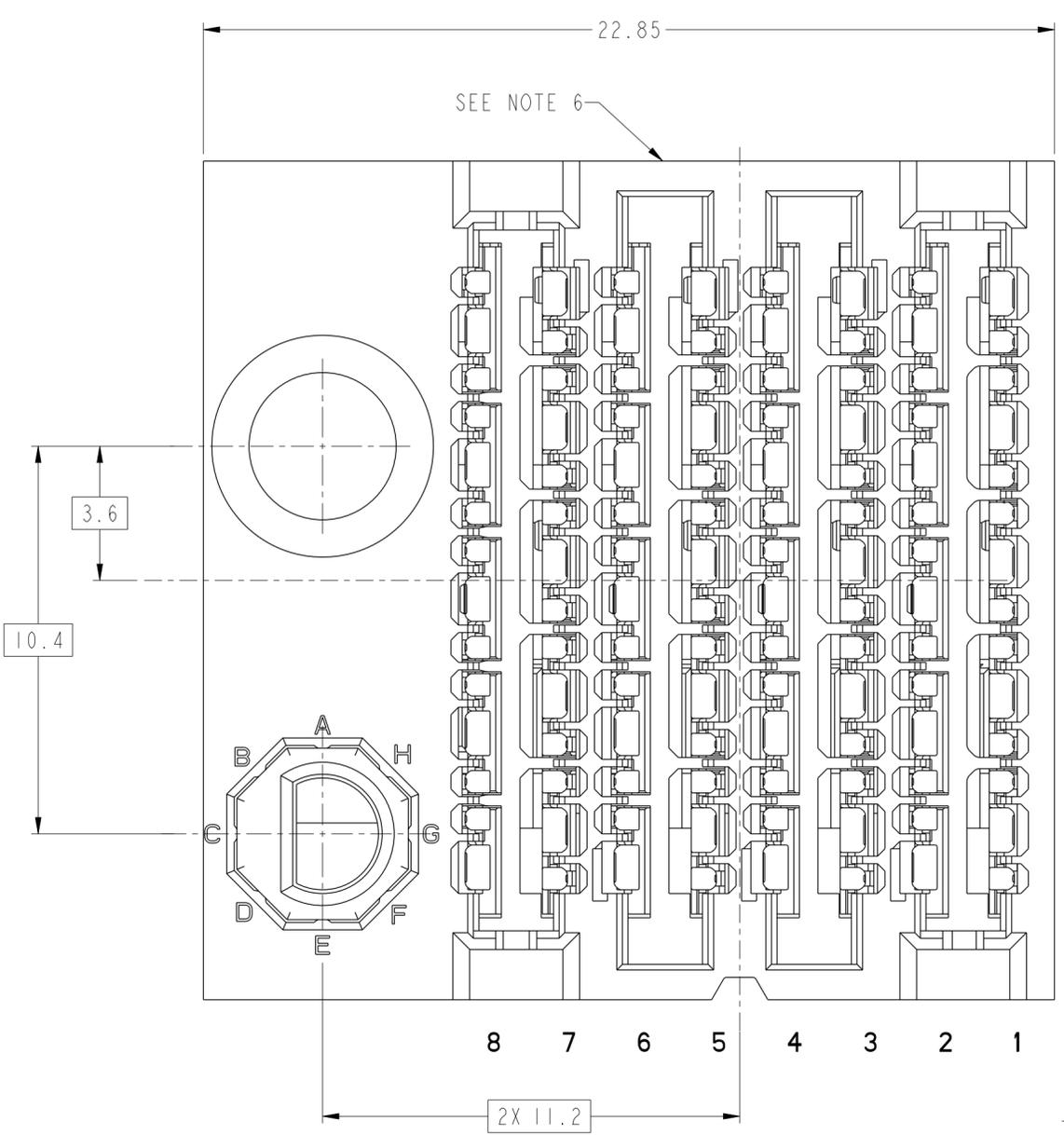
© 2016 AFCI

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	-							
ISO 1101		appr	-		product family	ExaMax				
surface	linear	0.X	±.3	Amphenol FCI	title ExaMAX R.A. RECEPT. ASSY 4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA	dwg no 10135216	rev 2	Product - Customer Drw		
		0.XX	±.10							
		0.XXX	±.050							
ISO 1302	angular	0°	±°	cat. no.	SEE TABLE				sheet 6 of 11	

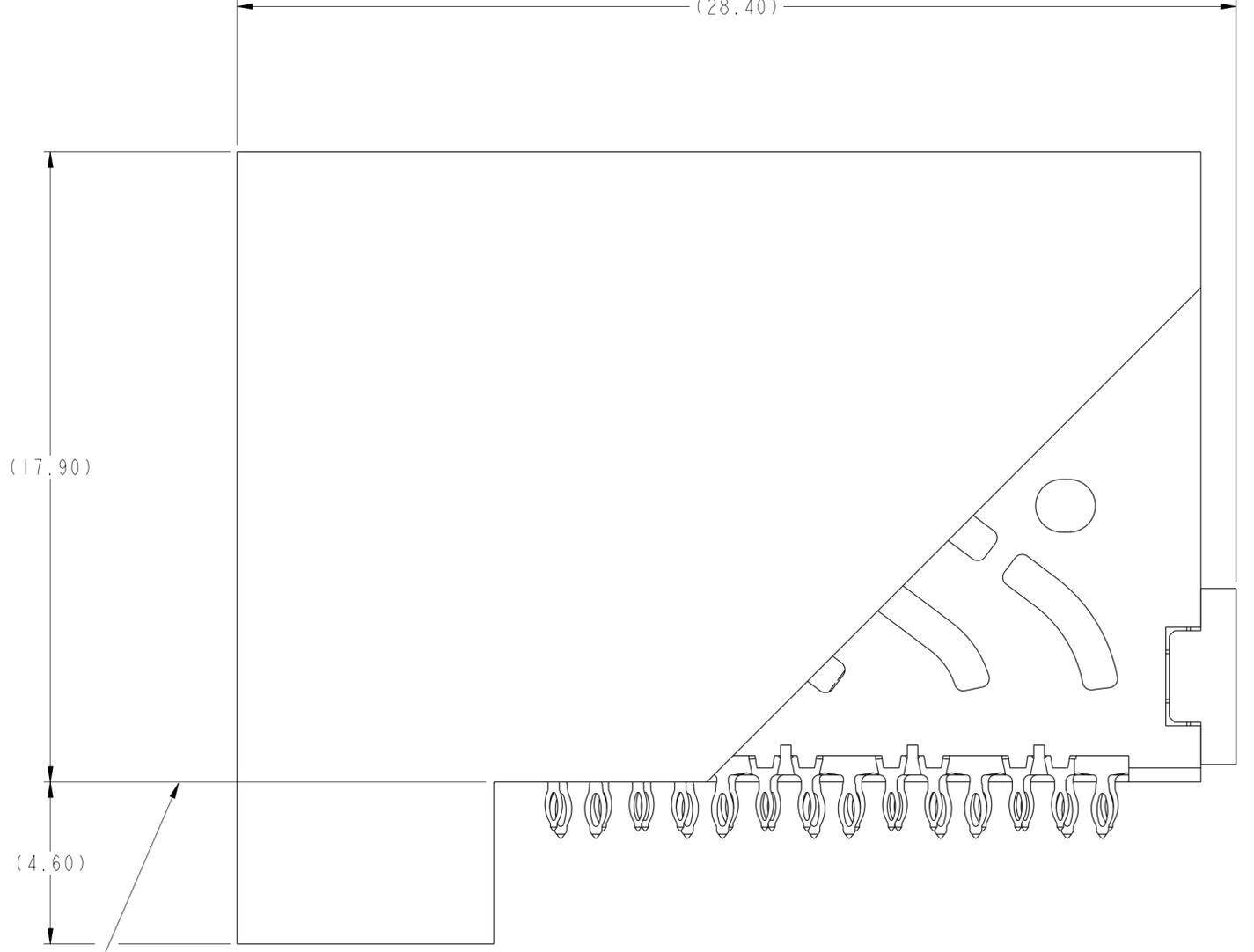


10135216-X1ALF THRU -X1JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

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	-		product family	-				
surface	linear	0.X	±.3		title ExaMAX R.A. RECEPT. ASSY 4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA		dwg no	10135216	rev	2
		0.XX	±.10		cat. no.	-	Product - Customer Drw	sheet 7 of 11		
	angular	0°	±°							

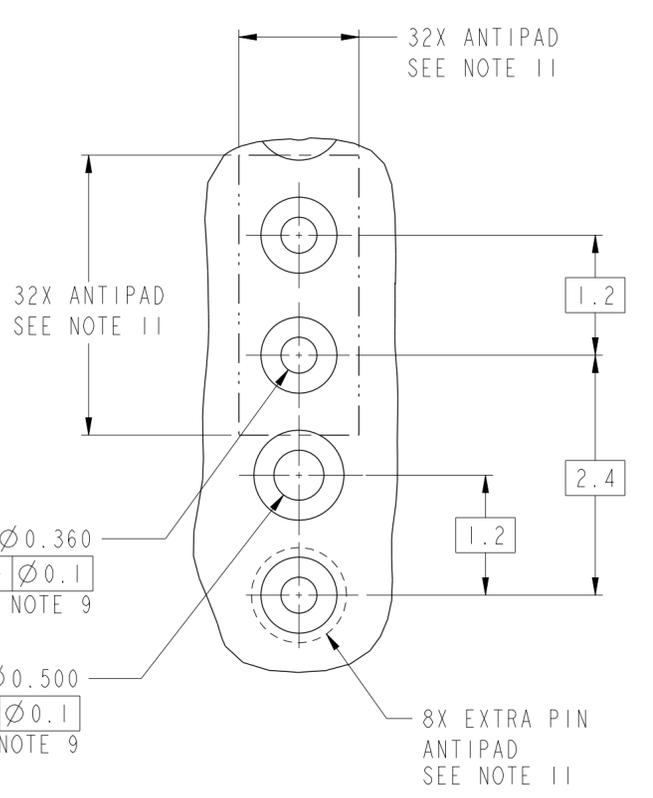
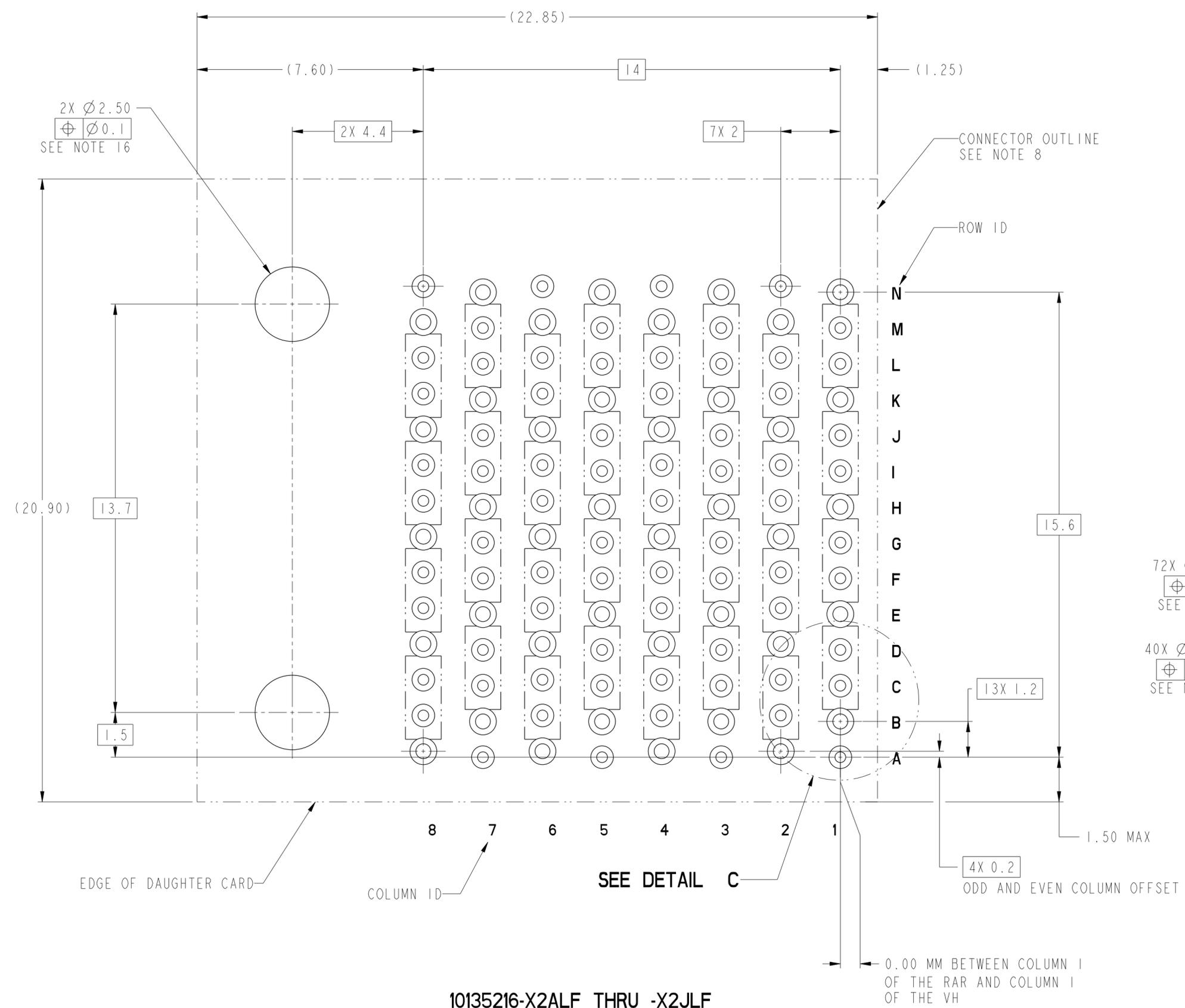


TOP SURFACE
OF DAUGHTER CARD



10135216-X2ALF THRU -X2JLF
LEFT GUIDANCE (SEE NOTE 17)
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	-	rel level	Preliminary
ISO 406		chr	-							
ISO 1101		appr	-		product family	ExaMax				
surface	linear	0.X	±.3		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		cat. no. SEE TABLE					
ISO 1302	angular	0°	±°	Product - Customer Drw		sheet 8 of 11				

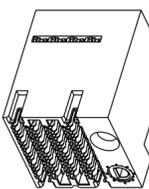
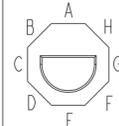
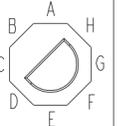
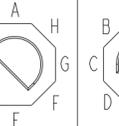
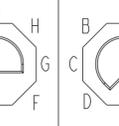
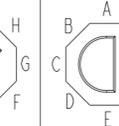
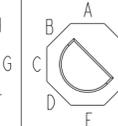
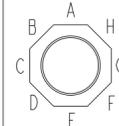
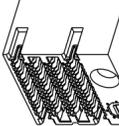
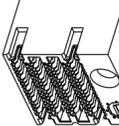
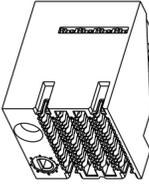
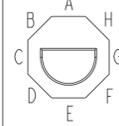
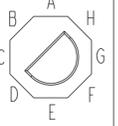
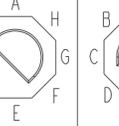
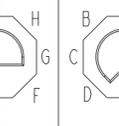
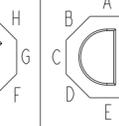
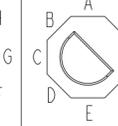
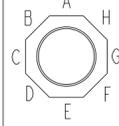
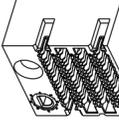
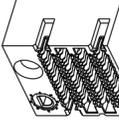


10135216-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, 11 & 16
SCALE 10:1

spec ref	SEE NOTES	dr	Greg Hull	2015/10/15	projection	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	-		product family	-	rel level			
surface	linear	Amphenol FCI			title			ExaMAX R.A. RECEPT. ASSY		
	angular	0.X	±.3		4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA			dwg no	10135216	
ISO 1302		0.XX	±.10		cat. no.	-	Product - Customer Drw	rev	2	
		0.XXX	±.050		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)		
											

Amphenol FCI

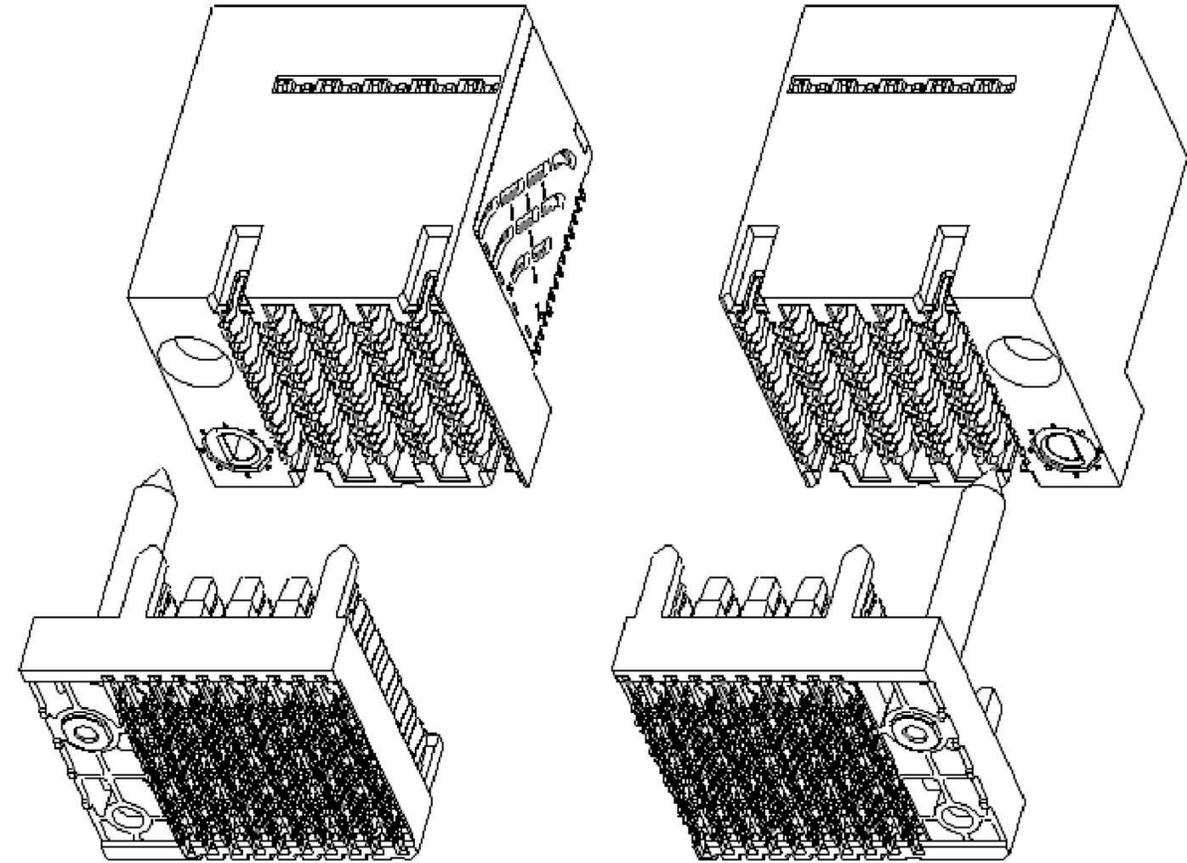
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spec ref	SEE NOTES	dr	Greg Hull	2015/10/15	projection	MM	size	A2	scale	1:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2016/04/01		← →	ecn no	-	rel level	Preliminary			
ISO 406 ISO 1101		chr	-	-							product family	ExaMax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

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	-	product family	ExaMax	rel level	Preliminary	dwg no	10135216	rev	2	
surface	linear	0.X	±.3		title		ExaMAX R.A. RECEPT. ASSY		cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11
	angular	0°	±°		4 PR, 85 Ohm, THICK WALL, 112 POS, 8 IMLA							

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