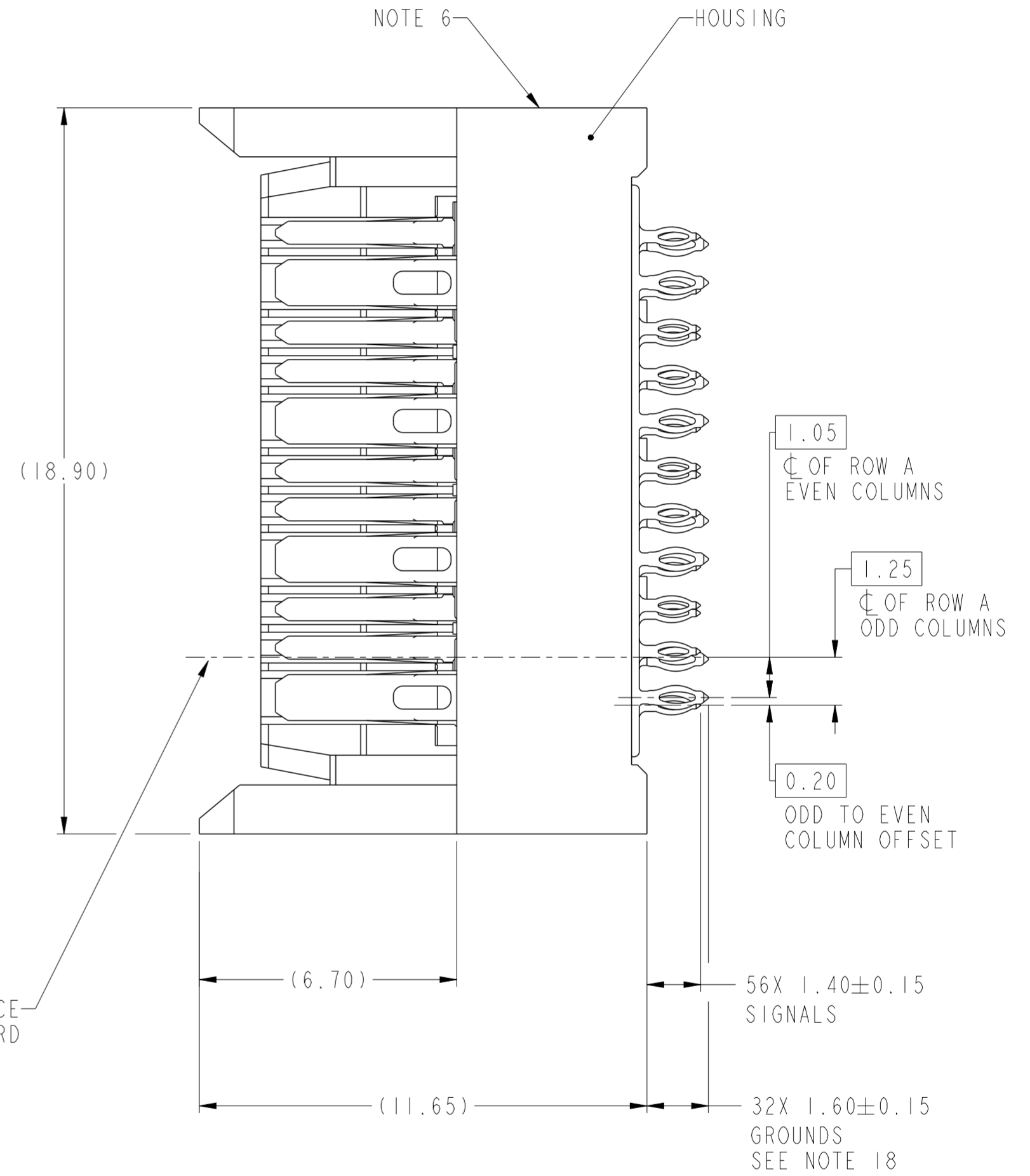
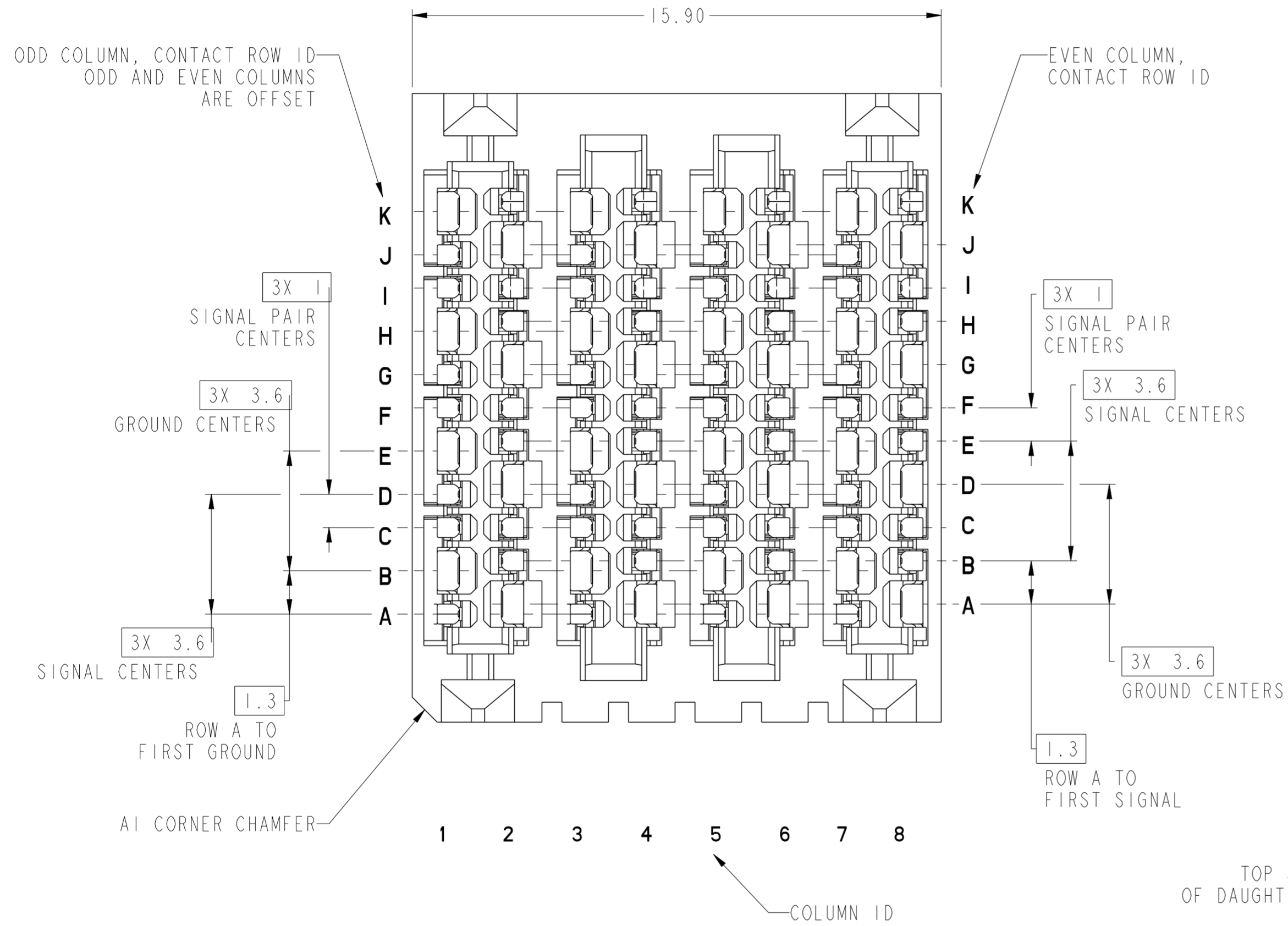
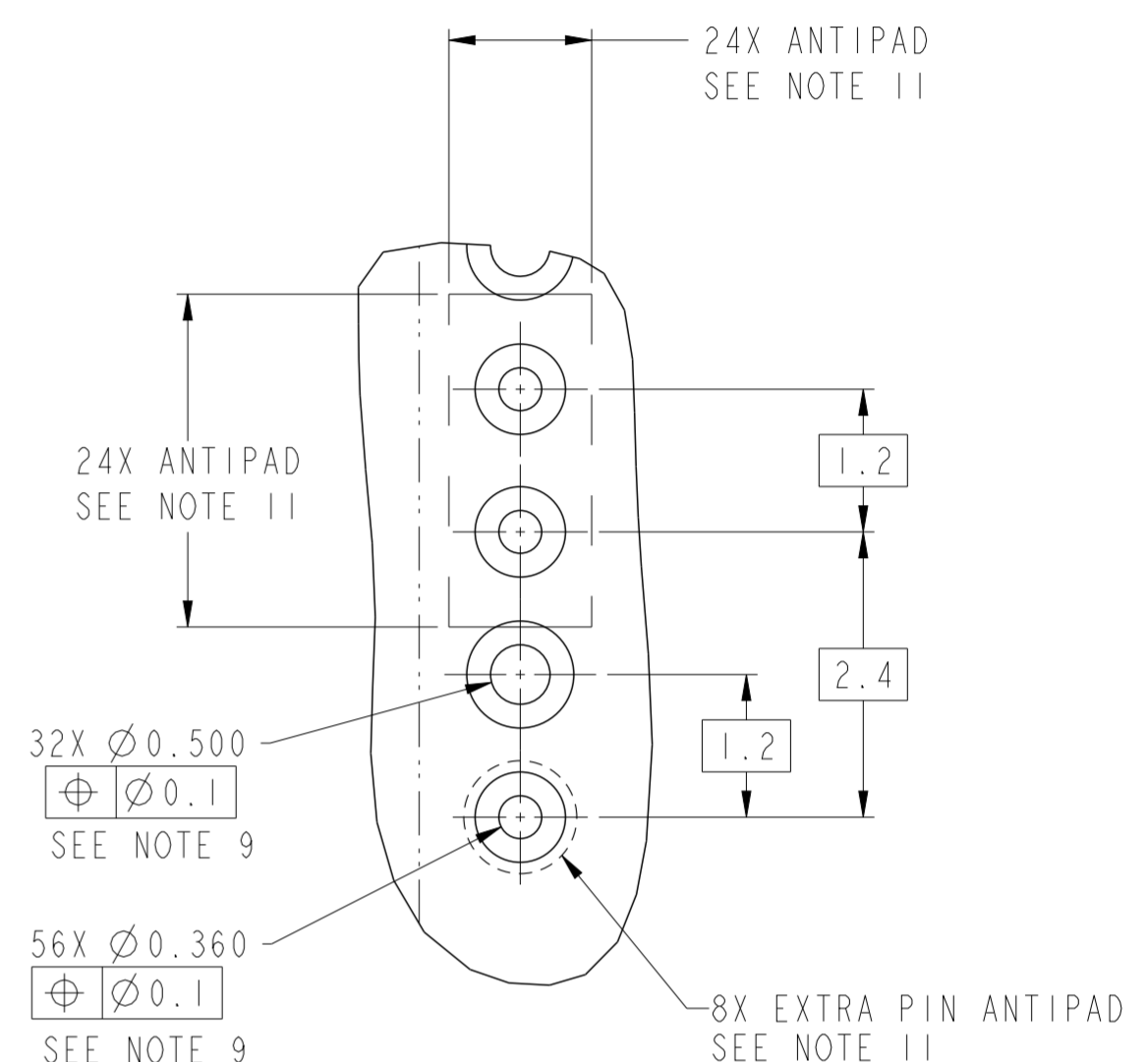
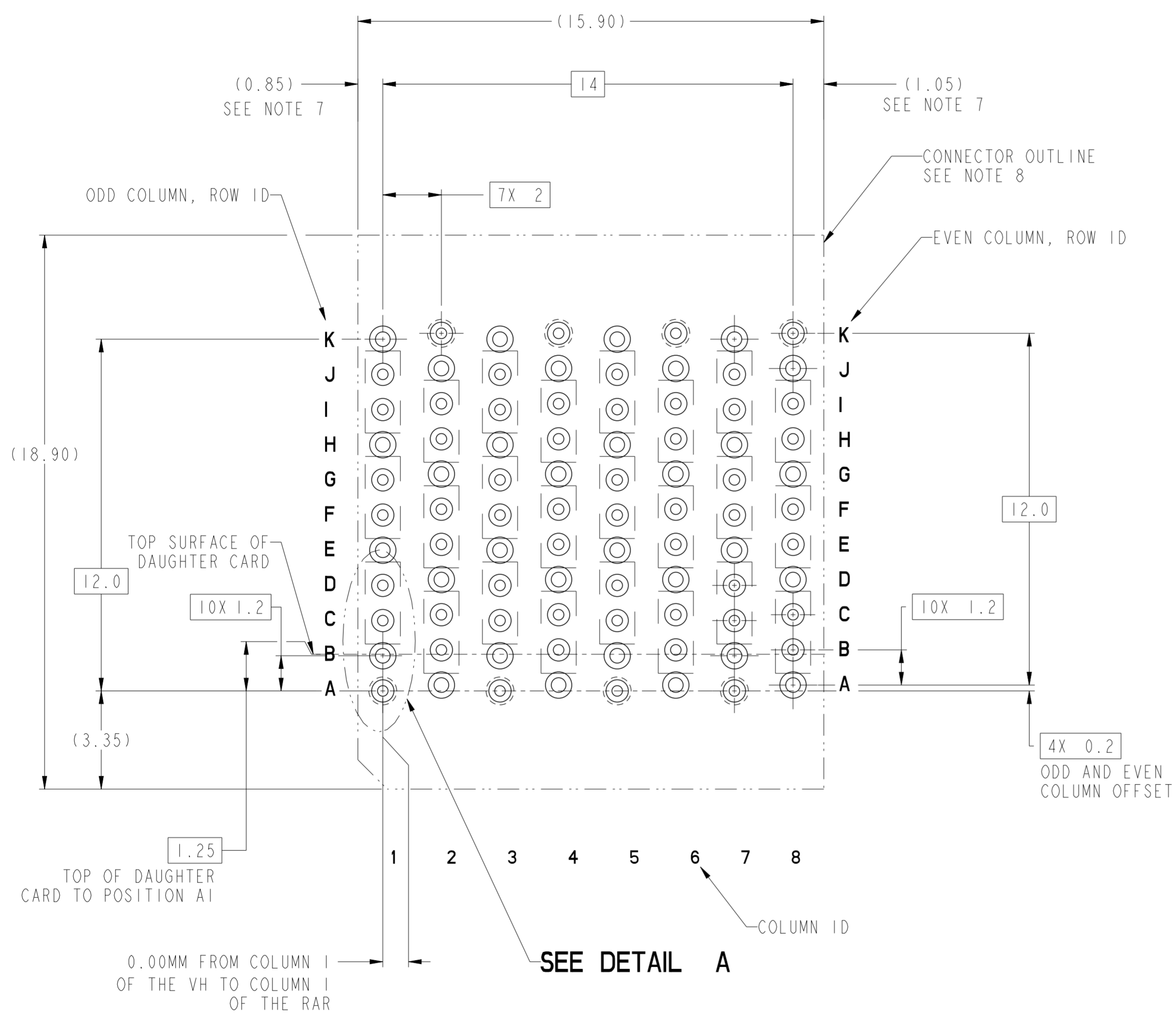


PRODUCT NUMBER
SEE SHEET 10



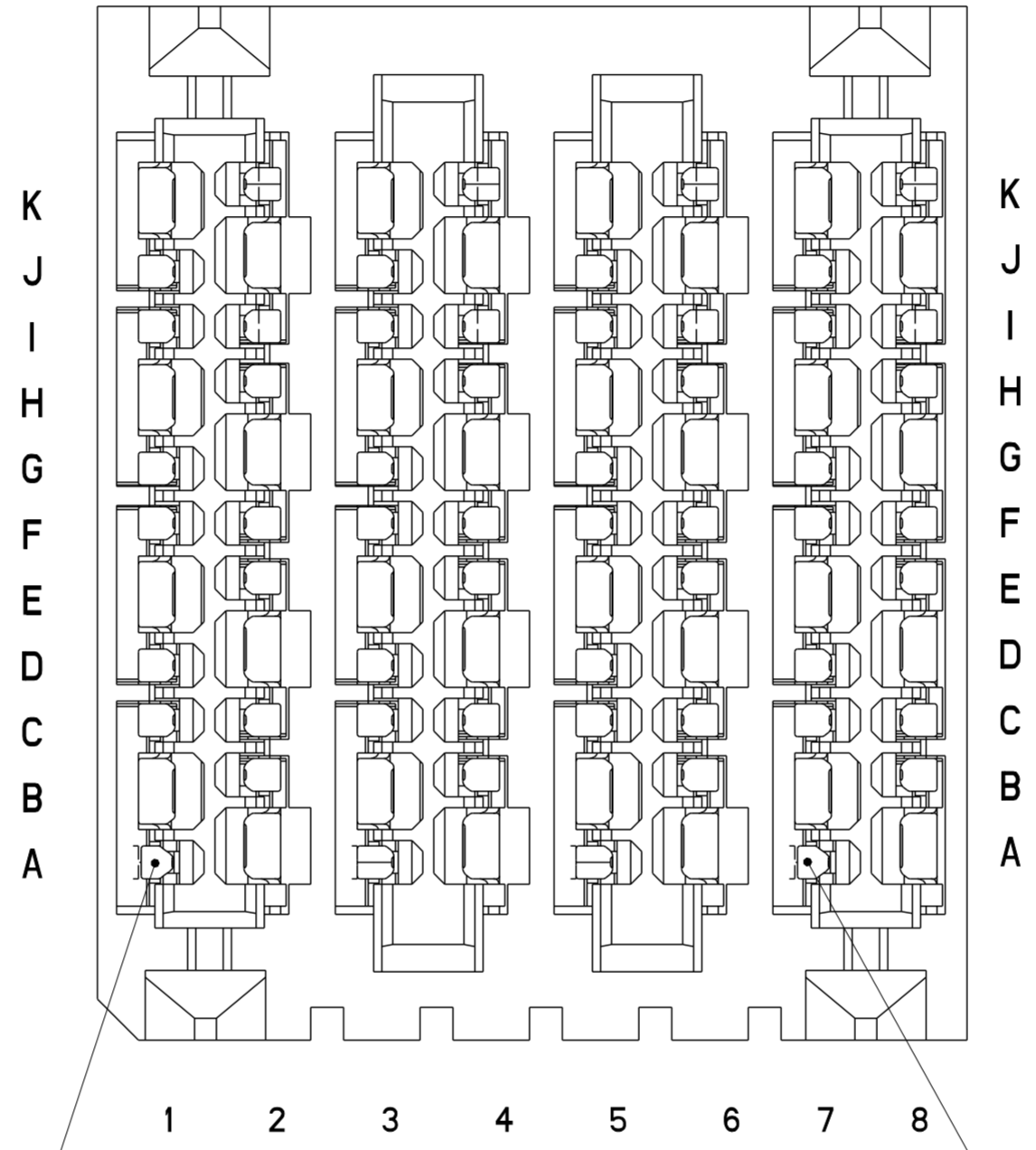
10124311-Y01LF
(10124311-101LF STANDARD MATE CONNECTOR SHOWN)

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	8:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no	rel level	Preliminary	rev									
ASME Y14.5M		chr	-	cat. no.							SEE TABLE	Product - Customer Drw	sheet 1 of 11						
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±°	Amphenol FCI		ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA		10124311	10
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±°																	



**RECOMMENDED PCB LAYOUT FOR
10124311-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no	-	rel level	Preliminary	
ASME Y14.5M		chr	-	appr							-
surface	linear	0.X	±.3	Amphenol FCI		title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA		dwg no 10124311		rev 10	
		0.XX	±.10								
		0.XXX	±.050								
	angular	0°	±°	cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11				



ADVANCED MATE POSITION A1 SEE NOTE 13

ADVANCED MATE POSITION A7 SEE NOTE 13

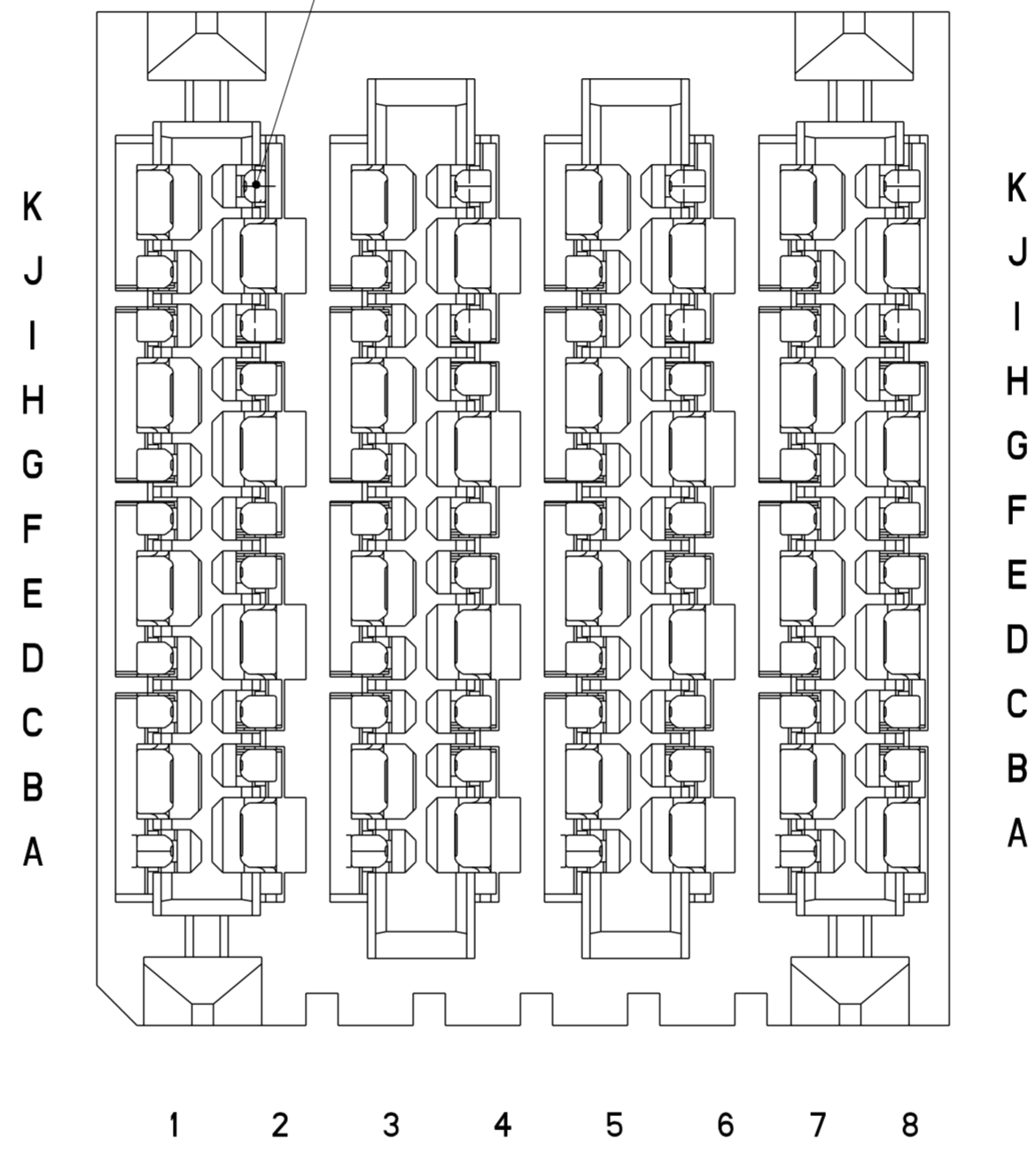
10124311-201LF
ADVANCED MATE CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no	-	rel level	Preliminary
ASME Y14.5M		chr	-	cat. no.			SEE TABLE	product family		
surface	- ✓	linear	0.X	±.3		title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	dwg no 10124311	rev 10	Product - Customer Drw	sheet 3 of 11
			0.XX	±.10						
			0.XXX	±.050						
		angular	0°	±°						

SHORT DETECT
POSITION K2
SEE NOTE 14

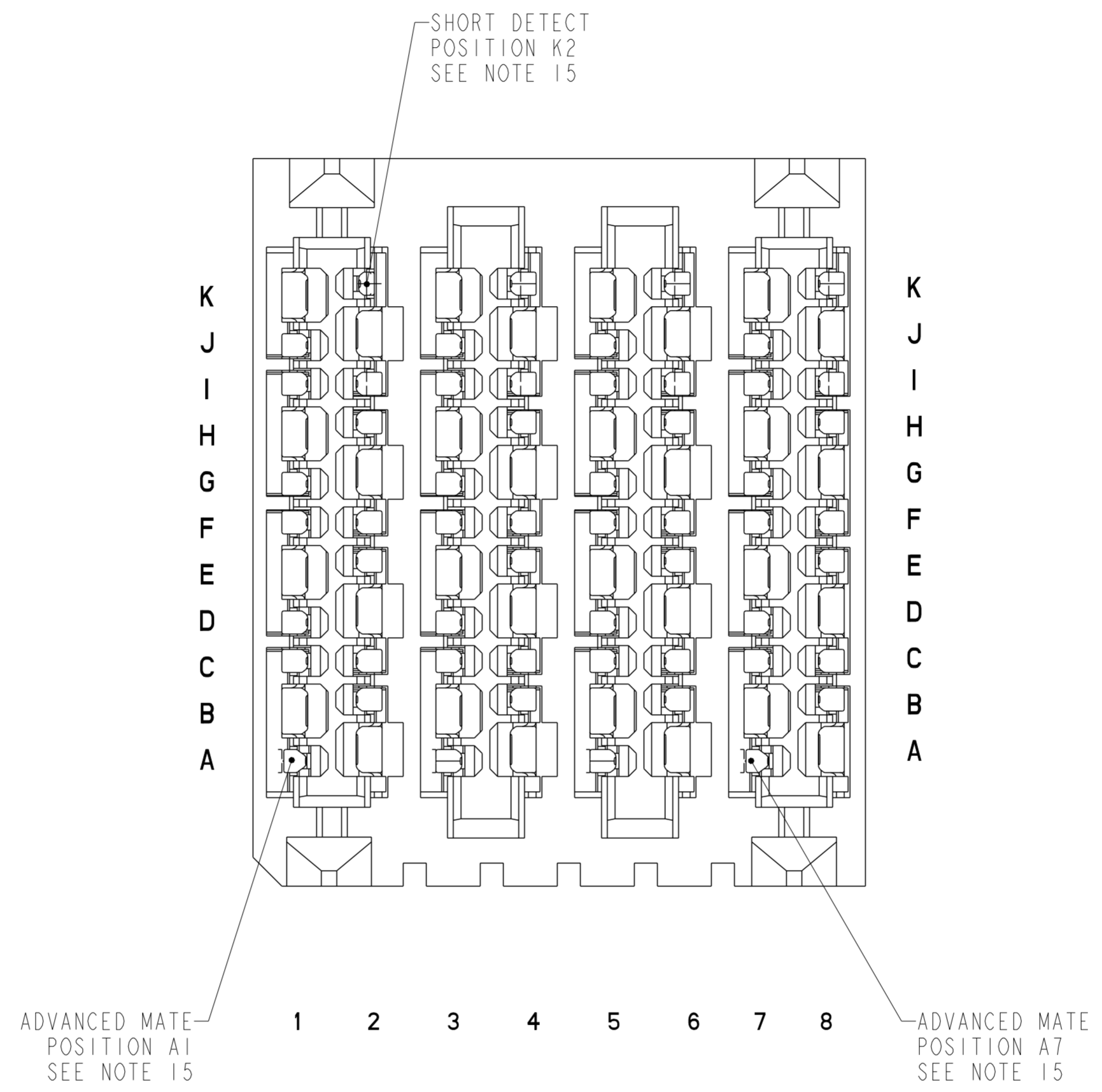


10124311-301LF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS K2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no	-	rel level	Preliminary
ASME Y14.5M		chr	-	product family			ExaMAX			
surface	linear angular	0.X	±.3	Amphenol FCi	title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	dwg no 10124311	rev 10	cat. no. SEE TABLE	Product - Customer Drw	sheet 4 of 11
		0.XX	±.10							
		0.XXX	±.050							
		0°	±°							



10124311-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
SHORT DETECT POSITION IS K2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	1:1	
tolerance std	ASME Y14.5M	eng	Terry Luo	2016/04/13			ecn no	-	rel level	Preliminary	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	product family			ExaMAX	rel level		Preliminary	
surface	- ✓	linear	0.X	±.3		title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	dwg no 10124311	rev 10	cat. no. SEE TABLE	Product - Customer Drw	sheet 5 of 11
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±°							

A

B

C

D

E

F

A

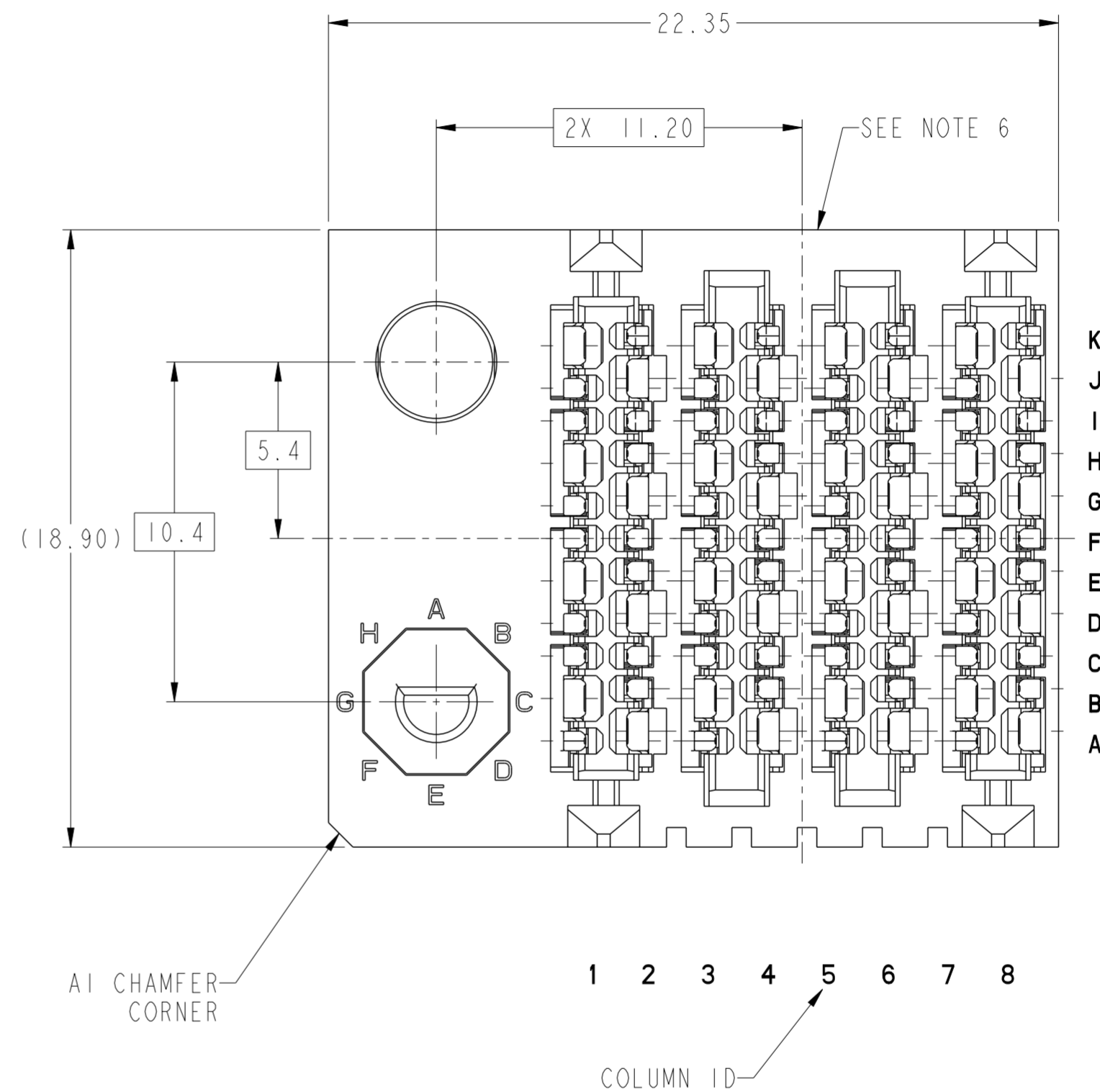
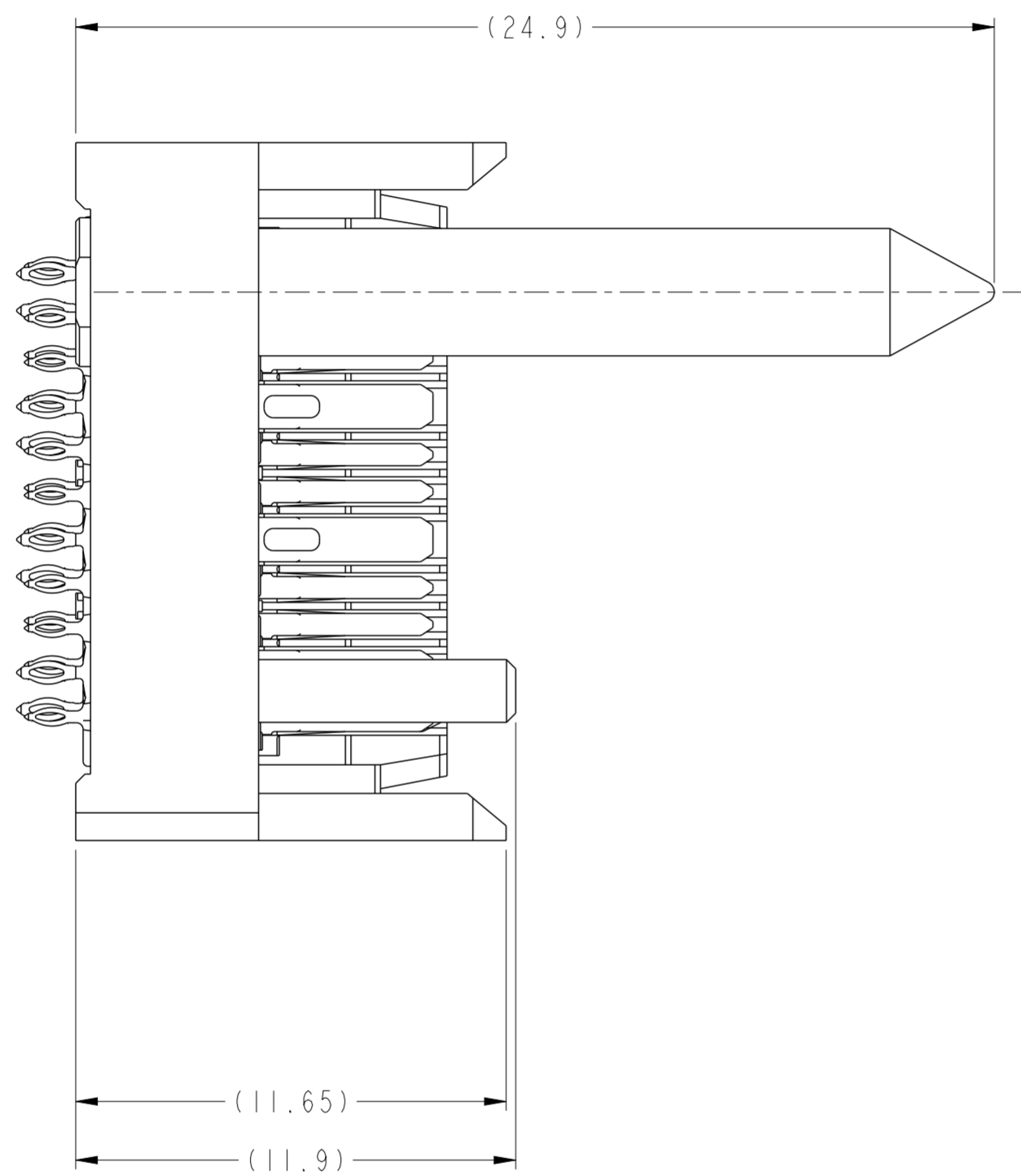
B

C

D

E

F

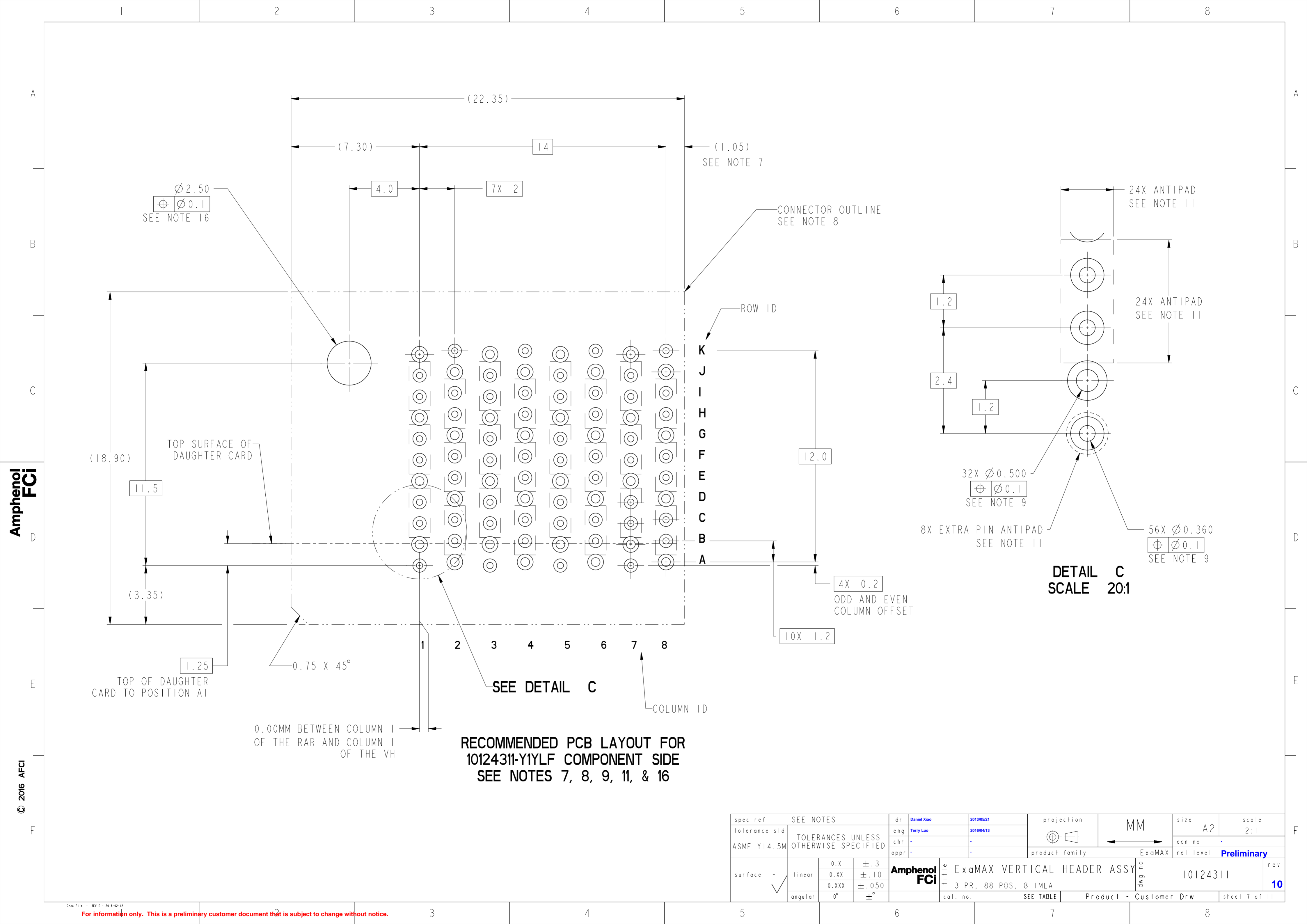


10124311-Y1ALF THRU -Y1JLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no	-	rel level	Preliminary
ASME Y14.5M		chr	-	cat. no.			SEE TABLE	Product - Customer Drw		
surface	linear angular	0.X	±.3	Amphenol FCI	title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	dwg no 10124311	rev 10			
		0.XX	±.10							
		0.XXX	±.050							
		0°	±°							



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**RECOMMENDED PCB LAYOUT FOR
10124311-Y1YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16**

**DETAIL C
SCALE 20:1**

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no	-	rel level	Preliminary	
ASME Y14.5M		chr	-	appr							-
surface	linear	0.X	±.3		product family		ExaMAX	title		ExaMAX VERTICAL HEADER ASSY	
		0.XX	±.10		3 PR, 88 POS, 8 IMLA		dwg no	10124311		rev	10
	angular	0°	±°		cat. no.	SEE TABLE	Product - Customer Drw	sheet 7 of 11			

A

B

C

D

E

F

A

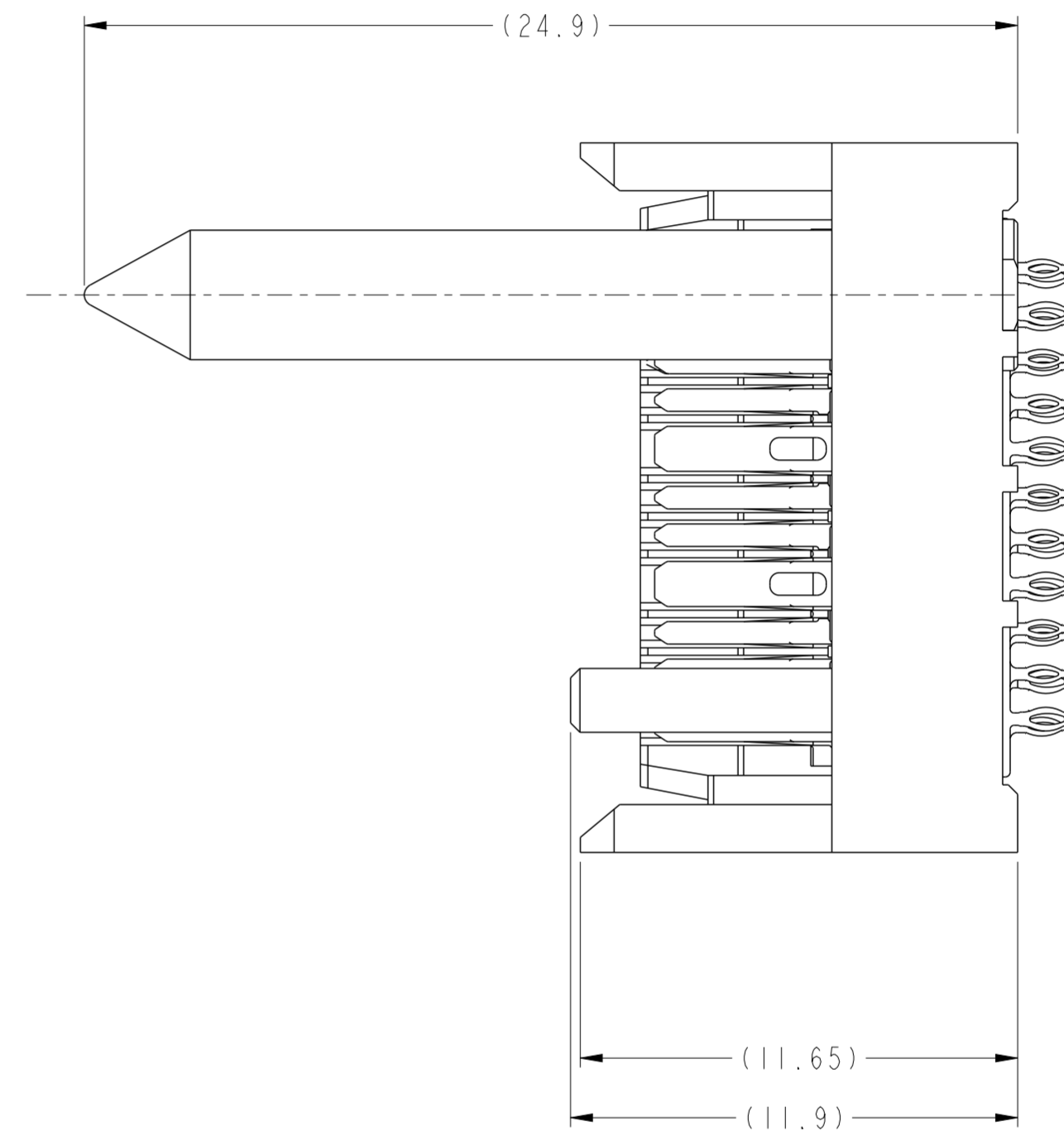
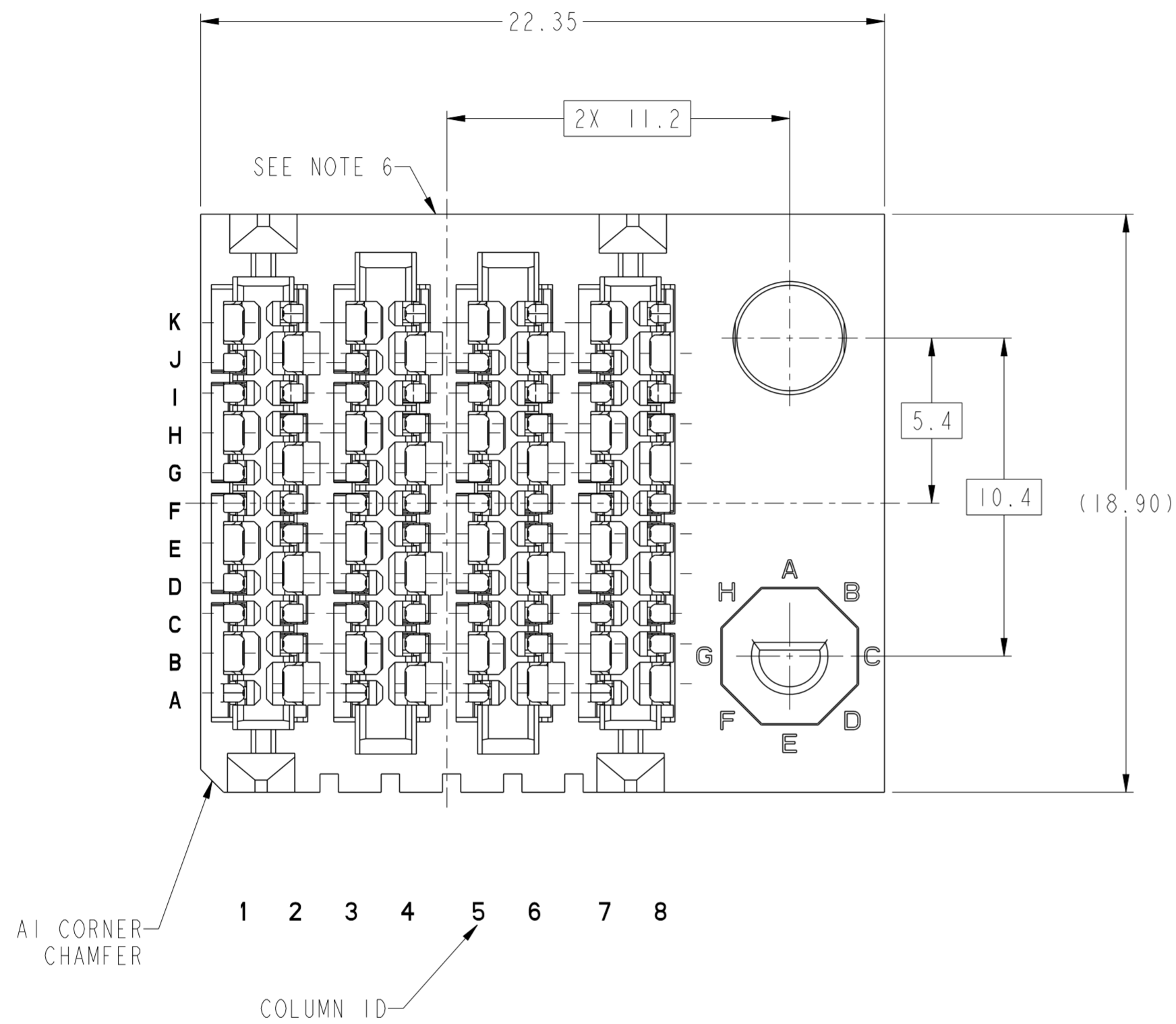
B

C

D

E

F



10124311-Y2ALF THRU -Y2JLF
 LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1							
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13		MM	A2	-	-	-							
ASME Y14.5M		chr	-	appr							-	ecn no	-	rel level	Preliminary		
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±°	product family	ExaMAX	rel level	Preliminary
linear	0.X	±.3															
	0.XX	±.10															
	0.XXX	±.050															
angular	0°	±°															
		Amphenol FCi	title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA		dwg no 10124311	rev 10											
			cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11											

A

B

C

D

E

F

A

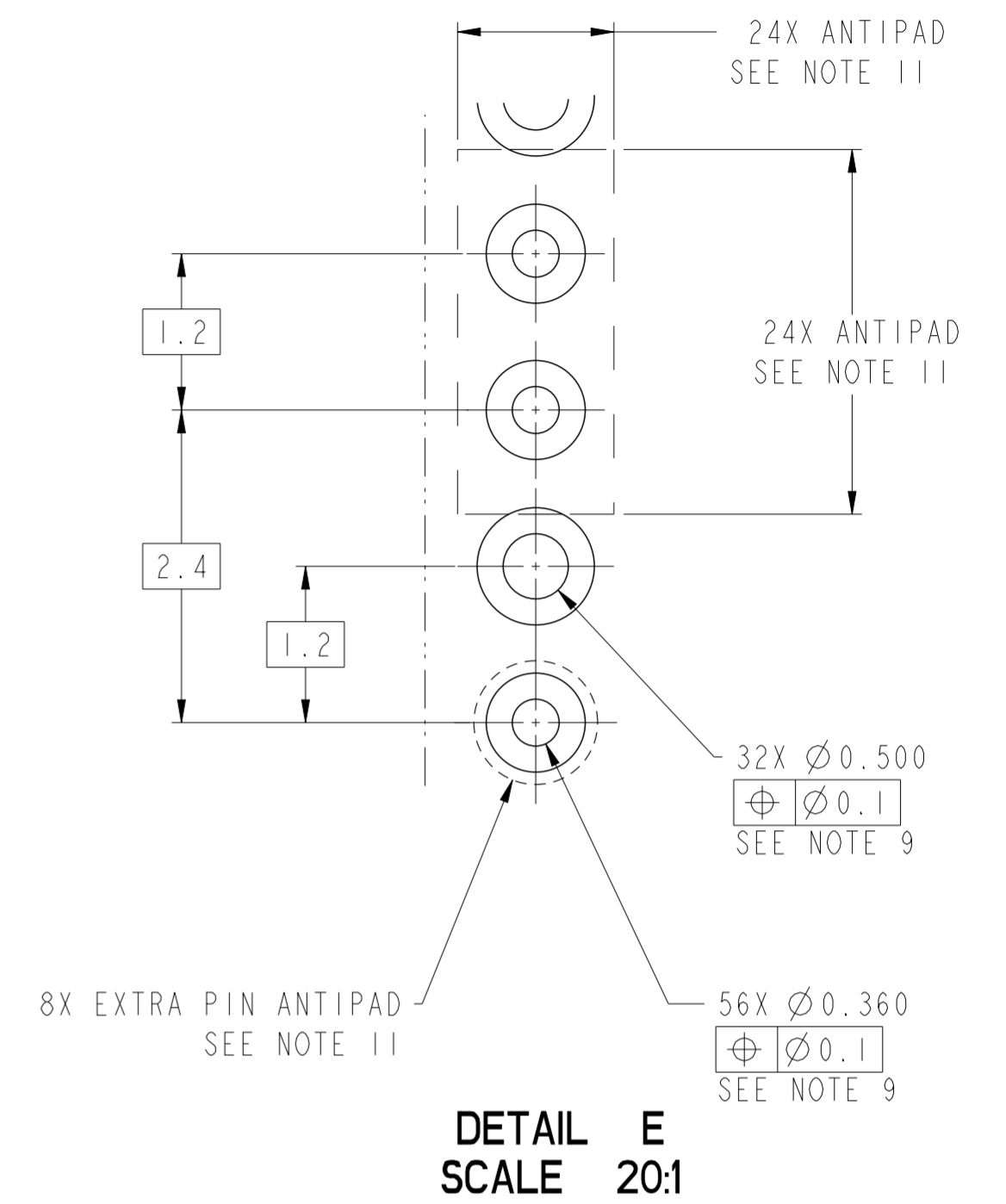
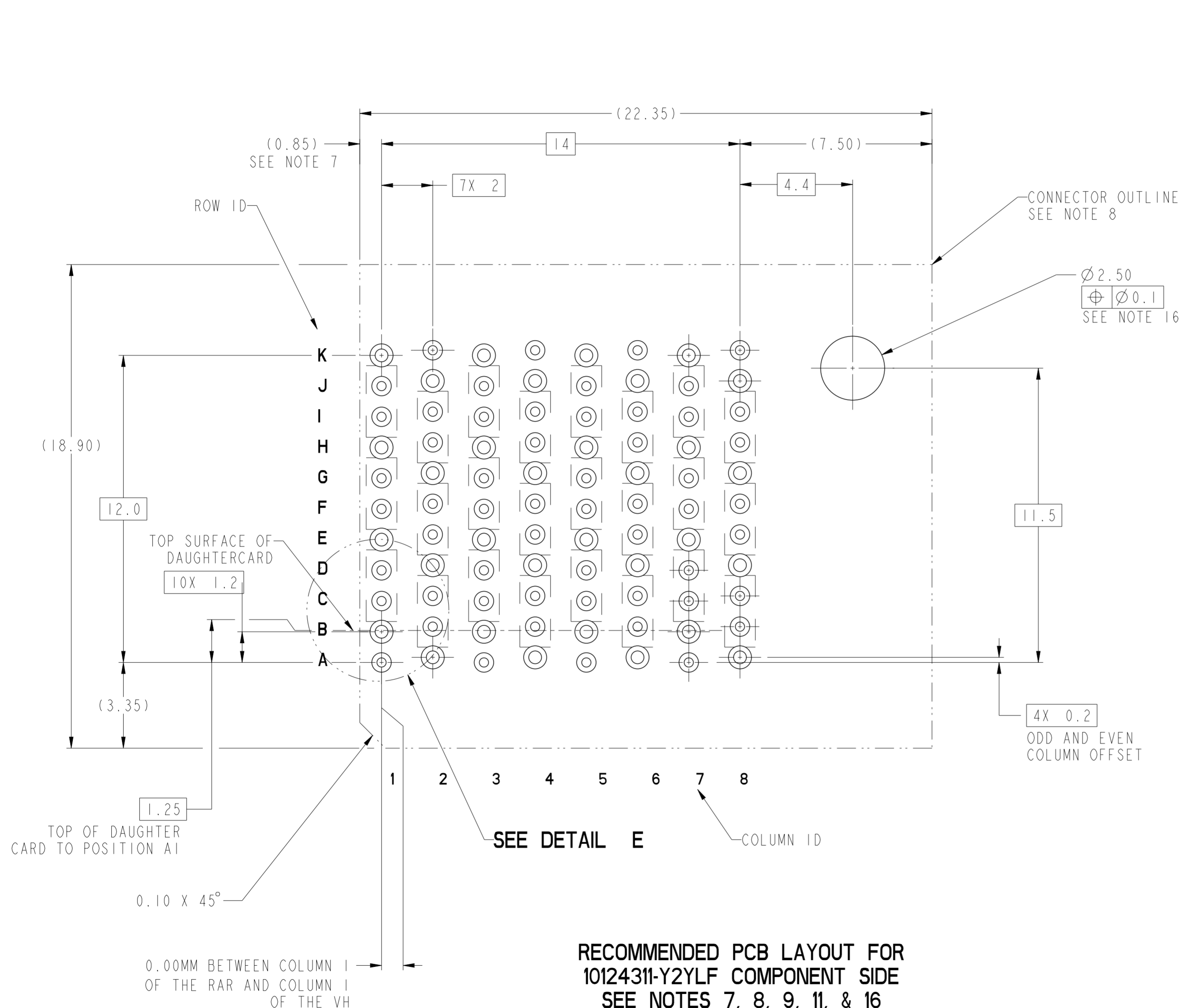
B

C

D

E

F



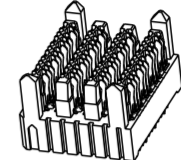
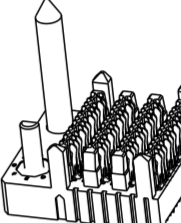
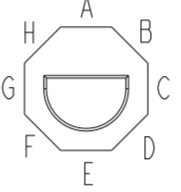
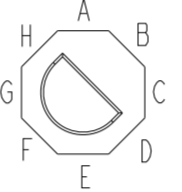
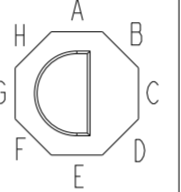
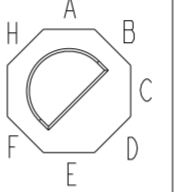
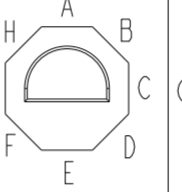
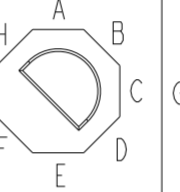
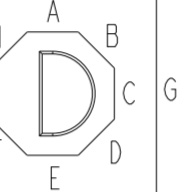
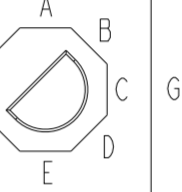
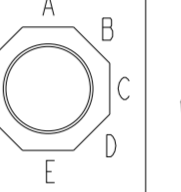
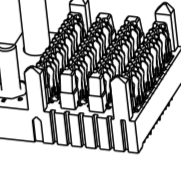
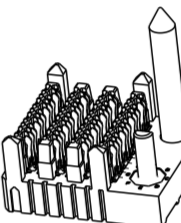
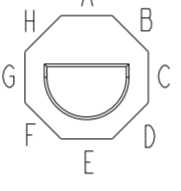


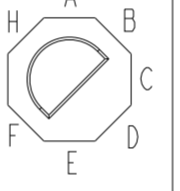
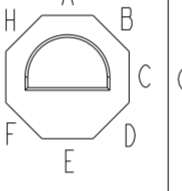
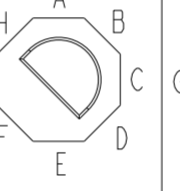
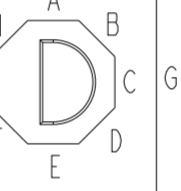
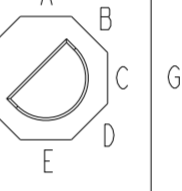
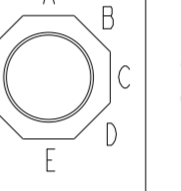
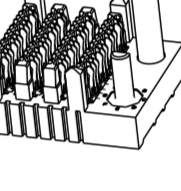
**RECOMMENDED PCB LAYOUT FOR 10124311-Y2YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16**

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no.	-	rel level	Preliminary
ASME Y14.5M		chr	-	appr						
surface	linear	0.X	$\pm .3$			title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA		dwg no. 10124311		rev 10
		0.XX	$\pm .10$							
		0.XXX	$\pm .050$							
	angular	0°	\pm	cat. no.	SEE TABLE	Product - Customer Drw	sheet 9 of 11			


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10124311 - Y Y Y L F

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
STANDARD NO GUIDANE (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)		
											

ASSEMBLY PART NUMBER	DESCRIPTION
10124311-1YYLF	STANDARD MATE
10124311-2YYLF	ADVANCED MATE
10124311-3YYLF	SHORT DETECT
10124311-4YYLF	ADVANCED MATE & SHORT DETECT

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13		← →	ecn no	-	rel level	Preliminary
ASME Y14.5M		chr	-	-						
surface		linear	0.X	±.3						
			0.XX	±.10						
	0.XXX	±.050								
	angular	0°	±°							
Amphenol FCI		title		ExdMAX VERTICAL HEADER ASSY		cat. no.		SEE TABLE		Product - Customer Drw
		3 PR, 88 POS, 8 IMLA		divg no		10124311		rev		10
										sheet 10 of 11

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NOTES

- ①- CONNECTOR MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
CONTACT: COPPER ALLOY
GUIDE PIN: ZINC ALLOY
POLARIZING PIN: ZINC ALLOY
- 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 WILL BE 2.0 mm OR 3.0 mm AS DEFINED BY NOTE 7 ON THE MATING RECEPTACLE CUSTOMER DRAWING. 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 THE APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTHS, 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 HEADER, 10124311-2YYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑭- THE SHORT DETECT HEADER, 10124311-3YYLF, WHEN MATED WITH A STANDARD MATE RECEPTACLE WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮- THE ADVANCED MATE/SHORT DETECT HEADER, 10124311-4YYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE 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, ONE PHILLIPS PAN HEAD M2 HOLD DOWN SCREW MUST BE USED TO SECURE GUIDE PIN/CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE 2.0 - 6.0mm PLUS THE THICKNESS OF THE BOARD. SCREW IS 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 ANGEL RECEPTACLE. THE LEFT / RIGHT DESIGNATION OF THE MATING HEADER IS DEFINED BY THE RIGHT ANGEL RECEPTACLE THAT IT MATES WITH (i. e. A RIGHT GUIDE VERTICAL HEADER MATES A RIGHT GUIDE RIGHT ANGEL RECEPTACLE.)
- ⑱- ALL GROUND CONTACTS WITHIN A COLUMN ARE COMMONED.

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2016/04/13			ecn no	-	rel level	
ASME Y14.5M		chr	-	product family			ExaMAX	Preliminary		
surface	<input checked="" type="checkbox"/> linear		0.X	±.3	Amphenol FCI	title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	dwg no 10124311	rev 10		
			0.XX	±.10						
			0.XXX	±.050						
	<input type="checkbox"/> angular		0°	±°	cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11		

Amphenol FCI

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