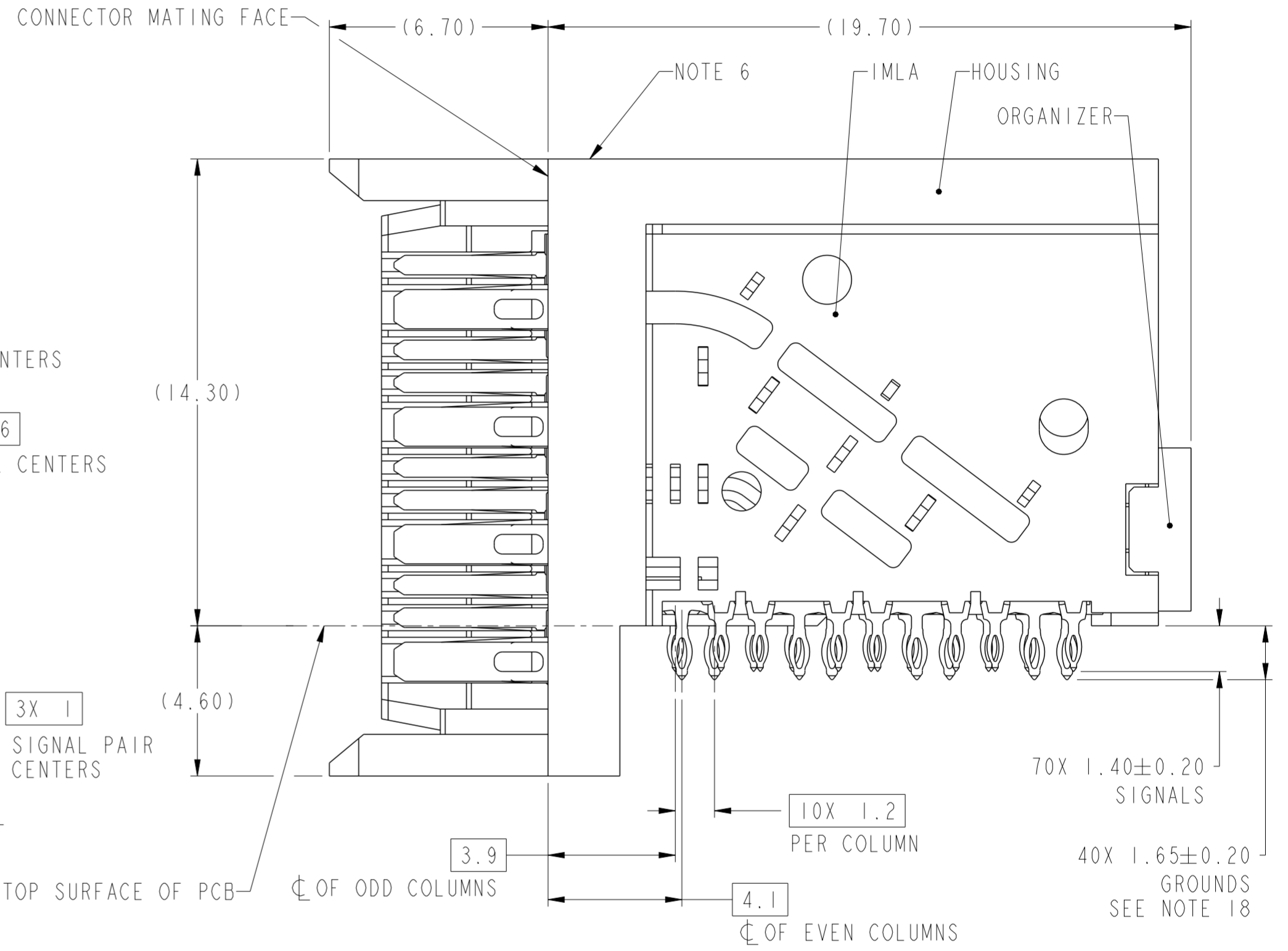
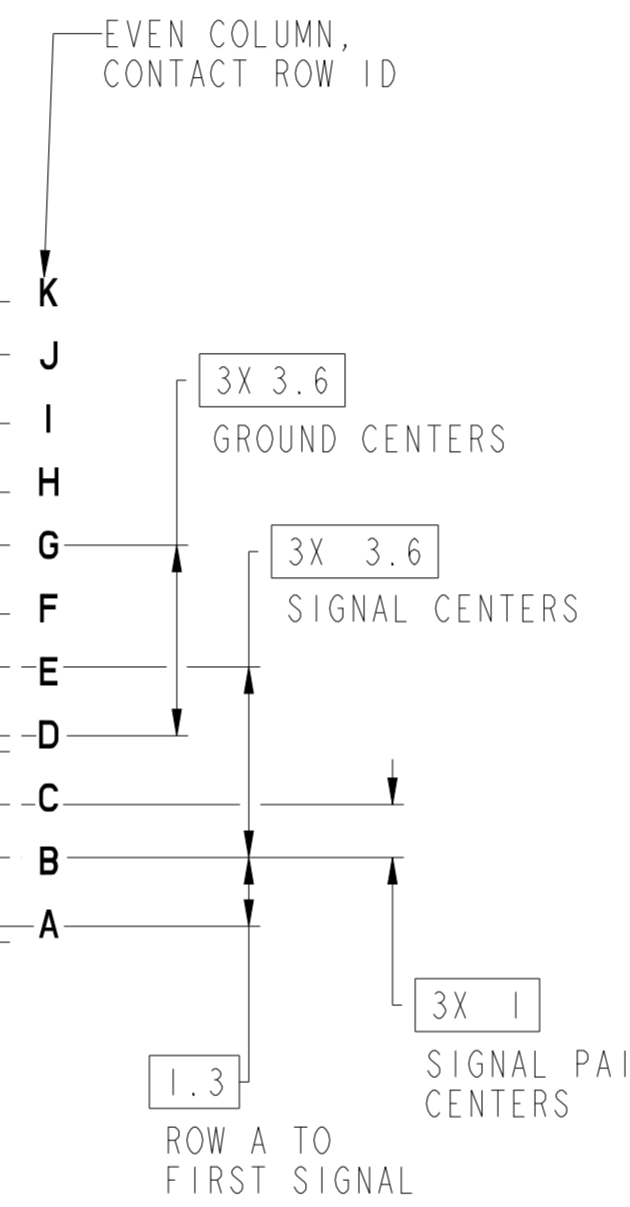
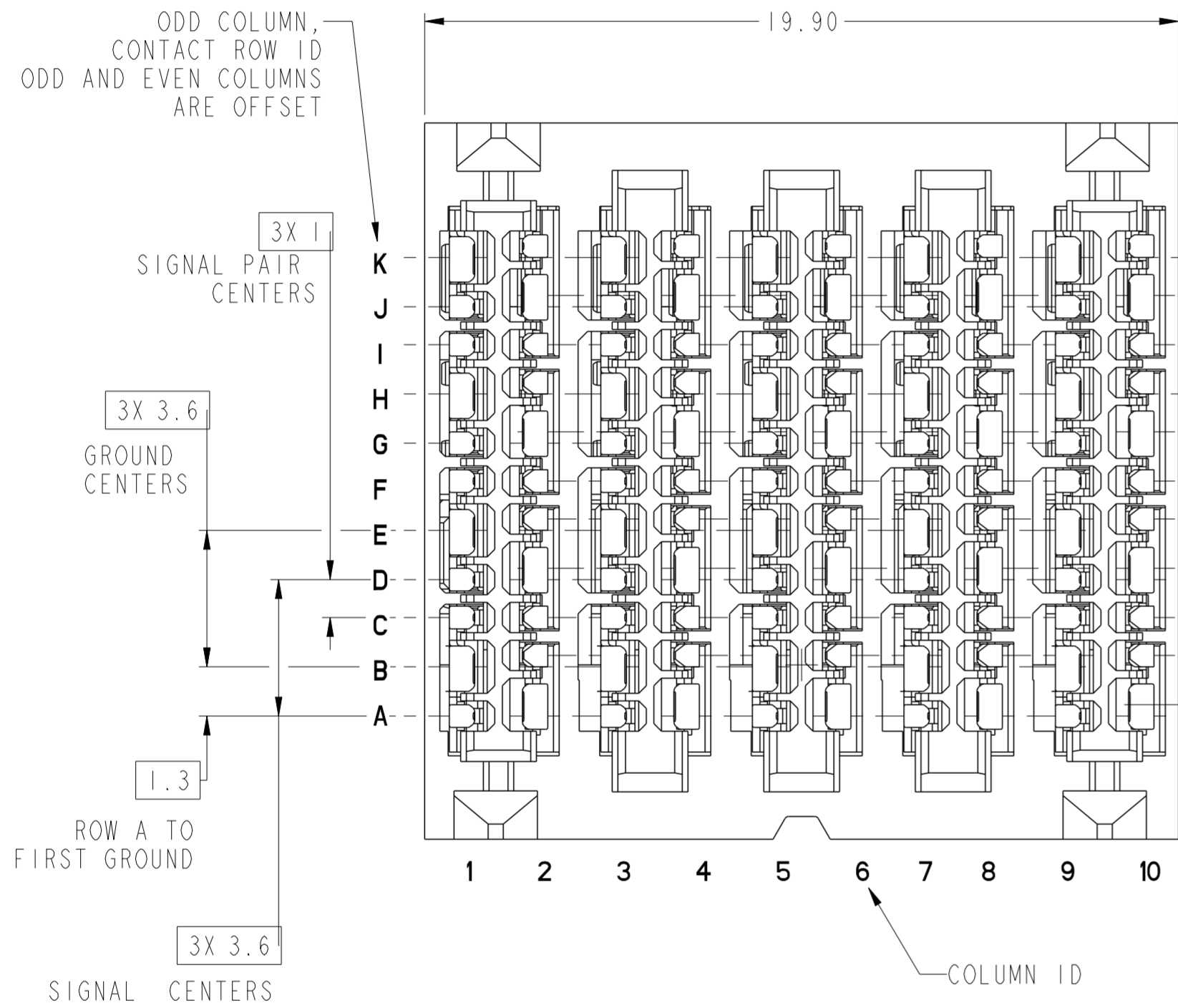
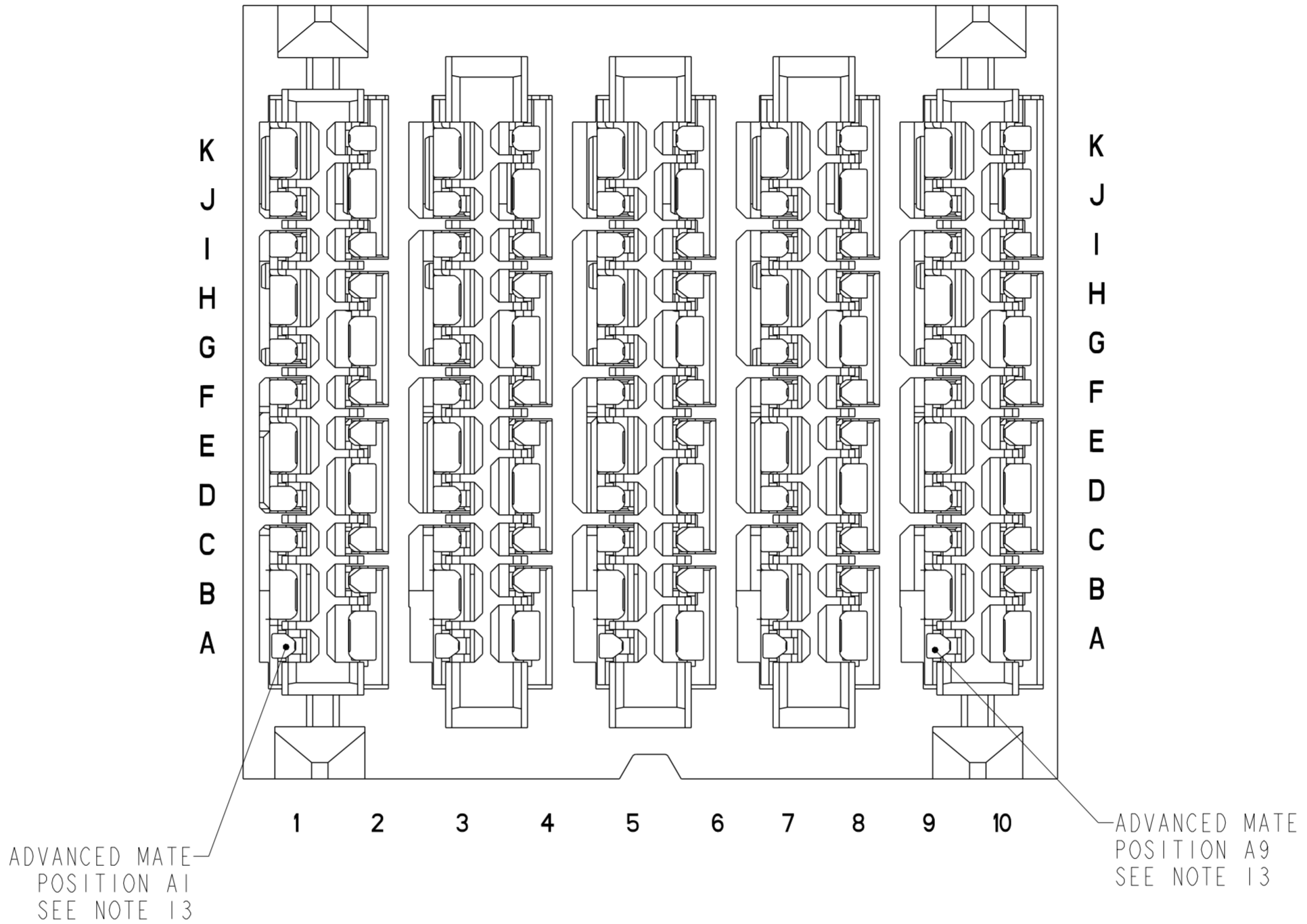


PRODUCT NUMBER
SEE SHEET 10



10128417-101LF
STANDARD MATE CONNECTOR

spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	7:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1	rel level Released	rev B	
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX			rel level
		appr	Heaven Cen	2017/11/30			title ExaMAX RIGHT-ANGLE HDR ASSY 3 PR, 110 POS, 10 IMLA				dwg no 10128417
surface	linear 0.X ±.3 0.XX ±.10 0.XXX ±.050 angular 0° ±°	Amphenol FCI		cat. no. SEE TABLE	Product - Customer Drw		sheet 1 of 11				

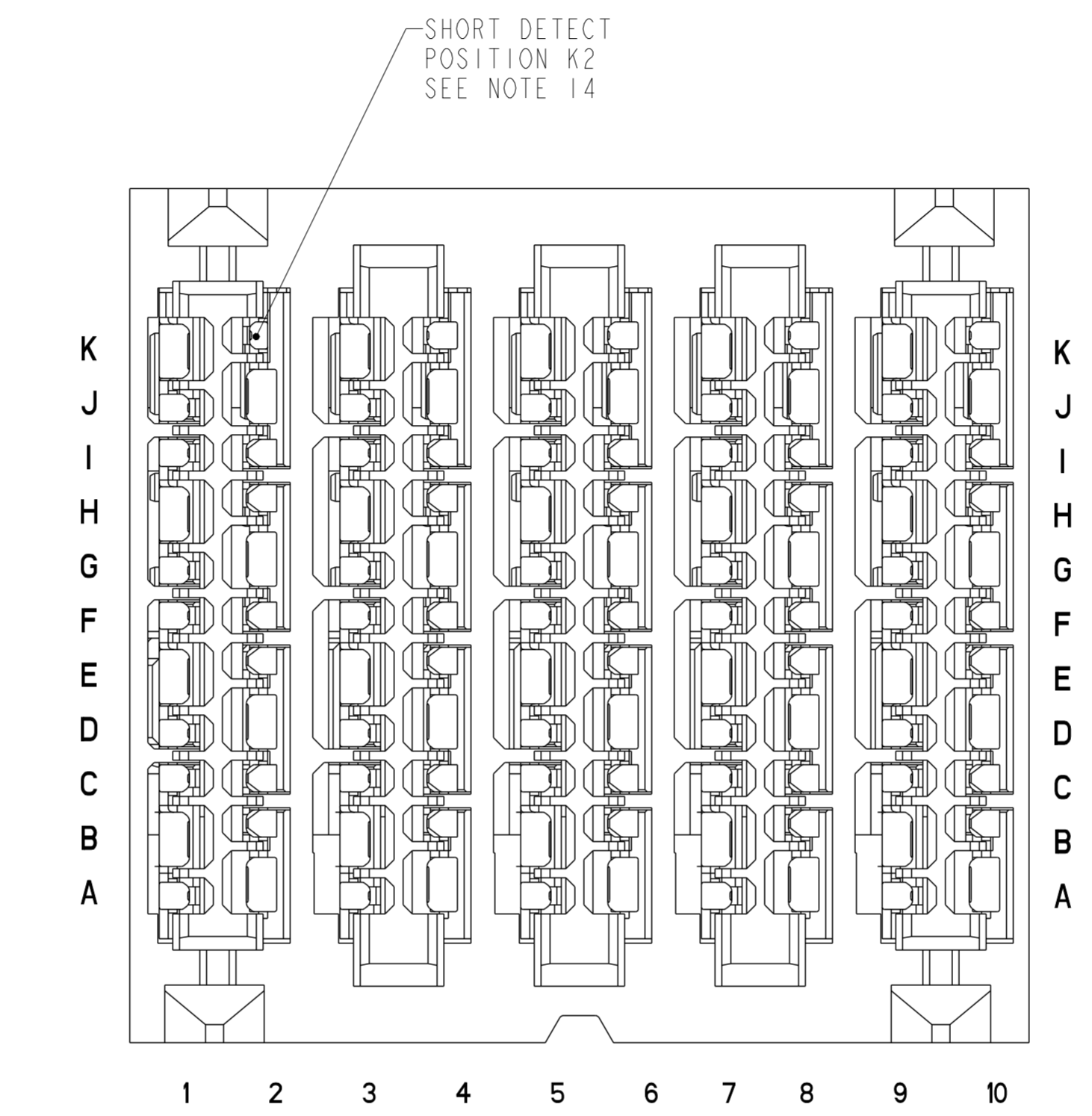


10128417-201LF
ADVANCED MATE CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
 FOR ALL OTHER DIMENSIONS SEE 10128417-101LF ON SHEET 1

Amphenol
FCi

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spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	3:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released														
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°	±°	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		Amphenol FCi	title			ExaMAX RIGHT-ANGLE HDR ASSY			dwg no	10128417	rev	B										
			3 PR, 110 POS, 10 IMLA			cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11													

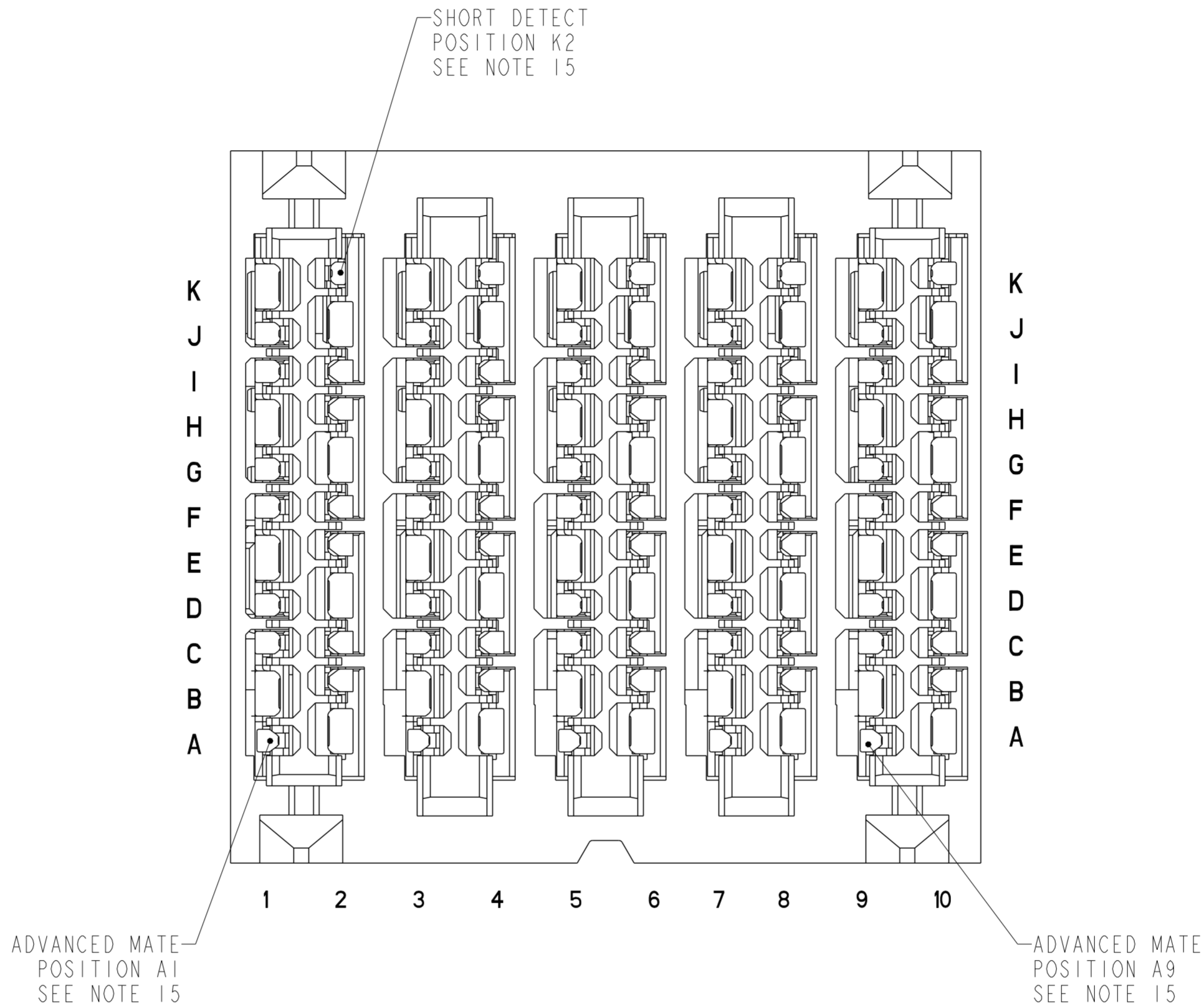


10128417-301LF
 SHORT DETECT CONNECTOR
 SHORT DETECT POSITION IS K2 ONLY
 FOR ALL OTHER DIMENSIONS SEE 10128417-101LF ON SHEET 1

Amphenol
FCi

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spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	6:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1			
surface	✓ linear 0.X ±.3 0.XX ±.10 0.XXX ±.050 angular 0° ±°	chr	Justin Chen	2017/11/29			rel level	Released			
		appr	Heaven Cen	2017/11/30			product family	ExaMAX			
					title ExaMAX RIGHT-ANGLE HDR ASSY 3 PR, 110 POS, 10 IMLA		dwg no 10128417	rev B			
		cat. no.			SEE TABLE	Product - Customer Drw			sheet 3 of 11		

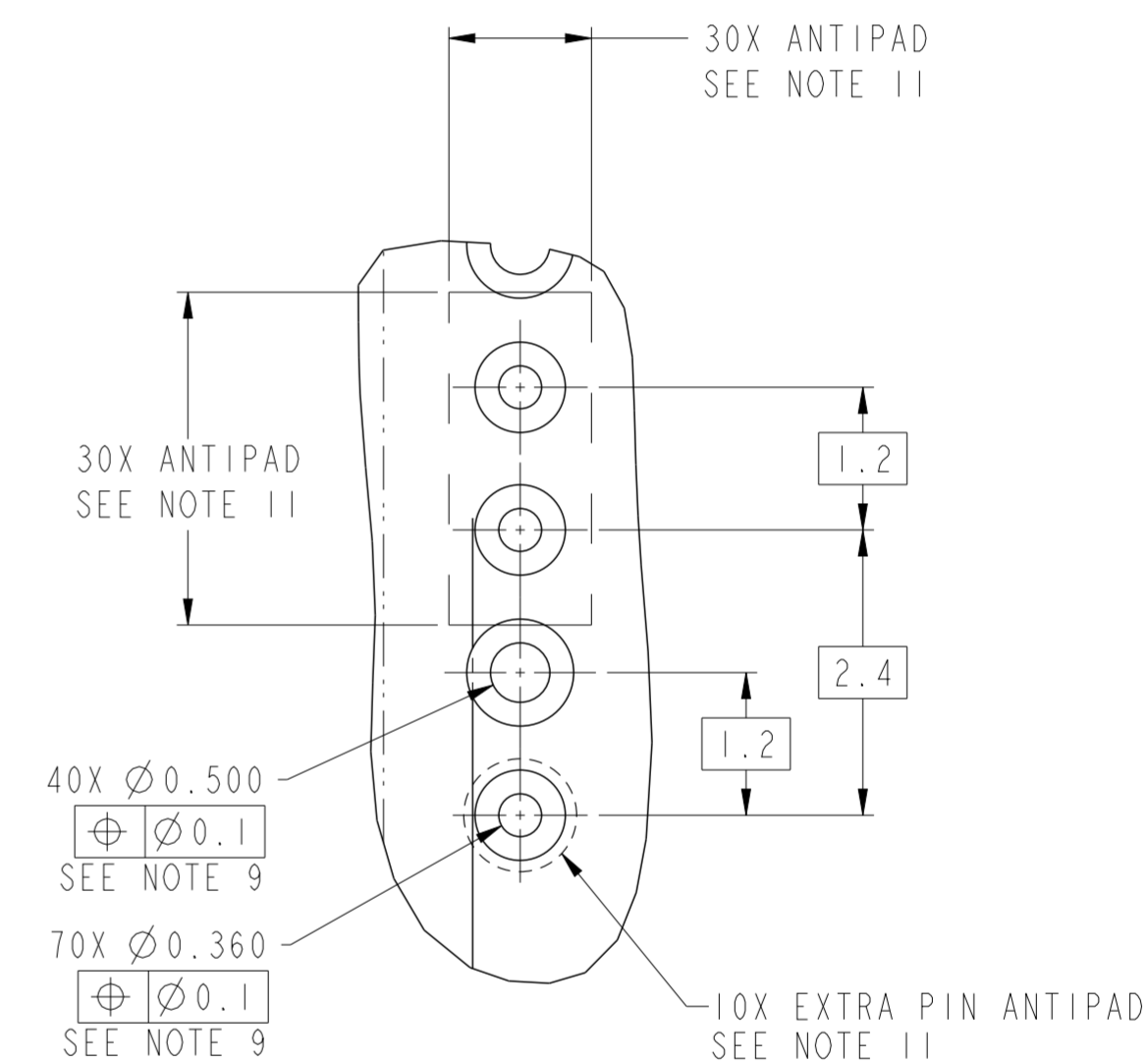
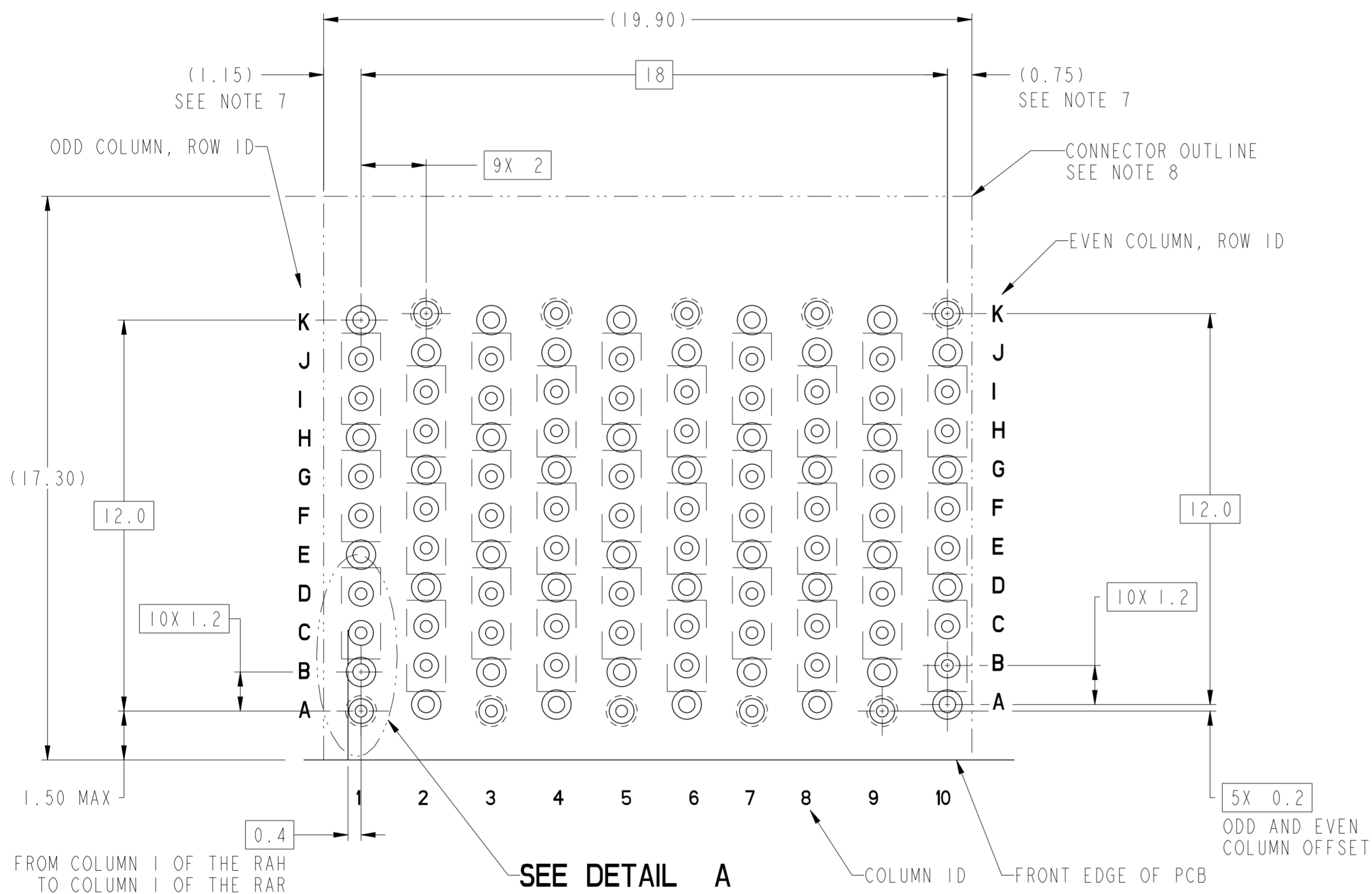


10128417-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
 SHORT DETECT POSITION IS K2 ONLY
 FOR ALL OTHER DIMENSIONS SEE 10128417-101LF ON SHEET 1

**Amphenol
FCi**

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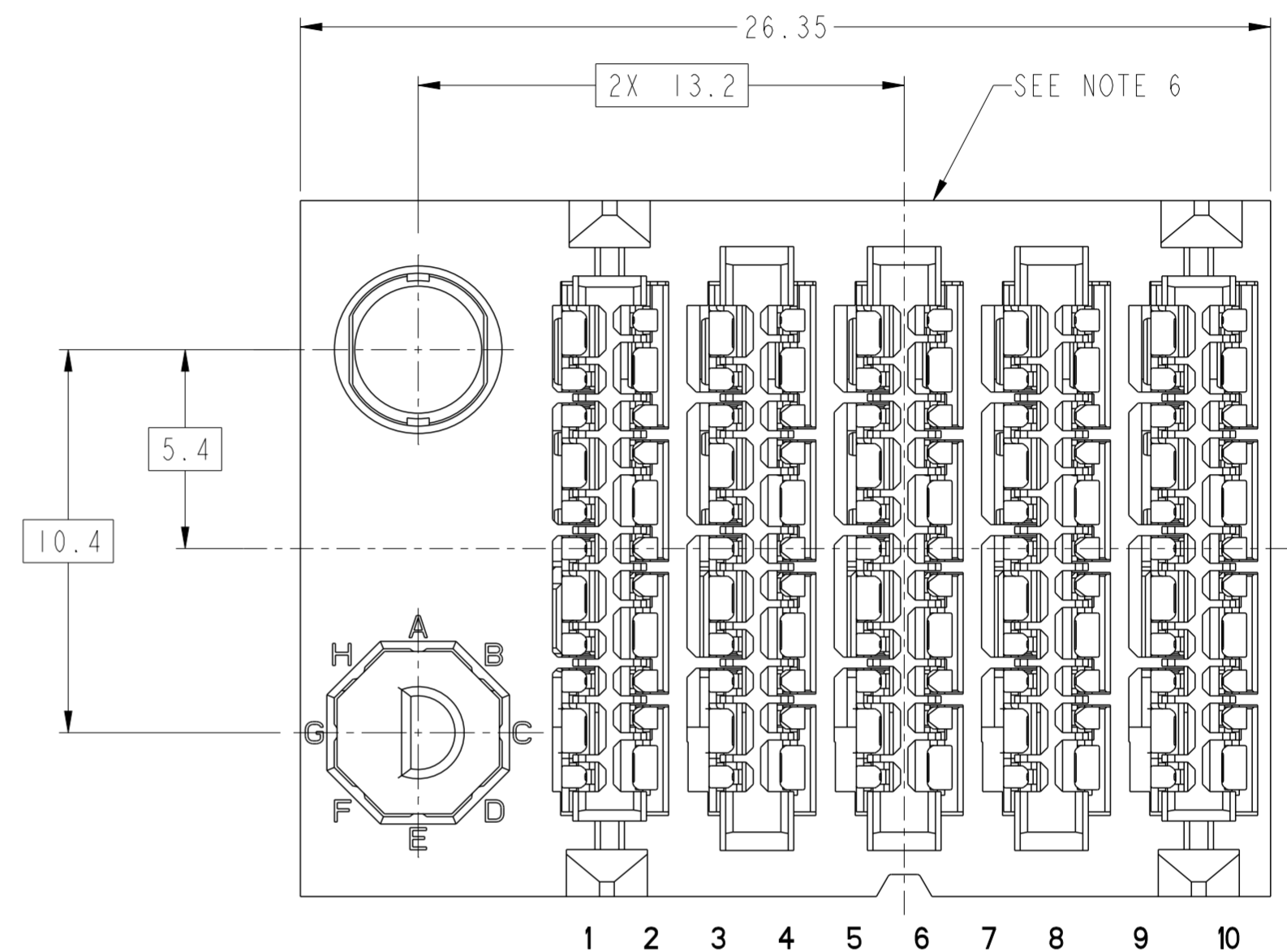
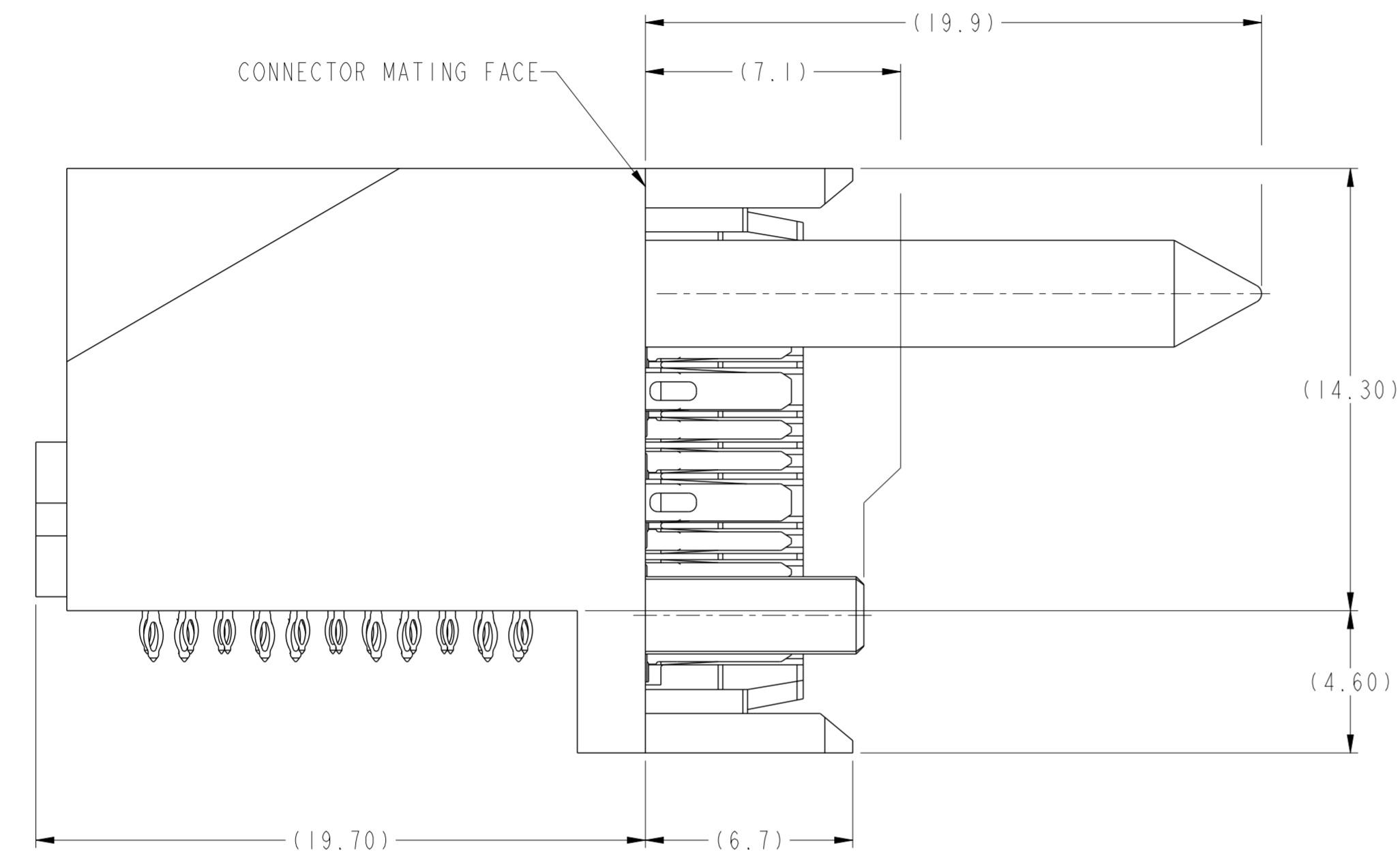
spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released														
surface	<table border="1"> <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°	±°	appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
					title	ExaMAX RIGHT-ANGLE HDR ASSY		dwg no	10128417													
					3 PR, 110 POS, 10 IMLA	cat. no.	SEE TABLE	Product - Customer Drw	sheet 4 of 11	rev	B											



DETAIL A
SCALE 16:1

**RECOMMENDED PCB LAYOUT FOR
10128417-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	1:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1													
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released													
		appr	Heaven Cen	2017/11/30			product family	ExaMAX													
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°	±°			title ExaMAX RIGHT-ANGLE HDR ASSY 3 PR, 110 POS, 10 IMLA		dwg no 10128417	rev B		
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±°																			
		cat. no.	SEE TABLE		Product - Customer Drw		sheet 5 of 11														



10128417-Y1ALF THRU -Y1JLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	6:1																					
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1																							
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released																							
		appr	Heaven Cen	2017/11/30			product family	ExaMAX																							
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°	±°		<table border="1"> <tr> <td>title</td> <td>ExaMAX RIGHT-ANGLE HDR ASSY</td> <td>dwg no</td> <td>10128417</td> <td>rev</td> <td>B</td> </tr> <tr> <td></td> <td>3 PR, 110 POS, 10 IMLA</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	title	ExaMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	rev	B		3 PR, 110 POS, 10 IMLA					cat. no.	SEE TABLE	Product - Customer Drw	sheet 6 of 11
linear	0.X	±.3																													
	0.XX	±.10																													
	0.XXX	±.050																													
angular	0°	±°																													
title	ExaMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	rev	B																										
	3 PR, 110 POS, 10 IMLA																														

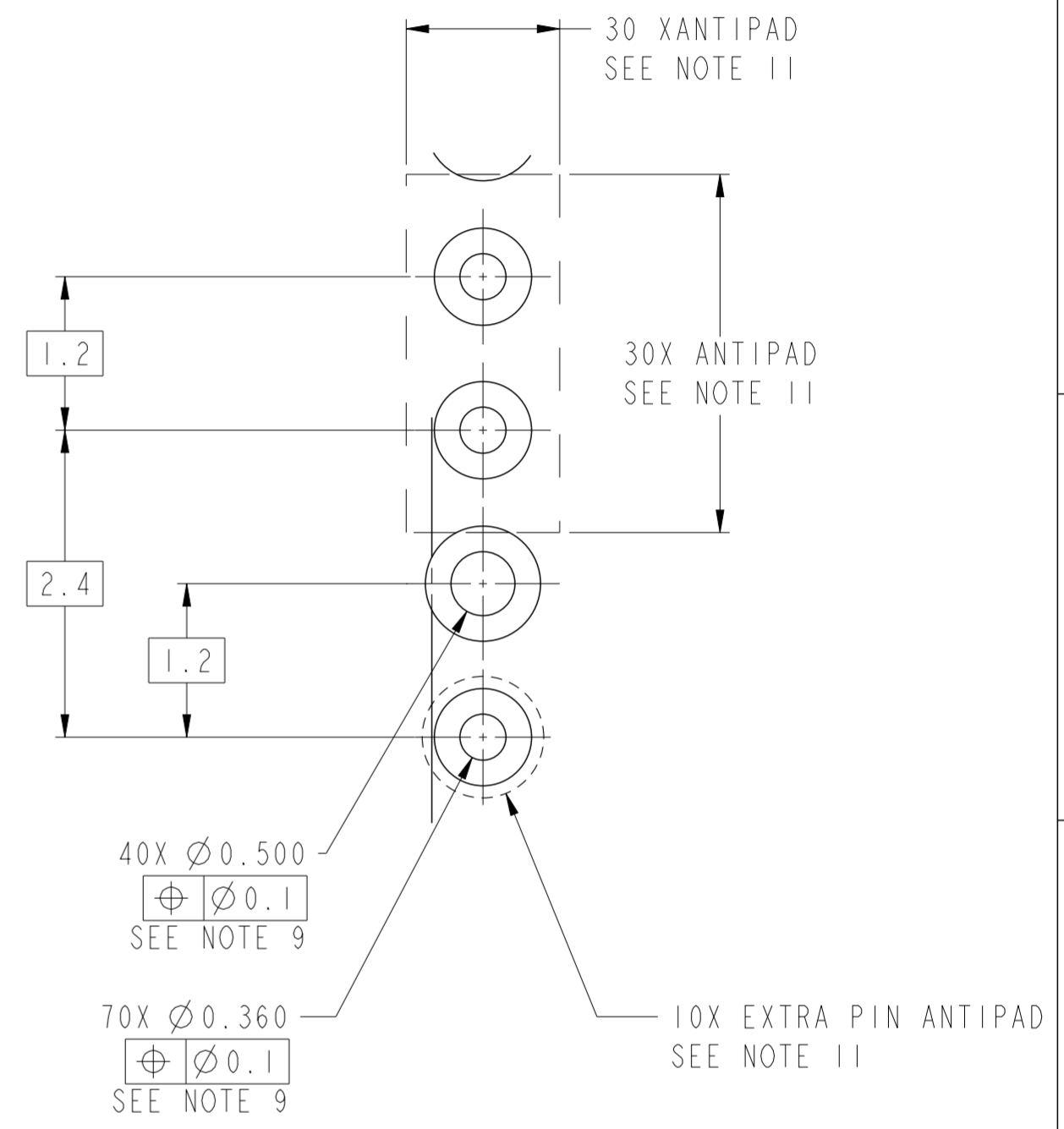
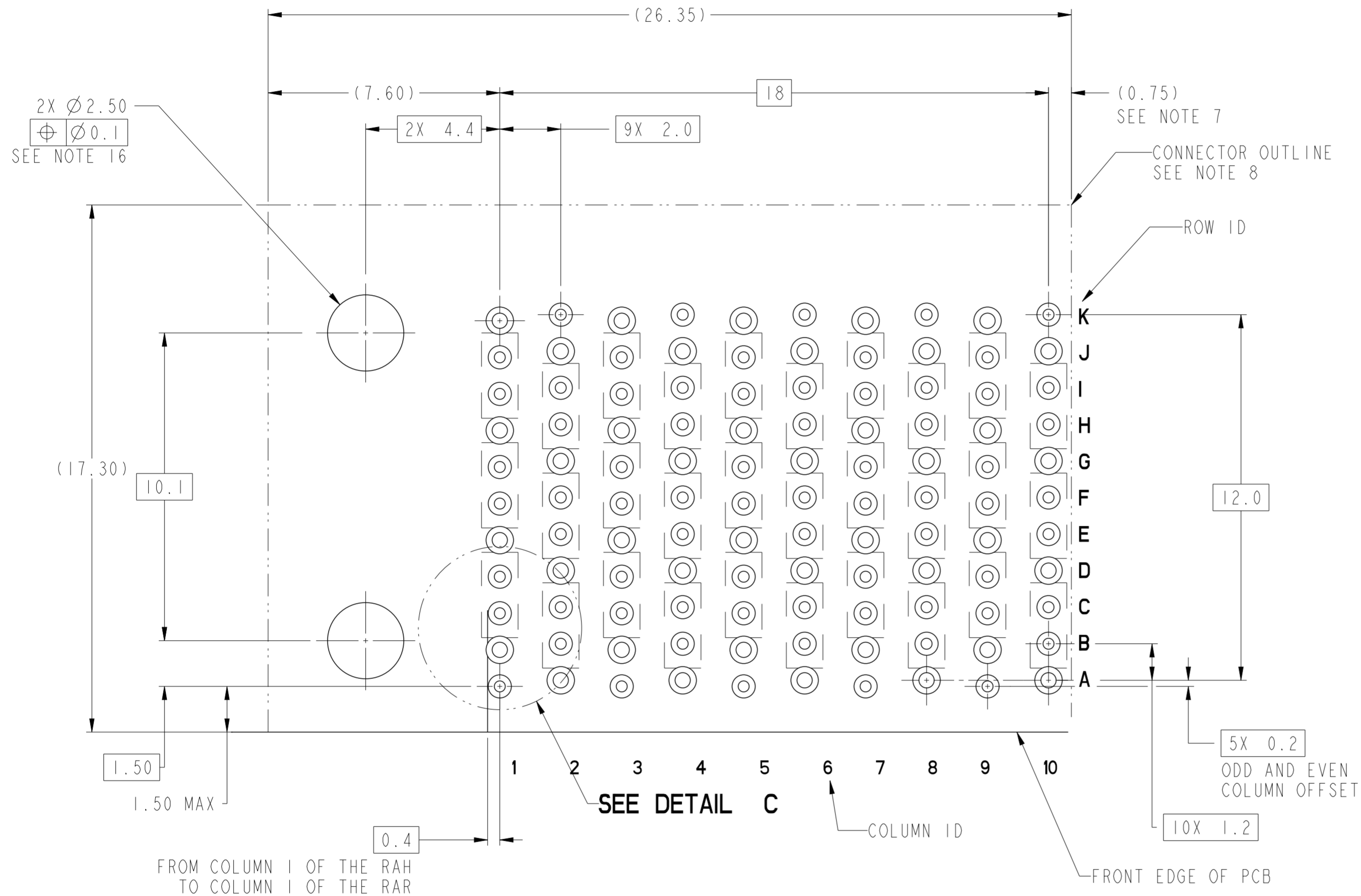
PDS: Rev :B

STATUS:Released

Printed: Dec 12, 2017

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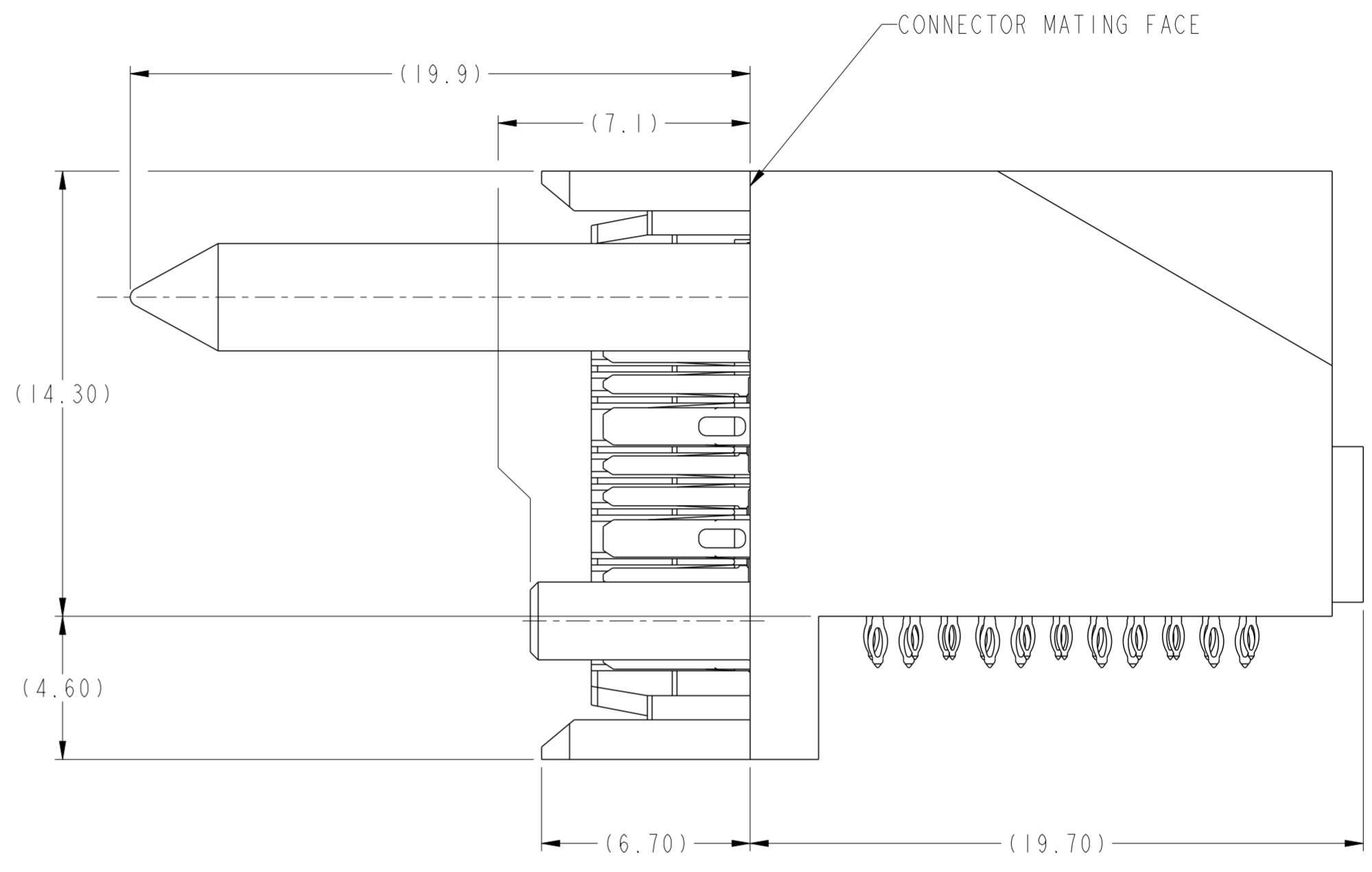
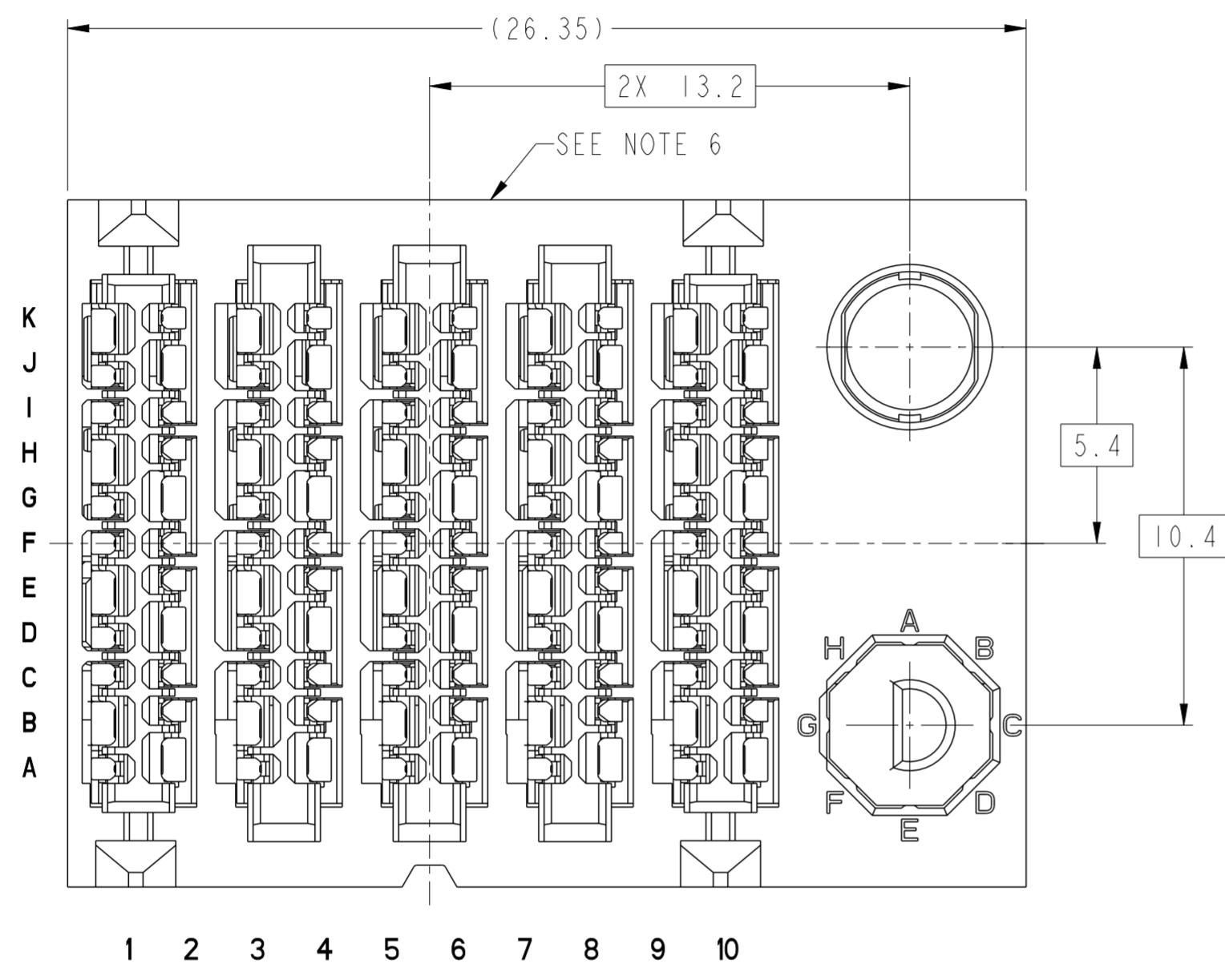


**RECOMMENDED PCB LAYOUT FOR
10128417-Y1ALF THRU -Y1JLF
w/RIGHT GUIDANCE
COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16**

spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1	rel level Released	rev B	
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX			rel level
		appr	Heaven Cen	2017/11/30			cat. no.	SEE TABLE			Product - Customer Drw
surface	linear 0.X ±.3 0.XX ±.10 0.XXX ±.050 angular 0° ±°	Amphenol FCI		title ExaMAX RIGHT-ANGLE HDR ASSY 3 PR, 110 POS, 10 IMLA		div no 10128417					

Amphenol FCI

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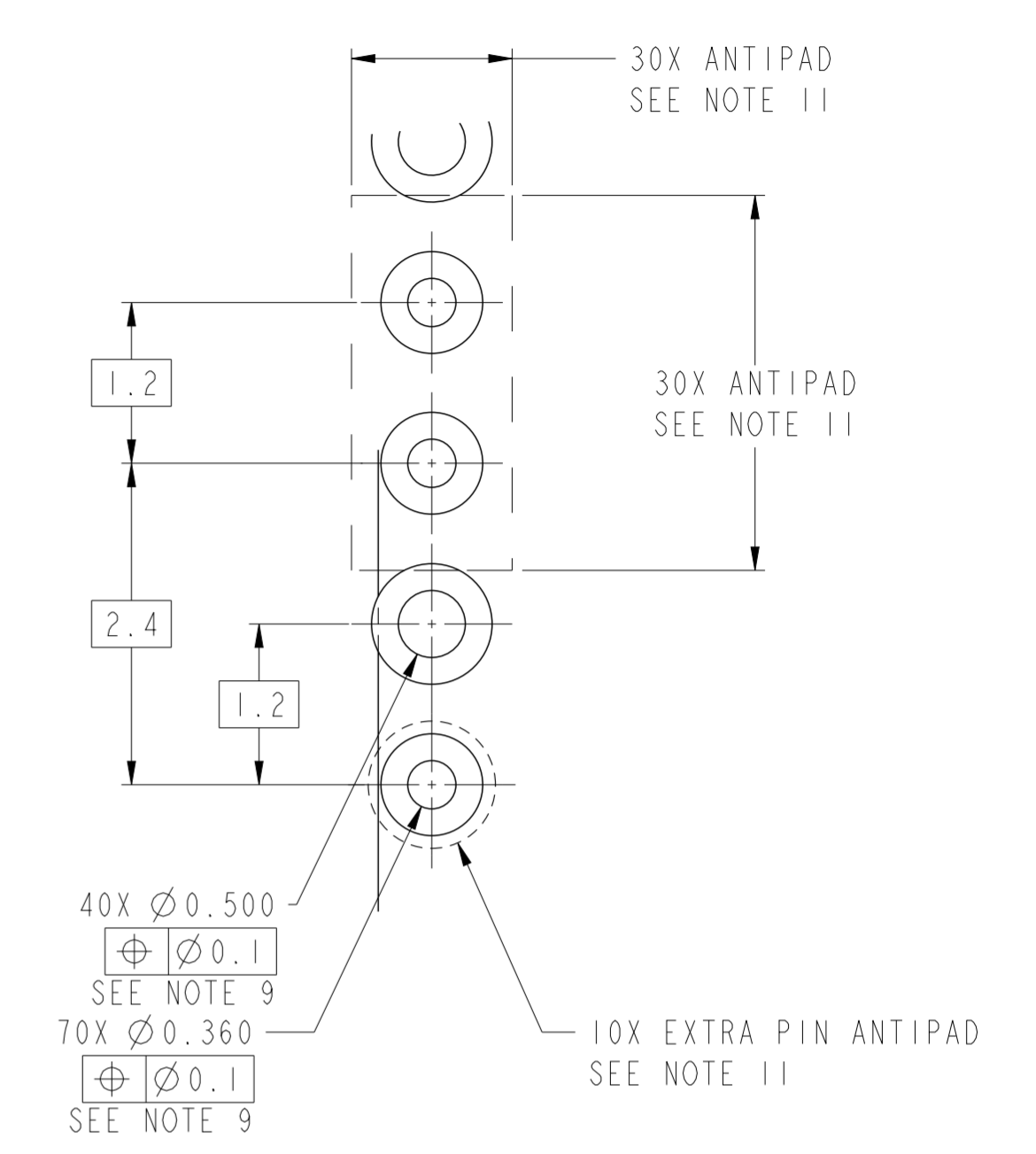
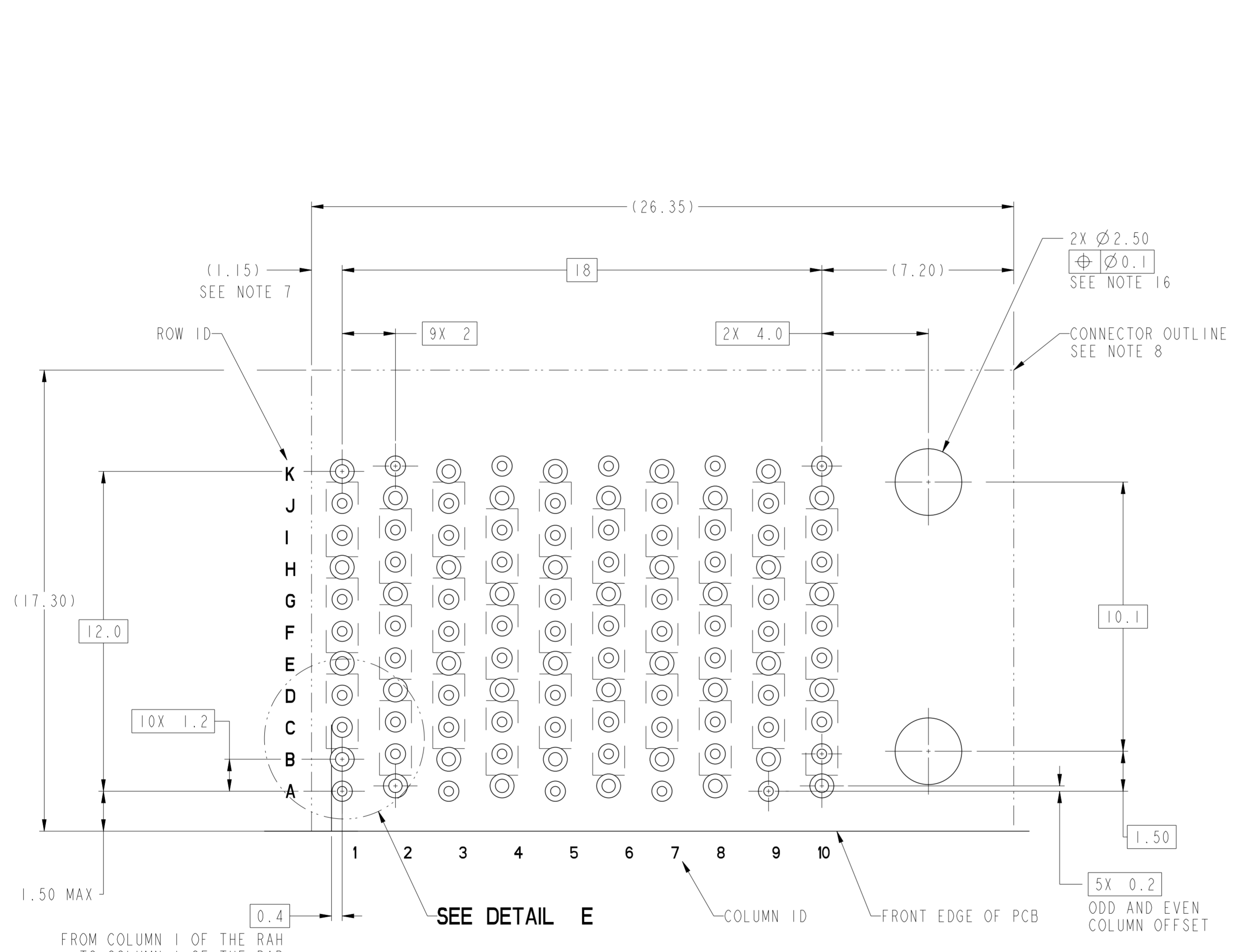


10128417-Y2ALF THRU -Y2JLF
 LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol
 FCI

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spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released														
		appr	Heaven Cen	2017/11/30			product family	ExaMAX														
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	title ExaMAX RIGHT-ANGLE HDR ASSY 3 PR, 110 POS, 10 IMLA		dwg no	10128417		rev	B	
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
			cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11																

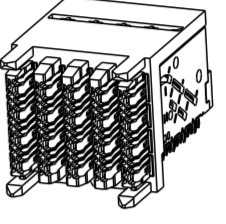
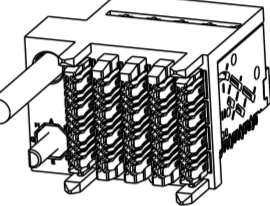
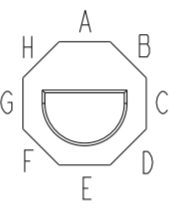
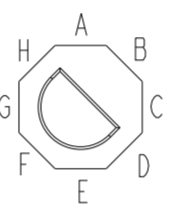
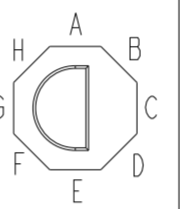
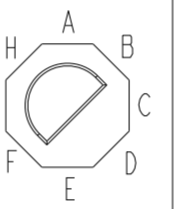
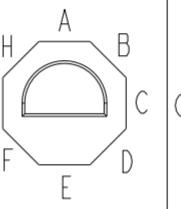
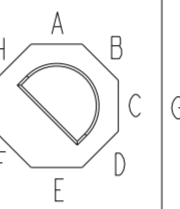
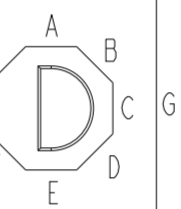
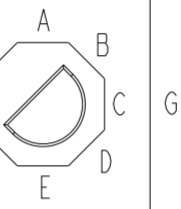
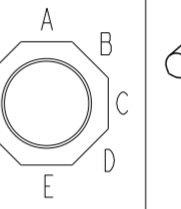
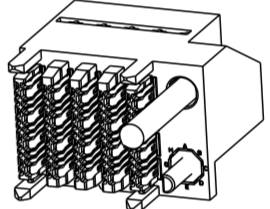
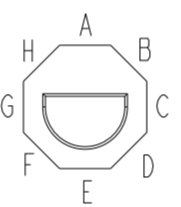
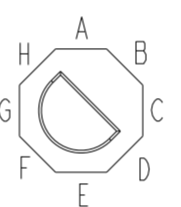
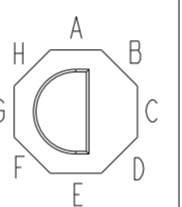
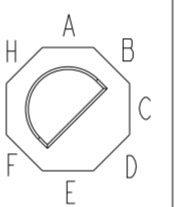
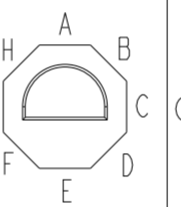
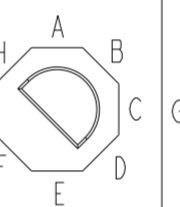
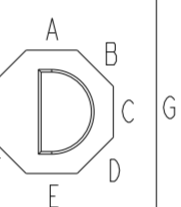
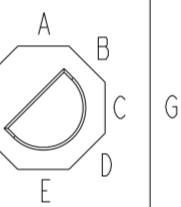
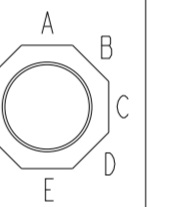


DETAIL E
SCALE 20:1

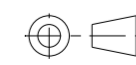
RECOMMENDED PCB LAYOUT FOR
10128417-Y2ALF THRU -Y2JLF
w/LEFT GUIDANCE
COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16

spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1		
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released		
		appr	Heaven Cen	2017/11/30			product family	ExaMAX		
surface	linear	0.X	±.3		title		ExaMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	
		0.XX	±.10		3 PR, 110 POS, 10 IMLA		rev	B		
		0.XXX	±.050		cat. no.	SEE TABLE	Product - Customer Drw	sheet 9 of 11		
	angular	0°	±°							

10128417 - Y Y Y L F

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
STANDARD NO GUIDANCE (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
10128417-1YYLF	STANDARD MATE
10128417-2YYLF	ADVANCED MATE
10128417-3YYLF	SHORT DETECT
10128417-4YYLF	ADVANCED MATE & SHORT DETECT

spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25		← →	ecn no	ELX-DG-28218-1	rel level	Released
ASME Y14.5M		chr	Justin Chen	2017/11/29						
		appr	Heaven Cen	2017/11/30						
surface	linear	0.X	±.3	Amphenol FCi	title	ExdMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	rev	B
		0.XX	±.10							
		0.XXX	±.050							
	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, 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 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 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 HEADER, 10128417-2YYLF, 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, 10128417-3YYLF, 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, 10128417-4YYLF, 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 CONNECTOR WITH EITHER A RIGHT OR LEFT GUIDE MODULE, TWO PHILLIPS PAN HEAD M2 HOLD DOWN SCREWS MUST BE USED TO SECURE THE CONNECTOR TO THEN PCB. THE SCREW LENGTH SHALL BE 2.0 - 6.0mm PLUS THE THICKNESS OF THE PCB BOARD. SCREWS ARE NOT PROVIDED WITH THE CONNECTOR.
- ⑰- LEFT / RIGHT INTEGRATED GUIDE ORIENTATION IS DETERMINED BY THE LOCATION OF THE GUIDE FEATURE WHEN LOOKING AT THE MATING FACE OF THE RIGHT ANGEL RECEPTACLE THAT IT MATES WITH (i. e. A RIGHT GUIDE RIGHT ANGEL HEADER MATES WITH A RIGHT GUIDE RIGHT ANGEL RECEPTACLE.)
- ⑱- ALL GROUND CONTACTS WHITN A COLUMN ARE COMMONED.

spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25		← →	ecn no	ELX-DG-28218-1		
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released		
		appr	Heaven Cen	2017/11/30			product family	ExaMAX		
surface	linear	0.X	±.3	Amphenol FCI	title		ExaMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	
		0.XX	±.10		3 PR, 110 POS, 10 IMLA		rev	B		
		0.XXX	±.050		cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11		
	angular	0°	±°							

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