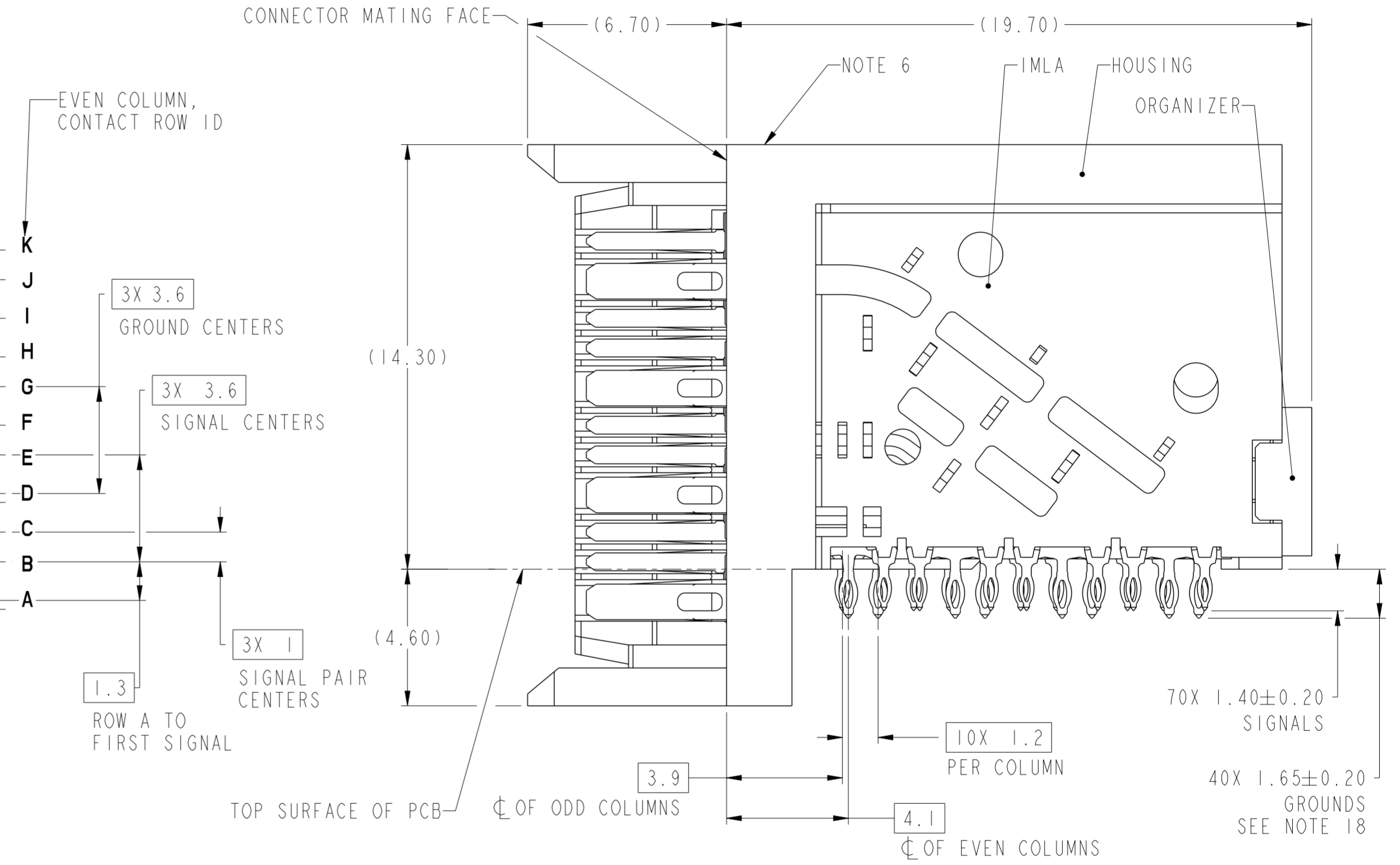
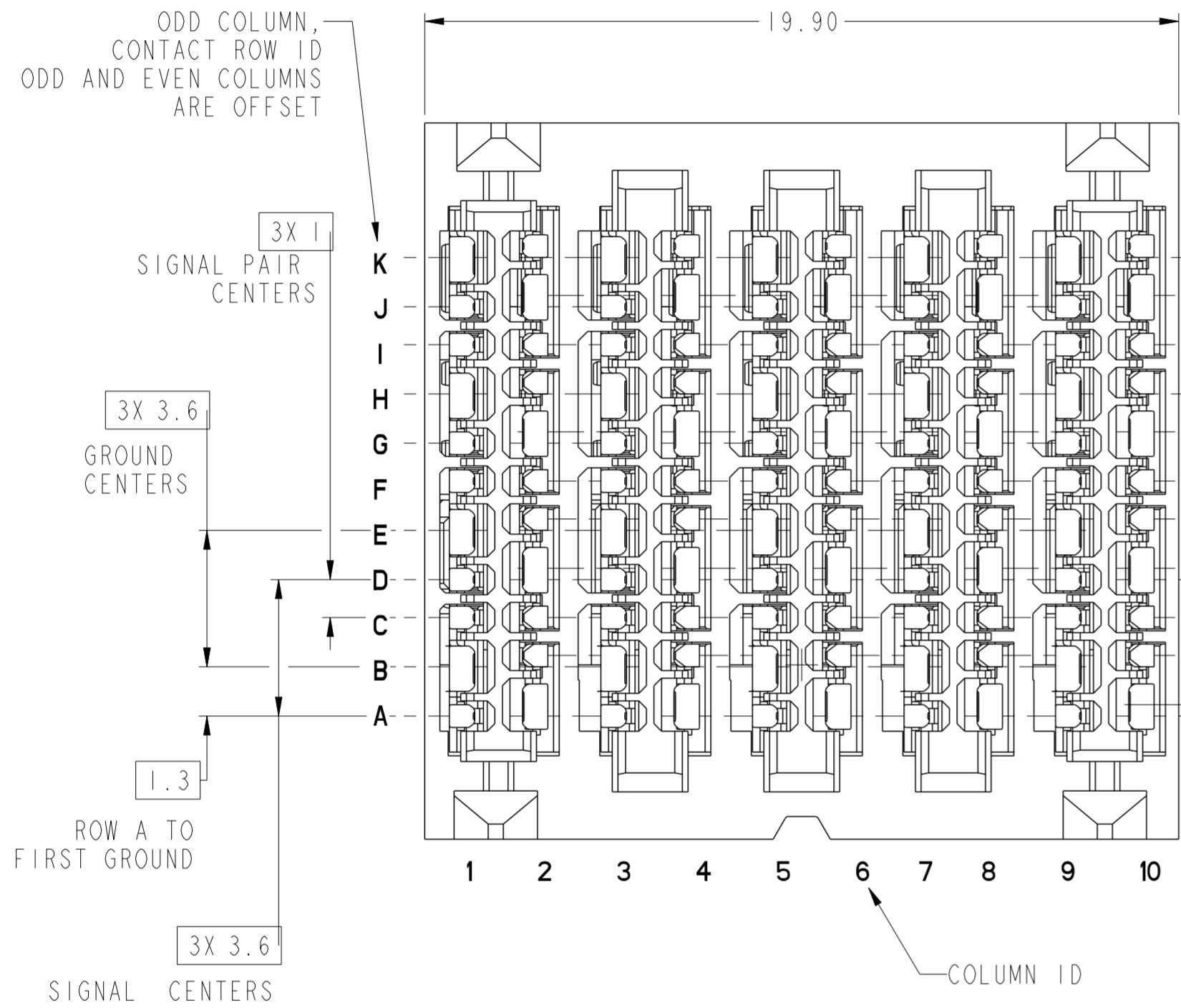


PRODUCT NUMBER  
SEE SHEET 10



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 <b>Released</b>	rev <b>B</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 <b>FCi</b>		cat. no. SEE TABLE	Product - Customer Drw		sheet 1 of 11				

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

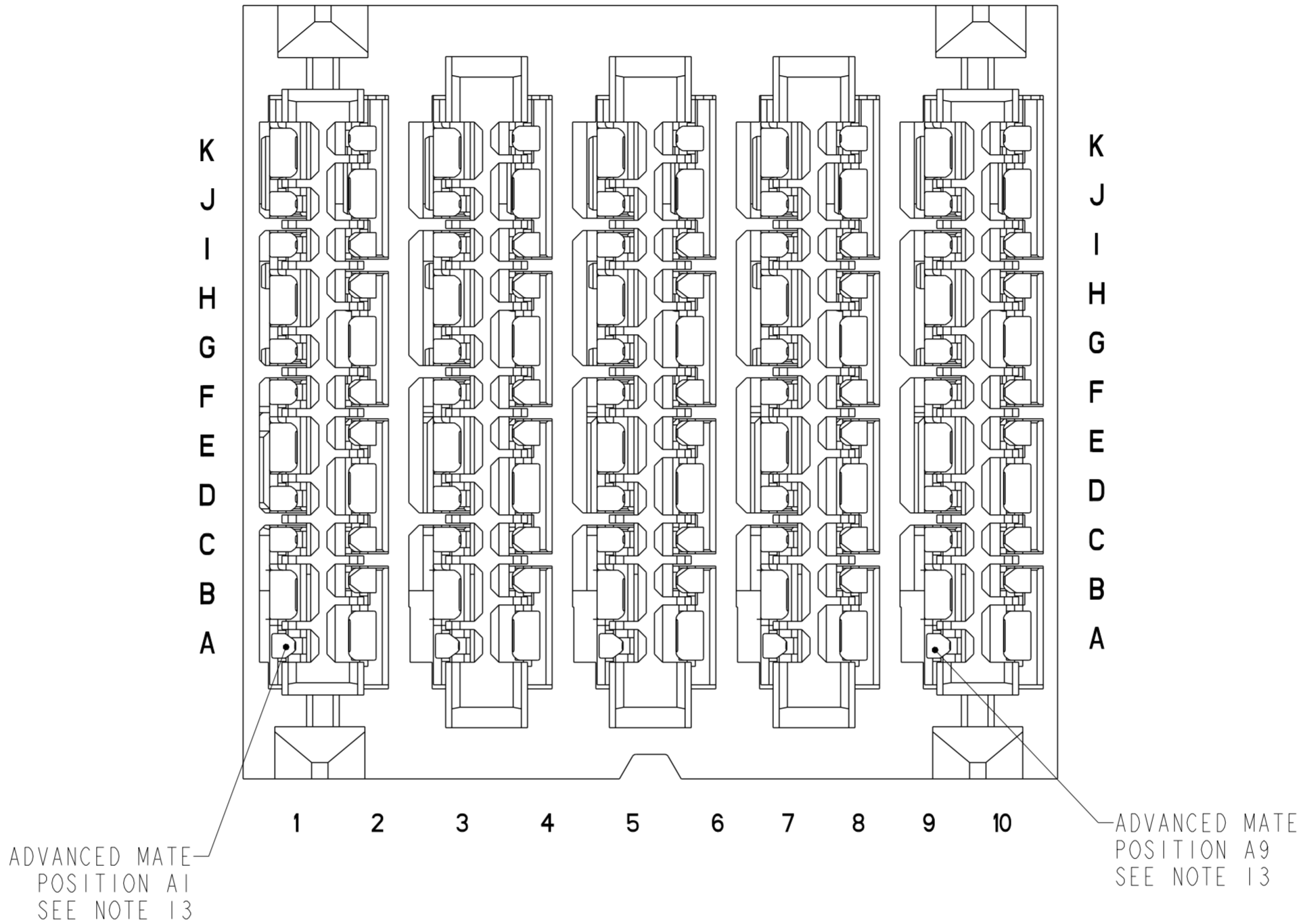
B

C

D

E

F

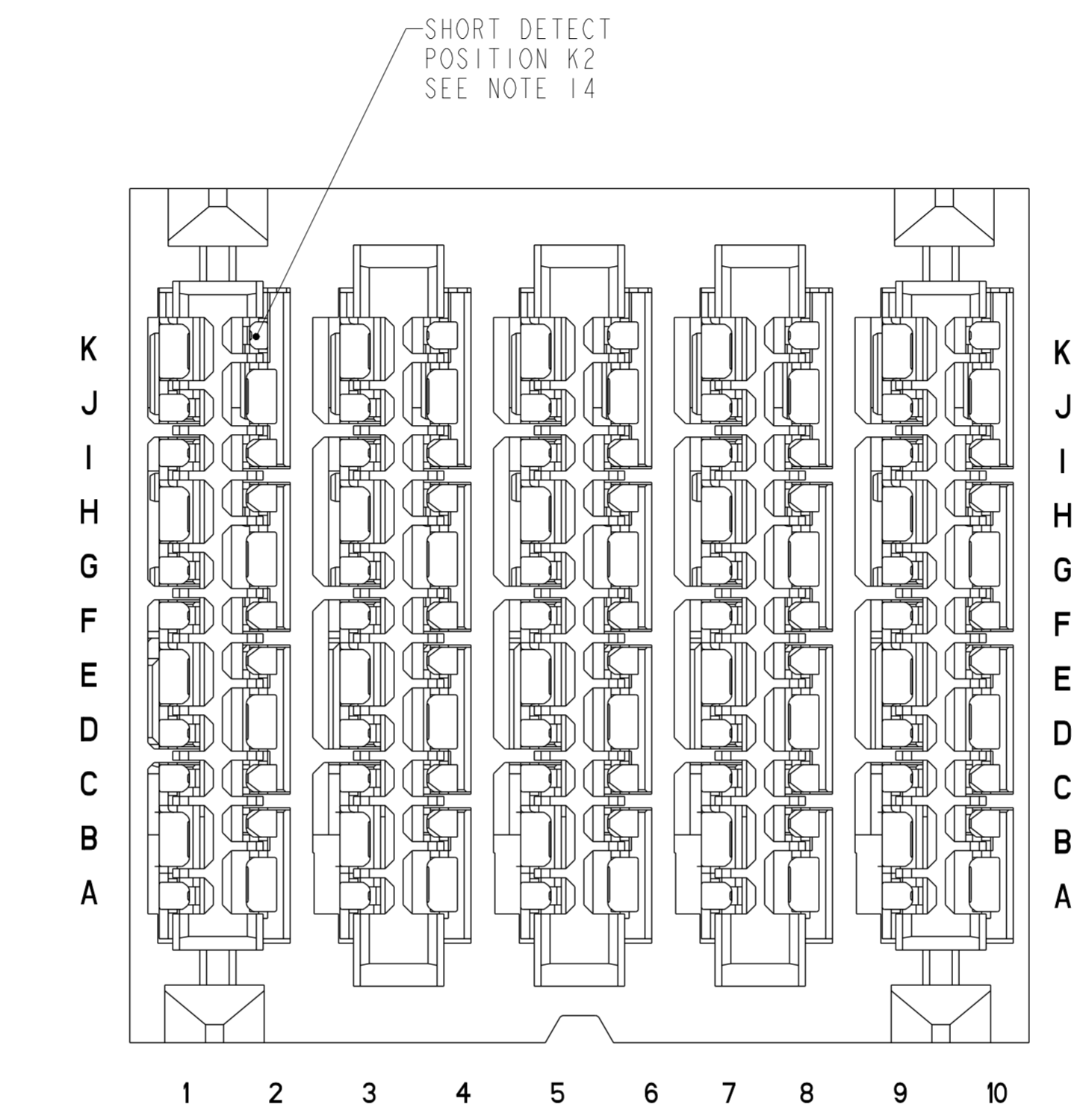


**10128417-201LF**  
**ADVANCED MATE CONNECTOR**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY  
 FOR ALL OTHER DIMENSIONS SEE 10128417-101LF ON SHEET 1

Amphenol  
FCi

© 2016 AFCi

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 rowspan="3">-</td> <td rowspan="3">linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td></td> <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>ExdMAX RIGHT-ANGLE HDR ASSY</td> <td>dwg no</td> <td>10128417</td> <td>rev</td> <td>B</td> </tr> <tr> <td>cat. no.</td> <td>SEE TABLE</td> <td>Product - Customer Drw</td> <td colspan="3">sheet 2 of 11</td> </tr> </table>	title	ExdMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	rev	B	cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11		
-	linear			0.X	±.3																						
				0.XX	±.10																						
		0.XXX	±.050																								
	angular	0°	±°																								
title	ExdMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	rev	B																						
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**

© 2016 APCI

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			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29			rel level	Released			
		appr	Heaven Cen	2017/11/30			product family	ExaMAX			
surface	linear angular	0.X ±.3 0.XX ±.10 0.XXX ±.050 0° ±°	<b>Amphenol FCI</b>		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			

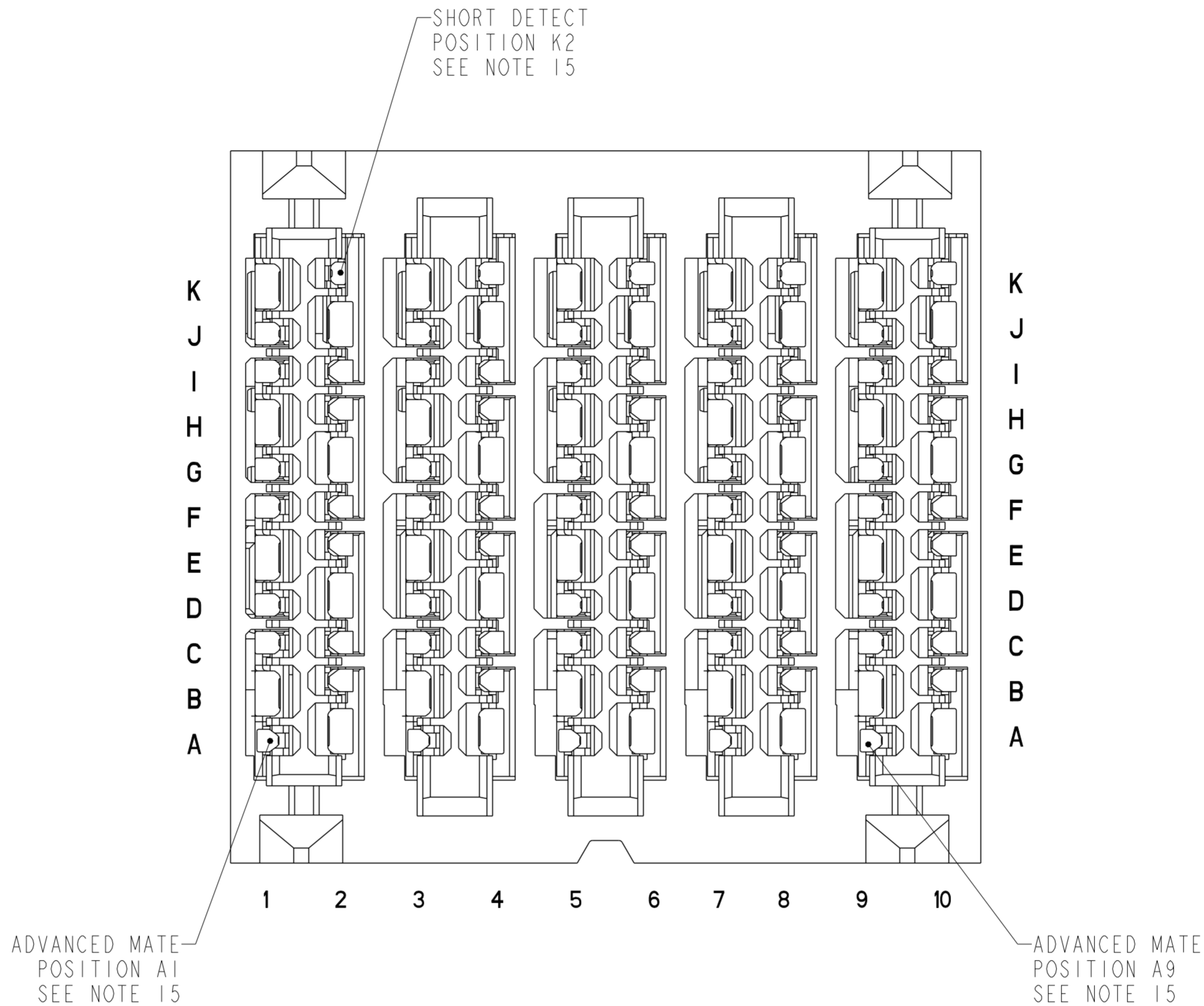
PDS: Rev :B

STATUS:Released

Printed: Dec 12, 2017

1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

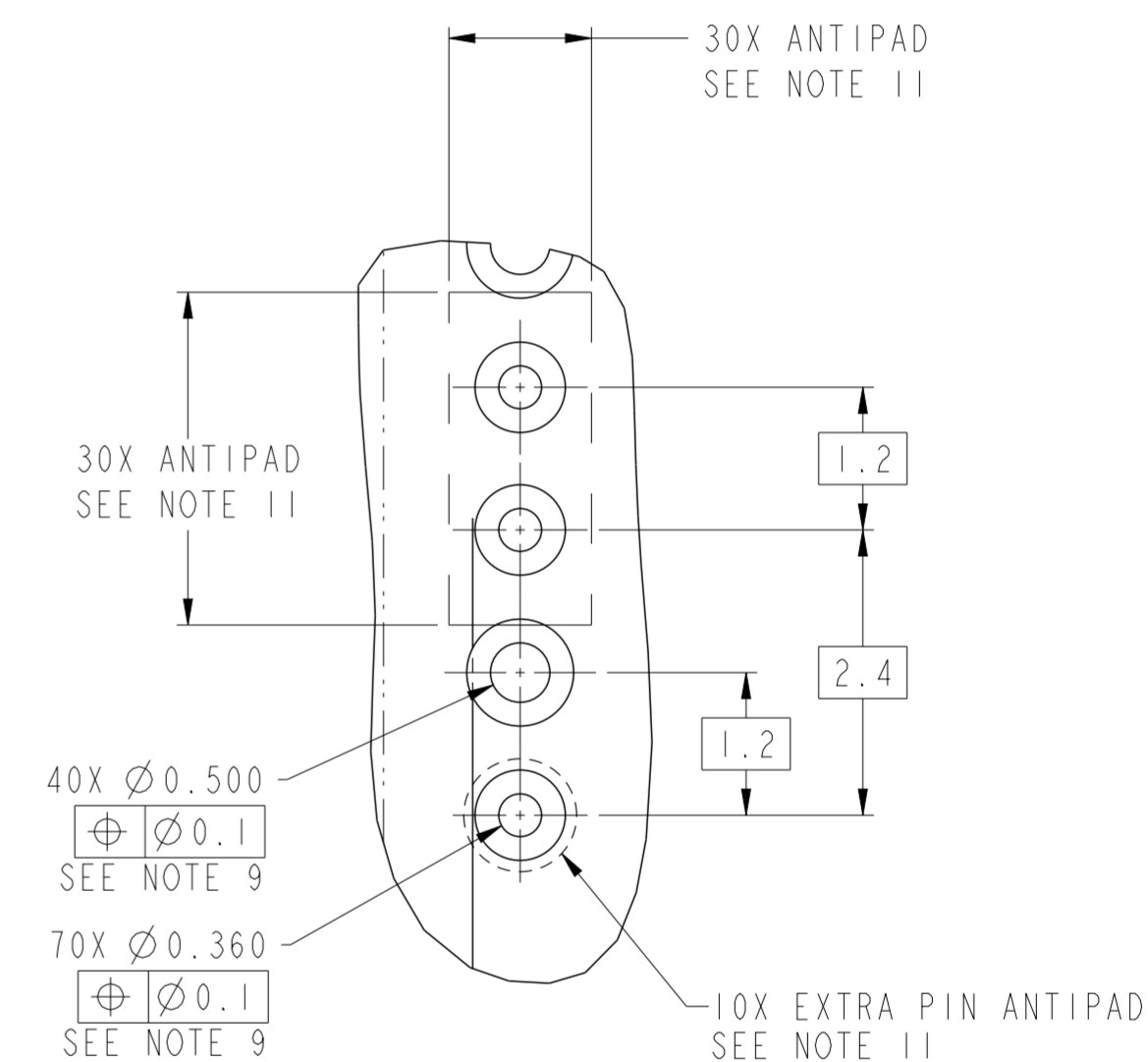
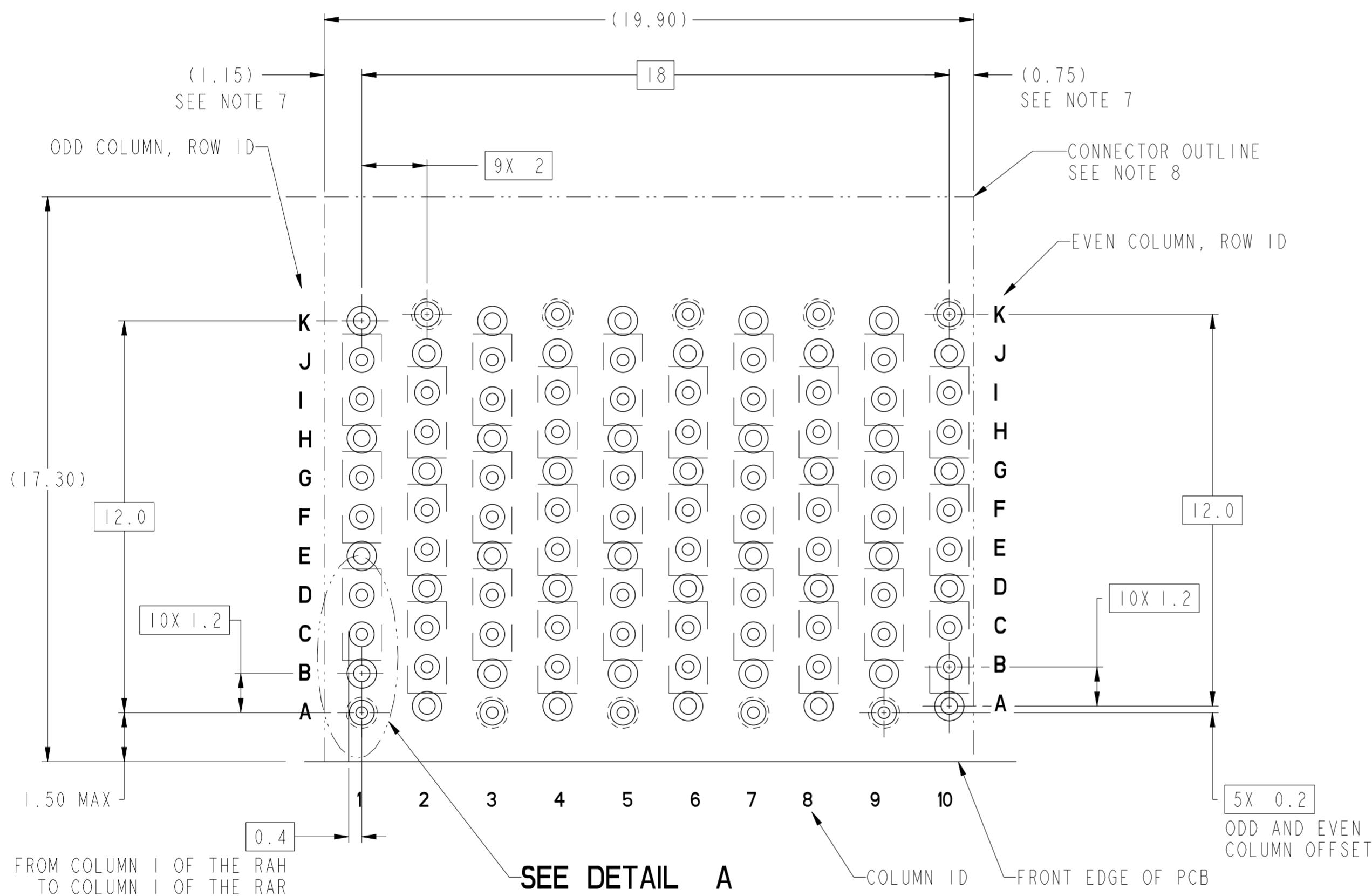


**10128417-401LF**  
**ADVANCED MATE/SHORT DETECT CONNECTOR**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY  
 SHORT DETECT POSITION IS K2 ONLY  
 FOR ALL OTHER DIMENSIONS SEE 10128417-101LF ON SHEET 1

Amphenol  
FCi

© 2016 AFCi

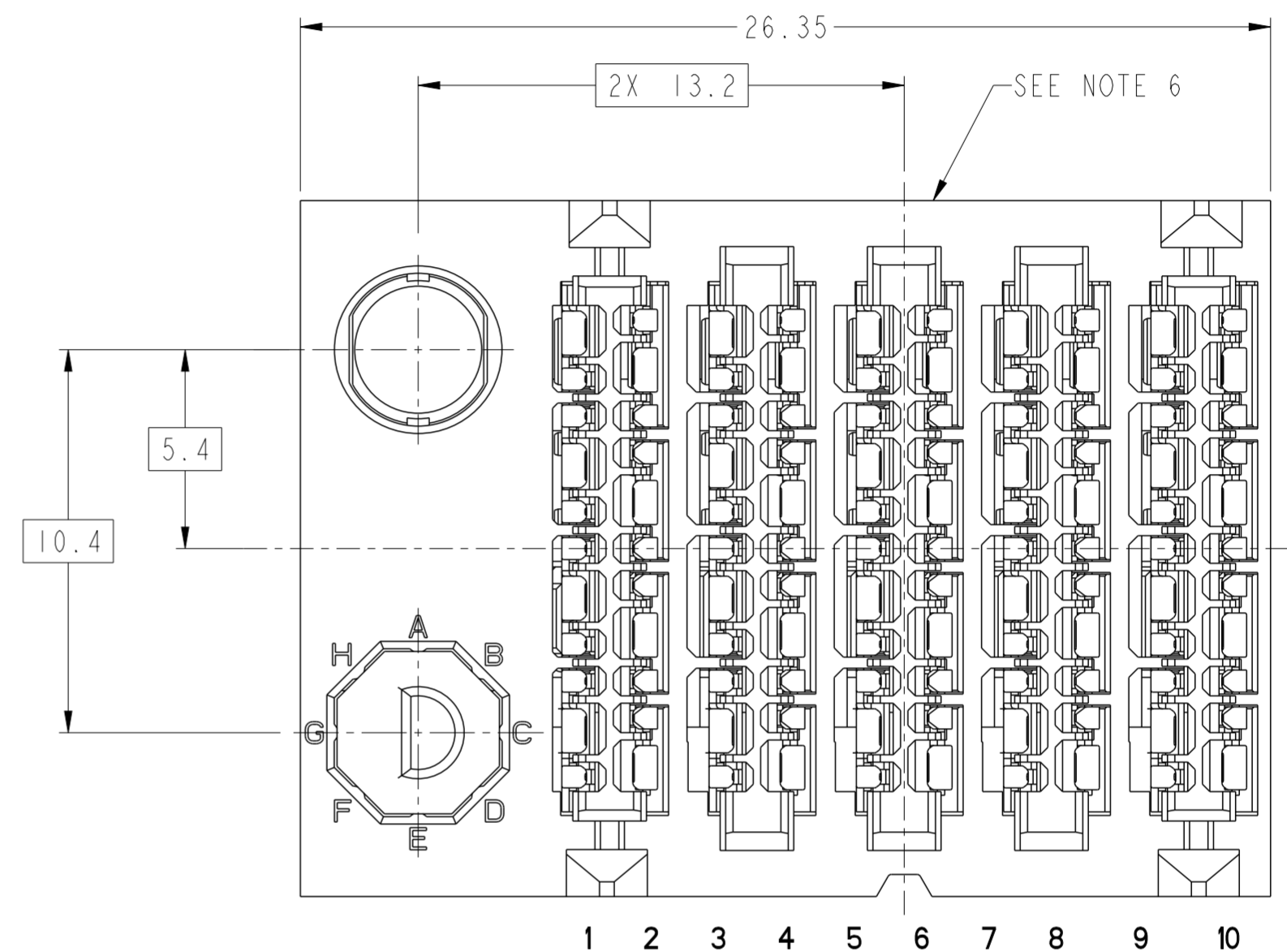
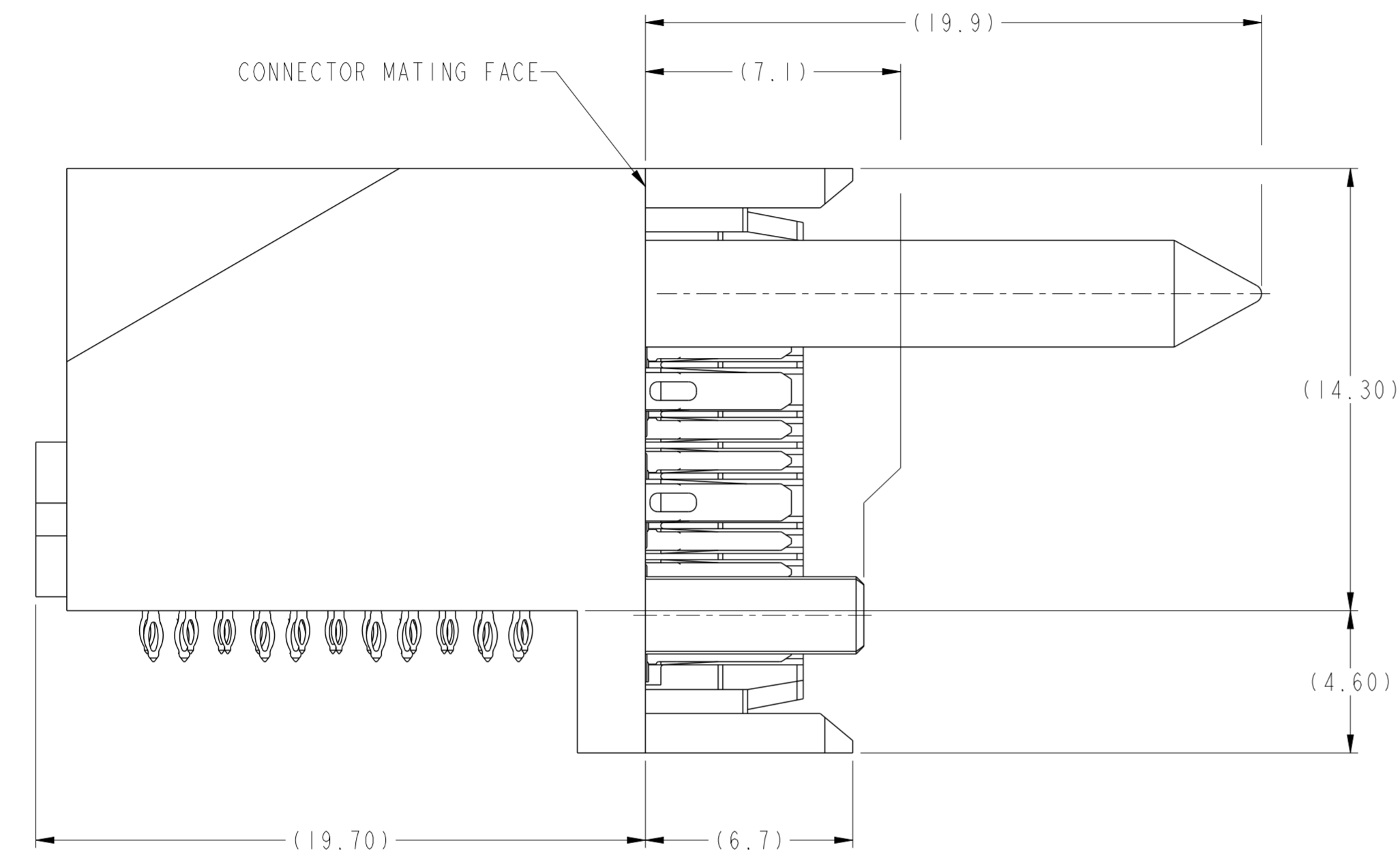
spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1														
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released														
surface	<table border="1"> <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°	±°																				
		Amphenol FCi	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 4 of 11																



**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	rel level	Released		
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX				
		appr	Heaven Cen	2017/11/30			rel level	Released				
surface	linear	0.X	±.3		<b>Amphenol FCI</b>		title	ExaMAX RIGHT-ANGLE HDR ASSY	dwg no	10128417	rev	B
		0.XX	±.10		<b>Amphenol FCI</b>		3 PR, 110 POS, 10 IMLA					
		0.XXX	±.050		<b>Amphenol FCI</b>		cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 11		
	angular	0°	±°	<b>Amphenol FCI</b>								

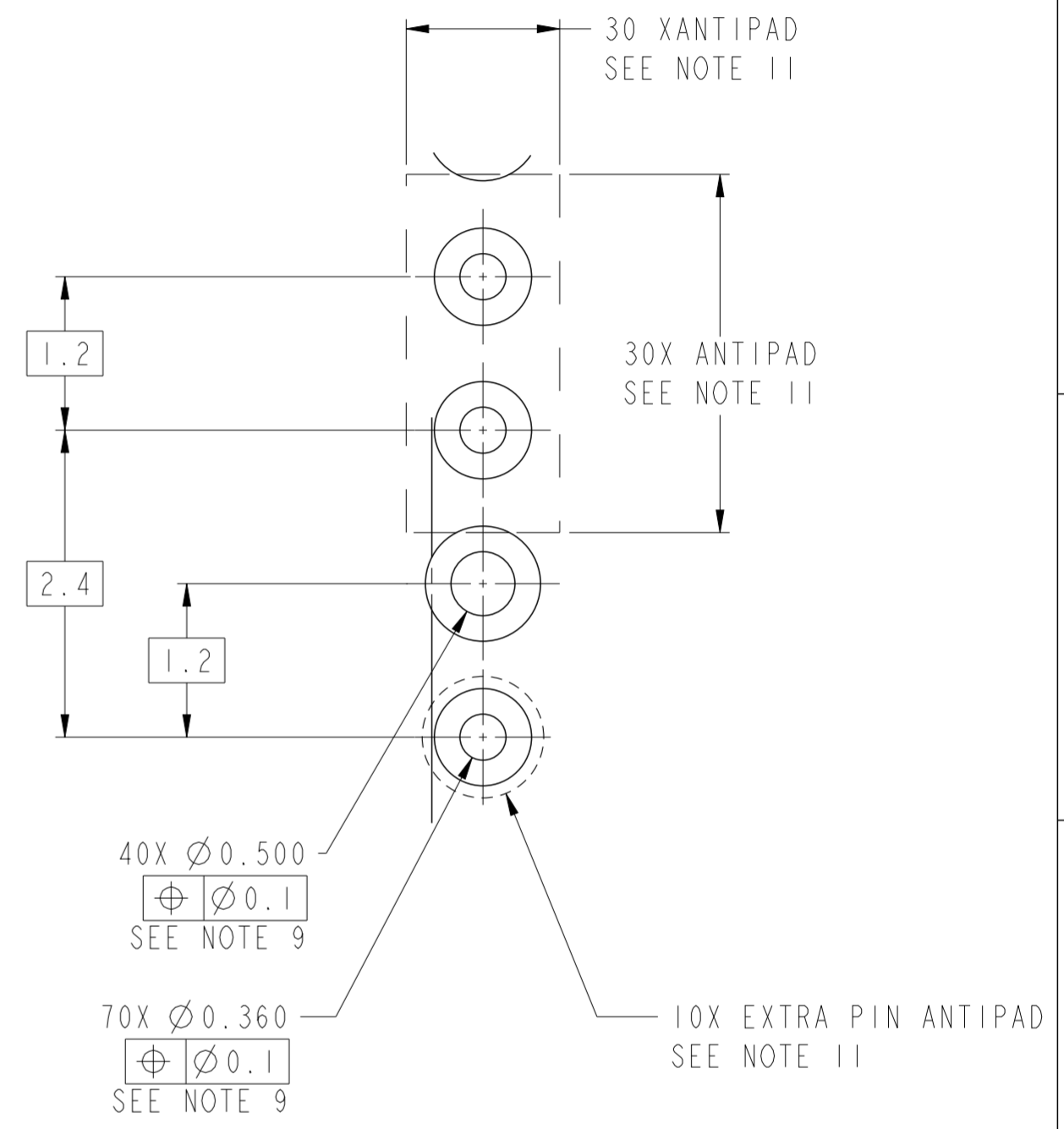
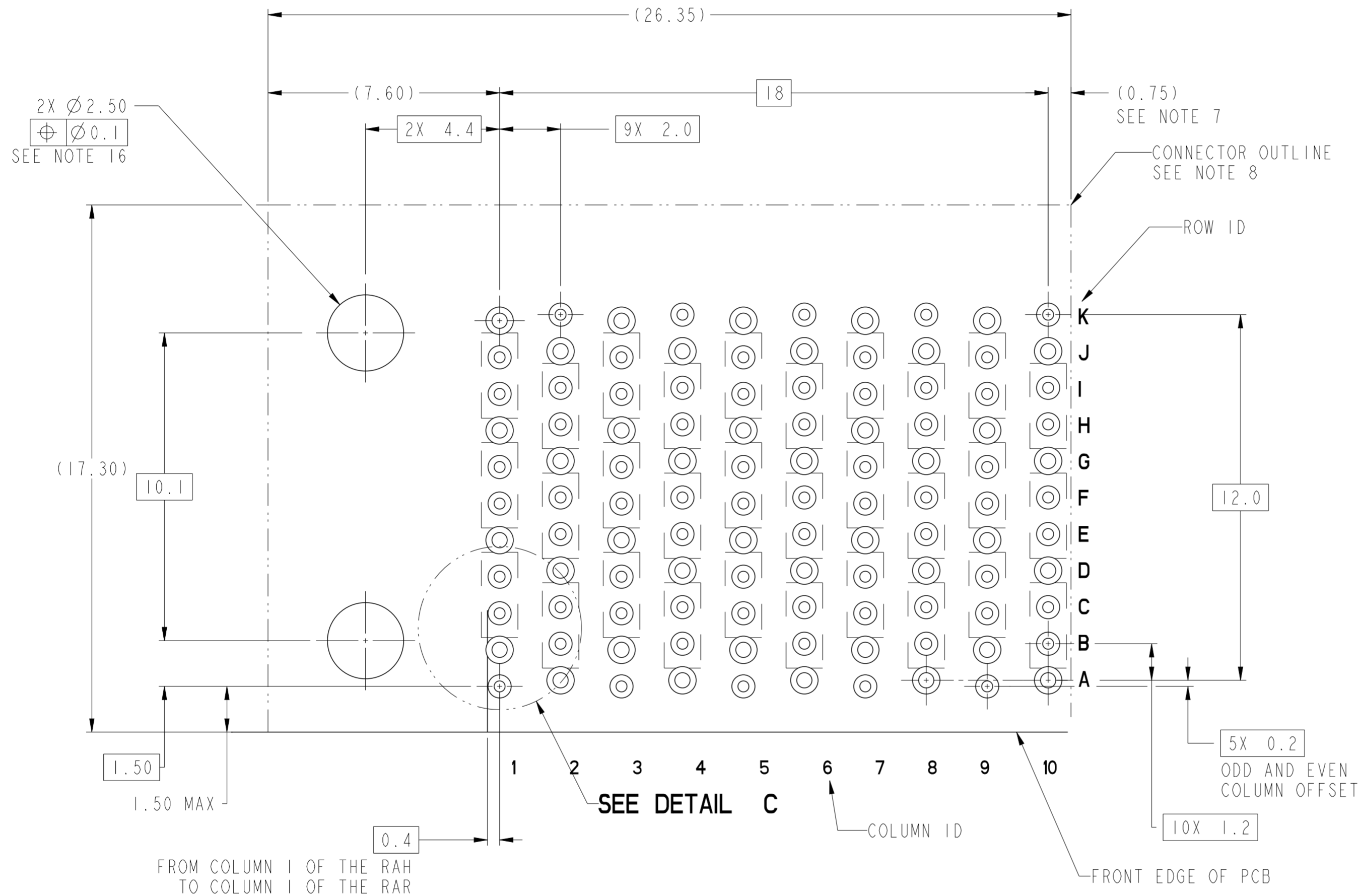


10128417-Y1ALF THRU -Y1JLF  
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)  
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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																														

Amphenol  
FCI

© 2016 AFCI



**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 <b>Released</b>	rev <b>B</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° ±°	<b>Amphenol FCI</b>		title ExaMAX RIGHT-ANGLE HDR ASSY 3 PR, 110 POS, 10 IMLA		div no 10128417		rev <b>B</b>			

Amphenol FCI

© 2016 APCI

A

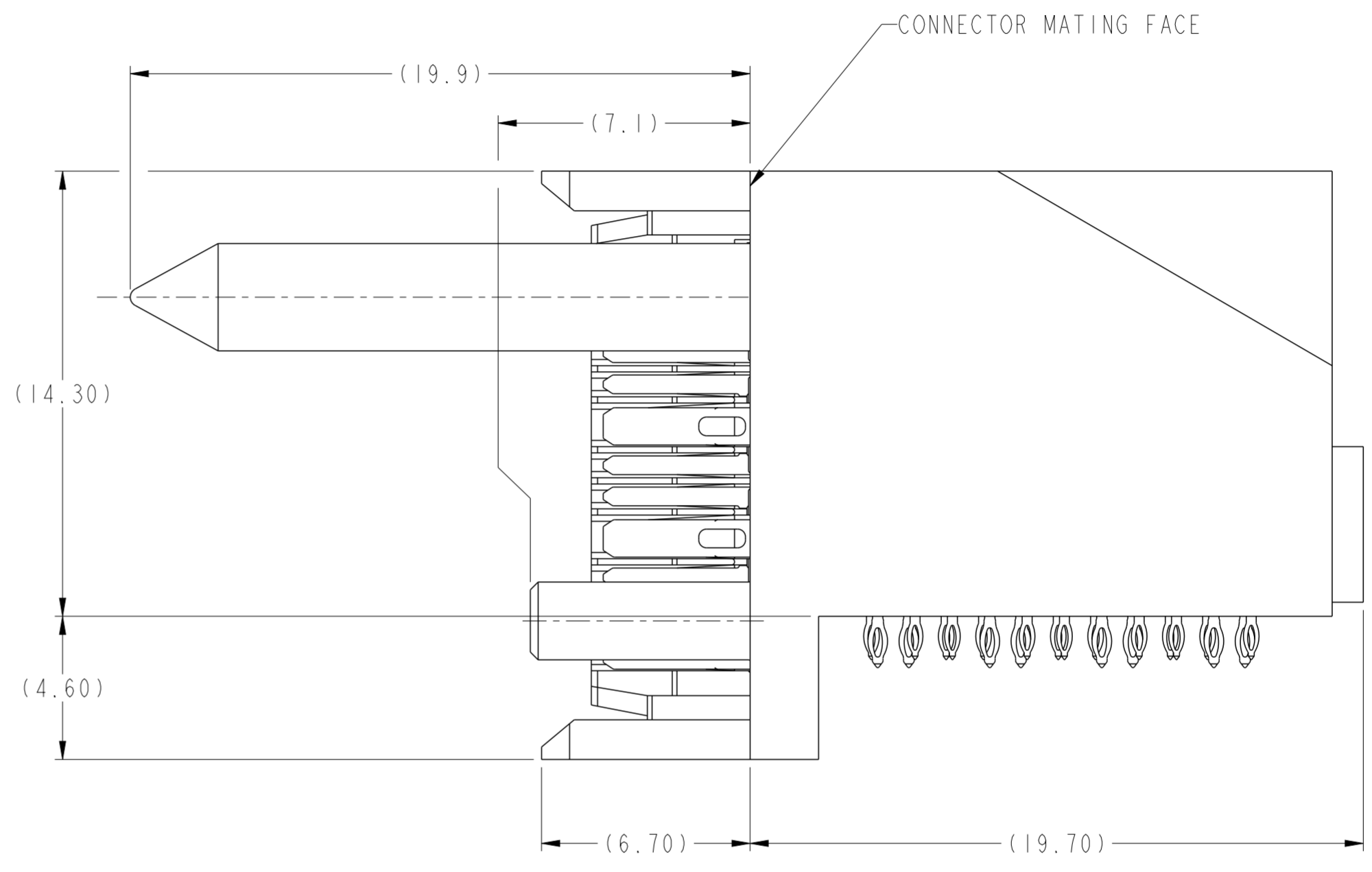
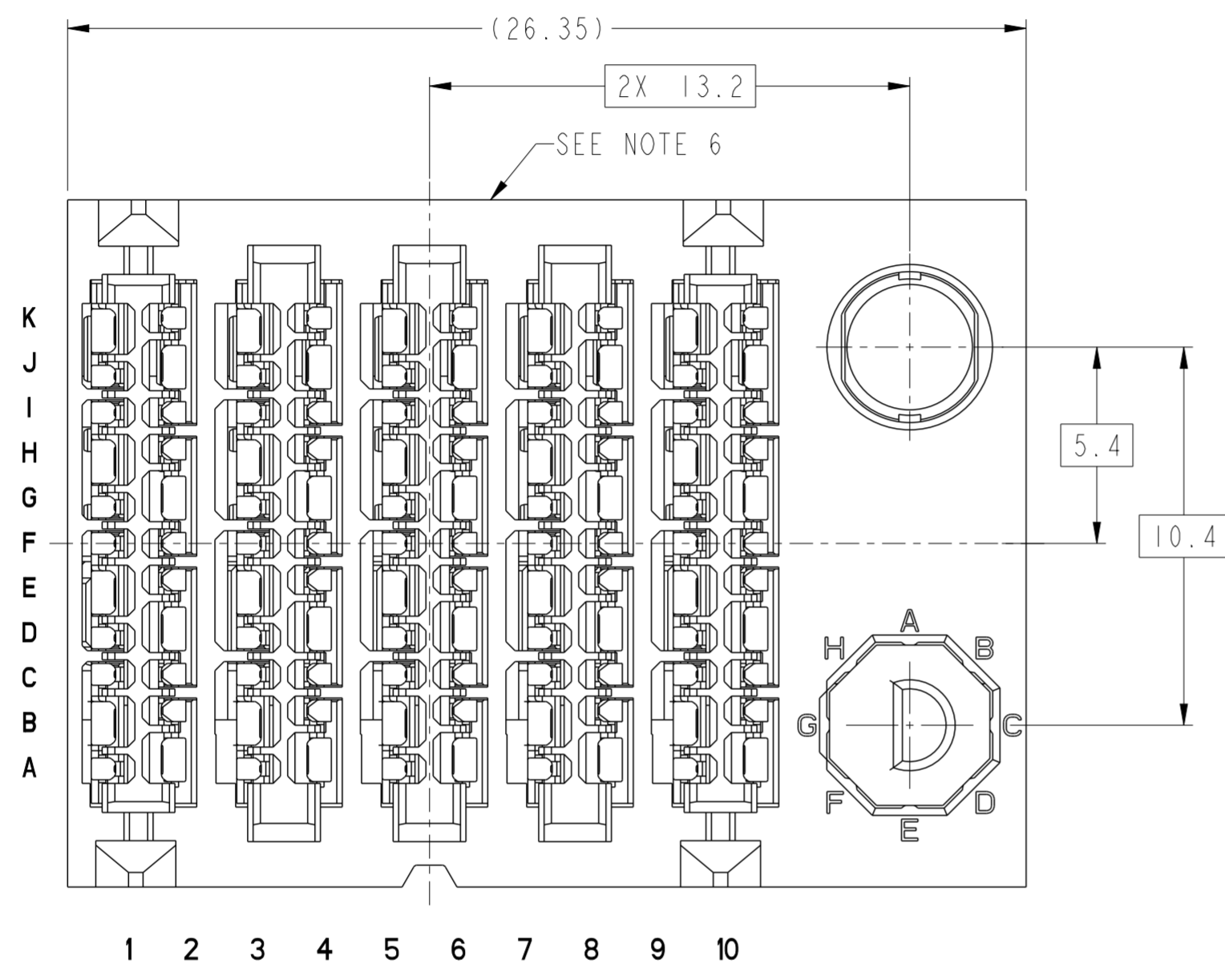
B

C

D

E

F

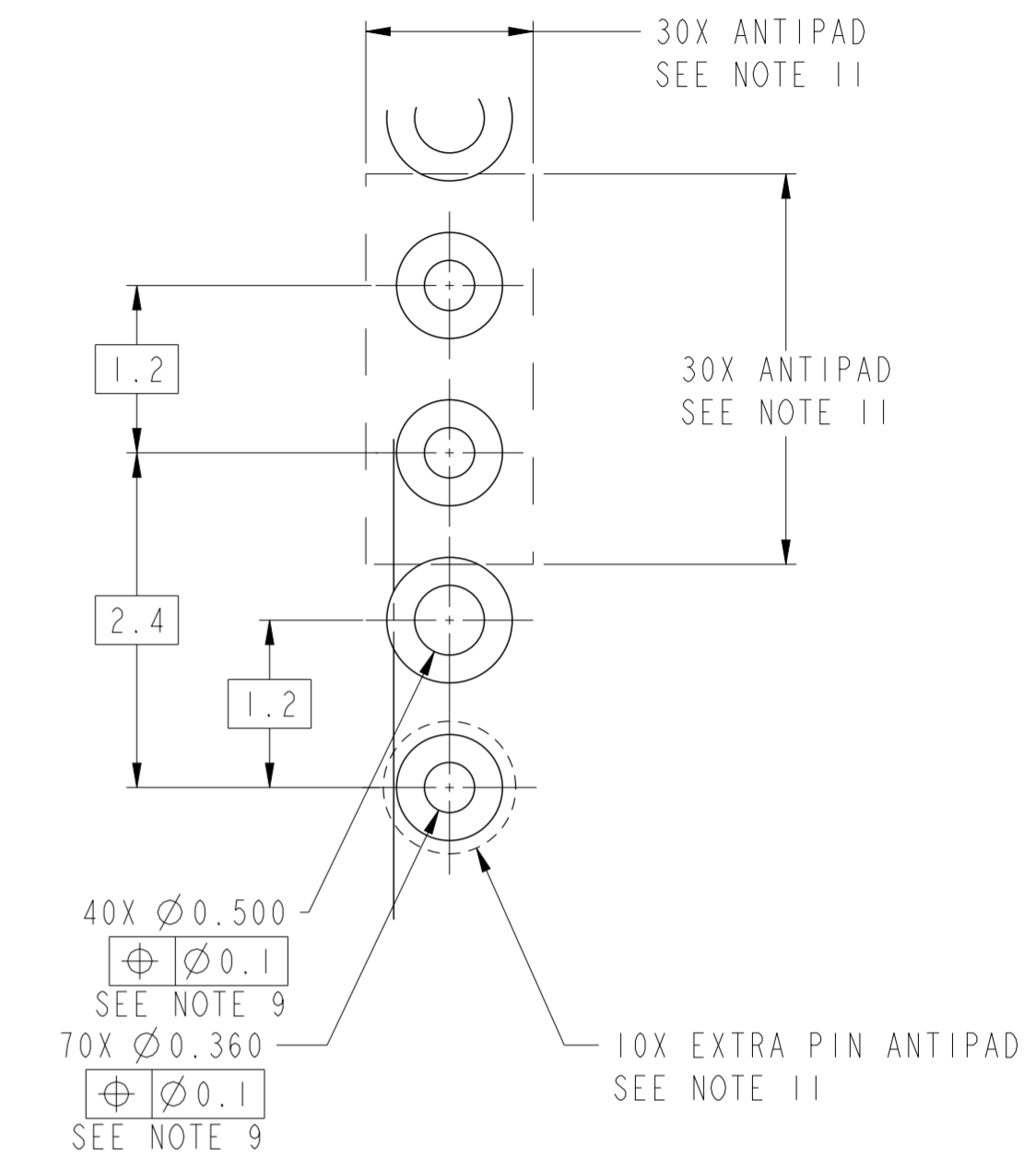
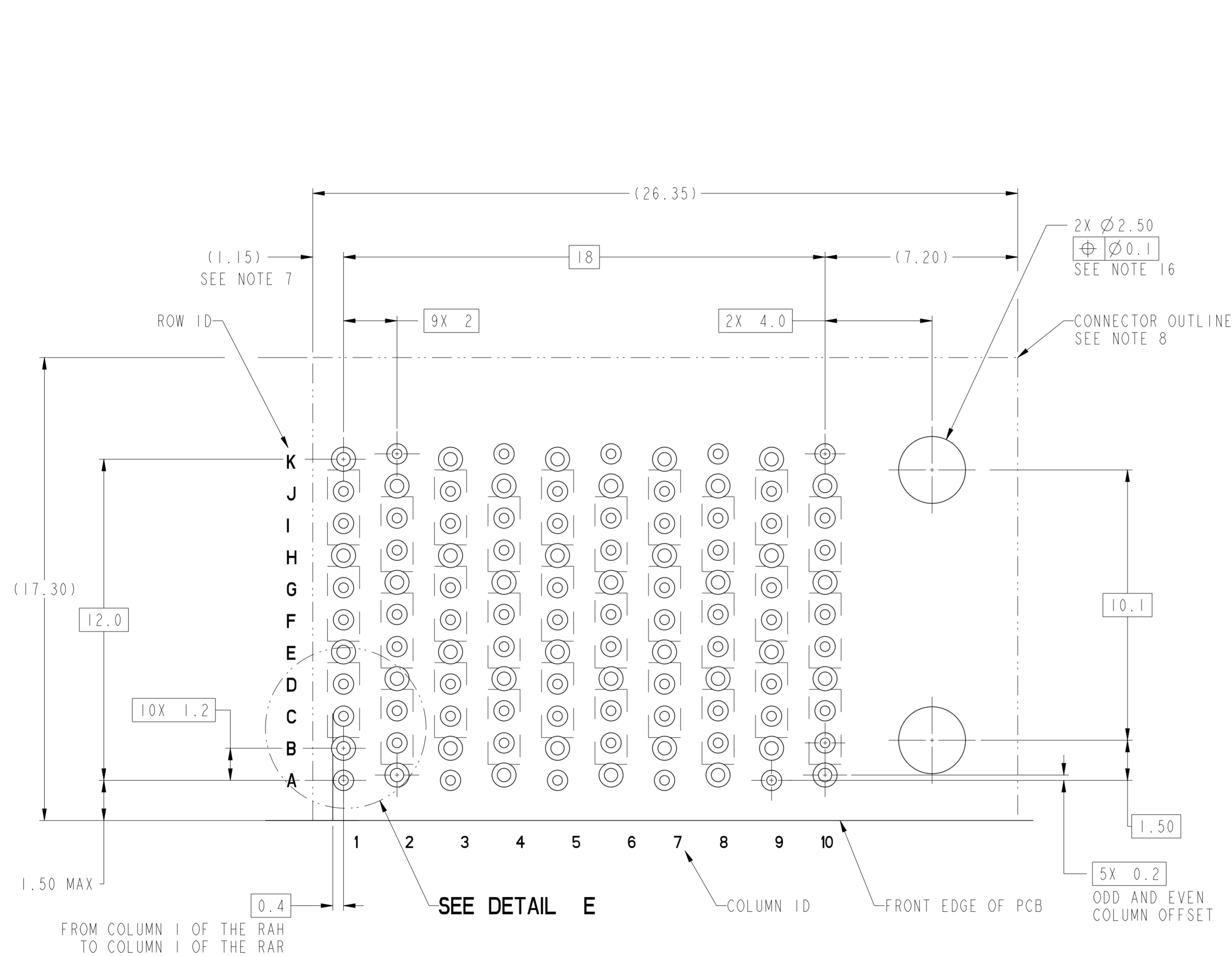


10128417-Y2ALF THRU -Y2JLF  
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)  
FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol  
FCi

© 2016 AFci

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	rel level	Released									
ASME Y14.5M		chr	Justin Chen	2017/11/29															
		appr	Heaven Cen	2017/11/30															
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 8 of 11												

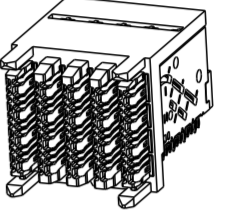
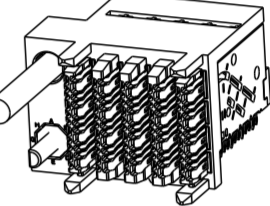
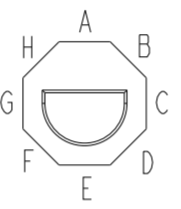
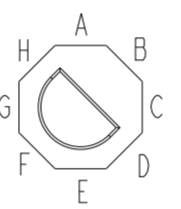
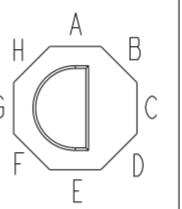
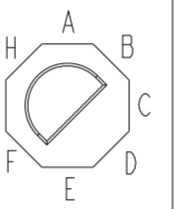
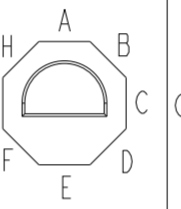
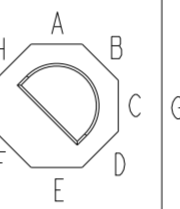
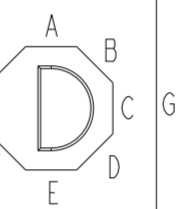
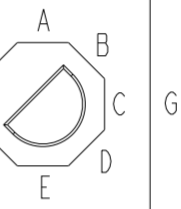
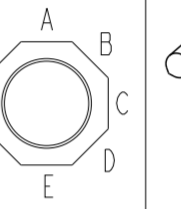
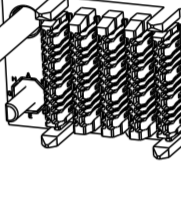
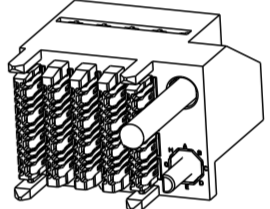
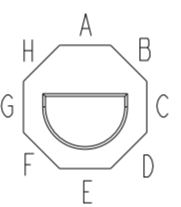
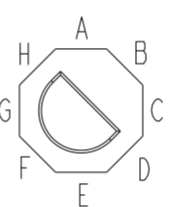
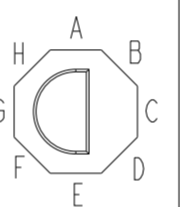
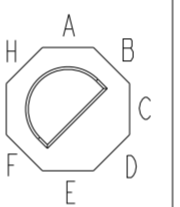
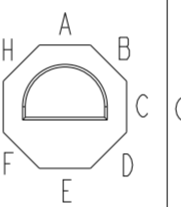
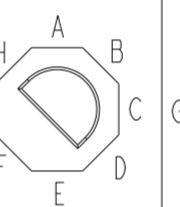
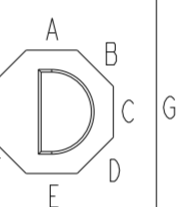
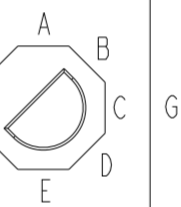
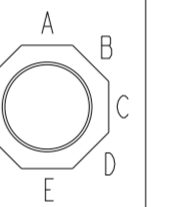
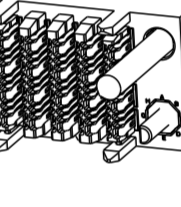


DETAIL E  
SCALE 20:1

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

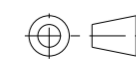
spec ref	SEE NOTES	dr	Justin Chen	2015/01/07	projection	MM	size	A2	scale	2:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/10/25			ecn no	ELX-DG-28218-1				
ASME Y14.5M		chr	Justin Chen	2017/11/29			rel level	Released				
		appr	Heaven Cen	2017/11/30			product family	ExaMAX				
surface	linear	0.X	±.3		title ExaMAX RIGHT-ANGLE HDR ASSY 3 PR, 110 POS, 10 IMLA	dwg no 10128417	rev B					
		0.XX	±.10					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)	<b>1A</b>	<b>1B</b>	<b>1C</b>	<b>1D</b>	<b>1E</b>	<b>1F</b>	<b>1G</b>	<b>1H</b>	<b>1J</b> (NO KEY)		
											
LEFT GUIDANCE MODULE (SEE SHEET 8)	<b>2A</b>	<b>2B</b>	<b>2C</b>	<b>2D</b>	<b>2E</b>	<b>2F</b>	<b>2G</b>	<b>2H</b>	<b>2J</b> (NO KEY)		
											

ASSEMBLY PART NUMBER	DESCRIPTION
10128417-1YYLF	STANDARD MATE
10128417-2YYLF	ADVANCED MATE
10128417-3YYLF	SHORT DETECT
10128417-4YYLF	ADVANCED MATE & SHORT DETECT

Amphenol FCI

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							product family
surface	linear	appr	Heaven Cen	2017/11/30	Amphenol FCI		title	ExaMAX RIGHT-ANGLE HDR ASSY		rev	B
	angular			cat. no.	SEE TABLE	Product - Customer Drw	sheet 10 of 11				

PDS: Rev :B

STATUS:Released

Printed: Dec 12, 2017

© 2016 AFCI

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, 10128417-2YRLF, 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, 10128417-3YRLF, 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, 10128417-4YRLF, 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.

Amphenol FCI

© 2016 AFCI

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	
ASME Y14.5M		chr	Justin Chen	2017/11/29							
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 11 of 11		