

ADVANCED MATE POSITION A1 SEE NOTE 13

ADVANCED MATE POSITION A5 SEE NOTE 13

10125350-201YLF
ADVANCED MATE CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
 FOR ALL DIMENSIONS SEE 10125350-101YLF ON SHEET 1

Amphenol FCI

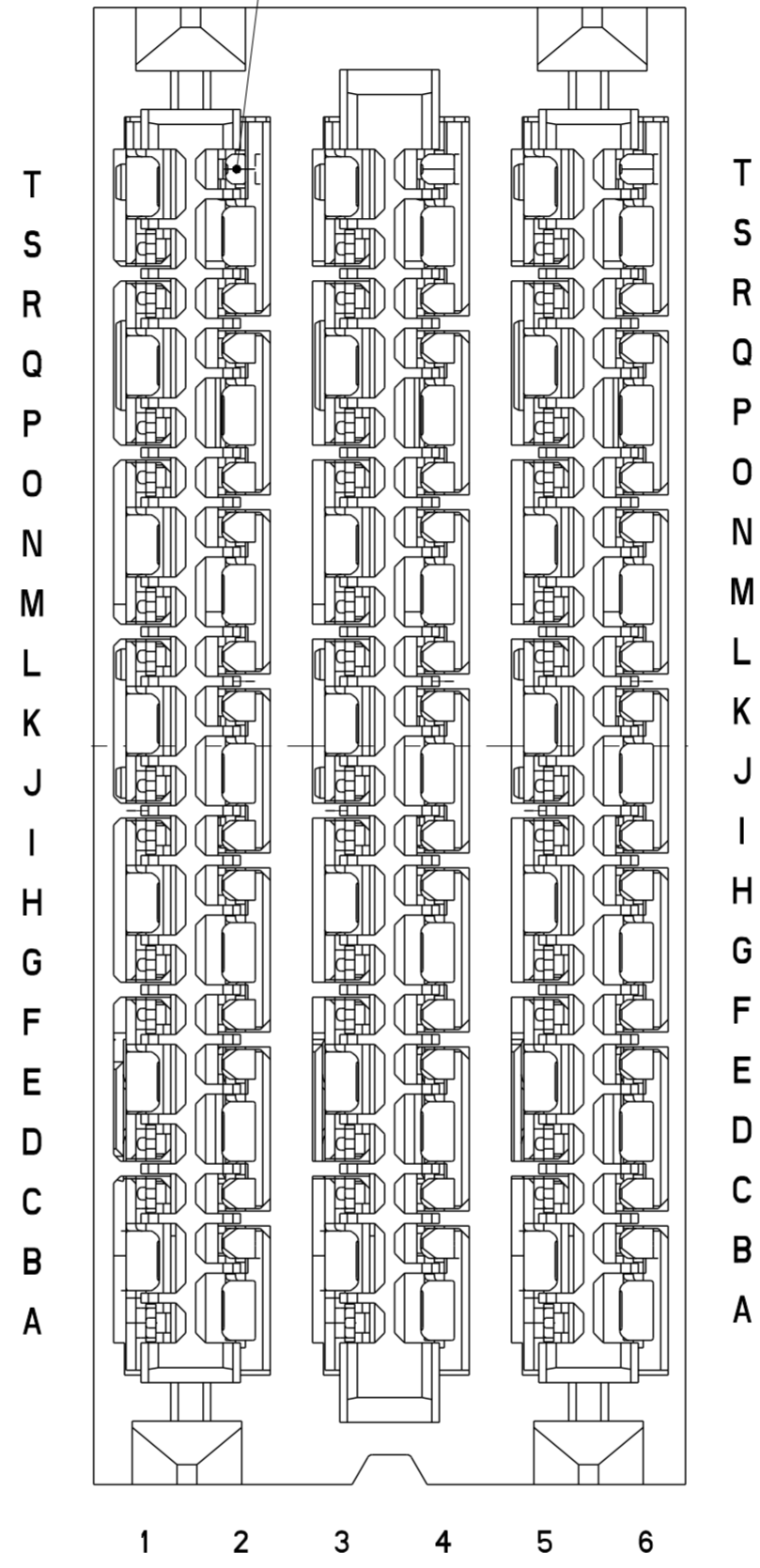
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spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	6:1					
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1							
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/04	product family	ExaMAX	rel level	Released			
surface	<table border="1"> <tr> <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>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 6 PR, 120 POS, 6 IMLA, 2MM	dwg no 10125350	rev C
linear	0.X		±.3												
	0.XX		±.10												
	0.XXX	±.050													
angular	0°	±°													
		cat. no.	Product - Customer Drw			sheet 2 of 11									

1 2 3 4 5 6 7 8

A
B
C
D
E
F

SHORT DETECT
POSITION T2
SEE NOTE 14



10125350-301YLF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS T2 ONLY
FOR ALL DIMENSIONS SEE 10125350-101YLF ON SHEET 1

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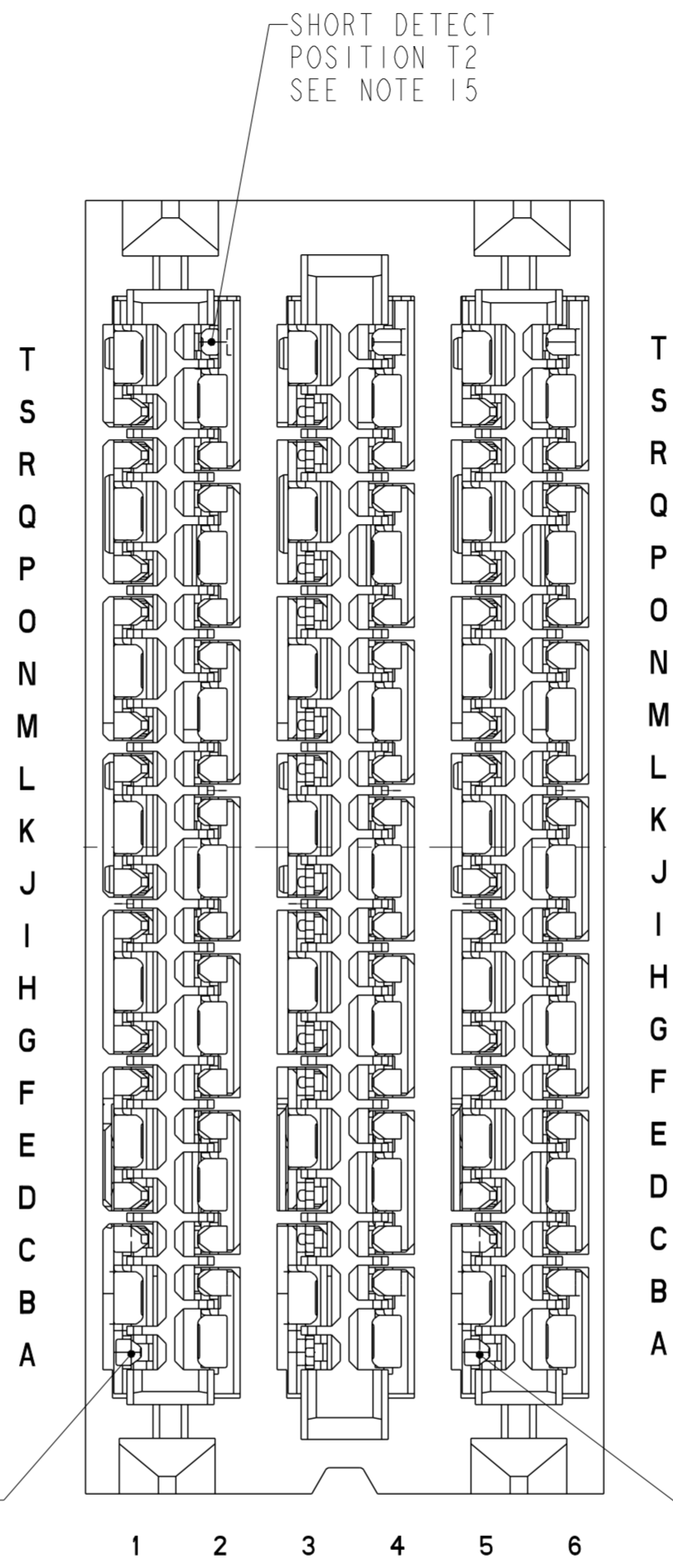
© 2016 AFci

spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	6:1												
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1														
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°	±°	chr	-	appr	Heaven Cen	2020/05/04	product family	ExaMAX
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 120 POS, 6 IMLA, 2MM			dwg no 10125350	rev C		cat. no. Product - Customer Drw	sheet 3 of 11											

PDS: Rev :C

STATUS:Released

Printed: May 05, 2020

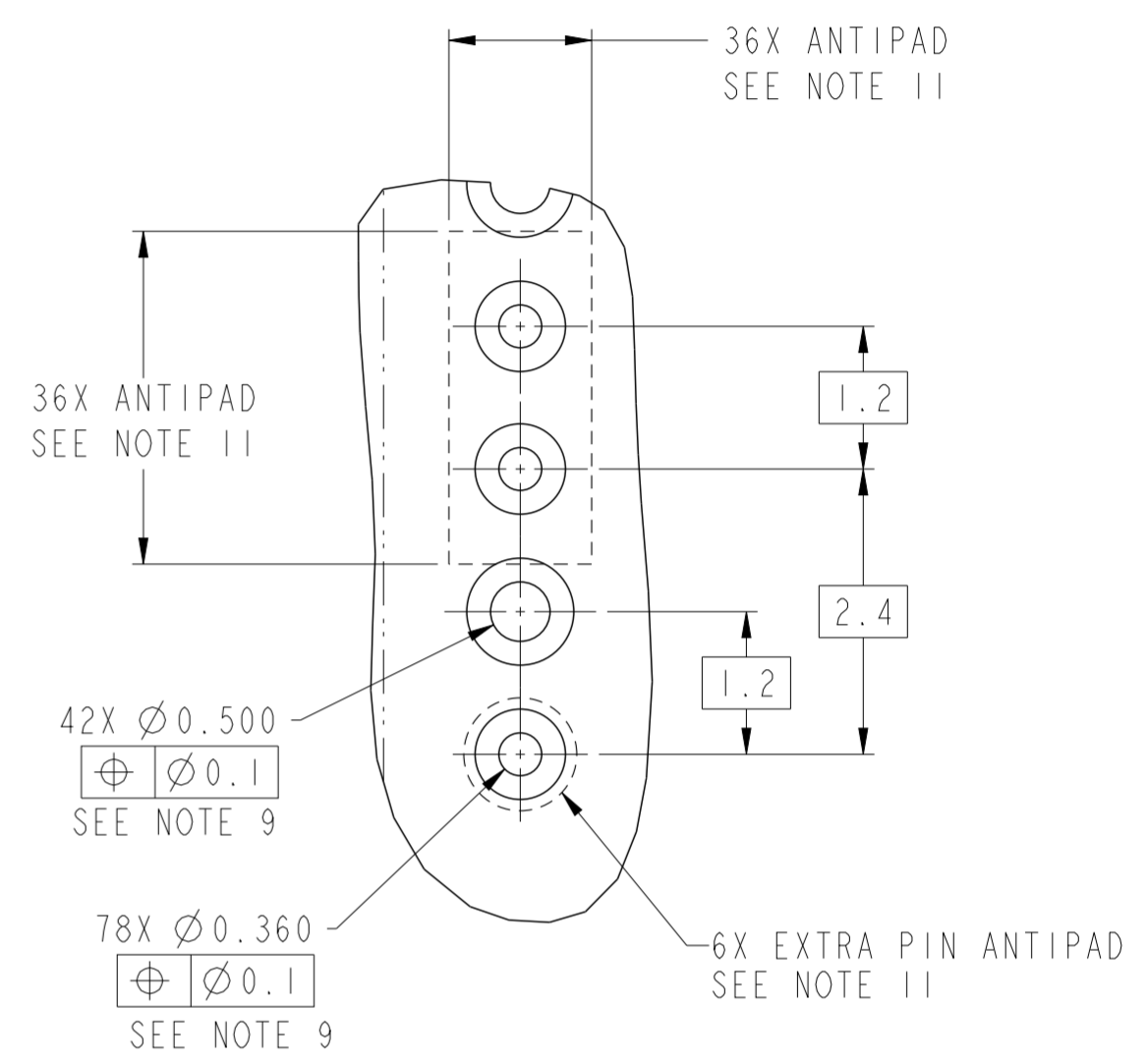
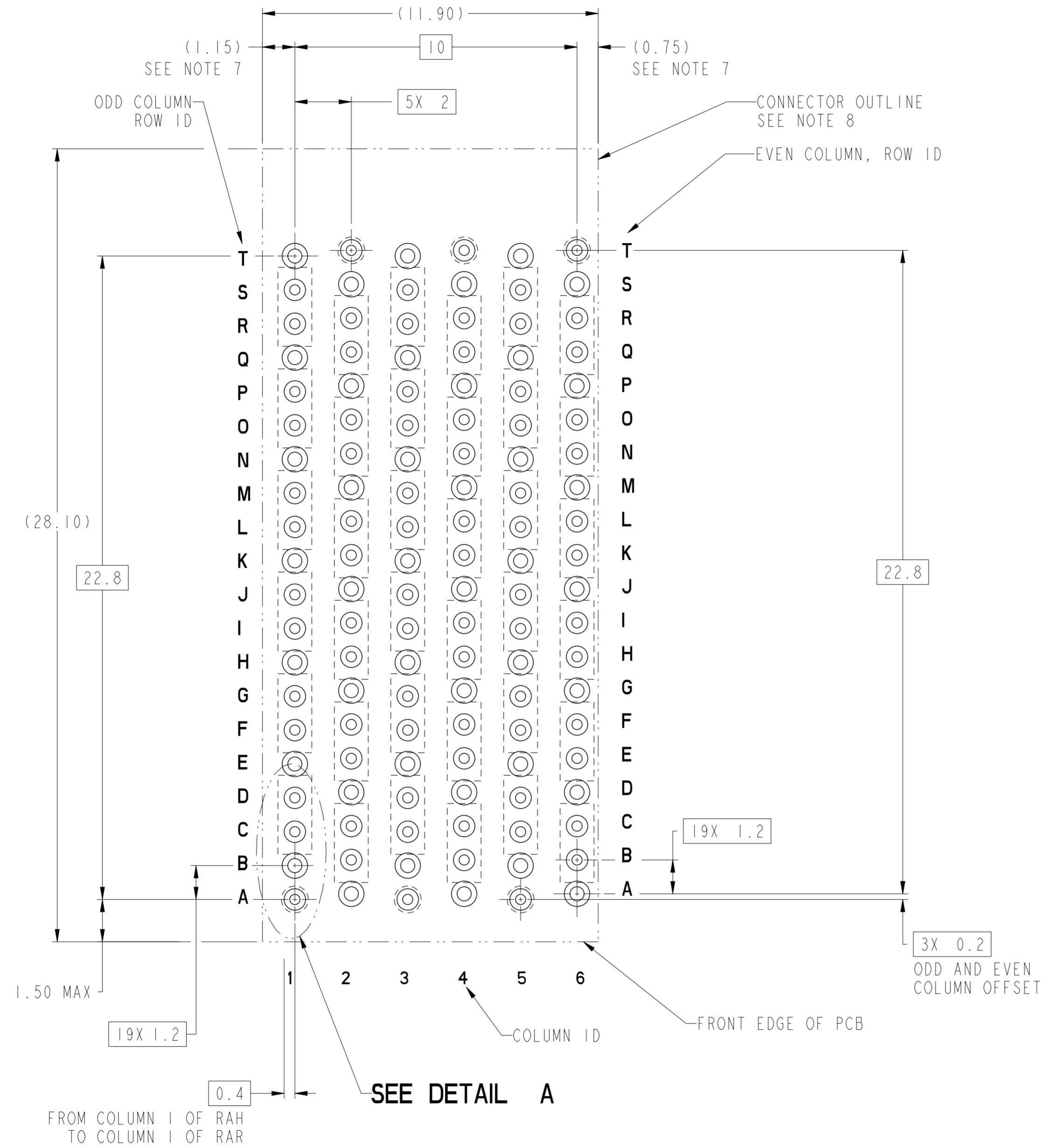


10125350-401YLF
ADVANCED MATE/SHORT DETECT CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
 SHORT DETECT POSITION IS T2 ONLY
 FOR ALL DIMENSIONS SEE 10125350-101YLF ON SHEET 1

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spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	1:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1												
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/04	product family	ExaMAX	rel level	Released								
surface	<table border="1"> <tr> <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 rowspan="2">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 6 PR, 120 POS, 6 IMLA, 2MM		dwg no	10125350		rev	C
linear	0.X		±.3																	
	0.XX		±.10																	
	0.XXX	±.050																		
angular	0°	±°																		
			cat. no.	Product - Customer Drw		sheet 4 of 11														



DETAIL A
SCALE 16:1

**RECOMMENDED PCB LAYOUT FOR
10125350-Y01YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	3:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1	rel level Released	rev C		
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/04			product family	ExaMAX
surface	linear 0.X ±.3 0.XX ±.10 0.XXX ±.050 angular 0° ±°	Amphenol FCI		title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 120 POS, 6 IMLA, 2MM			cat. no. Product - Customer Drw	dwg no 10125350			sheet 5 of 11	

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

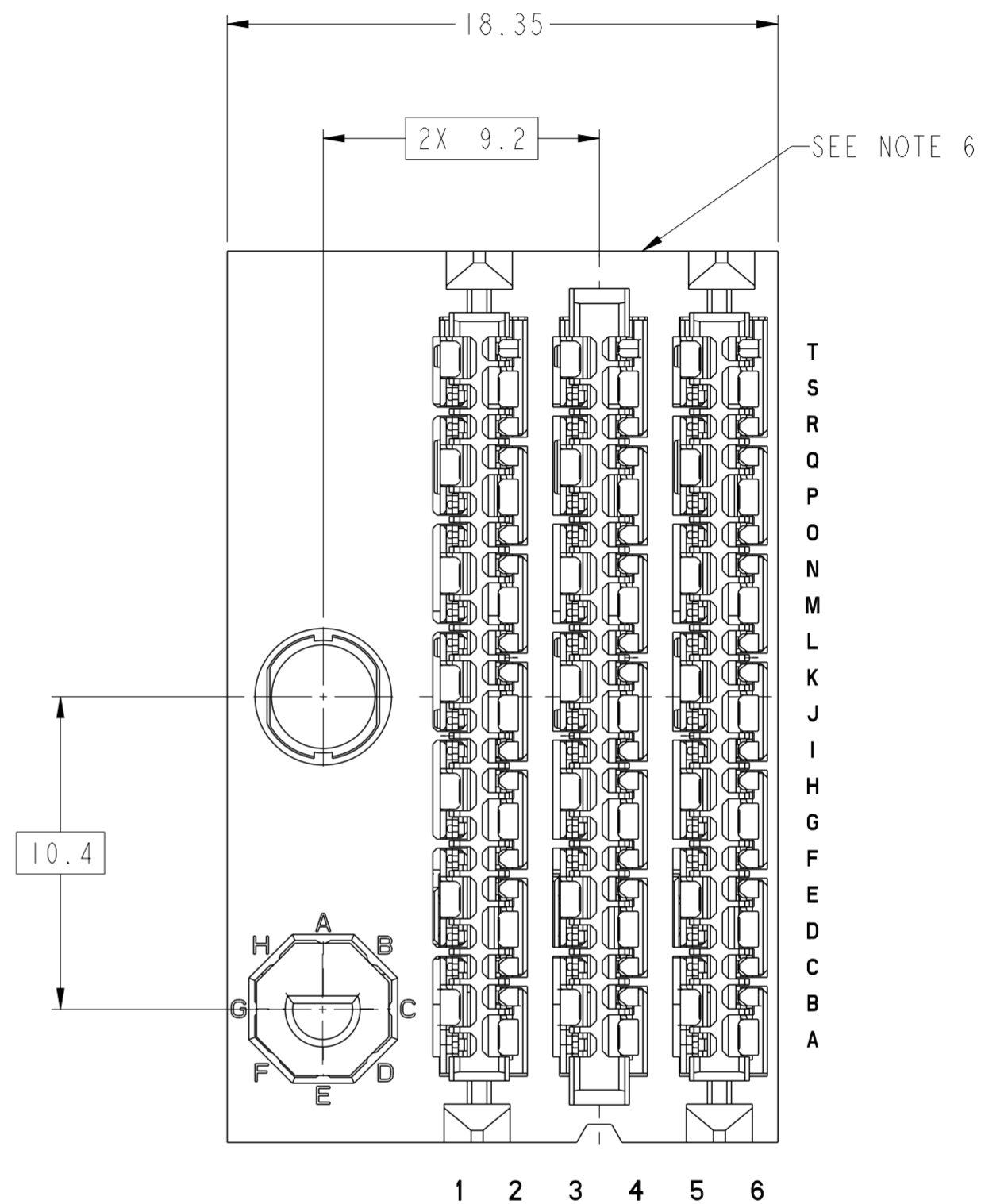
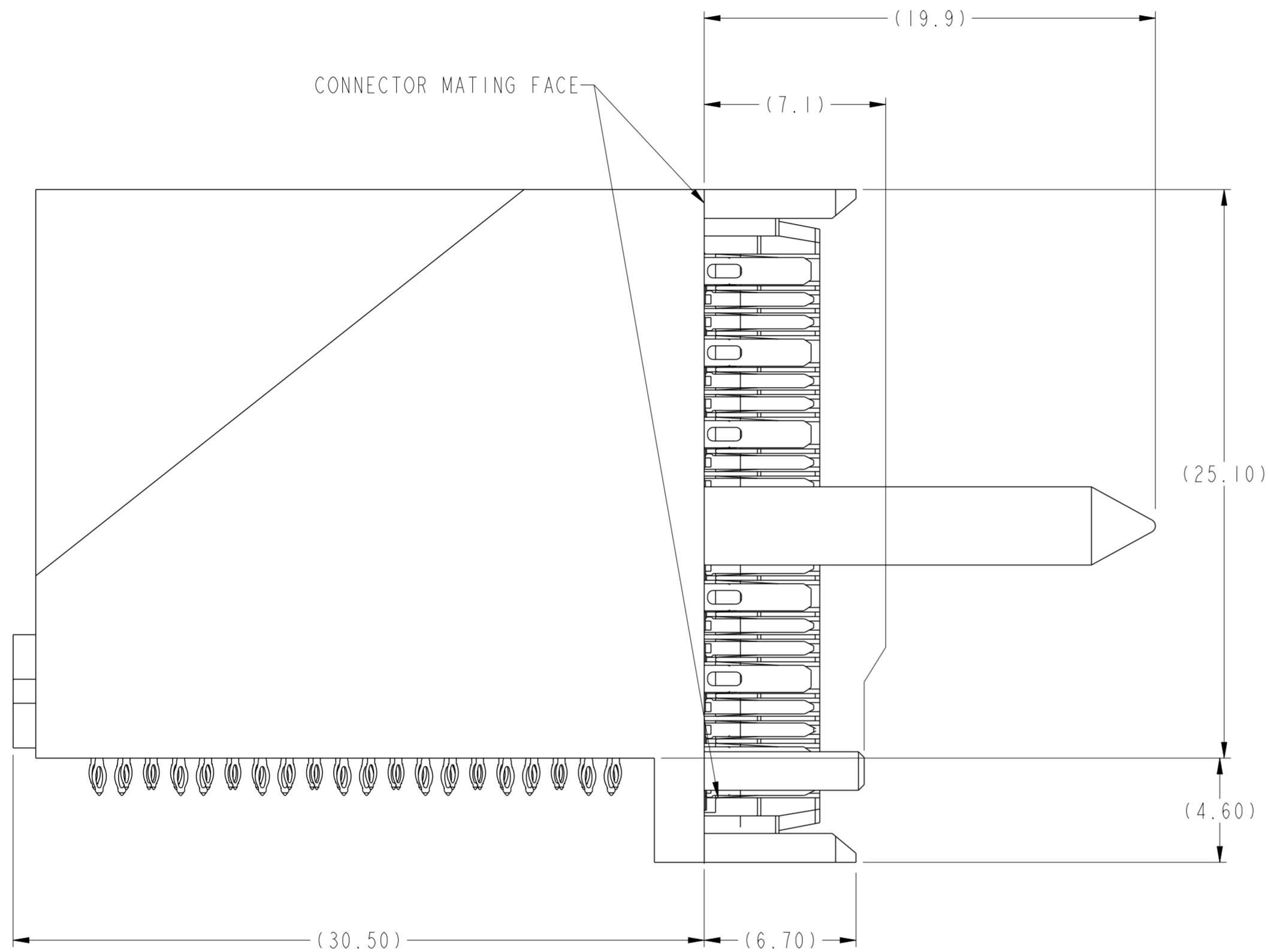
B

C

D

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F



10125350-Y1AYLF THRU -Y1JYLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	6:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1	rel level	Released										
ASME Y14.5M		chr	-	2020/05/04			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 6 PR, 120 POS, 6 IMLA, 2MM		dwg no	10125350	rev	C
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±°																		
		cat. no.	Product - Customer Drw		sheet 6 of 11															

PDS: Rev :C

STATUS:Released

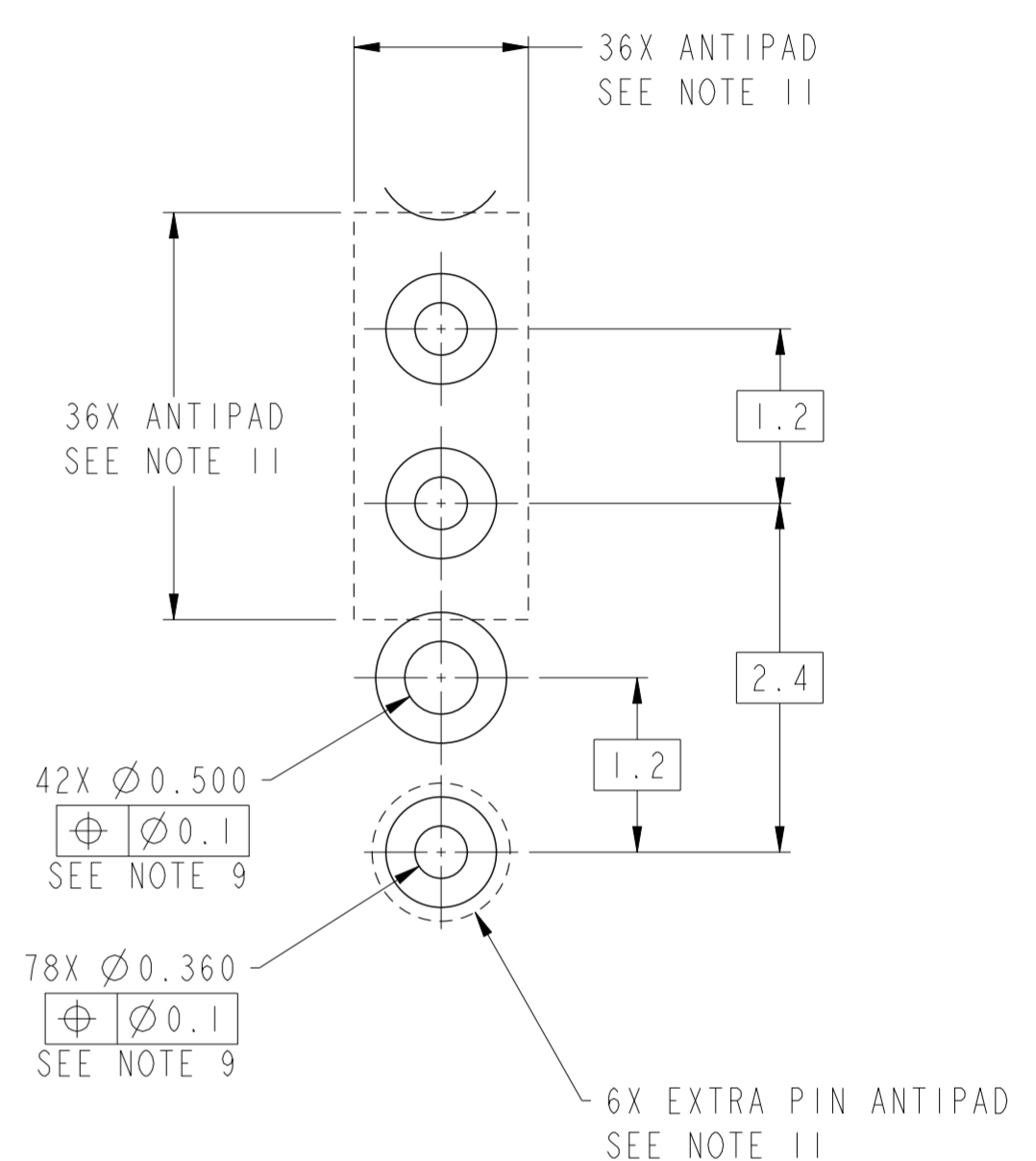
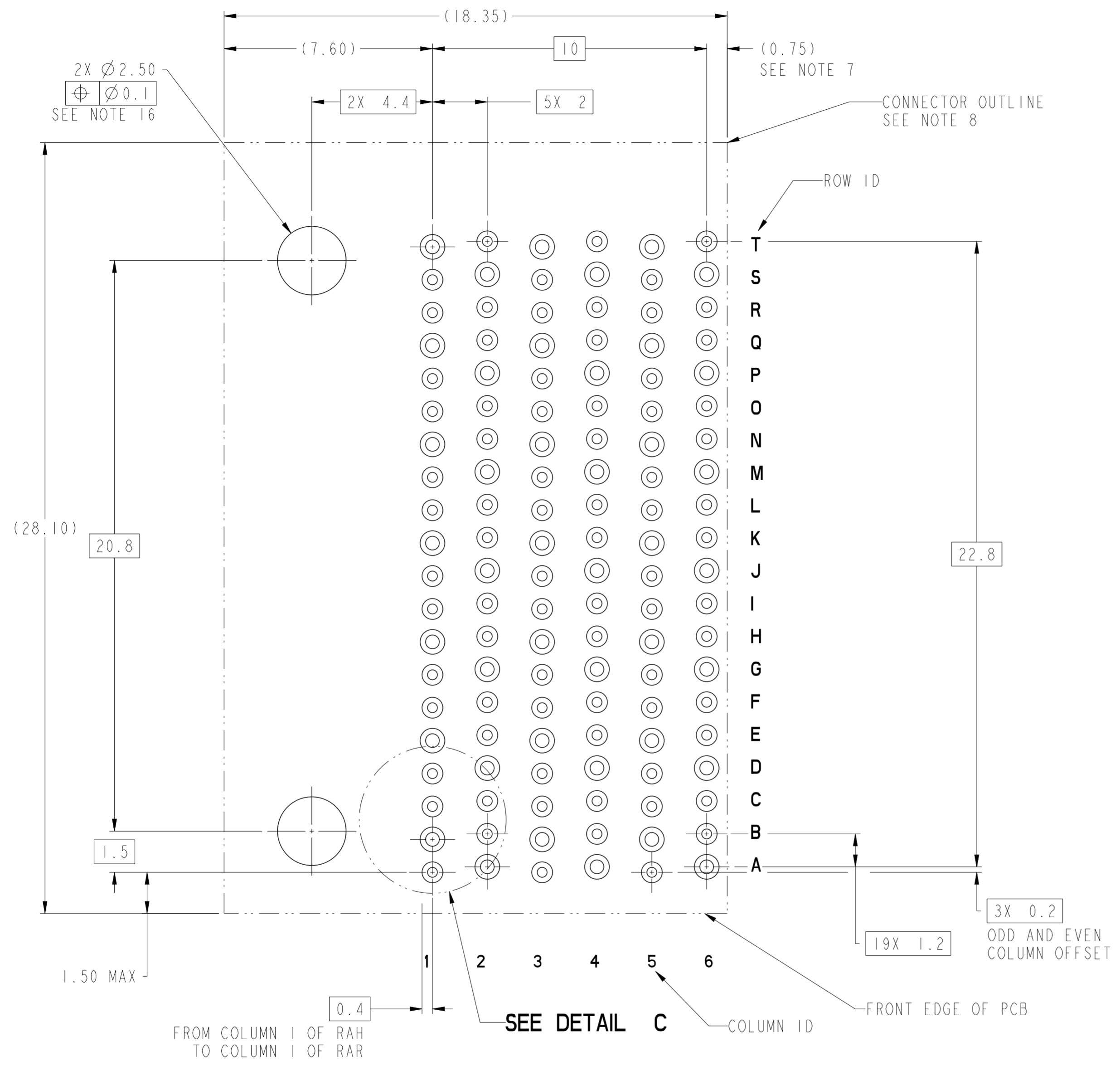
Printed: May 05, 2020

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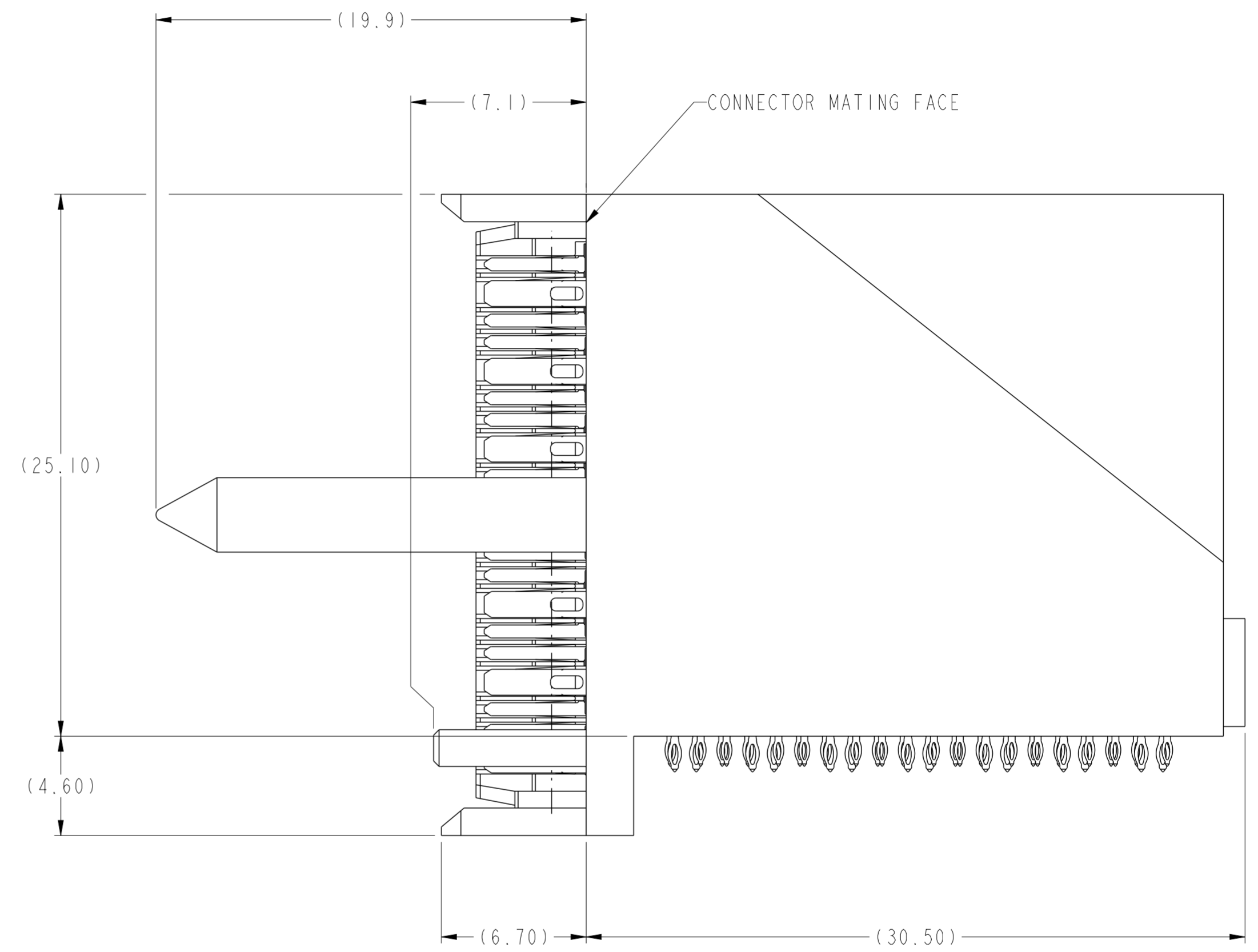
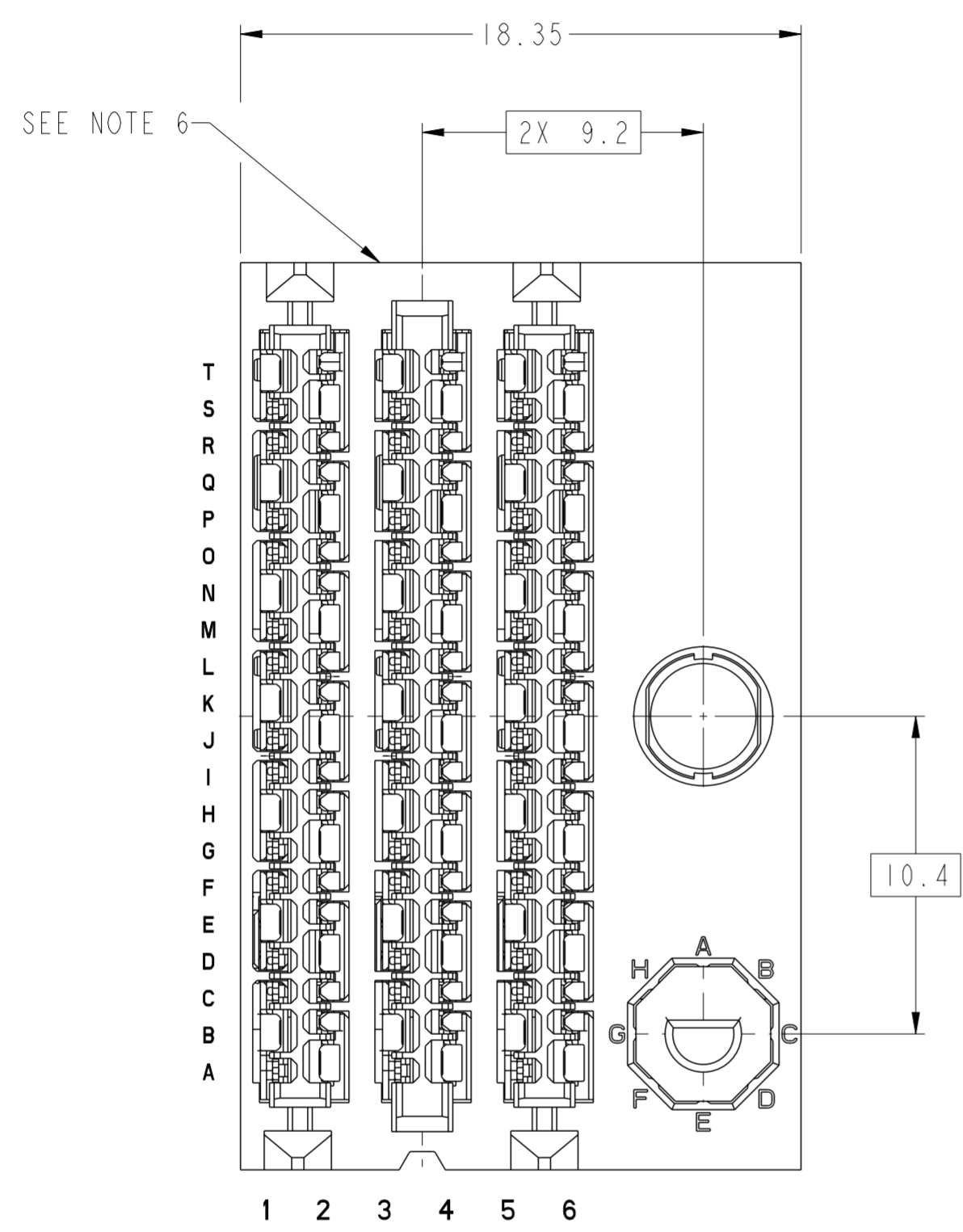
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DETAIL C
SCALE 20:1

RECOMMENDED PCB LAYOUT FOR
10125350-Y1AYLF THRU -Y1JYLF
w/RIGHT GUIDANCE AND NO END WALLS
COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16

spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1		
ASME Y14.5M		chr	-	2020/05/04				rel level	Released	
surface	linear	0.X	±.3		product family	ExaMAX		title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 120 POS, 6 IMLA, 2MM cat. no.	dwg no 10125350	rev C
		0.XX	±.10		Product - Customer Drw	sheet 7 of 11				
		0.XXX	±.050							
	angular	0°	±°							

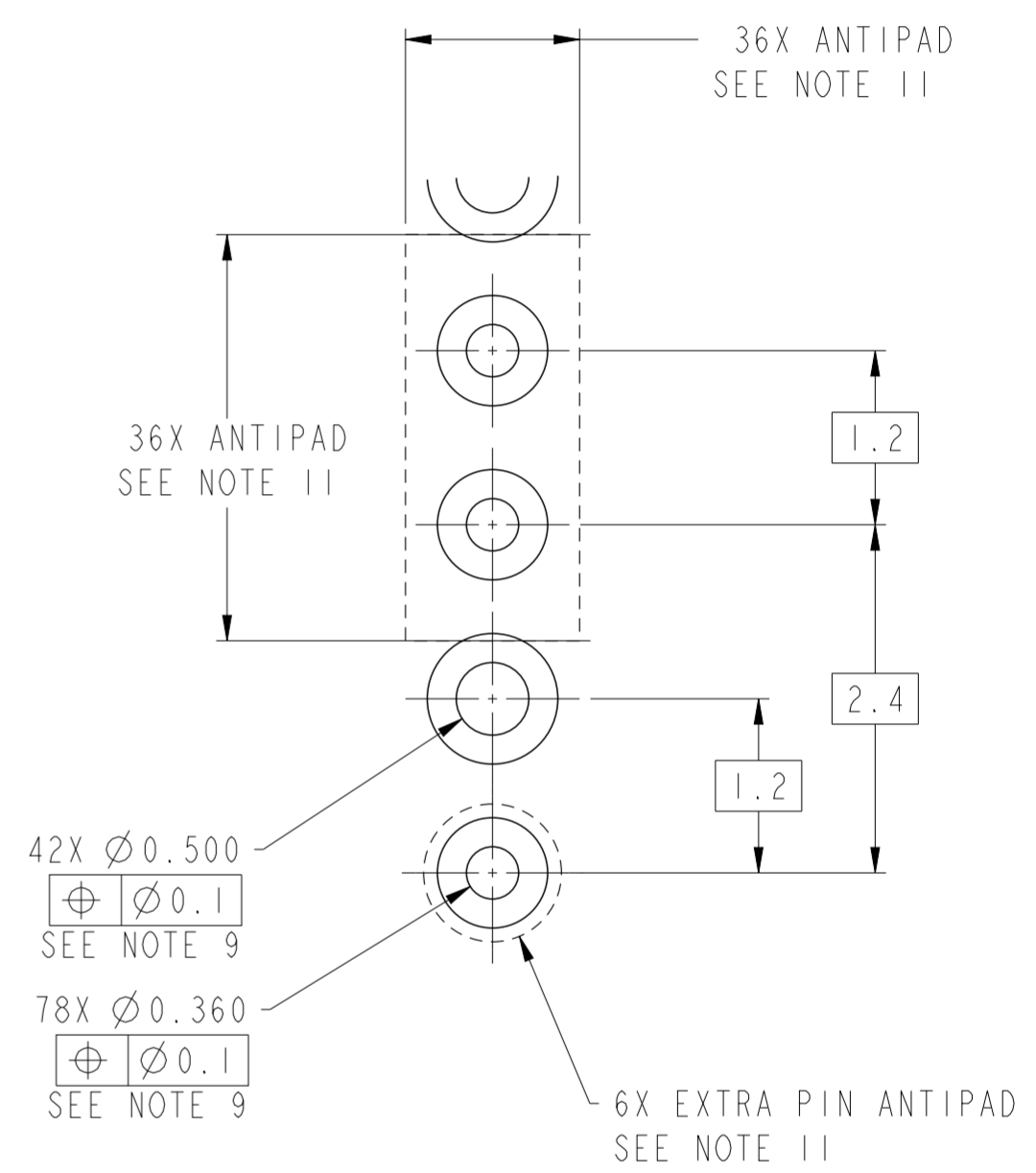
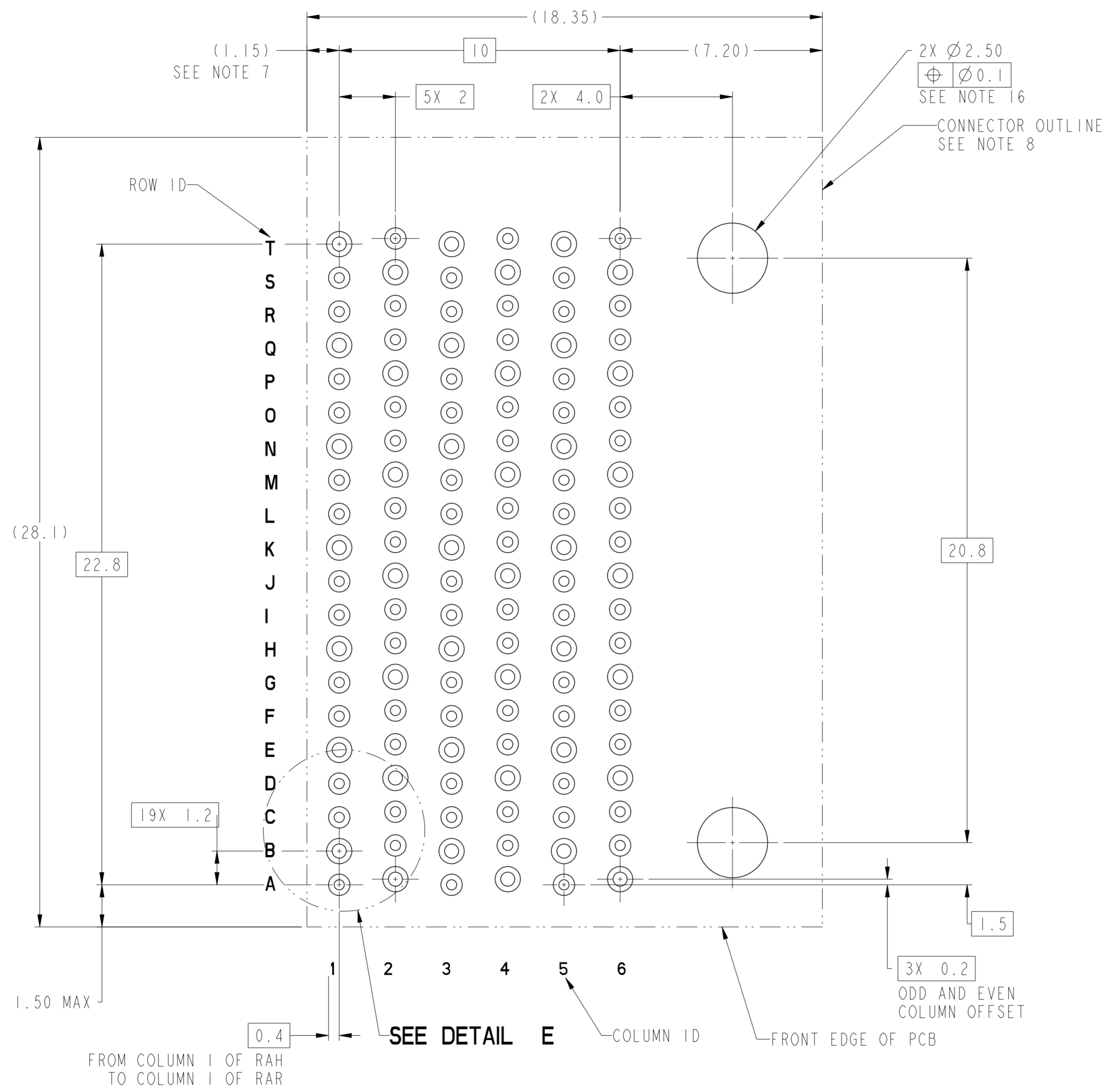


10125350-Y2AYLF THRU -Y2JYLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1														
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/04	product family	ExaMAX	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°	±°			title ExaMAX RIGHT-ANGLE HDR ASSY 6 PR, 120 POS, 6 IMLA, 2MM		dwg no 10125350	rev C	cat. no. Product - Customer Drw sheet 8 of 11		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				



DETAIL E
SCALE 20:1

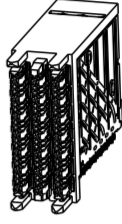
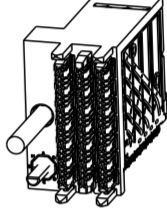
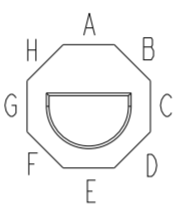
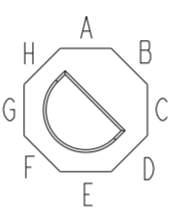
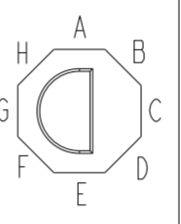
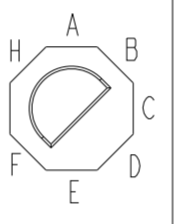
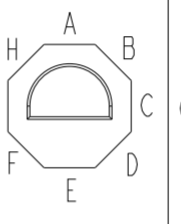
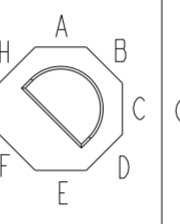
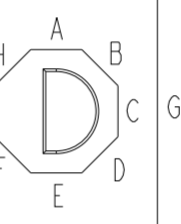
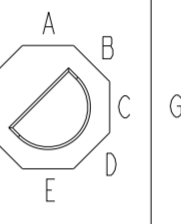
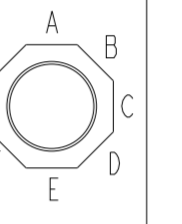
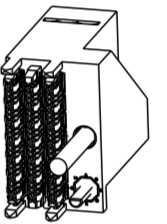
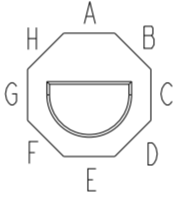
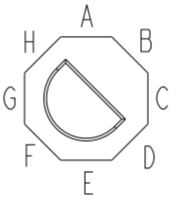
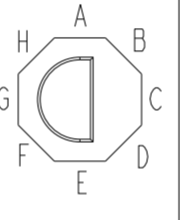
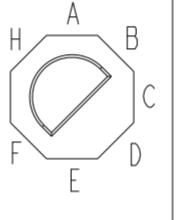
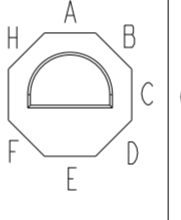
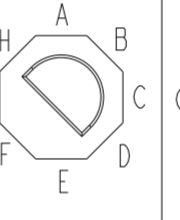
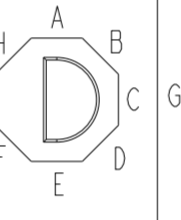
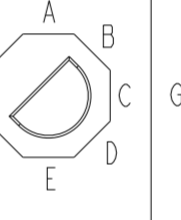
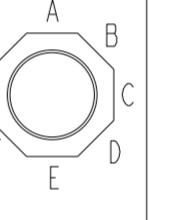
**RECOMMENDED PCB LAYOUT FOR
10125350-Y2AYLF THRU -Y2JYLF
w/LEFT GUIDANCE AND NO END WALLS
COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16**

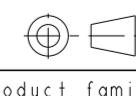
spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21			ecn no	ELX-DG-36098-1	rel level	Released	
ASME Y14.5M		chr	-	app							Heaven Cen
surface	linear	0.X	±.3		Amphenol FCI		title	ExaMAX RIGHT-ANGLE HDR		cat. no. Product - Customer Drw sheet 9 of 11	
		0.XX	±.10		assy	ASSY 6 PR, 120 POS, 6 IMLA, 2MM		dwg no	10125350		
	angular	0°	±°		rev	C					

10125350 - Y Y Y Y L F

PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10125350-1YYYYLF	STANDARD MATE
10125350-2YYYYLF	ADVANCED MATE
10125350-3YYYYLF	SHORT DETECT
10125350-4YYYYLF	ADVANCED MATE & SHORT DETECT

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)		
											

spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	1:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/04/21		← →	ecn no	ELX-DG-36098-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	rel level				Released		
surface	linear	appr	Heaven Cen	2020/05/04	product family	ExaMAX	rel level	Released	rev	C
	angular	Amphenol FCI		title	ExaMAX RIGHT-ANGLE HDR		dwg no	10125350		
				cat. no.	ASSY 6 PR, 120 POS, 6 IMLA, 2MM		Product - Customer Drw	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
ORGANIZER: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
- 2 - CONTACT PLATING:
SEPARABLE INTERFACE:
-YYYYLF: 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.
-YYY2LF: GXT+ OVER NICKEL
-YYY9LF: GXT OVER NICKEL
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, 10125350-2YYYYLF, 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, 10125350-3YYYYLF, WHEN MATED WITH A STANDARD MATE RECEPTACLE WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮- THE ADVANCED MATE/SHORT DETECT HEADER, 10125350-4YYYYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75 MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS AND 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑯- FOR CONNECTORS WITH EITHER A RIGHT OF LEFT GUIDE MODULE, TWO PHILLIPS PAN HEAD M2 HOLD-DOWN SCREWS MUST BE USED TO SECURE THE CONNECTOR TO THE 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 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 RIGHT ANGLE HEADER MATES WITH A RIGHT GUIDE RIGHT ANGLE RECEPTACLE).
- ⑱- ALL GROUND CONTACTS WITHIN A COLUMN ARE COMMONED

spec ref	SEE NOTES	dr	Eppley, Nazare	2013/04/29	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/04/21		← MM →	ecn no	ELX-DG-36098-1		
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/04	product family	ExaMAX
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX RIGHT-ANGLE HDR		dwg no	10125350	
		0.XX	±.10		assy	ASSY 6 PR, 120 POS, 6 IMLA, 2MM		rev	C	
	angular	0°	±°		cat. no.	Product - Customer Drw		sheet 11 of 11		