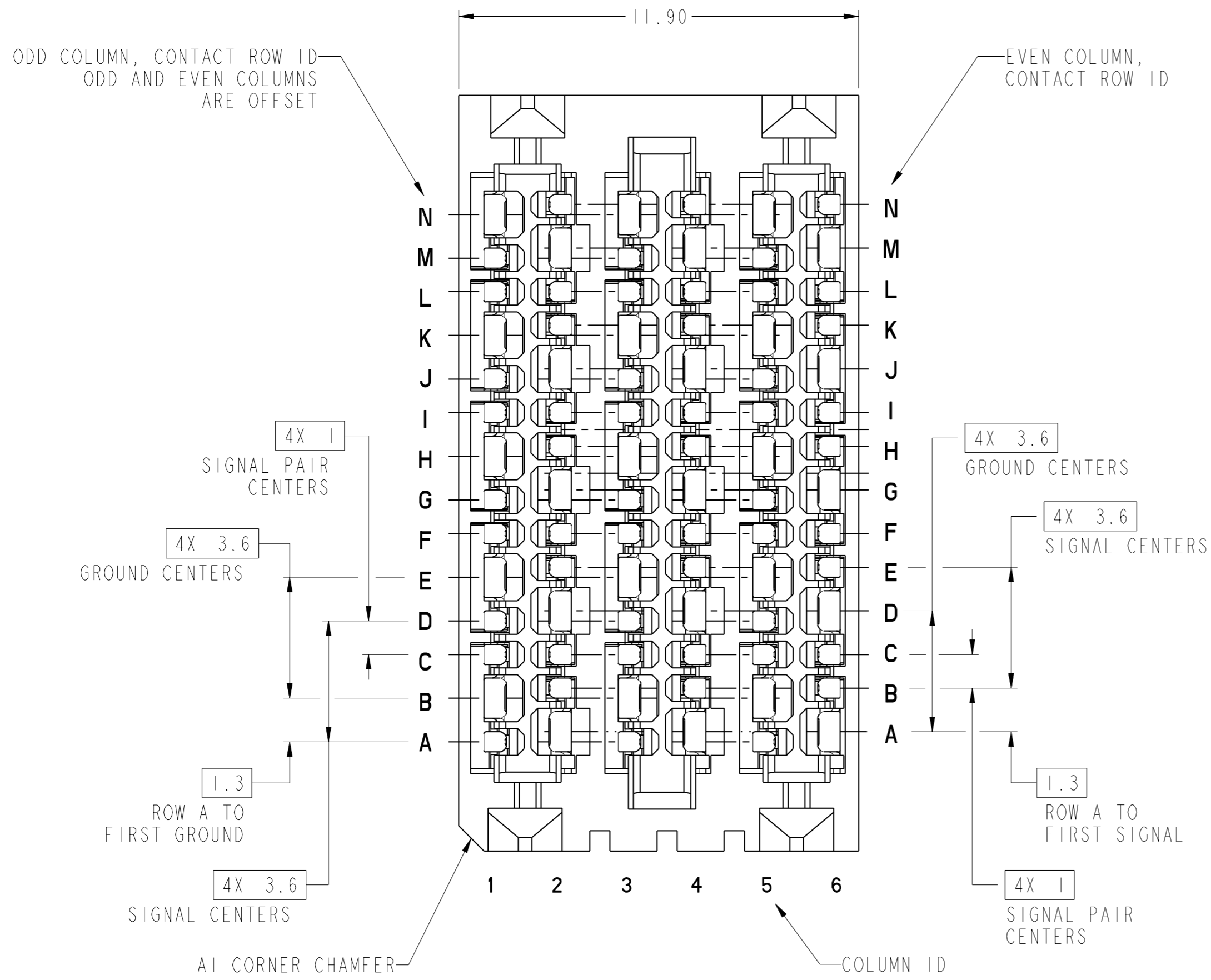
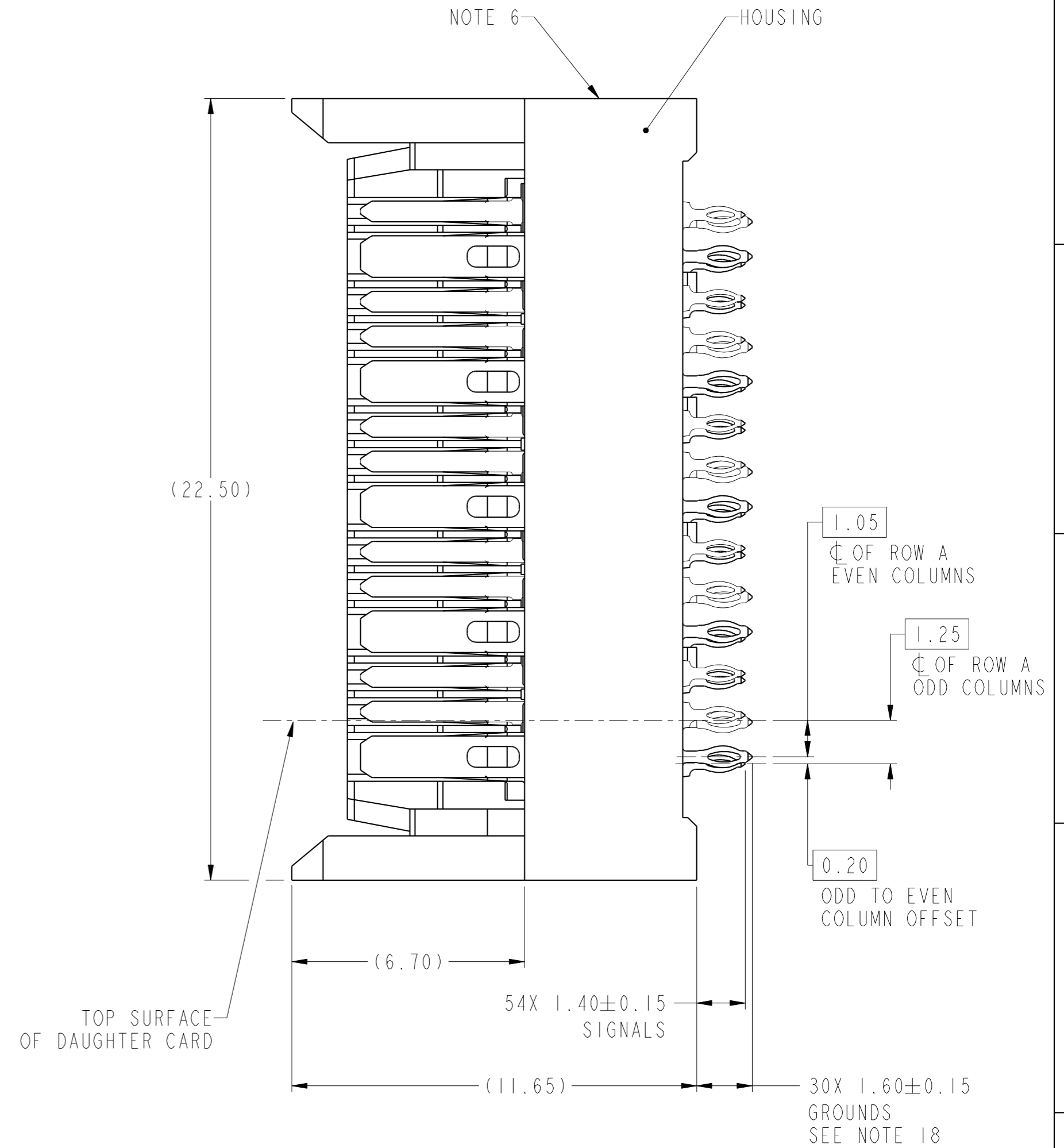


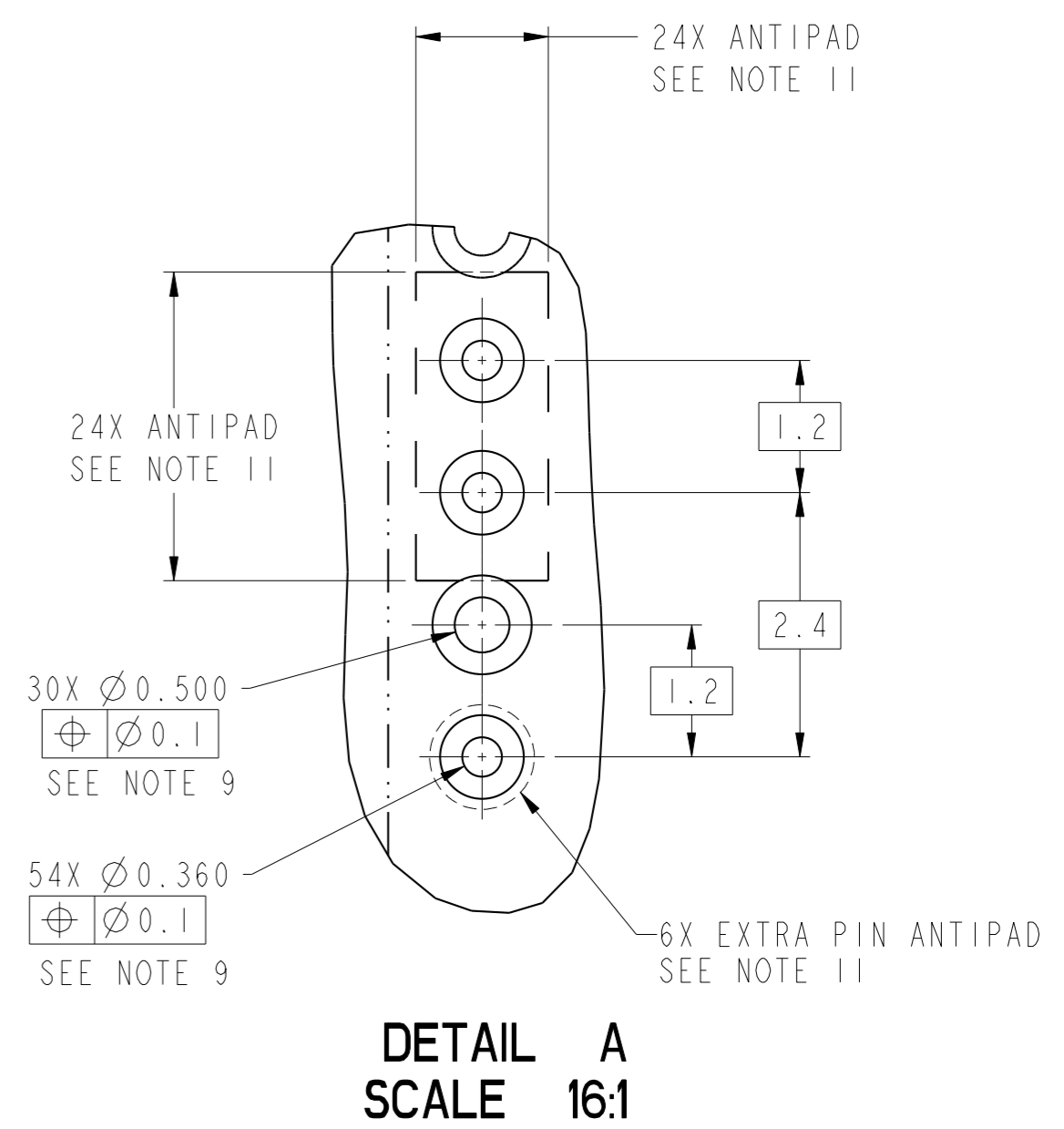
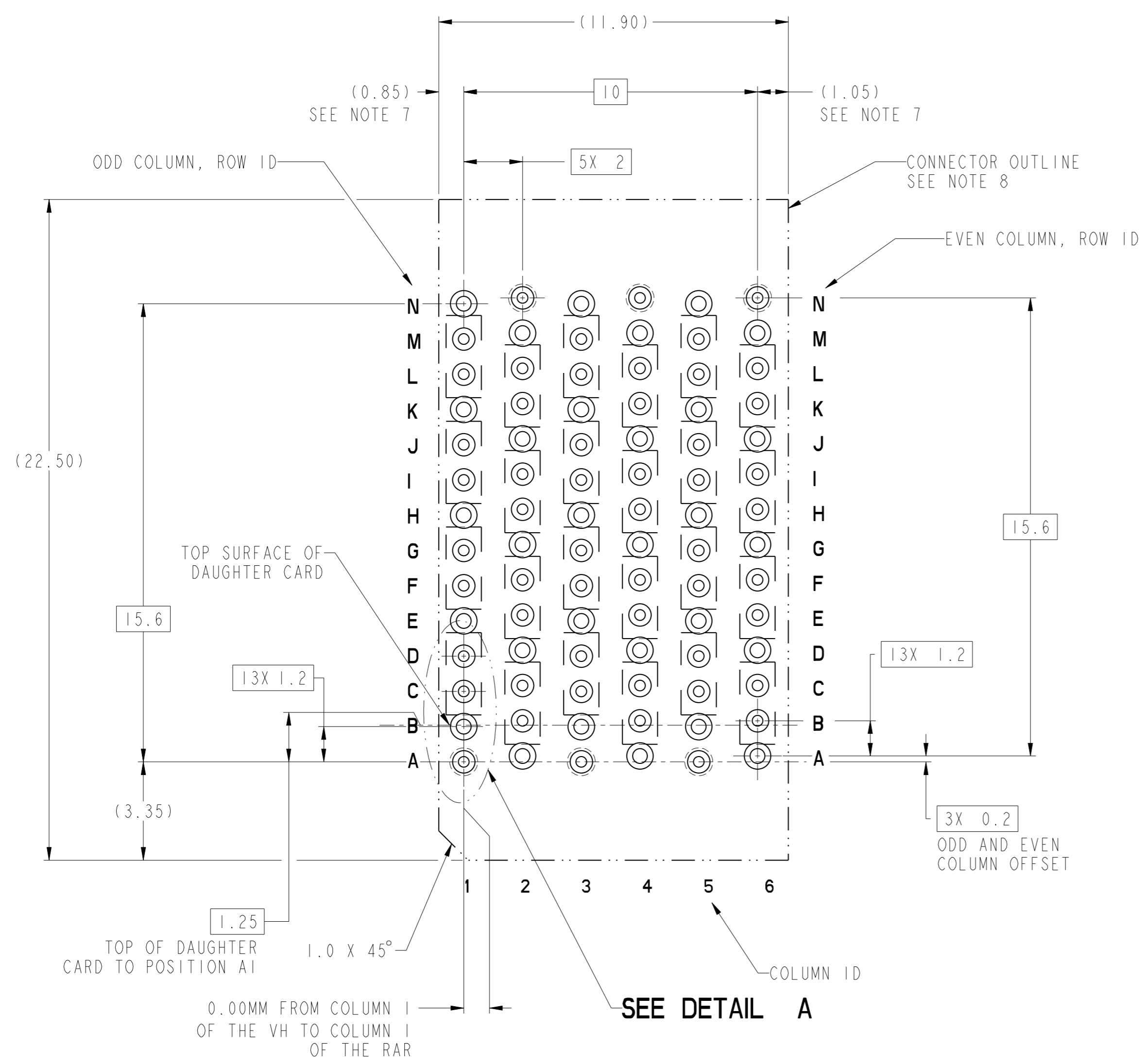
PRODUCT NUMBER  
SEE SHEET 10



10127896-Y01LF  
(10127896-101LF STANDARD MATE CONNECTOR SHOWN)

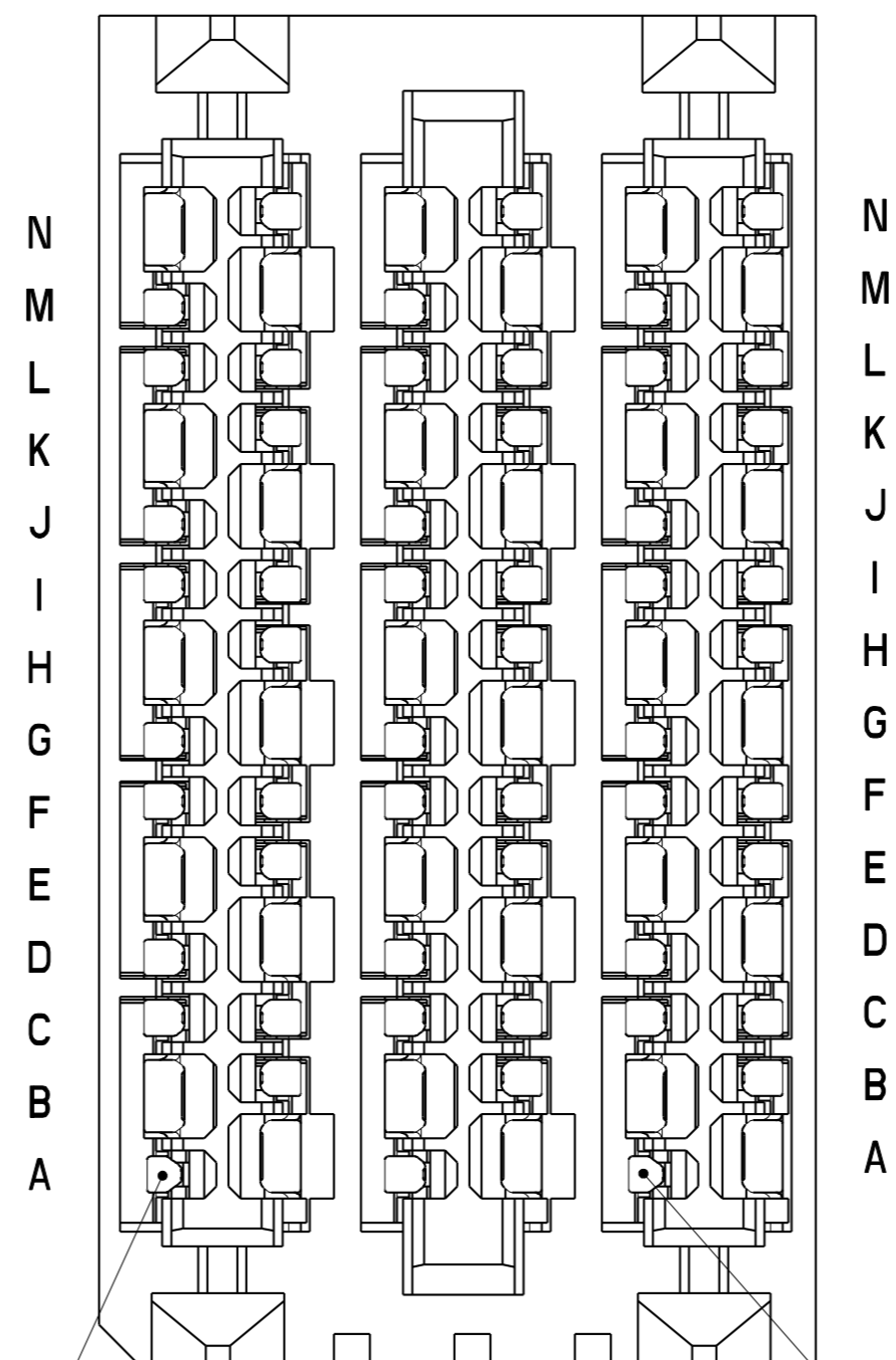


spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	8:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05			ecn no	-	rel level	Released											
ASME Y14.5M		chr	-	apppr							Heaven Cen	2018/01/05	product family	ExaMAX							
surface	<table 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°	±°			<b>ExaMAX VERTICAL HEADER ASSY</b> 4 PR, 84 POS, 6 IMLA		title cat. no.	10127896 SEE TABLE	Product - Customer Drw	sheet 1 of 11
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±°																			



**RECOMMENDED PCB LAYOUT FOR  
10127896-Y01LF COMPONENT SIDE  
SEE NOTES 7, 8, 9, & 11**

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	3:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05			ecn no	-	rel level	Released												
ASME Y14.5M		chr	-	apppr							Heaven Cen	2018/01/05	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 VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA		dwg no 10127896	rev A	cat. no. SEE TABLE	Product - Customer Drw	sheet 2 of 11
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				



ADVANCED MATE POSITION A1 SEE NOTE 13

1 2 3 4 5 6

ADVANCED MATE POSITION A5 SEE NOTE 13

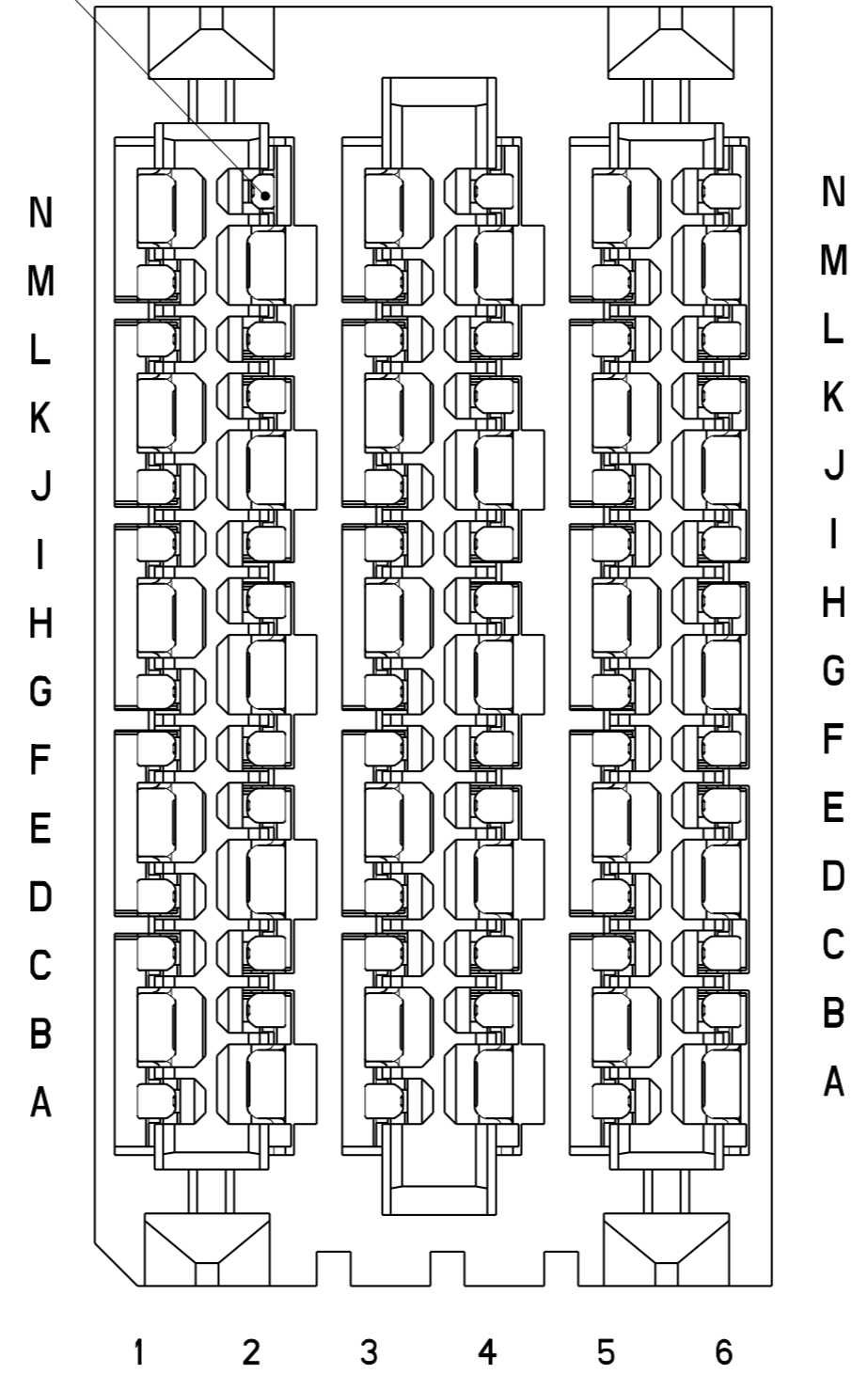
**10127896-201LF**  
**ADVANCED MATE CONNECTOR**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY  
 FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

**Amphenol FCI**

© 2016 AFCI

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	6:1												
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2018/01/05			ecn no	-														
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	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	2018/01/05	product family	ExaMAX	rel level	Released		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA		dwg no 10127896	rev A															
		cat. no.		SEE TABLE	Product - Customer Drw	sheet 3 of 11																

SHORT DETECT  
POSITION N2  
SEE NOTE 14



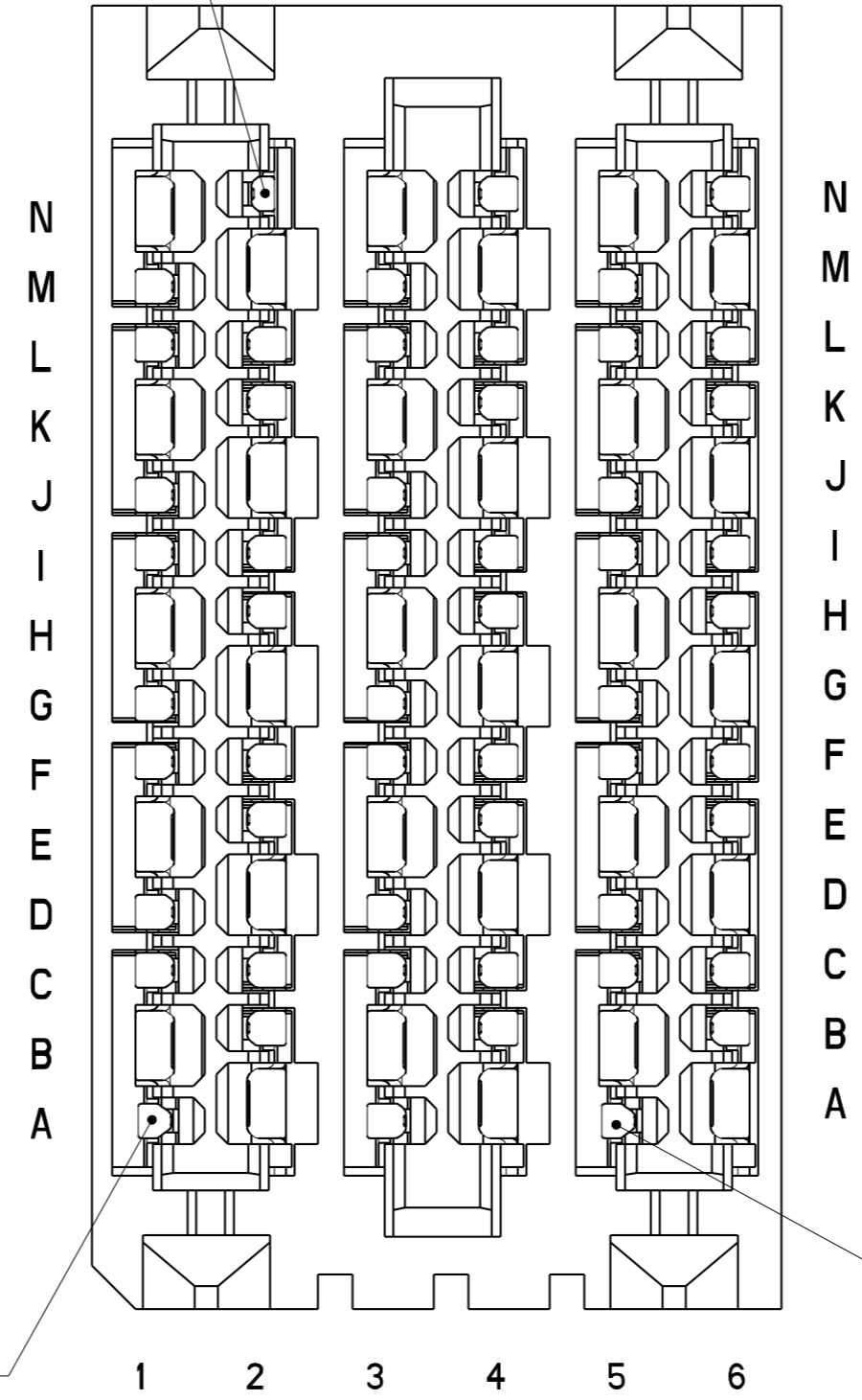
10127896-301LF  
SHORT DETECT CONNECTOR  
SHORT DETECT POSITION IS N2 ONLY  
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

Amphenol  
FCi

© 2016 AFci

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05			ecn no	-														
ASME Y14.5M		chr	-	2018/01/05			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	2018/01/05	product family	ExaMAX	rel level	Released		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA		dwg no 10127896	rev A															
		cat. no.		SEE TABLE	Product - Customer Drw		sheet 4 of 11															

SHORT DETECT  
POSITION N2  
SEE NOTE 15



ADVANCED MATE  
POSITION A1  
SEE NOTE 15

ADVANCED MATE  
POSITION A5  
SEE NOTE 15

**10127896-401LF**  
**ADVANCED MATE/SHORT DETECT CONNECTOR**  
**ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY**  
**SHORT DETECT POSITION IS N2 ONLY**  
**FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2**

**Amphenol  
FCi**

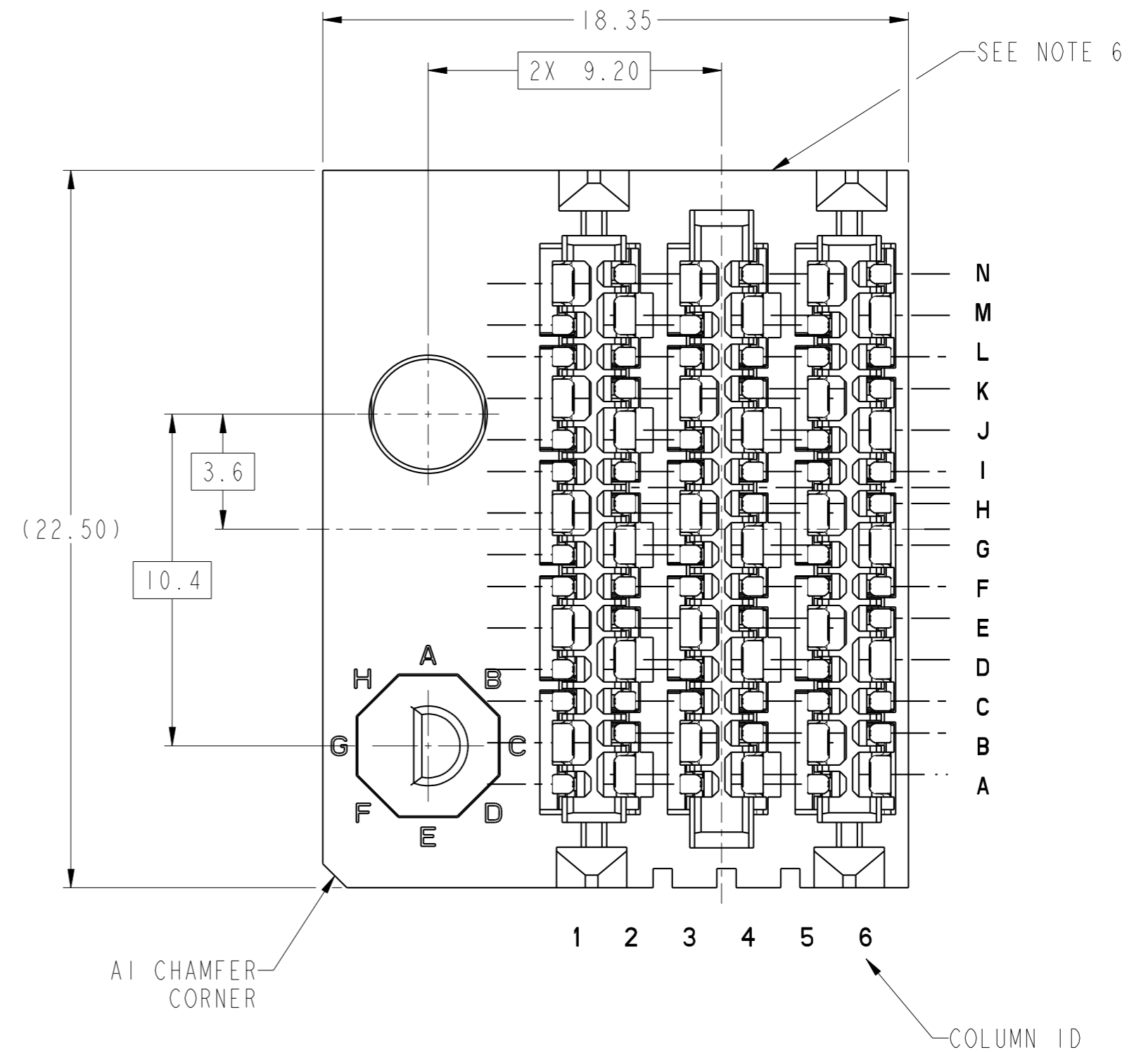
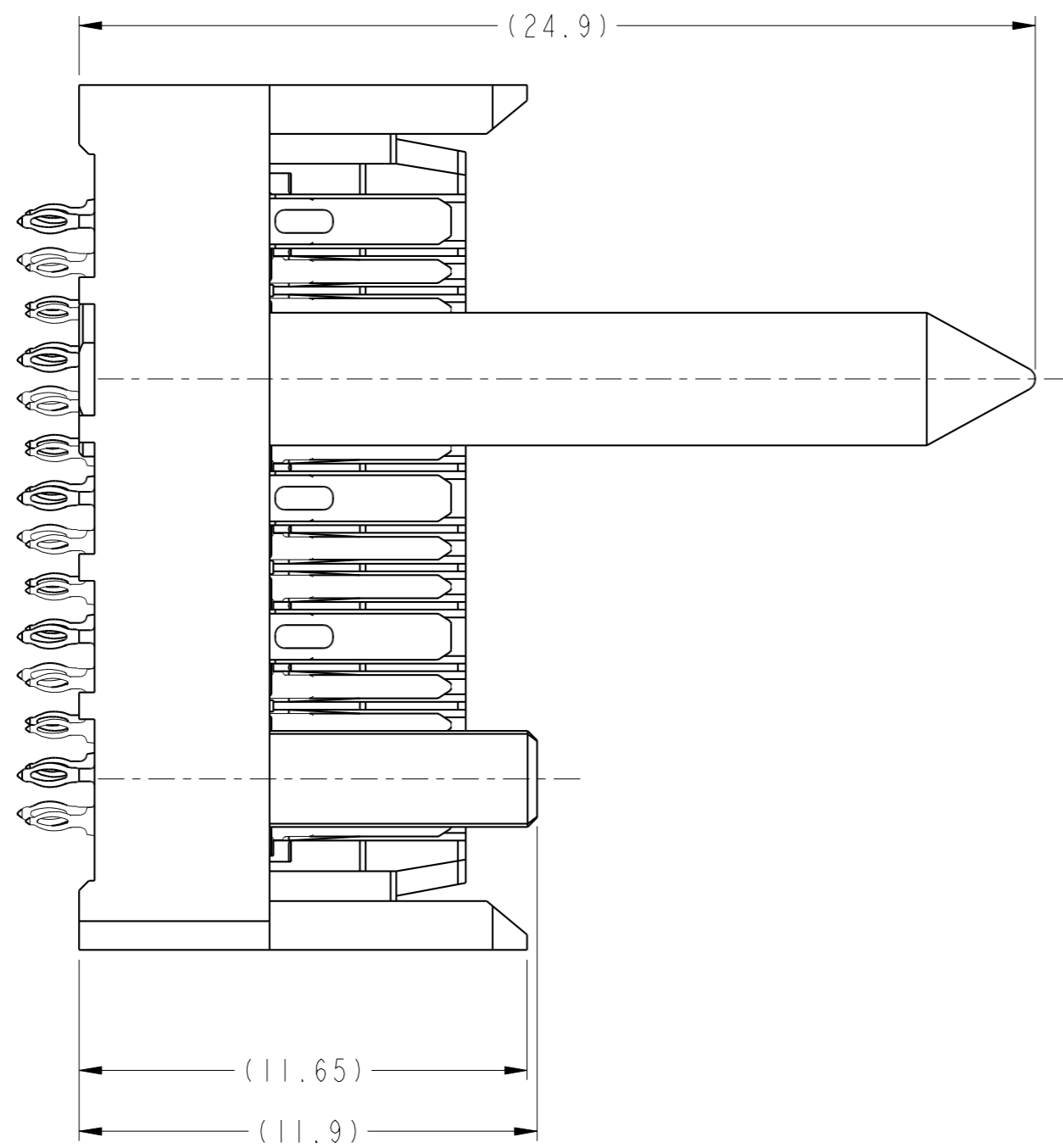
© 2016 AFci

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	1:1				
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2018/01/05			ecn no	-	rel level		Released			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	apppr			Heaven Cen	2018/01/05	product family	ExaMAX	rel level	Released		
surface	-	linear	0.X	±.3			<b>Amphenol FCi</b>		<b>ExaMAX VERTICAL HEADER ASSY</b>		rev	A		
			0.XX	±.10			<b>FCi</b>		<b>ExaMAX VERTICAL HEADER ASSY</b>		cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 11
		angular	0°	±°			<b>FCi</b>		<b>ExaMAX VERTICAL HEADER ASSY</b>		cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 11

PDS: Rev :A

STATUS:Released

Printed: Jan 08, 2018

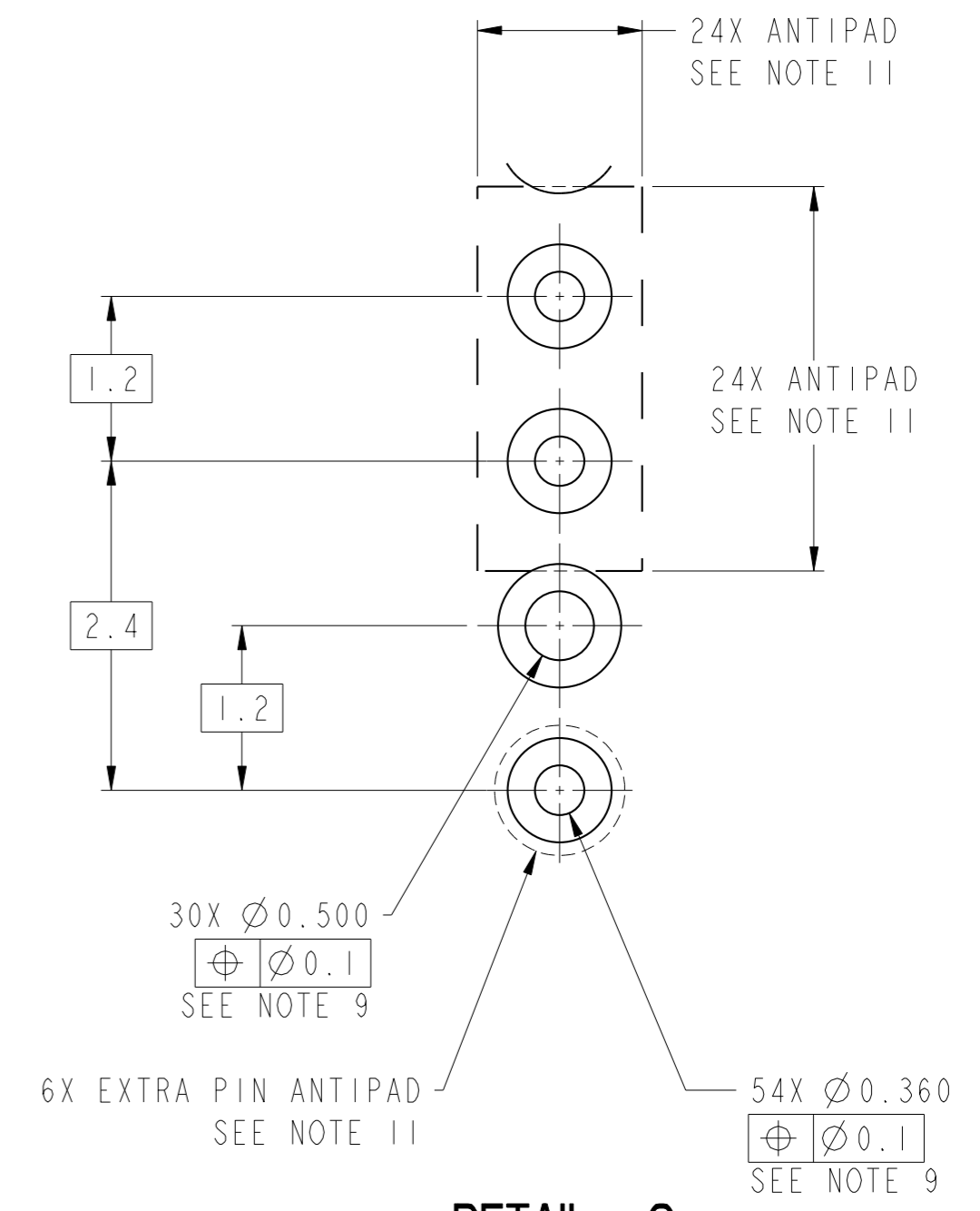
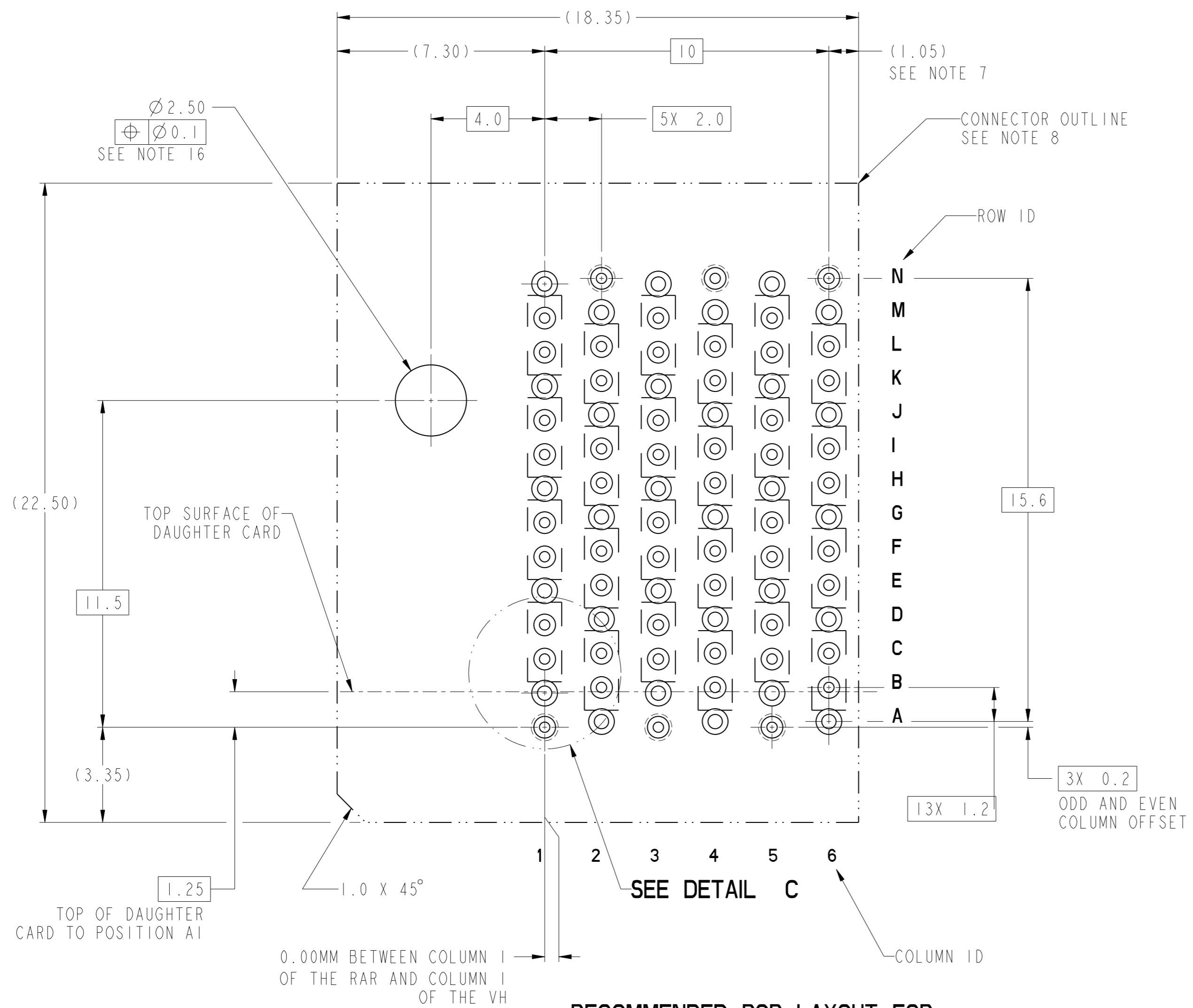


10127896-Y1ALF THRU -Y1JLF  
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)  
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol  
 FCI

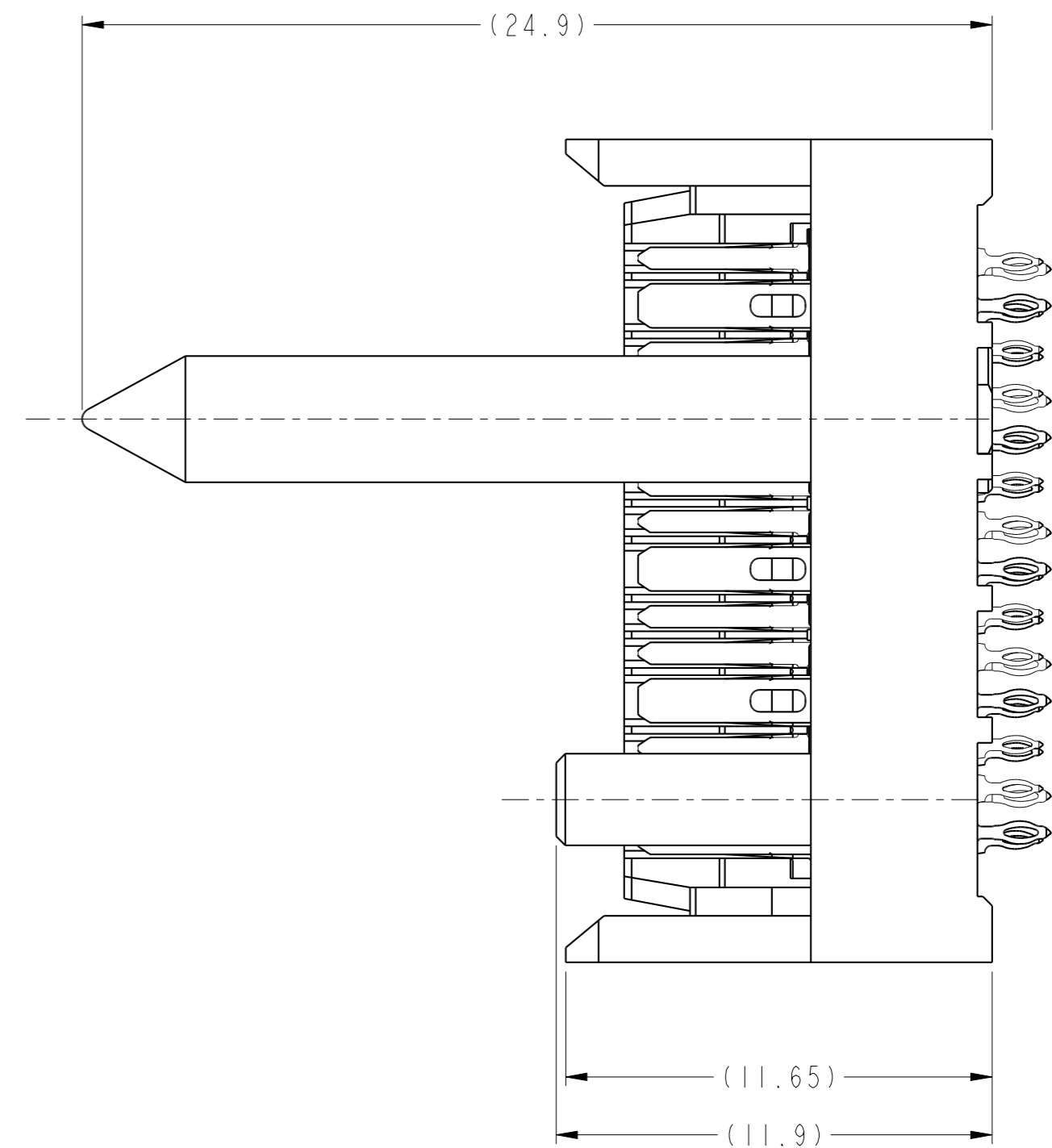
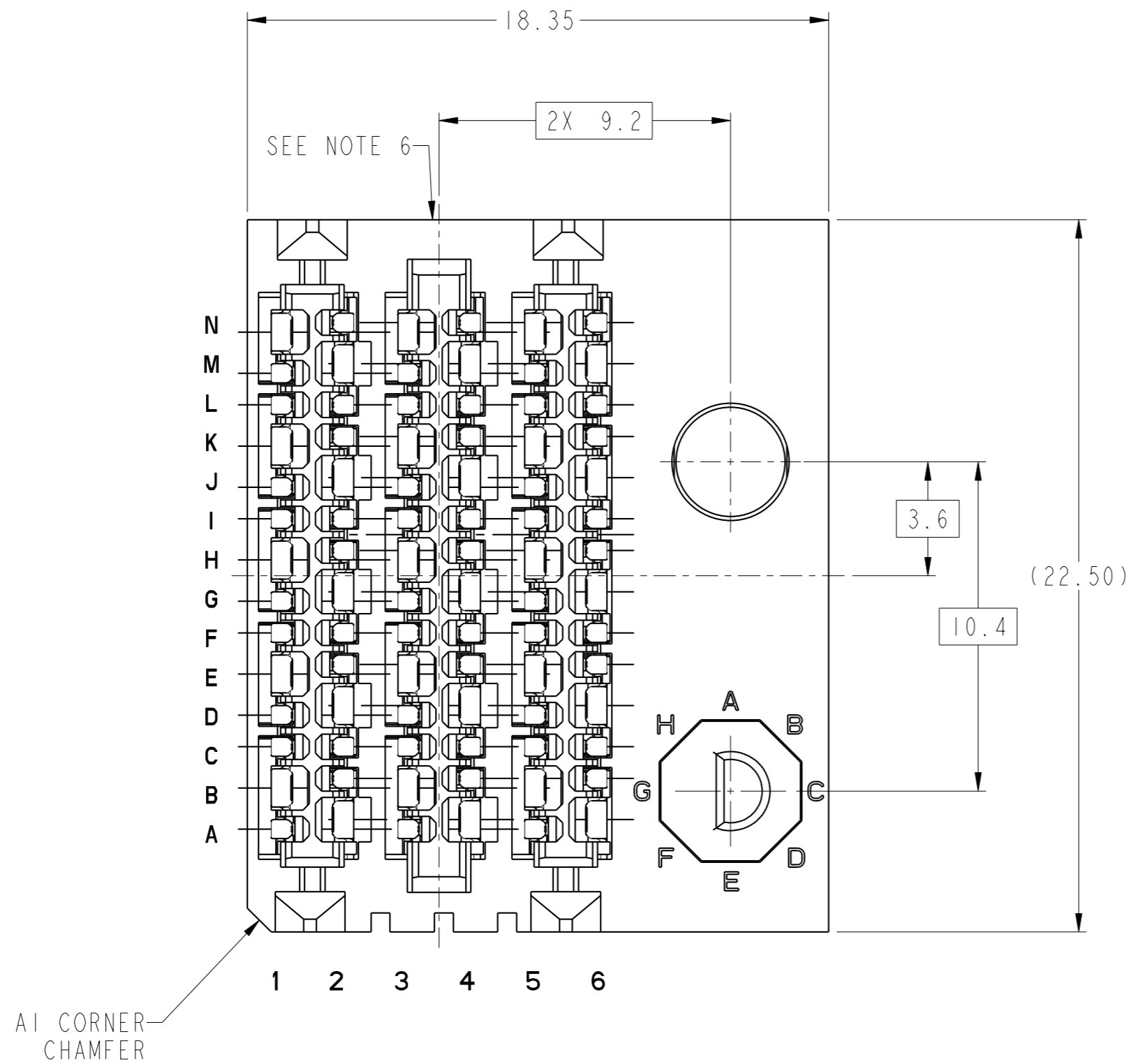
© 2016 APCI

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	6:1													
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05			ecn no	-															
ASME Y14.5M		chr	-	2018/01/05			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°	±°	appr	Heaven Cen	2018/01/05	<b>Amphenol FCI</b>		title	ExaMAX VERTICAL HEADER ASSY		rev	A
linear	0.X	±.3																					
	0.XX	±.10																					
	0.XXX	±.050																					
angular	0°	±°																					
							4 PR, 84 POS, 6 IMLA	cat. no.	SEE TABLE	Product - Customer Drw	sheet 6 of 11												



**RECOMMENDED PCB LAYOUT FOR  
10127896-Y1YLF w/RIGHT GUIDANCE  
COMPONENT SIDE  
SEE NOTES 7, 8, 9, 11 & 16**

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	2:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05			ecn no	-	rel level	Released												
ASME Y14.5M		chr	-	apppr							Heaven Cen	2018/01/05	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°	±°			<b>ExaMAX VERTICAL HEADER ASSY</b> 4 PR, 84 POS, 6 IMLA		dwg no 10127896	rev A	cat. no. SEE TABLE	Product - Customer Drw	sheet 7 of 11
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				



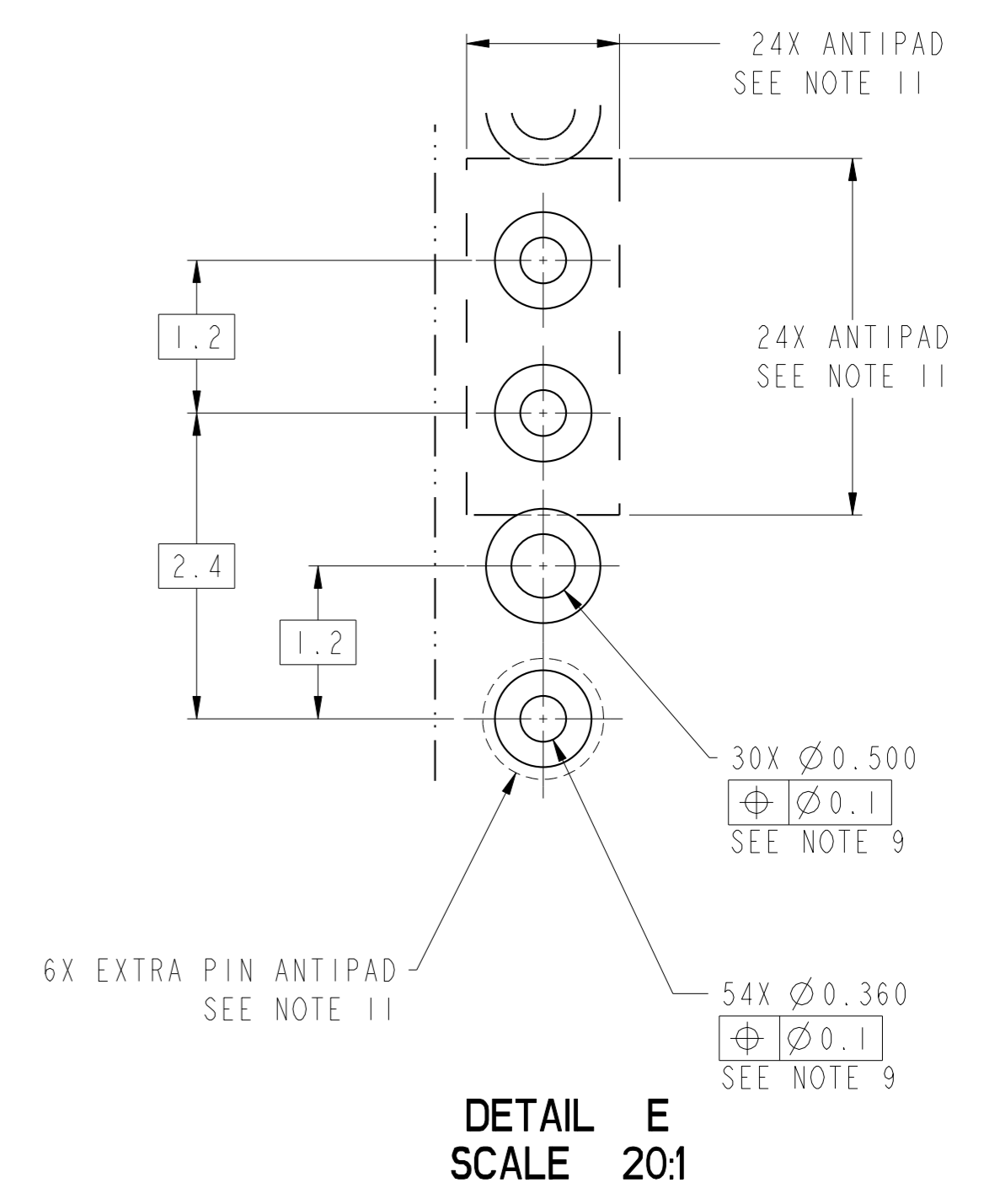
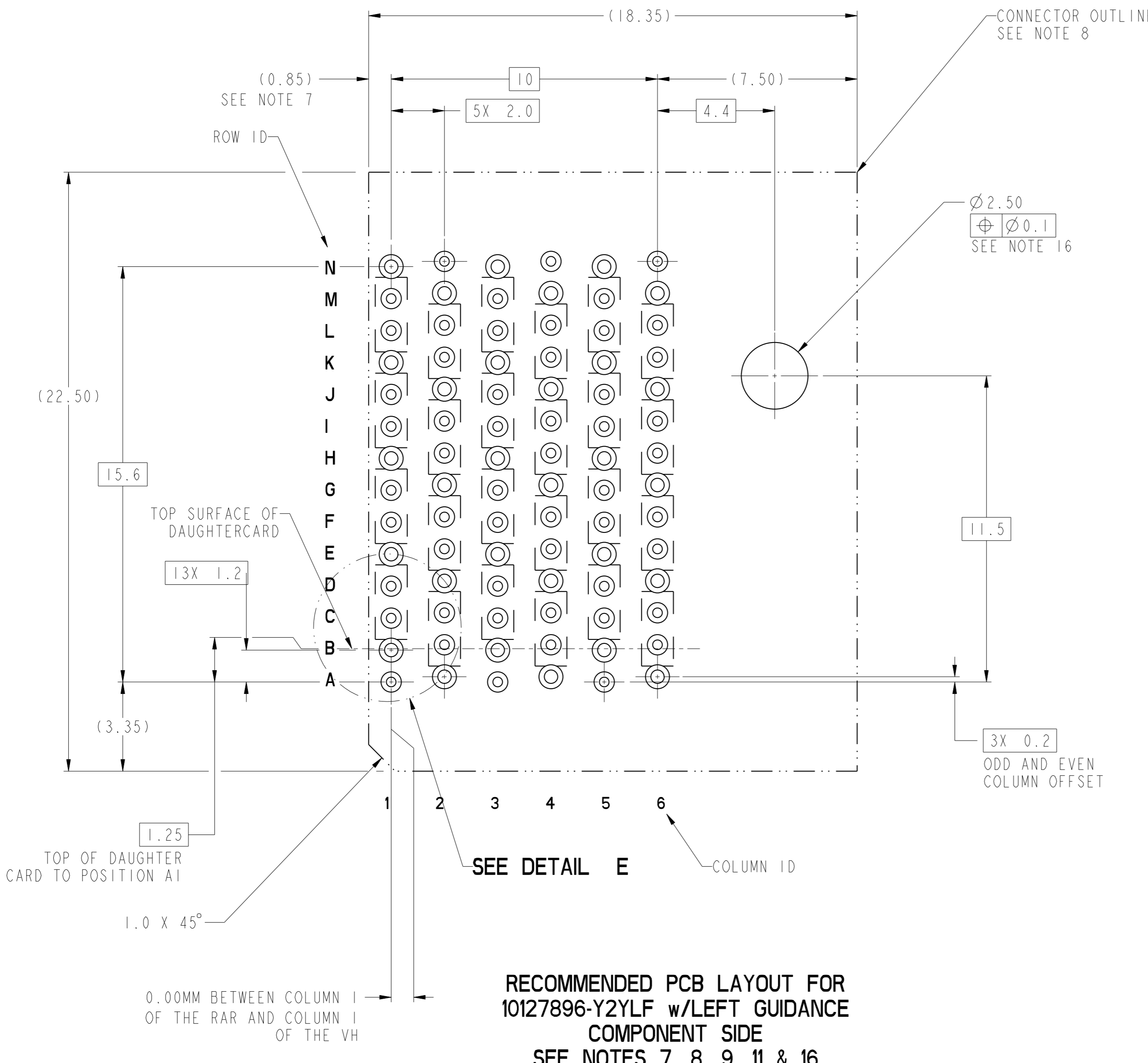
10127896-Y2ALF THRU -Y2JLF  
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)  
FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol  
FCi

© 2016 AFci

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05		MM	A2	6:1	ecn no -													
ASME Y14.5M		chr	-						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	2018/01/05	product family	ExaMAX	rel level	Released	rev	A
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
				title ExaMAX VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA		cat. no. SEE TABLE		Product - Customer Drw		sheet 8 of 11												

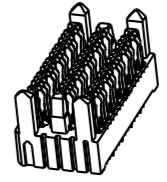
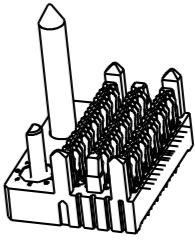
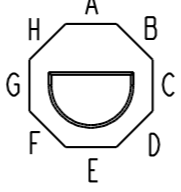

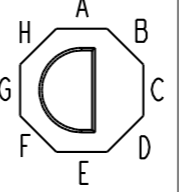
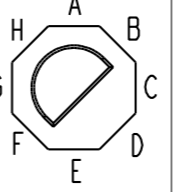
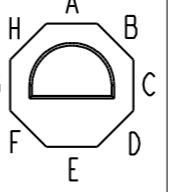
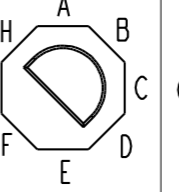
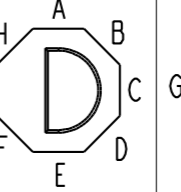
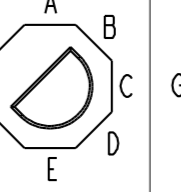
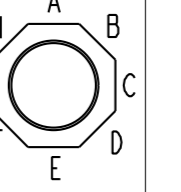
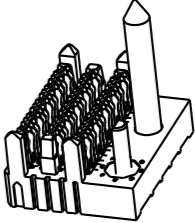
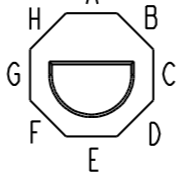
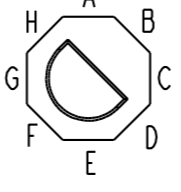
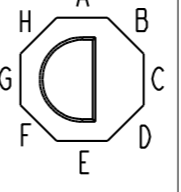
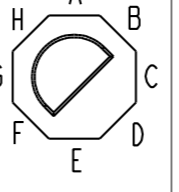
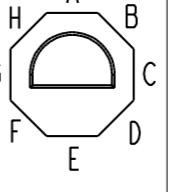
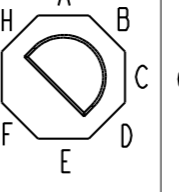
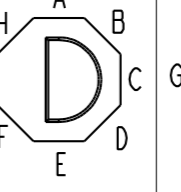
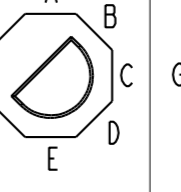
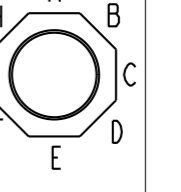




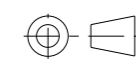
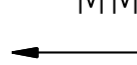

**RECOMMENDED PCB LAYOUT FOR  
10127896-Y2YLF w/LEFT GUIDANCE  
COMPONENT SIDE  
SEE NOTES 7, 8, 9, 11 & 16**

spec ref	SEE NOTES	dr	Heaven Cen	2013/11/12	projection	MM	size	A2	scale	2:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05			ecn no	-	rel level	Released		
ASME Y14.5M		chr	-	apppr							Heaven Cen	2018/01/05
surface	linear	0.X	±.3		<b>Amphenol FCI</b>		<b>ExaMAX VERTICAL HEADER ASSY</b>		cat. no.	SEE TABLE	Product - Customer Drw	sheet 9 of 11
		0.XX	±.10		title	4 PR, 84 POS, 6 IMLA		dwg no	10127896	rev	A	
	angular	0°	±°									

# 10127896 - Y Y Y L F

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
STANDARD NO GUIDANCE (SEE SHEET 1)	<b>01</b>										
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
10127896-1YYLF	STANDARD MATE
10127896-2YYLF	ADVANCED MATE
10127896-3YYLF	SHORT DETECT
10127896-4YYLF	ADVANCED MATE & SHORT DETECT

spec ref	SEE NOTES	dr	Heaven Cen	2013/1/12	projection	MM	size	A2	scale	1:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05			ecn no	-	rel level	Released				
ASME Y14.5M		chr	-	-			product family	ExaMAX	rel level	Released				
surface		linear	0.X	±.3				title	ExaMAX VERTICAL HEADER ASSY	dwg no	10127896	rev	A	
		0.XX	±.10	cat. no.	SEE TABLE	Product - Customer Drw								sheet 10 of 11
	angular	0°	±°											

NOTES

- ① - CONNECTOR MATERIALS:  
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0  
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0  
CONTACT: COPPER ALLOY;  
GUIDE PIN AND KEY 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 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, 10127896-2YYLF, 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, 10127896-3YYLF, 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, 10127896-4YYLF, 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	Heaven Cen	2013/1/12	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2018/01/05		← →	ecn no	-			
ASME Y14.5M		chr	-	-			rel level	Released			
		appr	Heaven Cen	2018/01/05			product family	ExaMAX			
surface	linear	0.X	±.3		title	ExaMAX VERTICAL HEADER ASSY	dwg no	10127896	rev	A	
		0.XX	±.10								4 PR, 84 POS, 6 IMLA
		0.XXX	±.050								
	angular	0°	±°	cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11				

Amphenol FCI

© 2016 AFCI