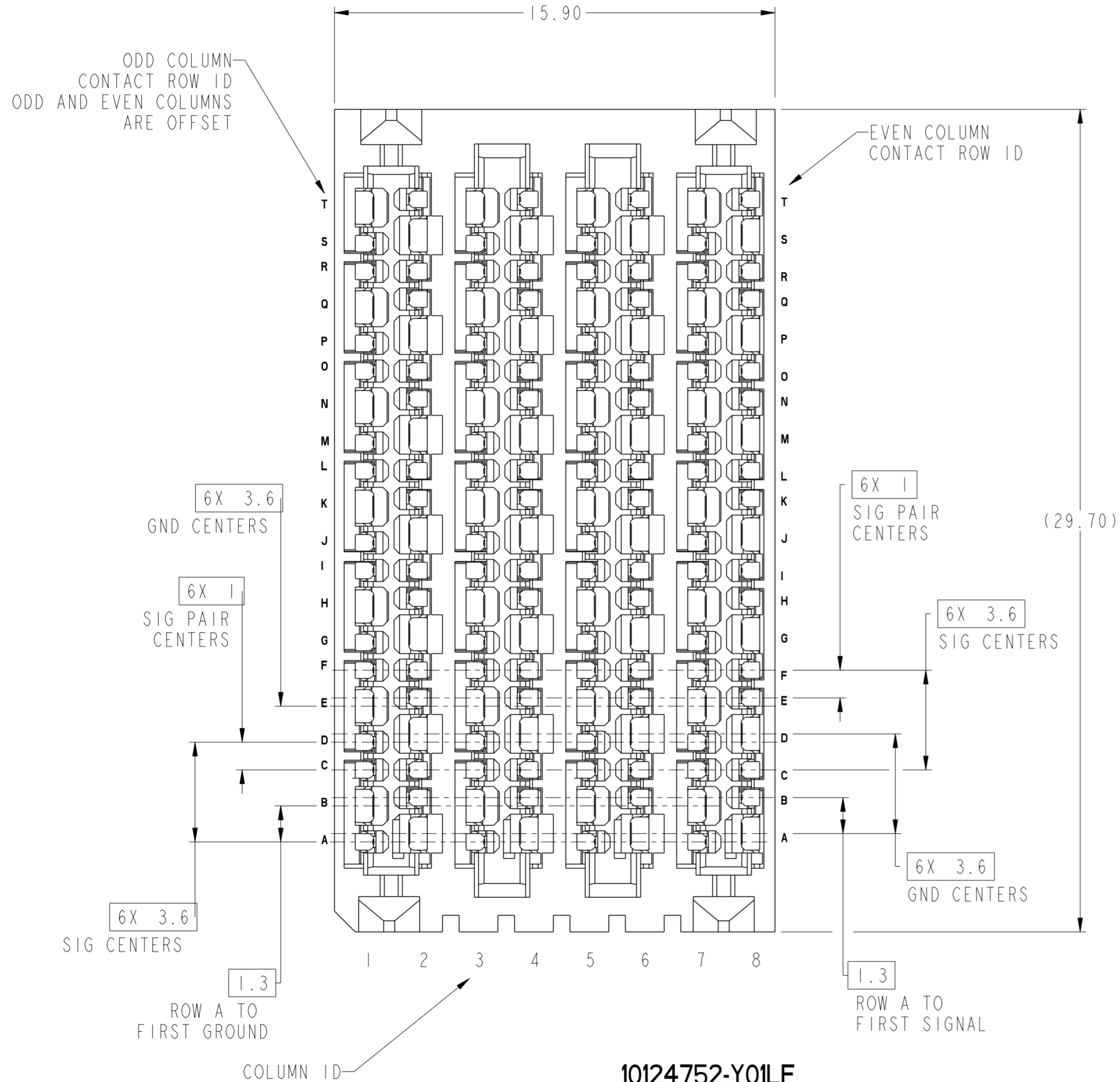
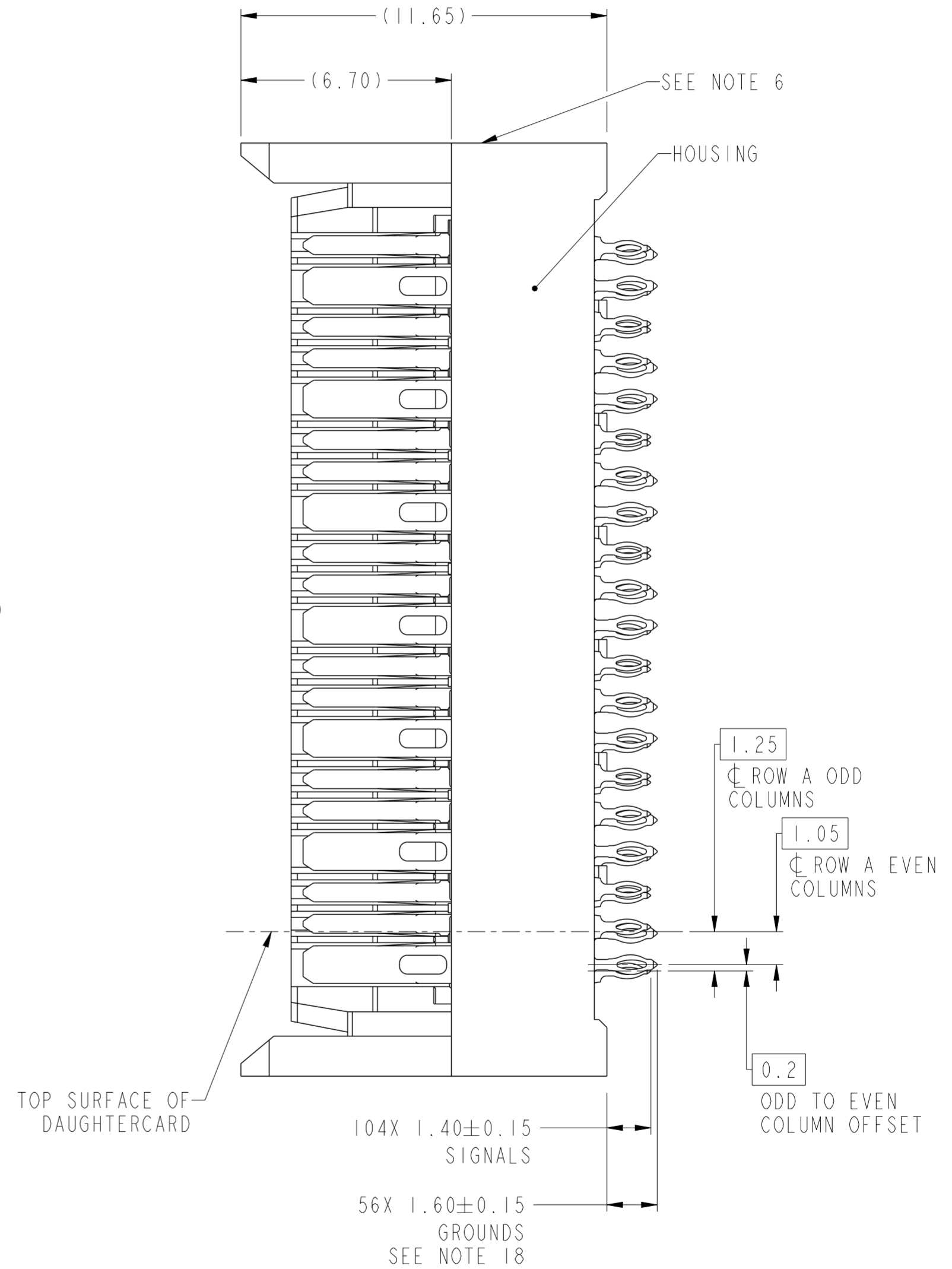


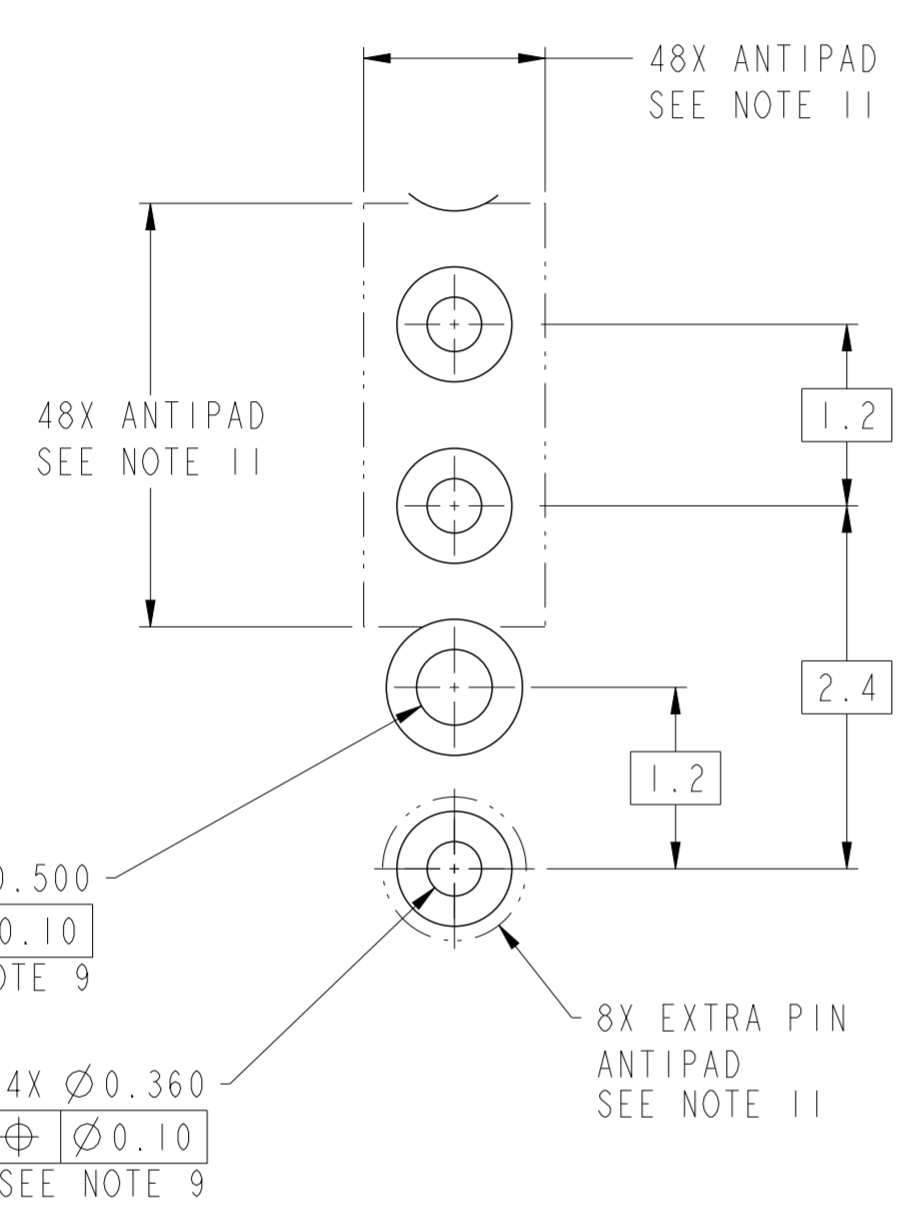
PRODUCT NUMBER  
SEE TABLE



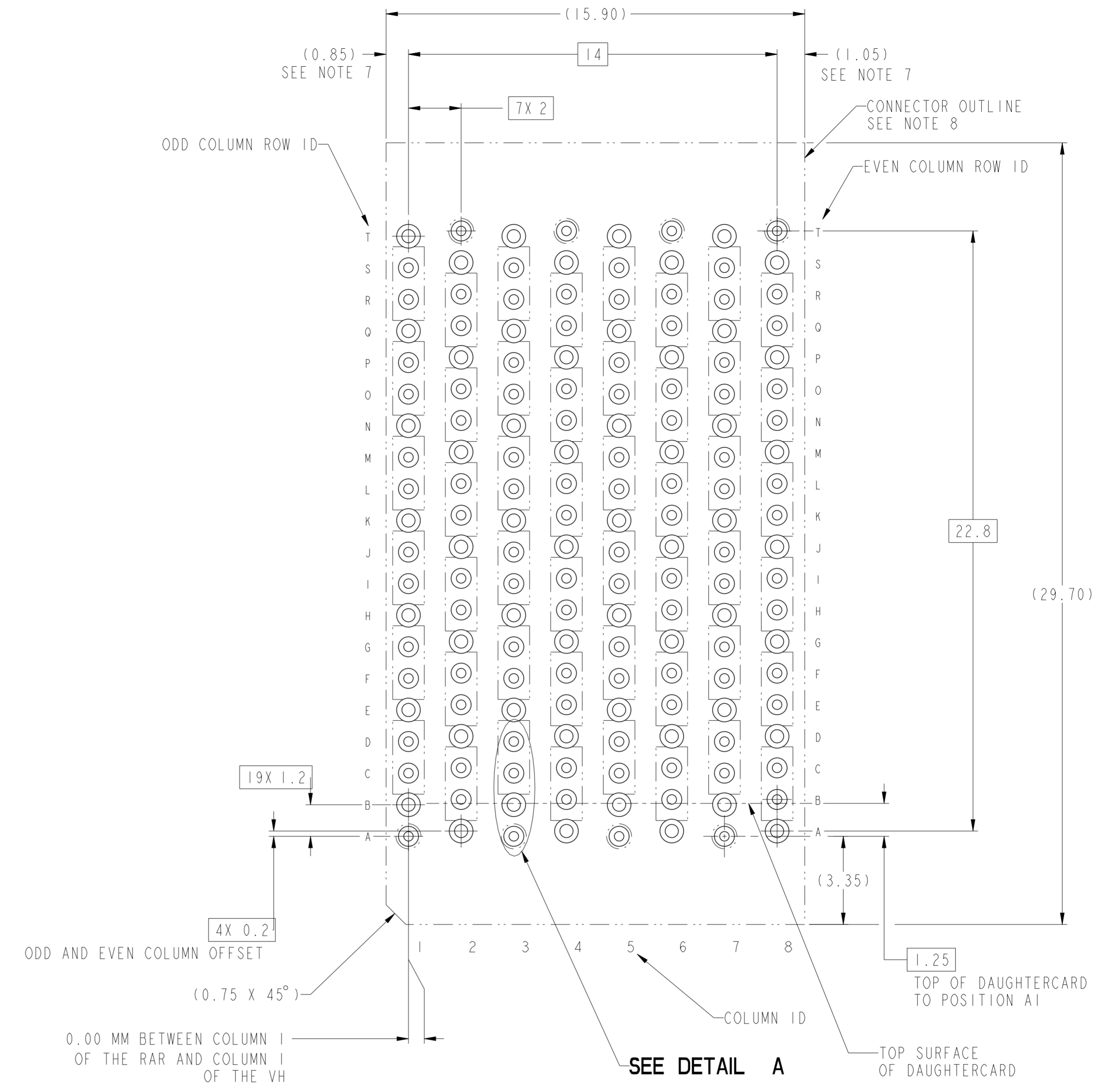
10124752-Y01LF  
(10124752-101LF STANDARD MATE CONNECTOR SHOWN)  
SCALE 7:1



spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	7:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released		
ASME Y14.5M		chr	Justin Chen	2017/12/27								
		appr	Heaven Cen	2018/01/05								
surface	linear	0.X	$\pm$ .3	<b>Amphenol FCI</b>	product family		ExaMAX		title ExaMAX VERTICAL HEADER ASS'Y, 6 PAIR, 160 POS, 8 IMLA	dwg no 10124752	rev B	
		0.XX	$\pm$ .10		SEE P/N TABLE		Product - Customer Drw					sheet 1 of 11
	angular	0°	$\pm$ 2°									



**DETAIL A**  
SCALE 20:1



**RECOMMENDED PCB LAYOUT FOR  
10124752-X01LF COMPONENT SIDE  
SEE NOTES 7, 8, 9 & 11  
SCALE 8:1**

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	5:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level Released	rev B
ASME Y14.5M		chr	Justin Chen	2017/12/27			product family	ExaMAX		
		appr	Heaven Cen	2018/01/05			cat. no.	SEE P/N TABLE		
surface	linear	0.X	±.3	<b>Amphenol FCi</b>	title ExaMAX VERTICAL HEADER ASS'Y, 6 PAIR, 160 POS, 8 IMLA		dwg no 10124752			
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±2°							

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

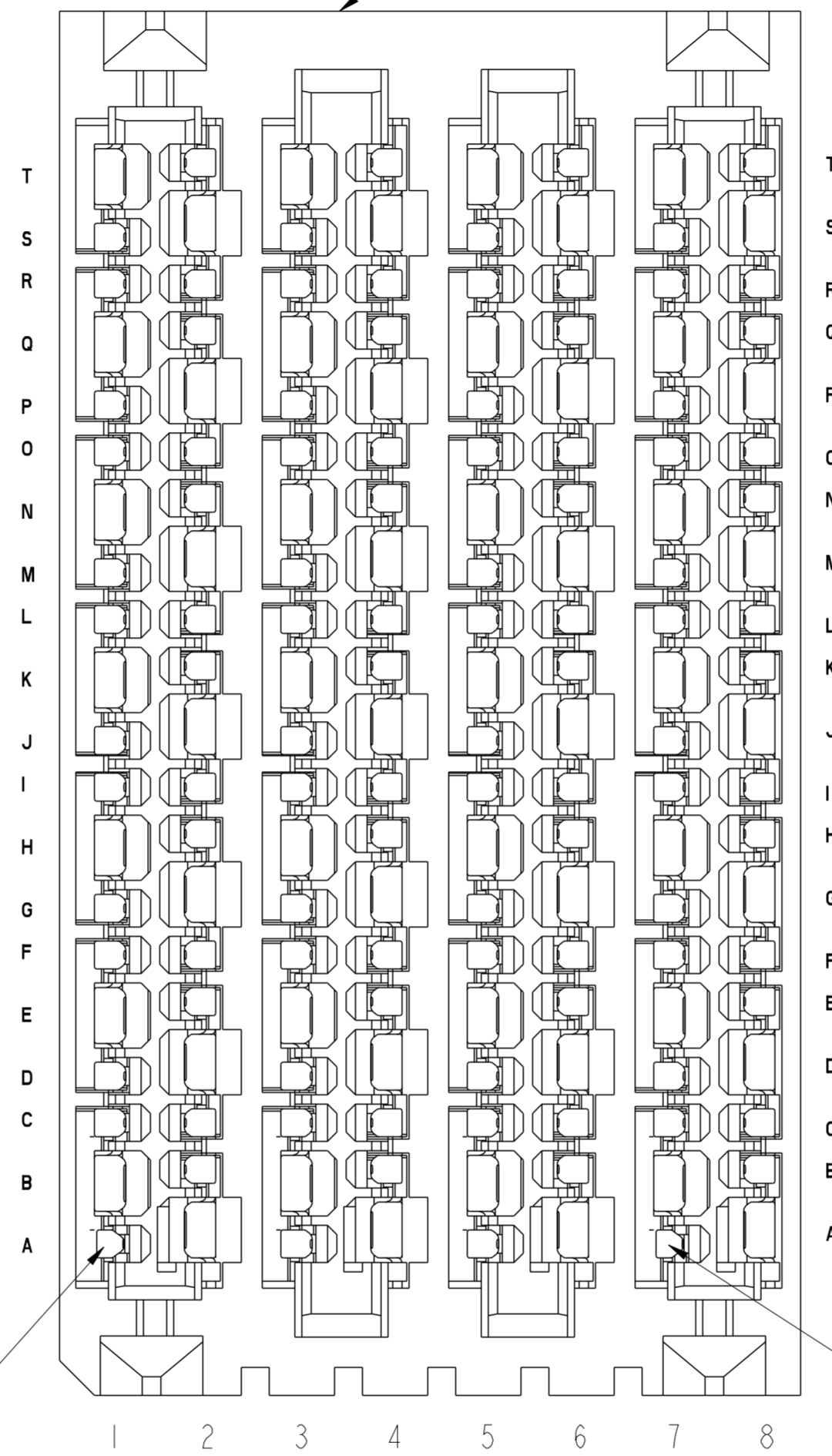
C

D

E

F

SEE NOTE 6



ADVANCED MATE POSITION A1  
SEE NOTE 13

ADVANCED MATE POSITION A7  
SEE NOTE 13

**10124752-201LF**  
**ADVANCED MATE CONNECTOR**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY  
 FOR ALL DIMENSIONS SEE 10124752-101LF ON SHEET 1  
 SCALE 8:1

Amphenol  
FCi

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spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	5:1				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27		← →	ecn no	ELX-DG-28887-1						
ASME Y14.5M		chr	Justin Chen	2017/12/27			rel level	Released						
surface	- ✓	appr	Heaven Cen	2018/01/05	product family	ExaMAX		rel level	Released					
linear		0.X	±.3	<b>Amphenol FCi</b>	title		ExaMAX VERTICAL HEADER	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 3 of 11			
		0.XX	±.10									dwg no	10124752	rev
	0.XXX	±.050												
angular	0°	±2°												

PDS: Rev :B

STATUS:Released

Printed: Jan 05, 2018

1 2 3 4 5 6 7 8

A

B

C

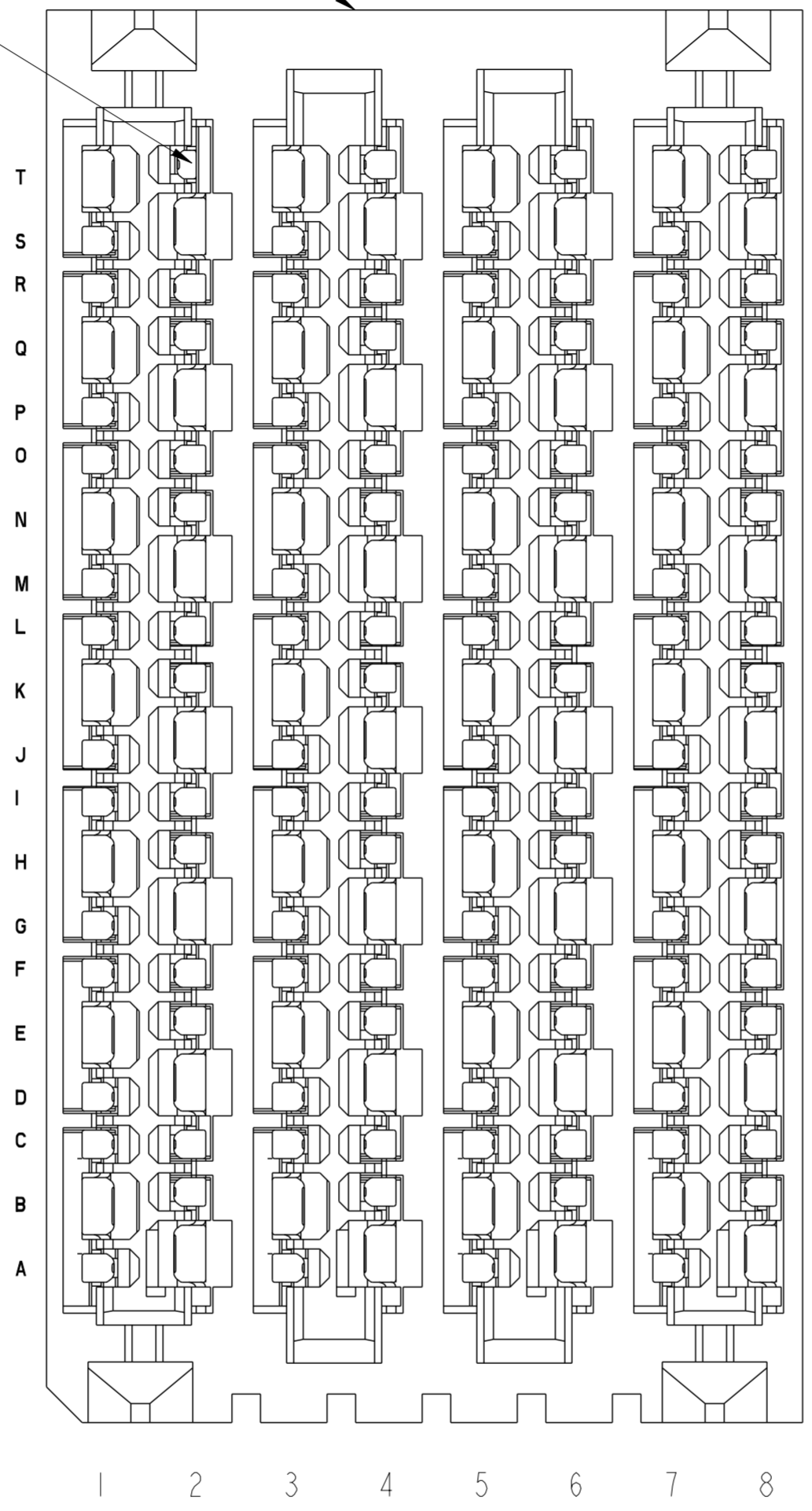
D

E

F

SEE NOTE 6

SHORT DETECT  
POSITION T2  
SEE NOTE 14



10124752-301LF  
SHORT DETECT CONNECTOR  
SHORT DETECT POSITION IS T2 ONLY  
FOR ALL DIMENSIONS SEE 10124752-101LF ON SHEET 1  
SCALE 8:1

Amphenol  
FCi

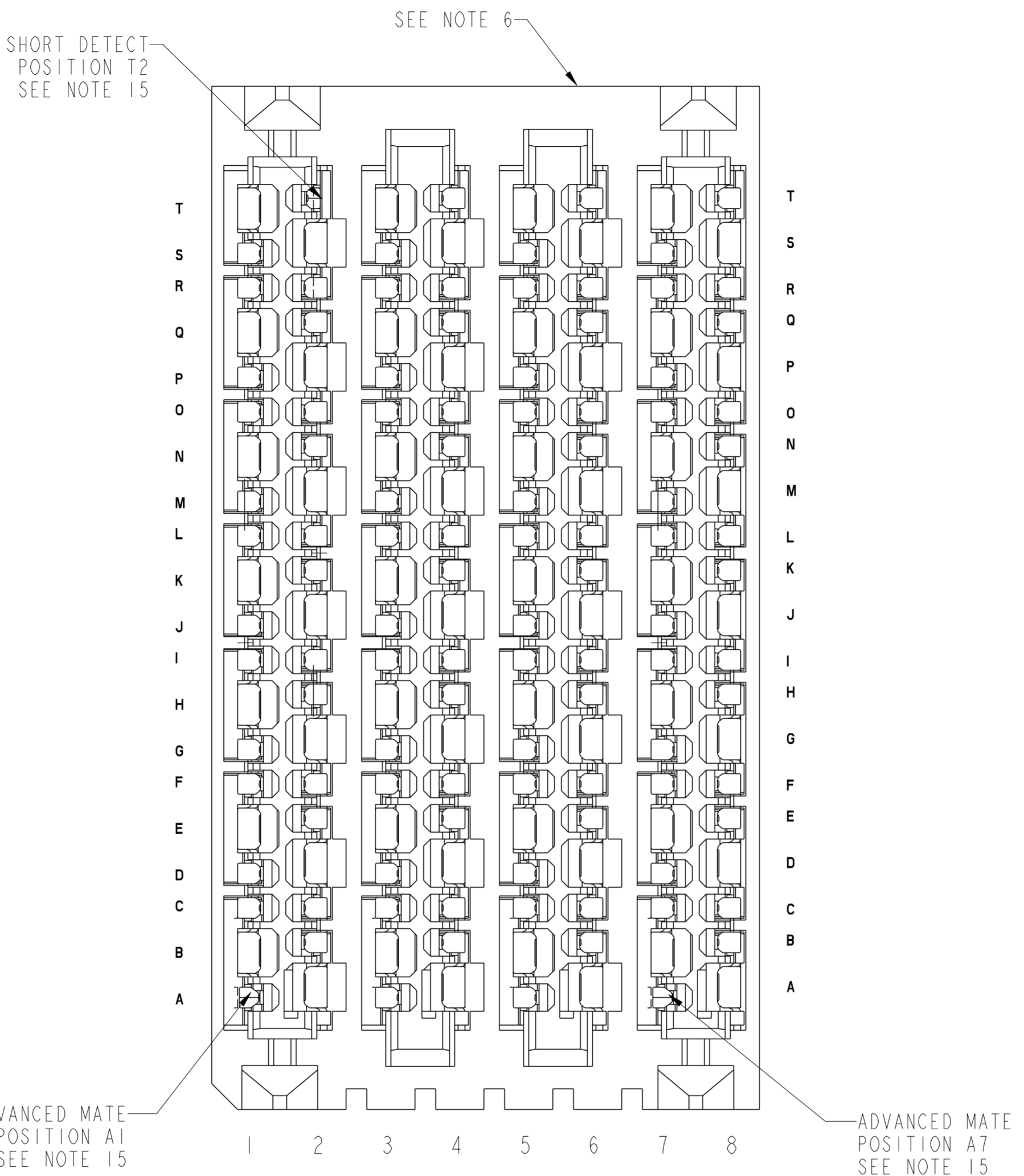
© 2016 AFci

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	5:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1												
ASME Y14.5M		chr	Justin Chen	2017/12/27			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>±2°</td> </tr> </table>	-	linear	0.X	±.3	0.XX	±.10	0.XXX	±.050		angular	0°	±2°	product family	ExaMAX		rel level	Released		
-	linear			0.X	±.3															
				0.XX	±.10															
		0.XXX	±.050																	
	angular	0°	±2°																	
		appr	Heaven Cen	2018/01/05	Amphenol FCi	title	ExaMAX VERTICAL HEADER			rev	B									
						ASS'Y, 6 PAIR, 160 POS, 8 IMLA	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 4 of 11										
							dwg no	10124752												

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STATUS:Released

Printed: Jan 05, 2018



**10124752-401LF**  
**ADVANCED MATE/SHORT DETECT CONNECTOR**  
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY  
 SHORT DETECT POSITION IS T2 ONLY  
 FOR ALL DIMENSIONS SEE 10124752-101LF ON SHEET 1  
 SCALE 8:1

Amphenol  
FCi

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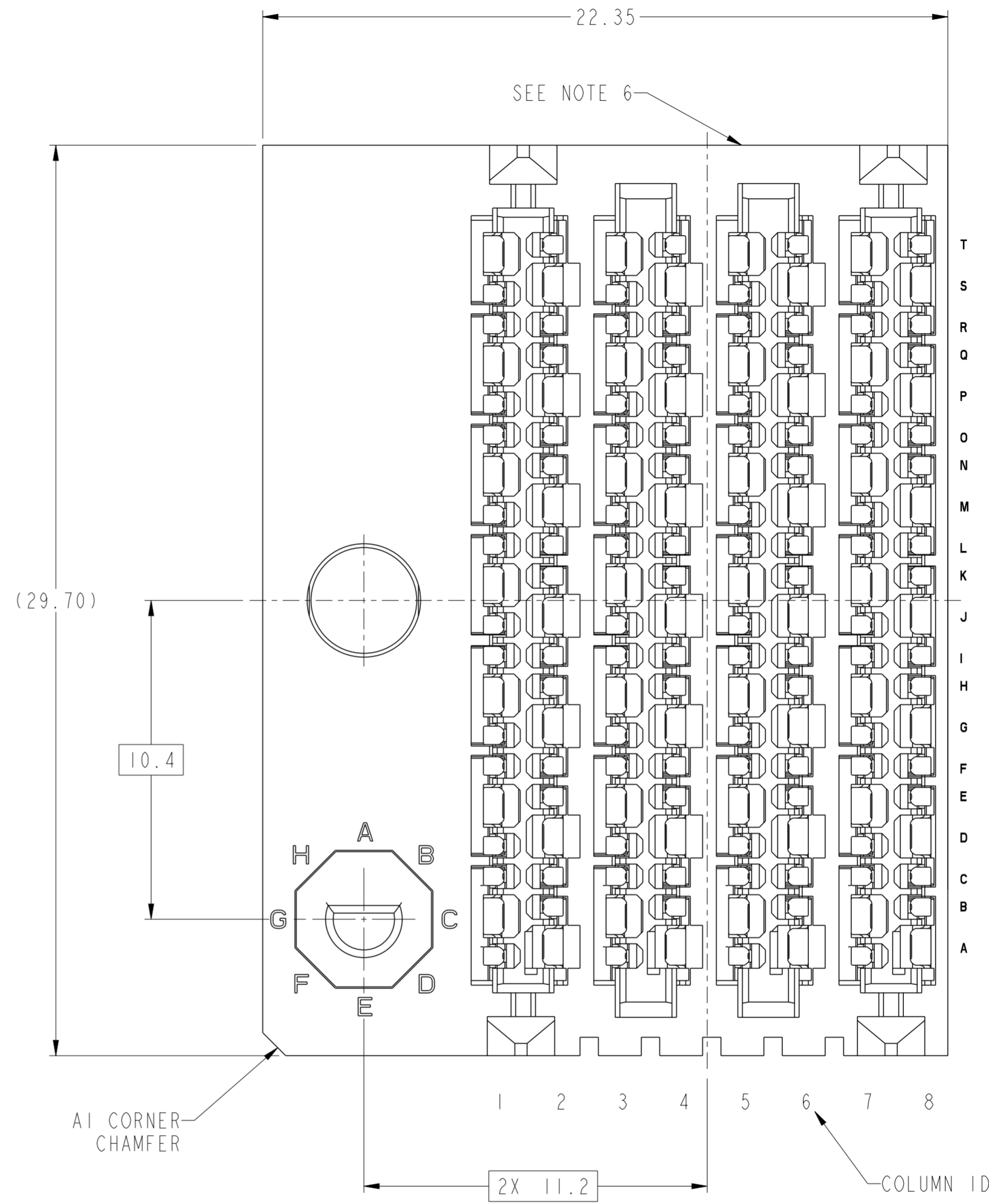
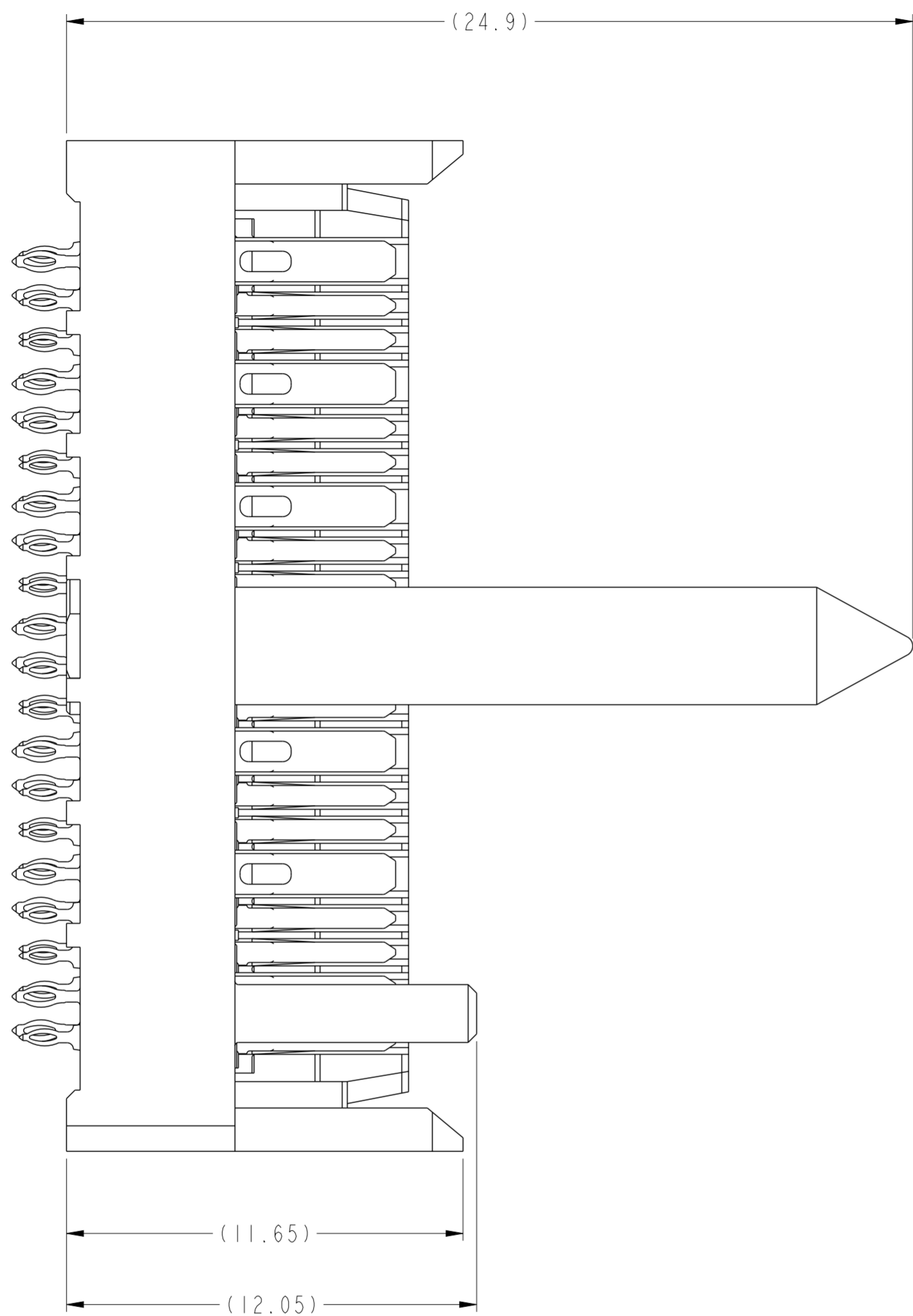
spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	3:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1														
ASME Y14.5M		chr	Justin Chen	2017/12/27			rel level	Released														
surface	<table border="1"> <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>±2°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±2°	appr	Heaven Cen	2018/01/05	product family	ExaMAX		rel level	Released	
linear		0.X	±.3																			
		0.XX	±.10																			
	0.XXX	±.050																				
angular	0°	±2°																				
		Amphenol FCi	title ExaMAX VERTICAL HEADER ASS'Y, 6 PAIR, 160 POS, 8 IMLA			dwg no	10124752		rev	B												
			cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 5 of 11																

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10124752-X1ALF THRU -X1JLF  
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)  
 FOR ALL OTHER DIMENSIONS SEE 10124752-101LF ON SHEET 1  
 SCALE 7:1

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	5:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released		
ASME Y14.5M		chr	Justin Chen	2017/12/27			product family	ExaMAX				
surface	linear	0.X	±.3		title		ExaMAX VERTICAL HEADER	cat. no. SEE P/N TABLE Product - Customer Drw	dwg no	10124752	rev	B
		0.XX	±.10		ASS'Y, 6 PAIR, 160 POS, 8 IMLA		sheet 6 of 11					
	angular	0°	±2°		SEE P/N TABLE							

PDS: Rev :B

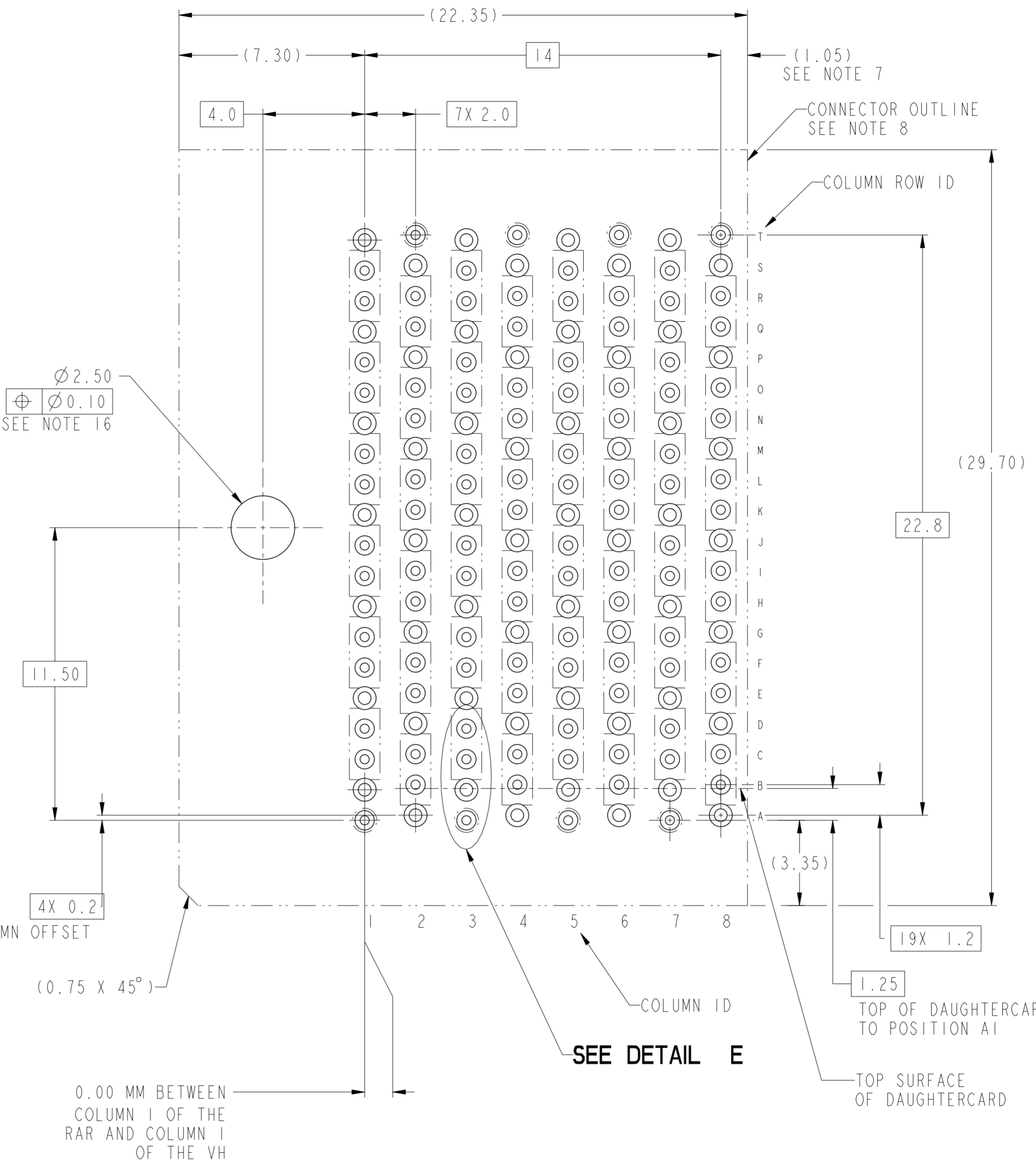
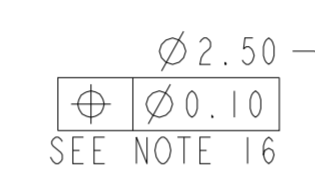
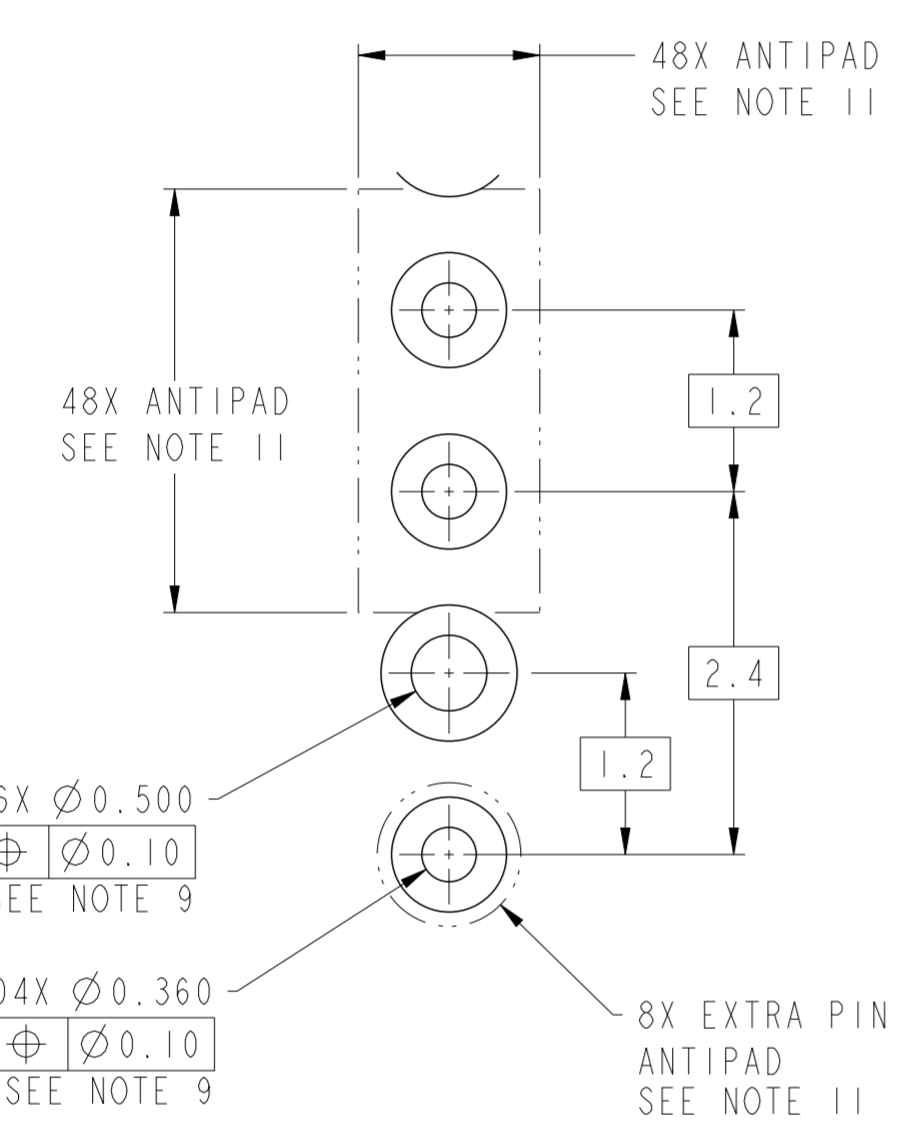
STATUS:Released

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RECOMMENDED PCB LAYOUT FOR  
10124752-X1ALF THRU -X1JLF COMPONENT SIDE  
SEE NOTES 7, 8, 9, 11 & 16  
SCALE 7:1

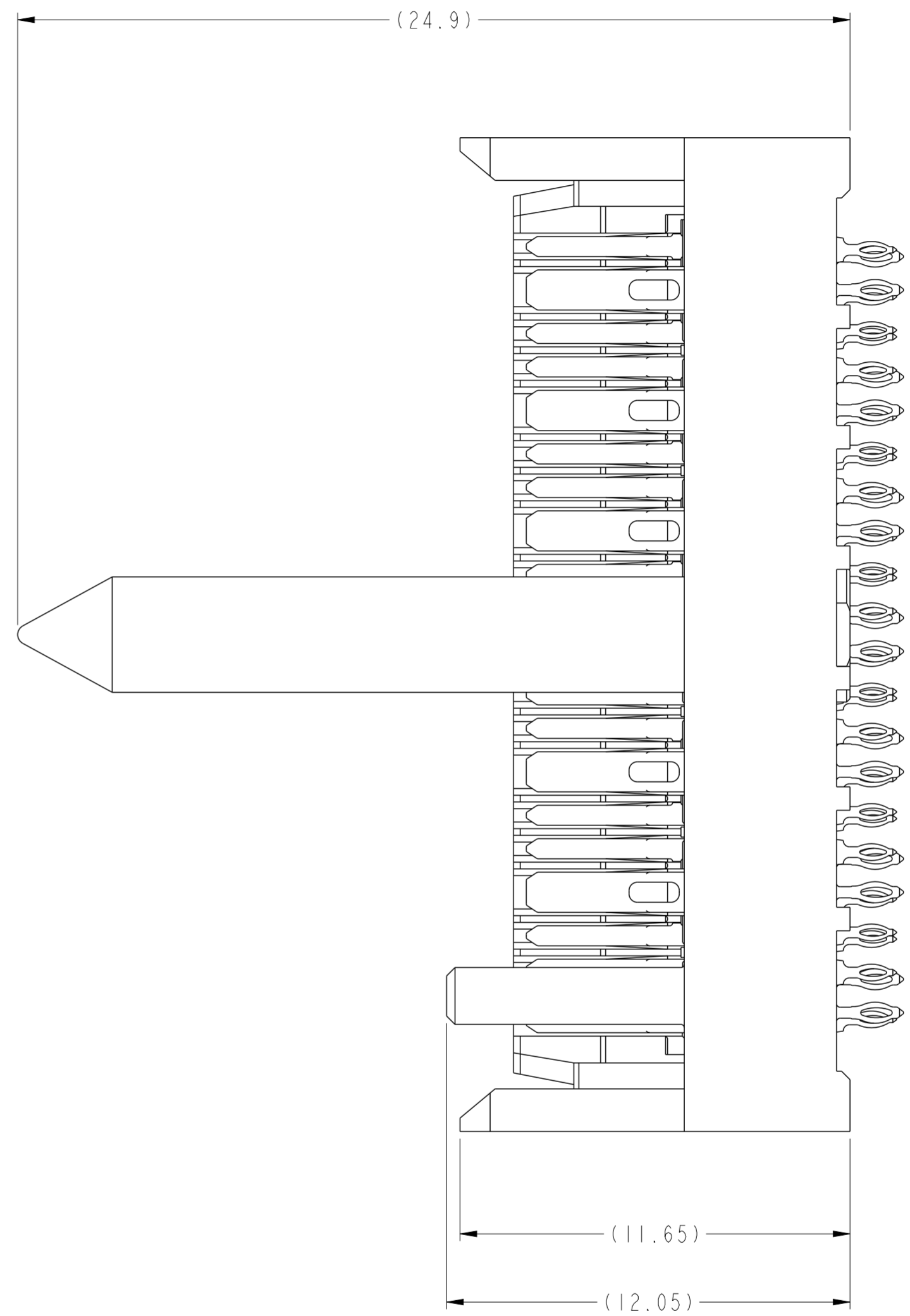
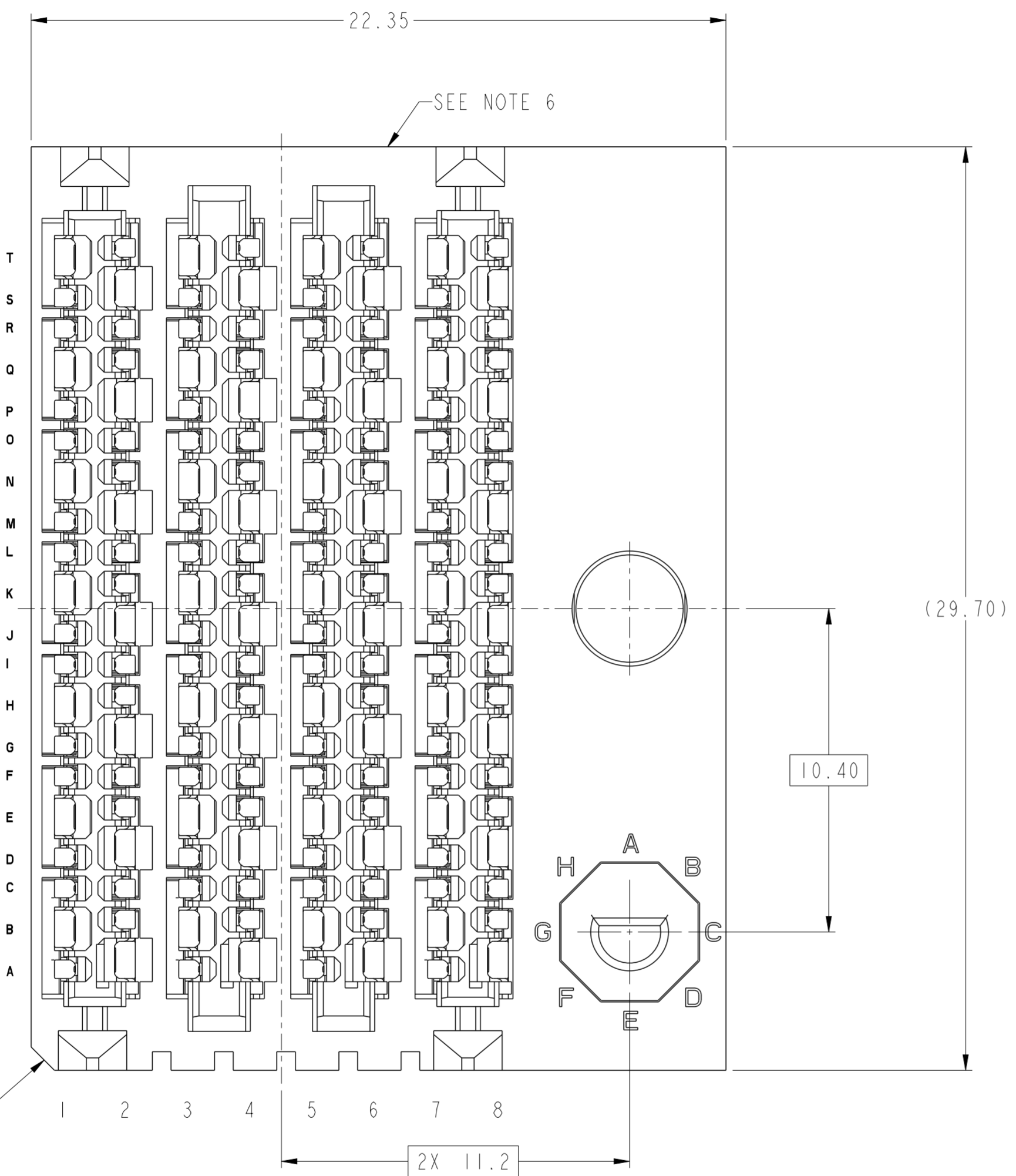


spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released	
ASME Y14.5M		chr	Justin Chen	2017/12/27							
		appr	Heaven Cen	2018/01/05							
surface	linear	0.X	±.3		product family	ExaMAX	rel level	Released	cat. no.	SEE TABLE	
		0.XX	±.10		title	ExaMAX VERTICAL HEADER		dwg no	10124752	rev	B
		0.XXX	±.050		ASS'Y, 6 PAIR, 160 POS, 8 IMLA	Product - Customer Drw	sheet 7 of 11				
	angular	0°	±2°								

1 2 3 4 5 6 7 8

A B C D E F

A B C D E F



10124752-X2ALF THRU -X2JLF  
 LEFT GUIDANCE CONNECTOR (SEE NOTE 17)  
 FOR ALL OTHER DIMENSIONS SEE 10124752-101LF ON SHEET 1  
 SCALE 7:1

Amphenol  
 FCI

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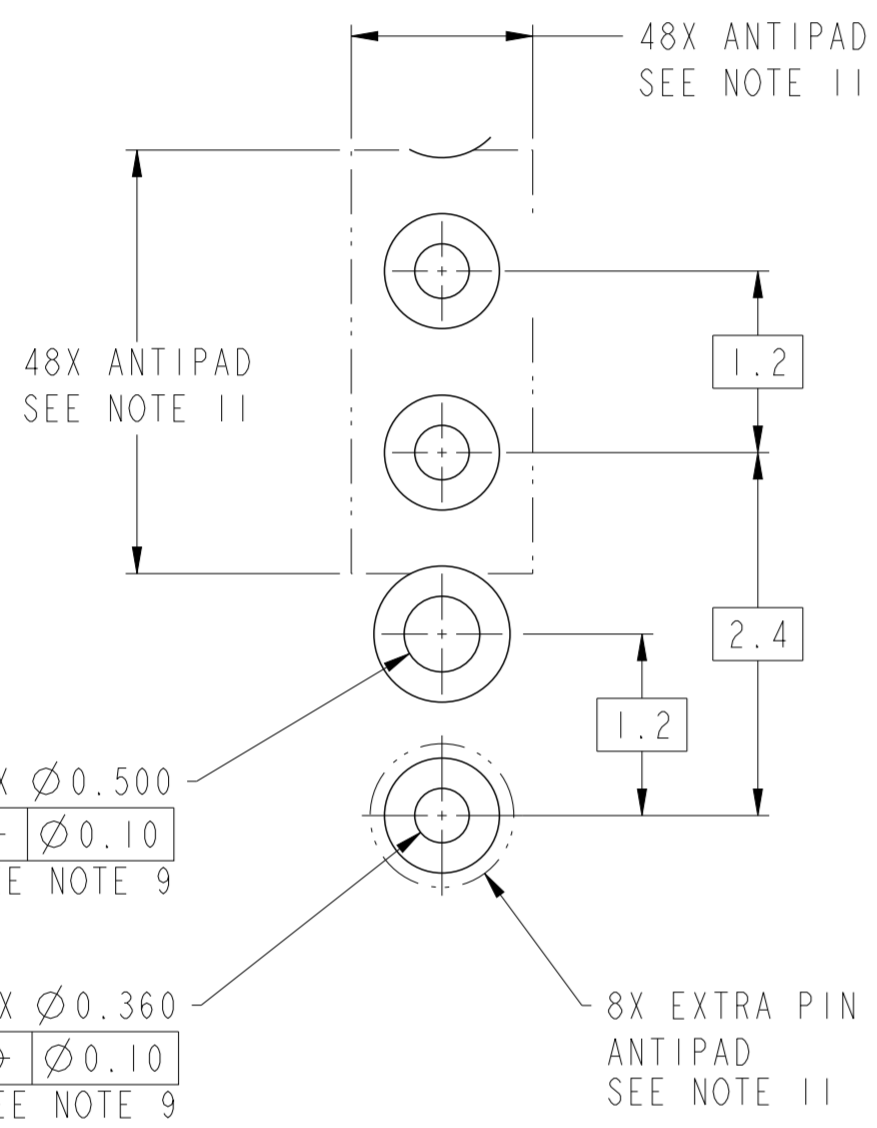
spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	3:1								
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level	Released								
ASME Y14.5M		chr	Justin Chen	2017/12/27			product family	ExaMAX										
		appr	Heaven Cen	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>±2°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±2°	Amphenol FCI	title ExaMAX VERTICAL HEADER ASS'Y, 6 PAIR, 160 POS, 8 IMLA		dwg no 10124752	rev B
linear	0.X	±.3																
	0.XX	±.10																
	0.XXX	±.050																
angular	0°	±2°																
		cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 8 of 11													

PDS: Rev :B

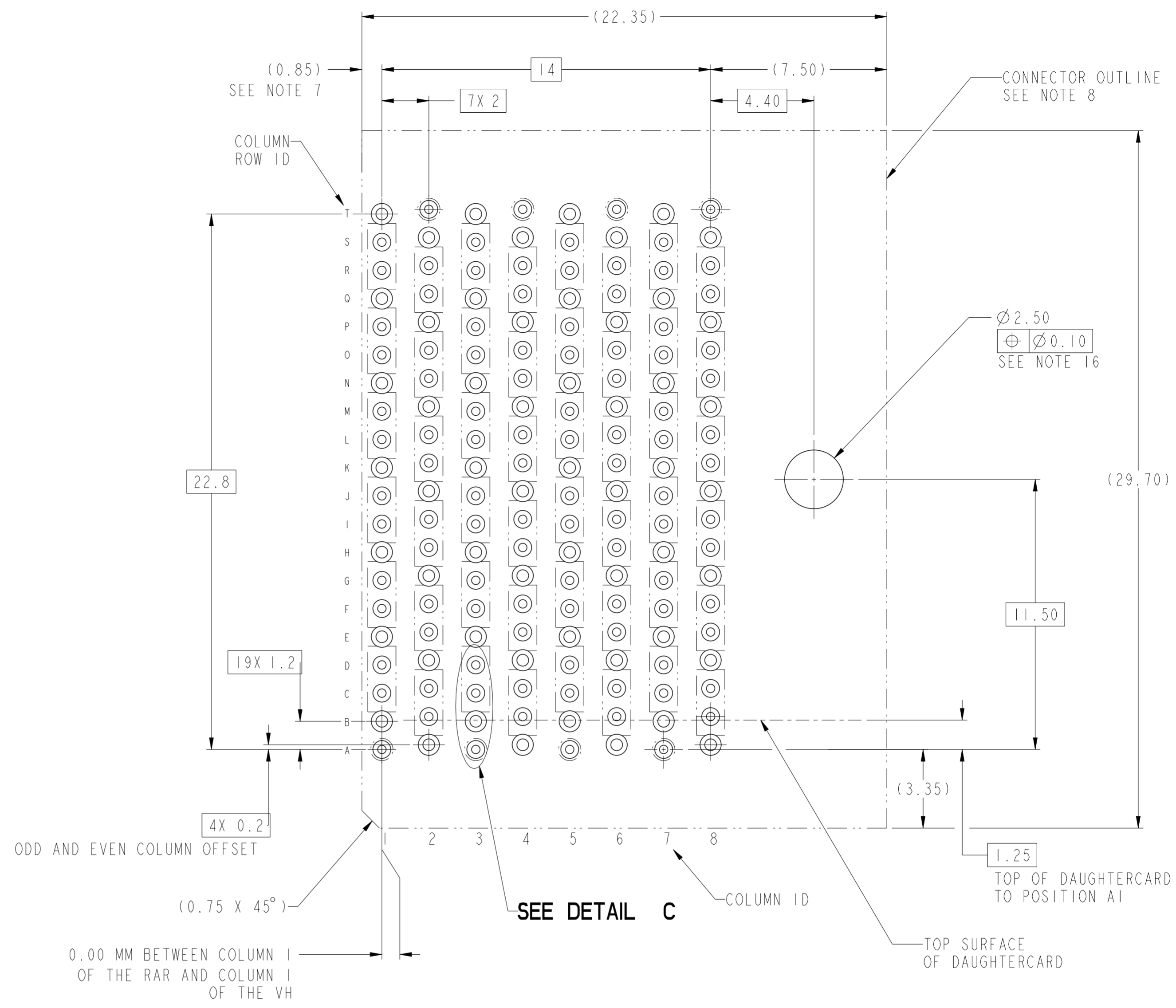
STATUS:Released

Printed: Jan 05, 2018





**DETAIL C**  
SCALE 20:1

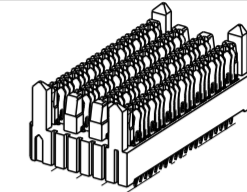
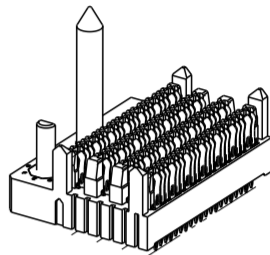
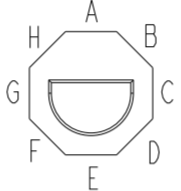
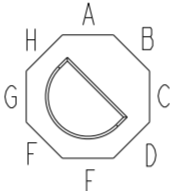
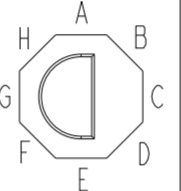
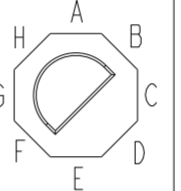
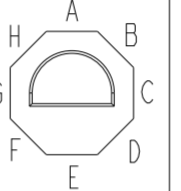
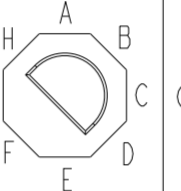
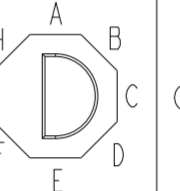
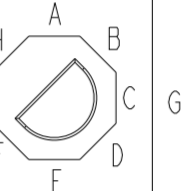
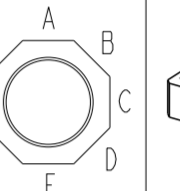
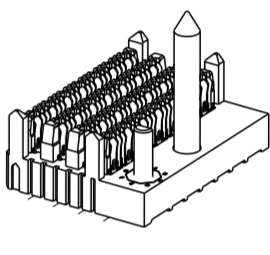
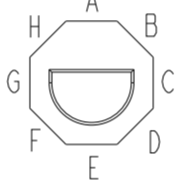
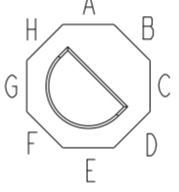
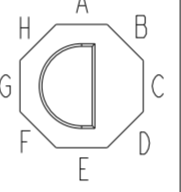
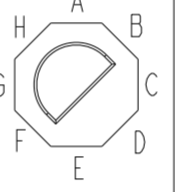
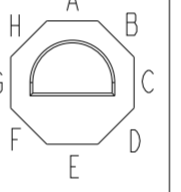
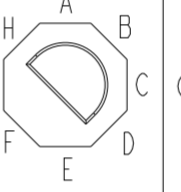
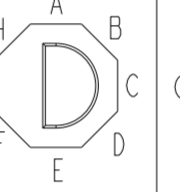
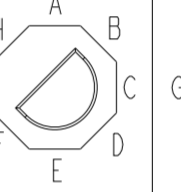
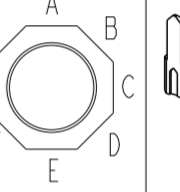


**RECOMMENDED PCB LAYOUT FOR  
10124752-X2ALF THRU -X2JLF COMPONENT SIDE  
SEE NOTES 7, 8, 9, 11 & 16  
SCALE 7:1**

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/12/27			ecn no	ELX-DG-28887-1	rel level <b>Released</b>	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/12/27			product family	ExaMAX		
surface	linear	appr	Heaven Cen	2018/01/05			rel level	Released		
	angular	0.X ±.3 0.XX ±.10 0.XXX ±.050 0° ±2°		<b>Amphenol FCI</b>		title ExaMAX VERTICAL HEADER ASS'Y, 6 PAIR, 160 POS, 8 IMLA	dwg no 10124752	rev B		
		cat. no.		SEE TABLE	Product - Customer Drw		sheet 9 of 11			

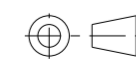
10124752 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10124752-1YYLF	STANDARD MATE
10124752-2YYLF	ADVANCED MATE
10124752-3YYLF	SHORT DETECT
10124752-4YYLF	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)		
											

Amphenol FCI

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spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	5:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/12/27		← →	ecn no	ELX-DG-28887-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/12/27							product family
surface	- ✓	linear	0.X	±.3	Amphenol FCI	title	ExaMAX VERTICAL HEADER	dwg no	10124752	rev	B
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±2°	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 10 of 11			

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STATUS:Released

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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  
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, (PROTOTYPE, 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, 10124752-2XXLF, 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, 10124752-3XXLF, 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, 10124752-4XXLF, 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 CONNECTOR WITH EITHER A LEFT OR RIGHT 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 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 VERTICAL HEADER MATES WITH A RIGHT GUIDE RIGHT ANGLE RECEPTACLE. )
- ⑱- ALL GROUND CONTACTS WITHIN A COLUMN ARE COMMONED.

spec ref	SEE NOTES	dr	Mark R Gray	2013/03/19	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/12/27		← →	ecn no	ELX-DG-28887-1		
ASME Y14.5M		chr	Justin Chen	2017/12/27			rel level	Released		
surface	linear	appr	Heaven Cen	2018/01/05	product family	ExaMAX	cat. no.	10124752	rev	B
	angular	Amphenol FCI		title	ExaMAX VERTICAL HEADER ASS'Y, 6 PAIR, 160 POS, 8 IMLA			Product - Customer Drw	sheet 11 of 11	