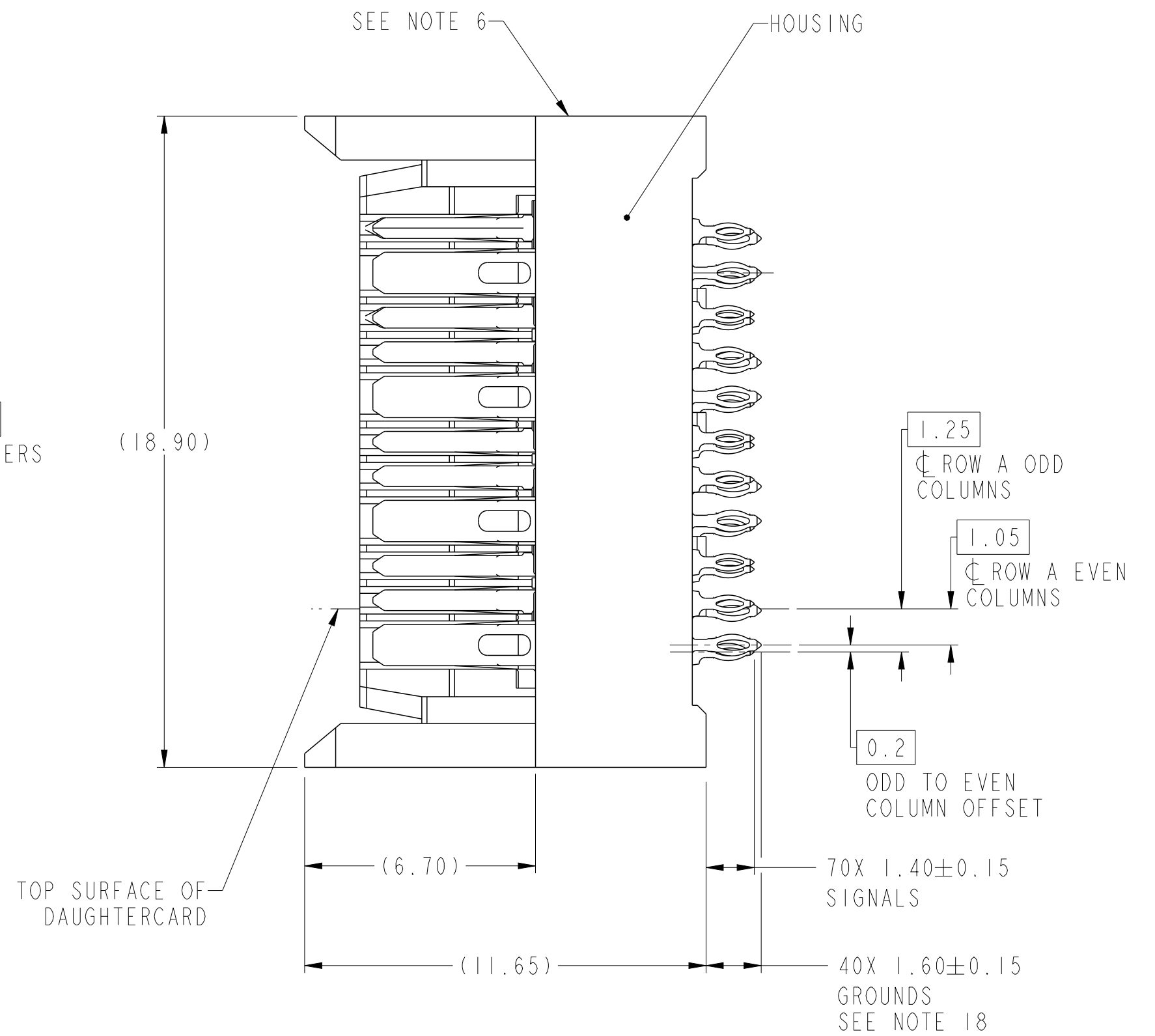
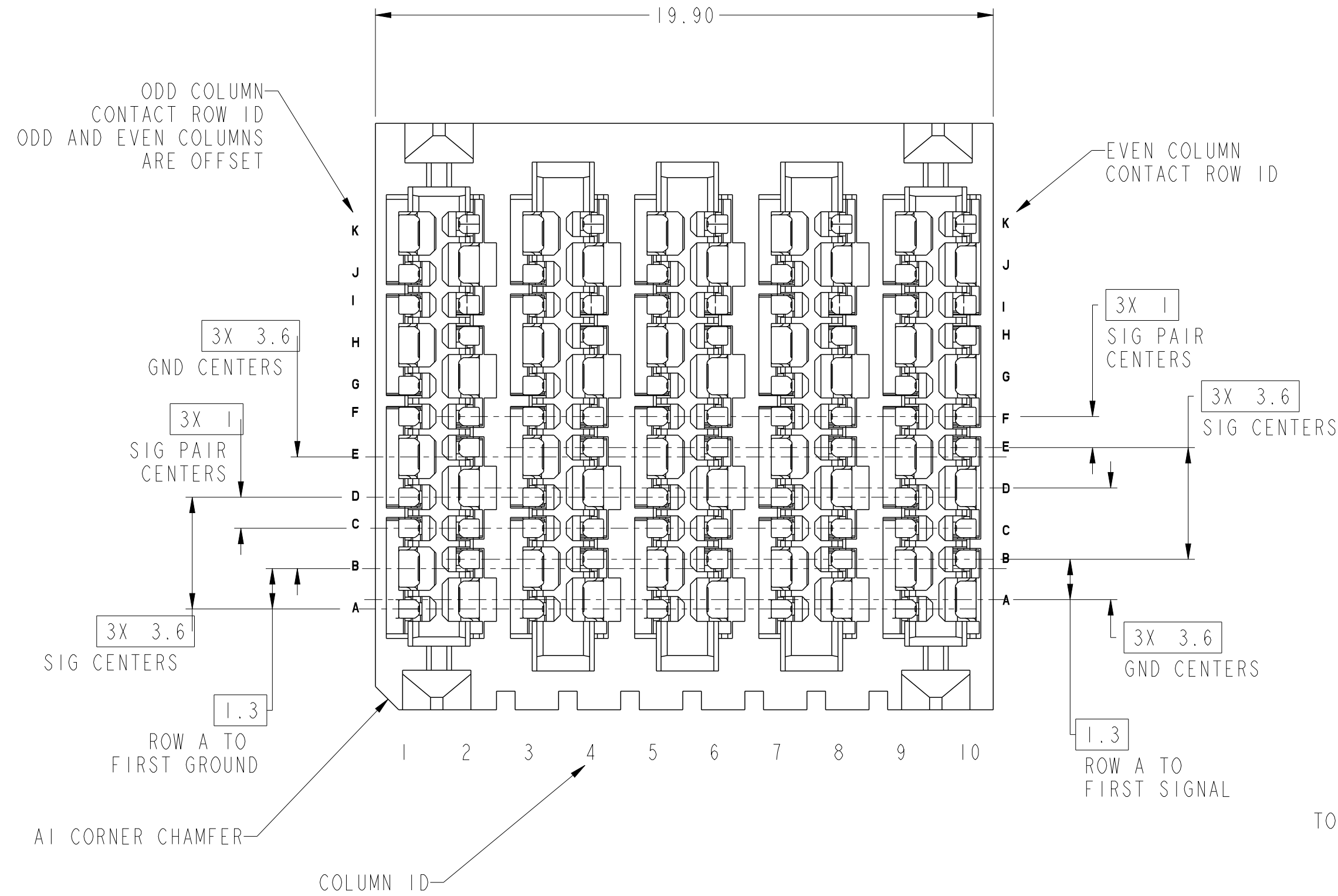


PRODUCT NUMBER
SEE TABLE



10121412-Y01LF
(10121412-101LF STANDARD MATE CONNECTOR SHOWN)
SCALE 7:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	7:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1	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>±2°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±2°			ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		product family ExaMAX	rel level Released	size A2	scale 7:1
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±2°																			
		cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 1 of 11	title 10121412	rev B														

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

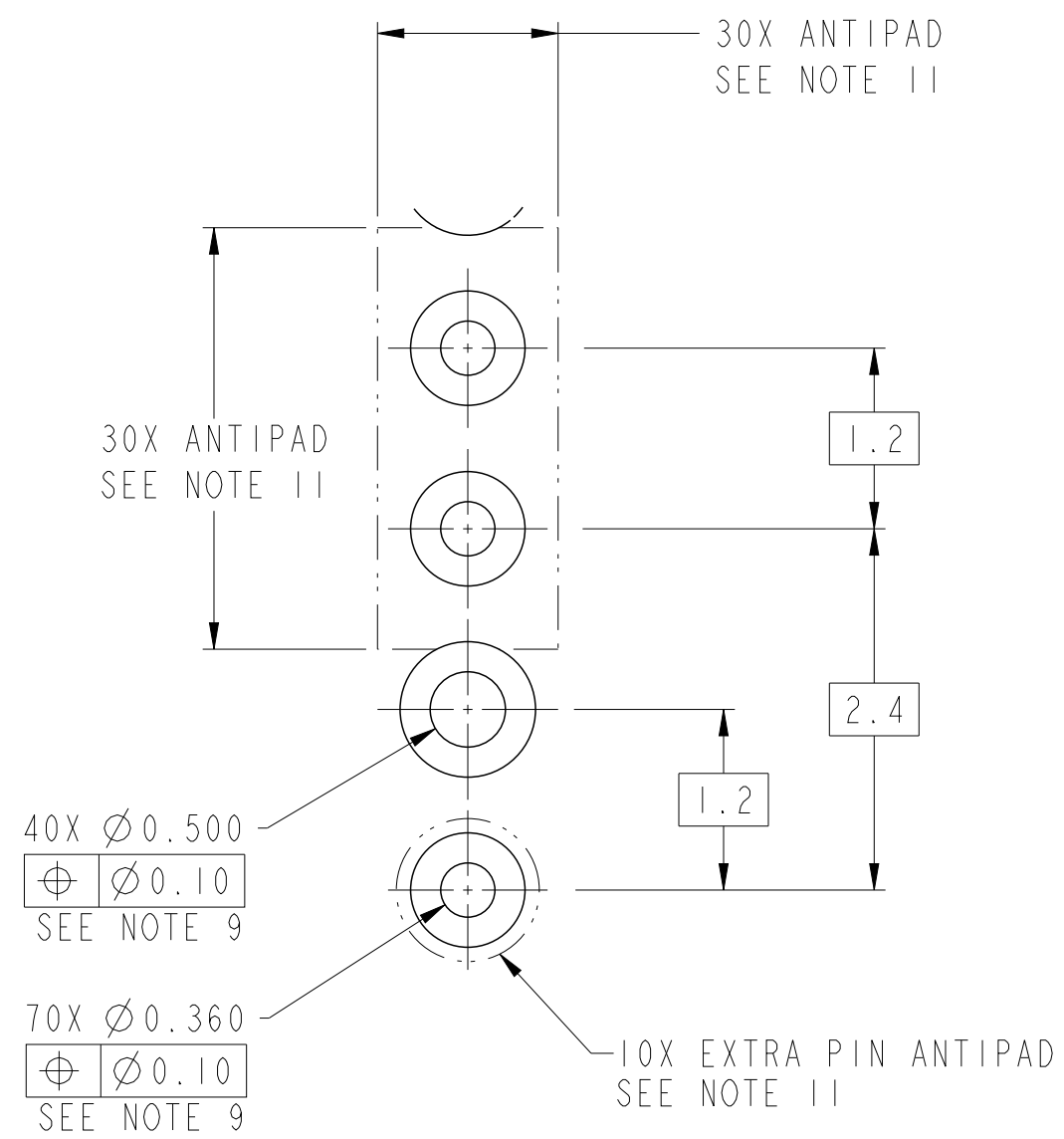
C

D

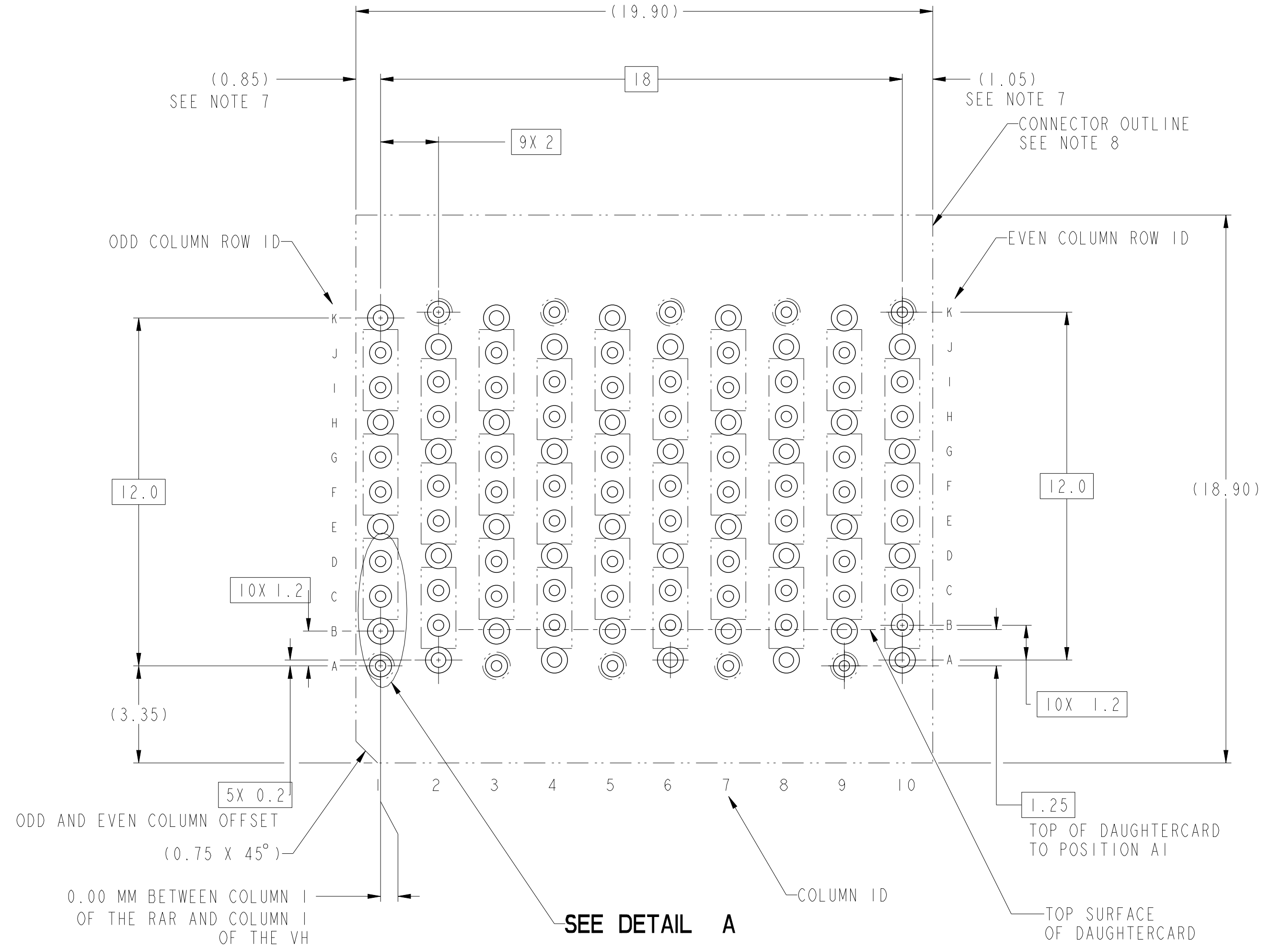
E

F

Amphenol
FCi



DETAIL A
SCALE 20:1



**RECOMMENDED PCB LAYOUT FOR
10121412-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9 & 11
SCALE 8:1**

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1	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 P/N TABLE			Product - Customer Drw
surface	linear 0.X ±.3 0.XX ±.10 0.XXX ±.050 angular 0° ±2°	Amphenol FCi		title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		dwg no 10121412					

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

2

3

4

5

A

B

C

D

E

F

A

B

C

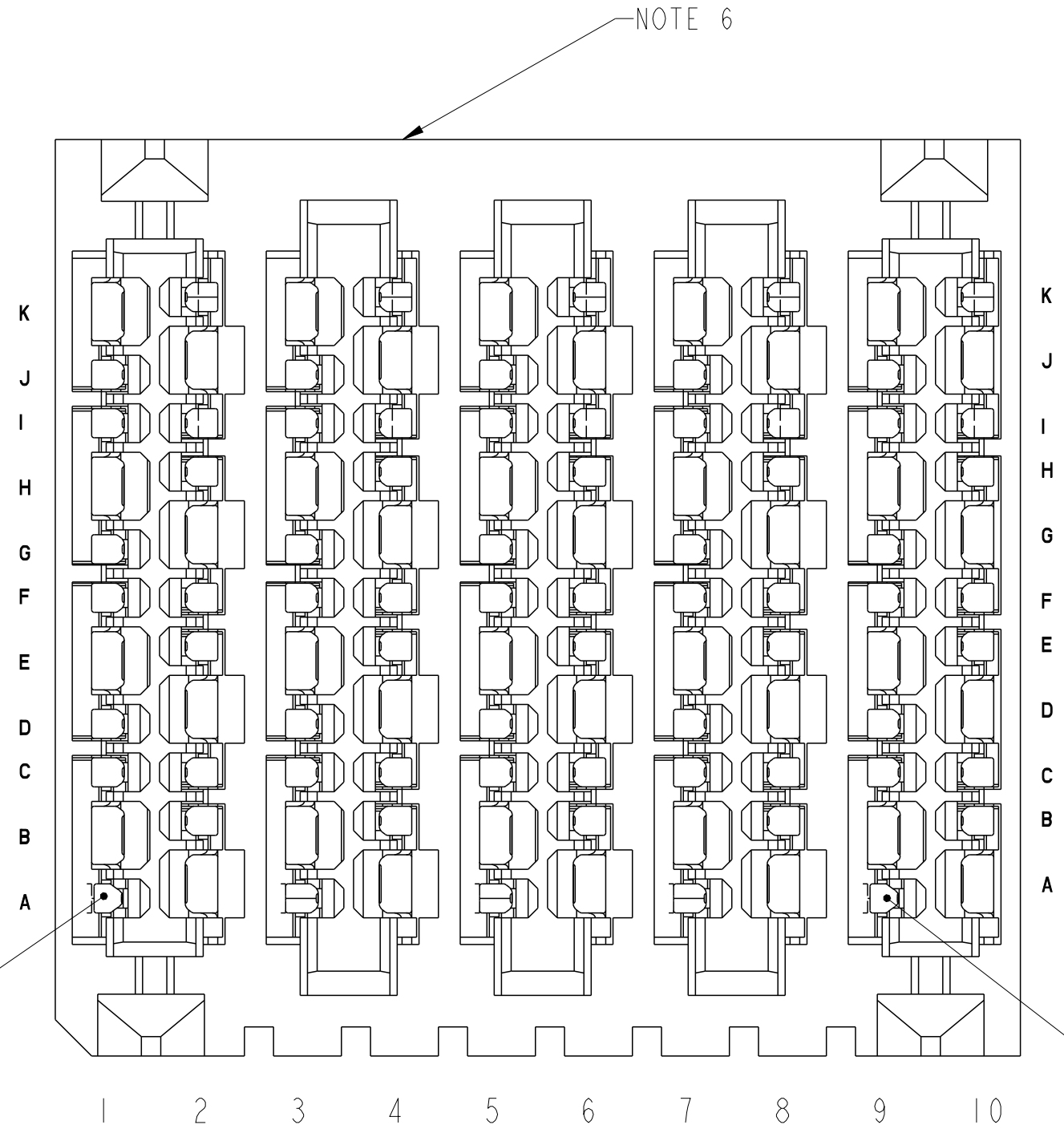
D

E

F

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ADVANCED MATE
POSITION A1
SEE NOTE 13

ADVANCED MATE
POSITION A9
SEE NOTE 13

10121412-201LF
 ADVANCED MATE CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
 FOR ALL DIMENSIONS SEE SHEET 1
 SCALE 8:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1											
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>±2°</td> </tr> </table>	-	linear	0.X	±.3	0.XX	±.10	0.XXX	±.050		angular	0°	±2°	product family	ExaMAX	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 3 of 11
-	linear			0.X	±.3														
				0.XX	±.10														
		0.XXX	±.050																
	angular	0°	±2°																
		appr	Heaven Cen	2017/11/30			title	ExaMAX VERTICAL HEADER		rev	B								
							dwg no	10121412											

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

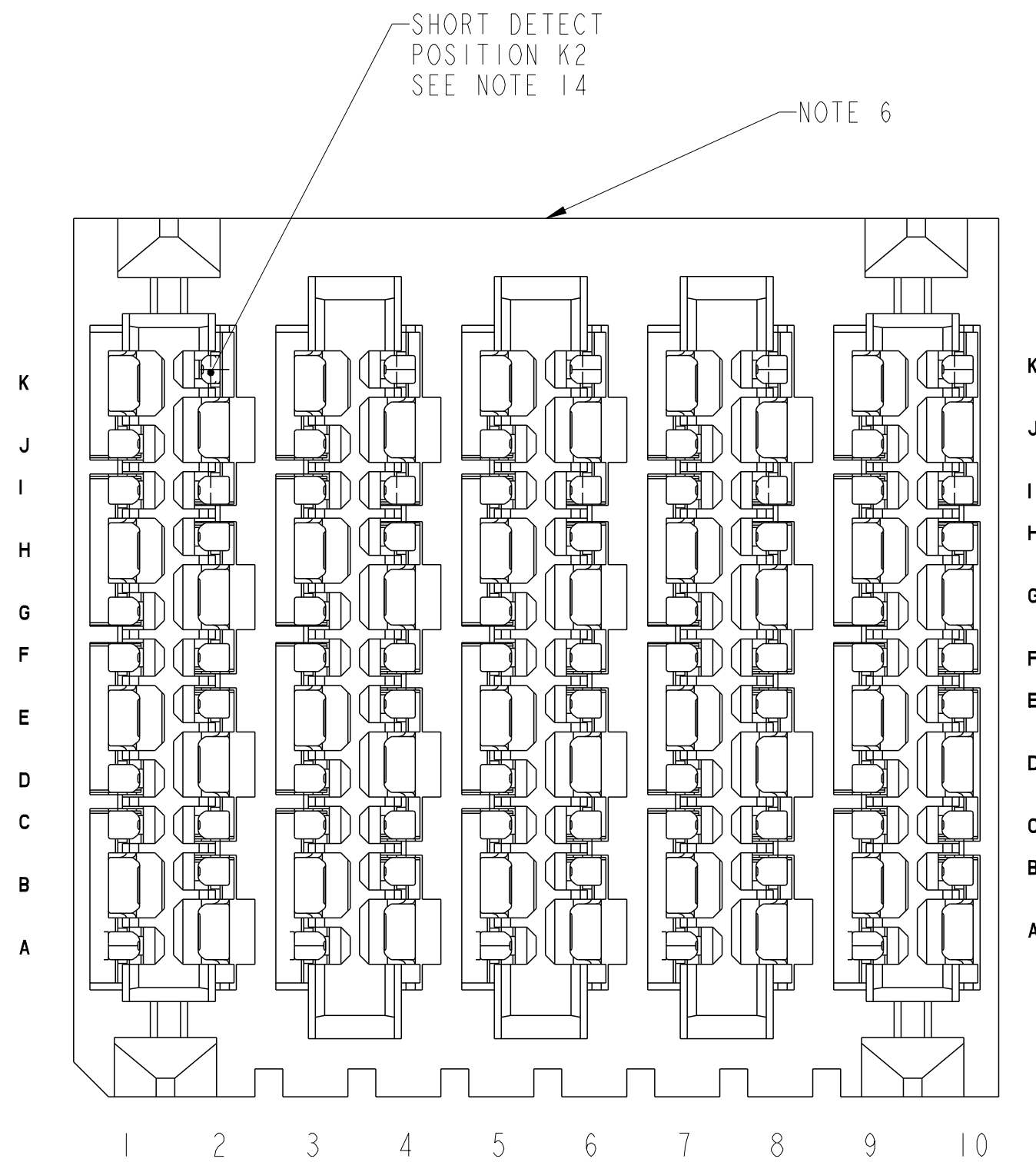
B

C

D

E

F

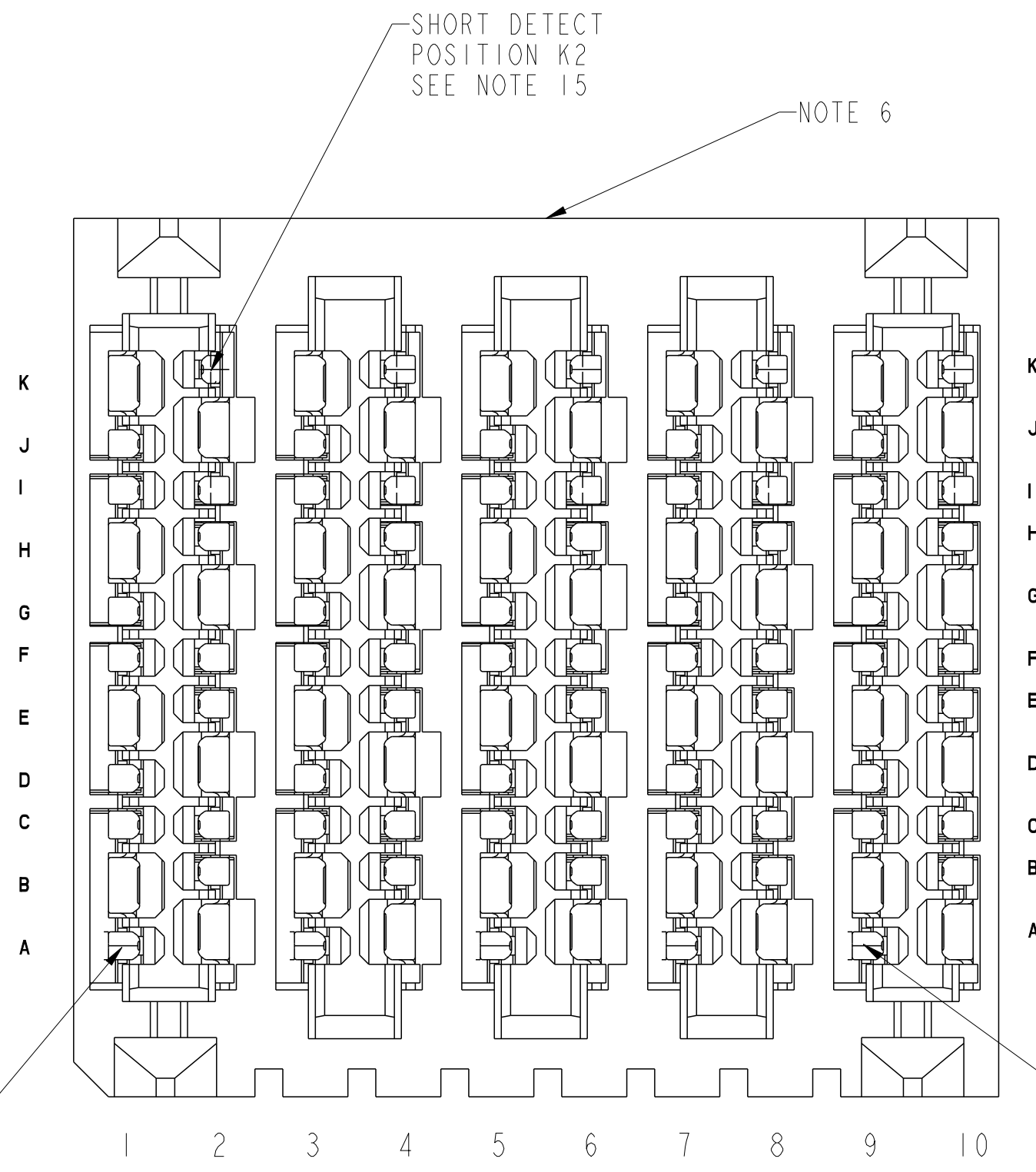


10121412-301LF
 SHORT DETECT CONNECTOR
 SHORT DETECT POSITION IS K2 ONLY
 FOR ALL DIMENSIONS SEE SHEET 1
 SCALE 8:1

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spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1							
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1									
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 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°		title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA	dwg no 10121412	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 4 of 11												



ADVANCED MATE
POSITION A1
SEE NOTE 15

ADVANCED MATE
POSITION A9
SEE NOTE 15

1021412-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
SHORT DETECT POSITION IS K2 ONLY
FOR ALL DIMENSIONS SEE SHEET 1
SCALE 8:1

**Amphenol
FCi**

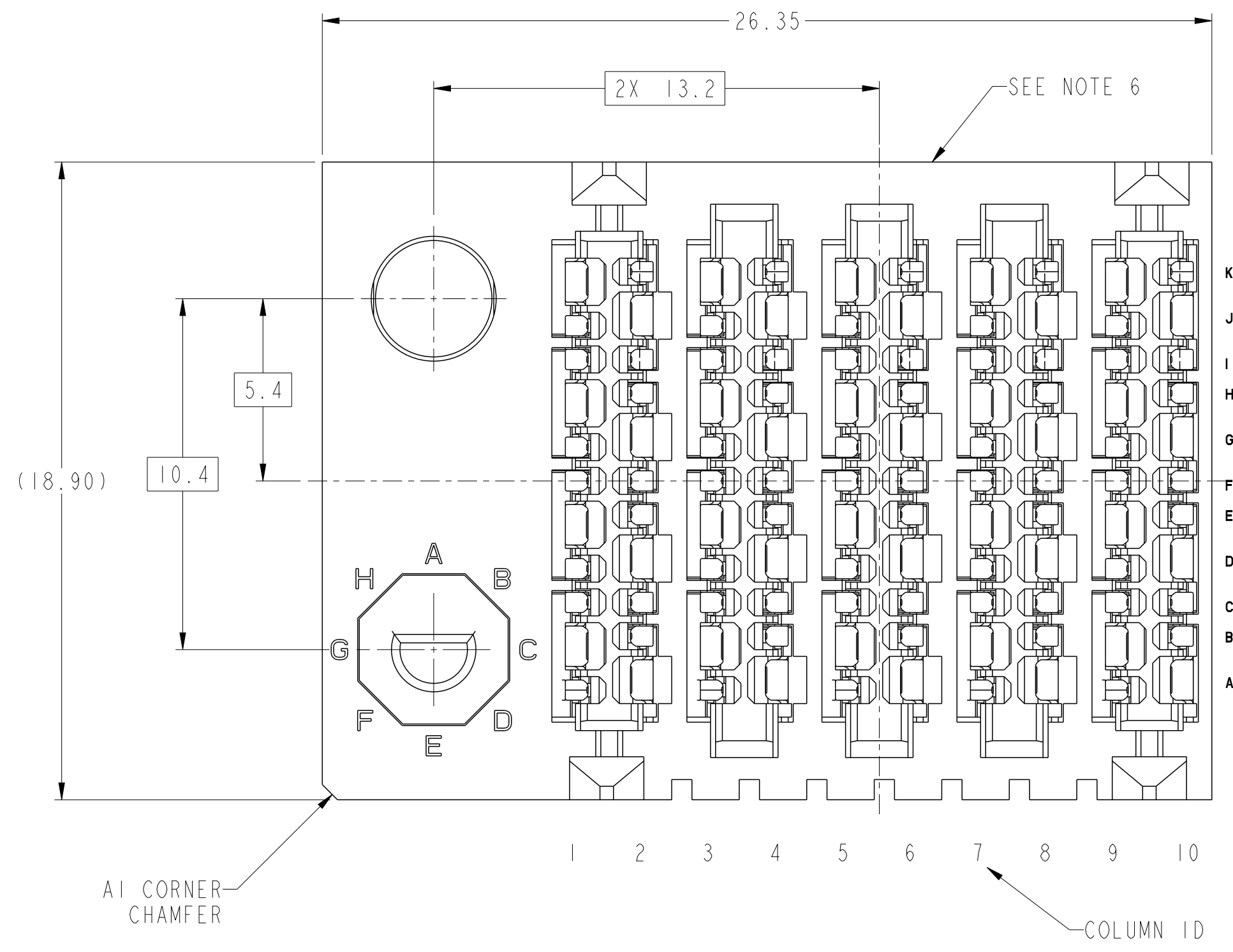
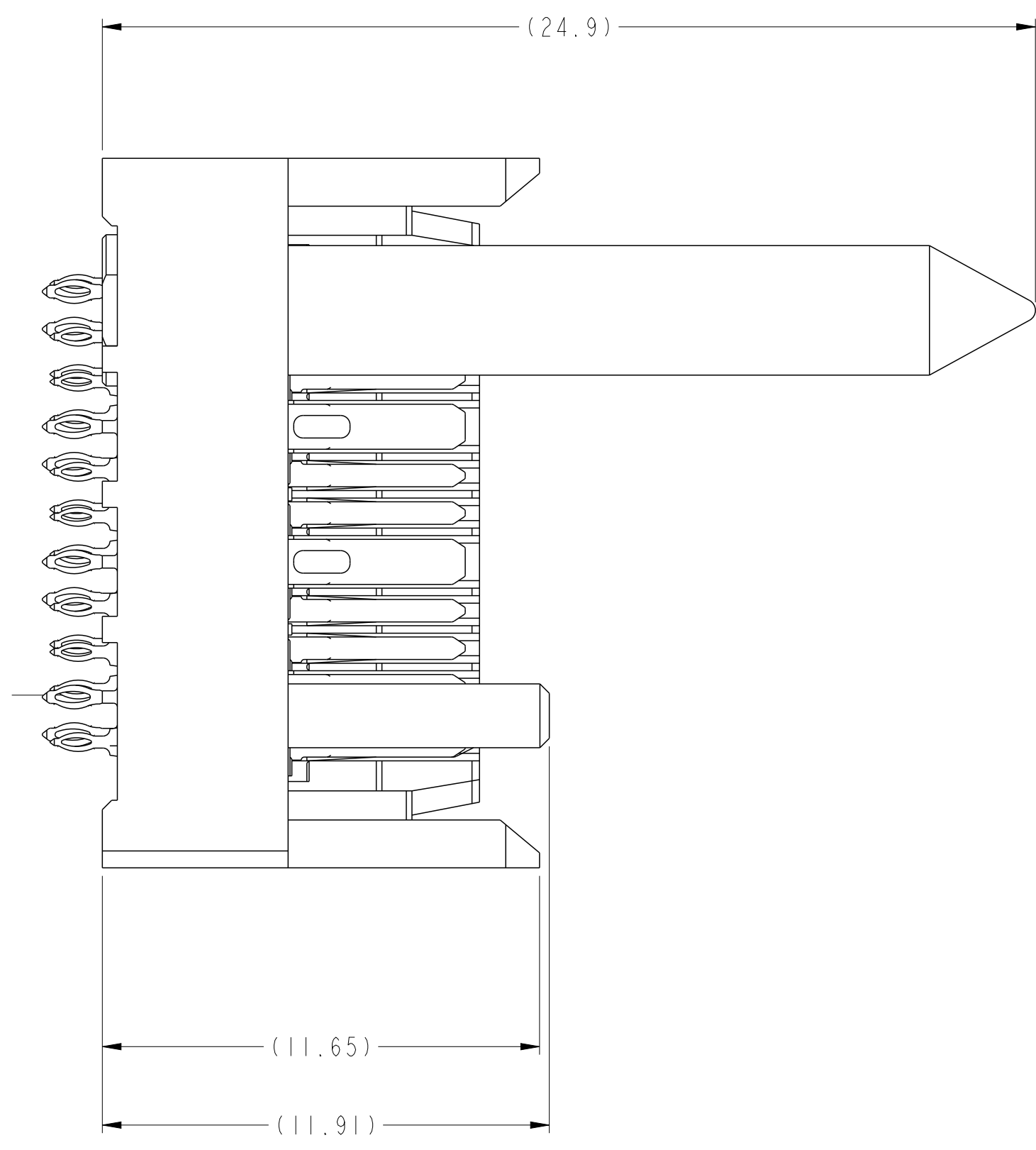
© 2016 AFci

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	3:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1				
		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 VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA	dwg no 1021412	rev B				
			0.XX	±.10					cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 5 of 11
		angular	0°	±2°								

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017



10121412-Y1ALF THRU -Y1JLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1
 SCALE 7:1

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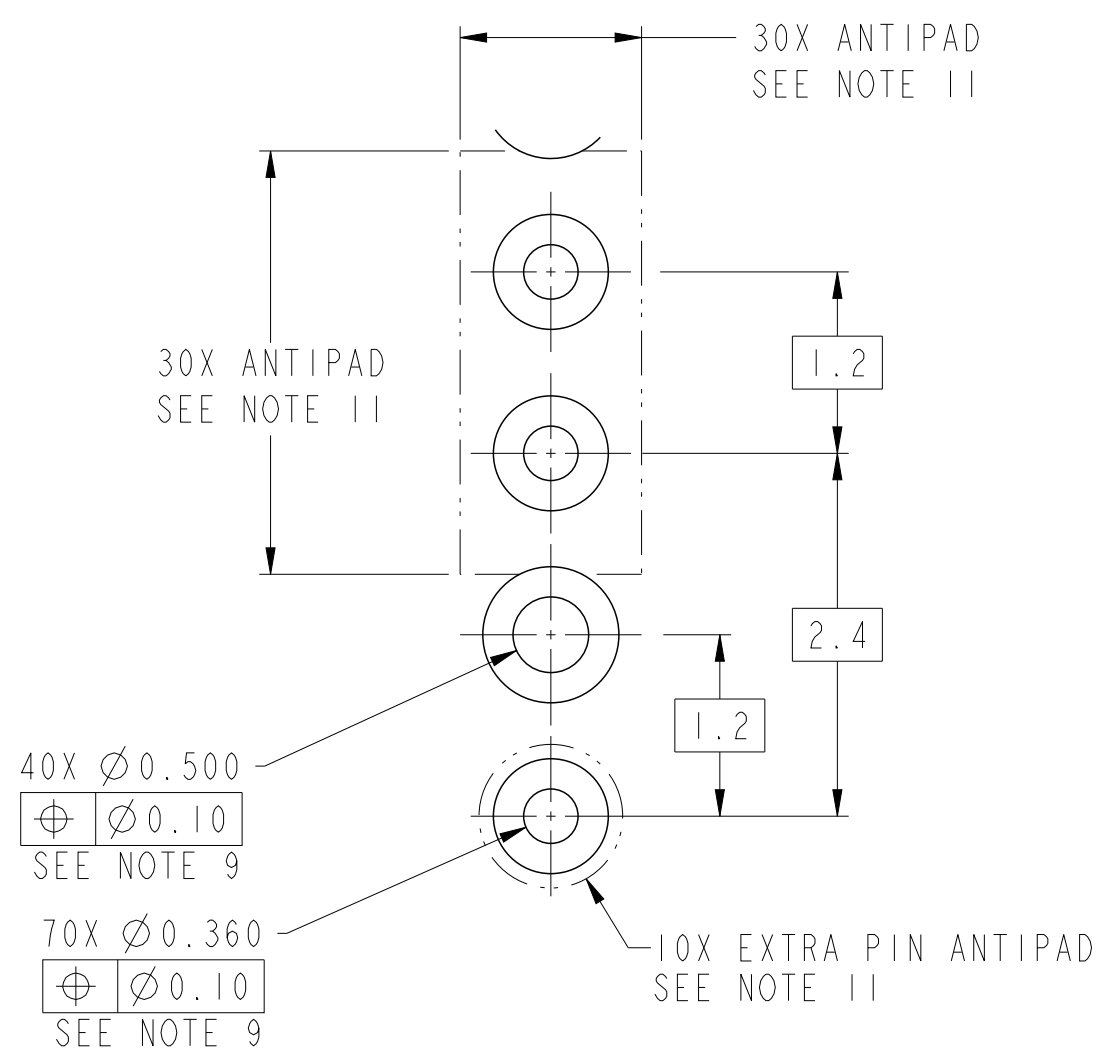
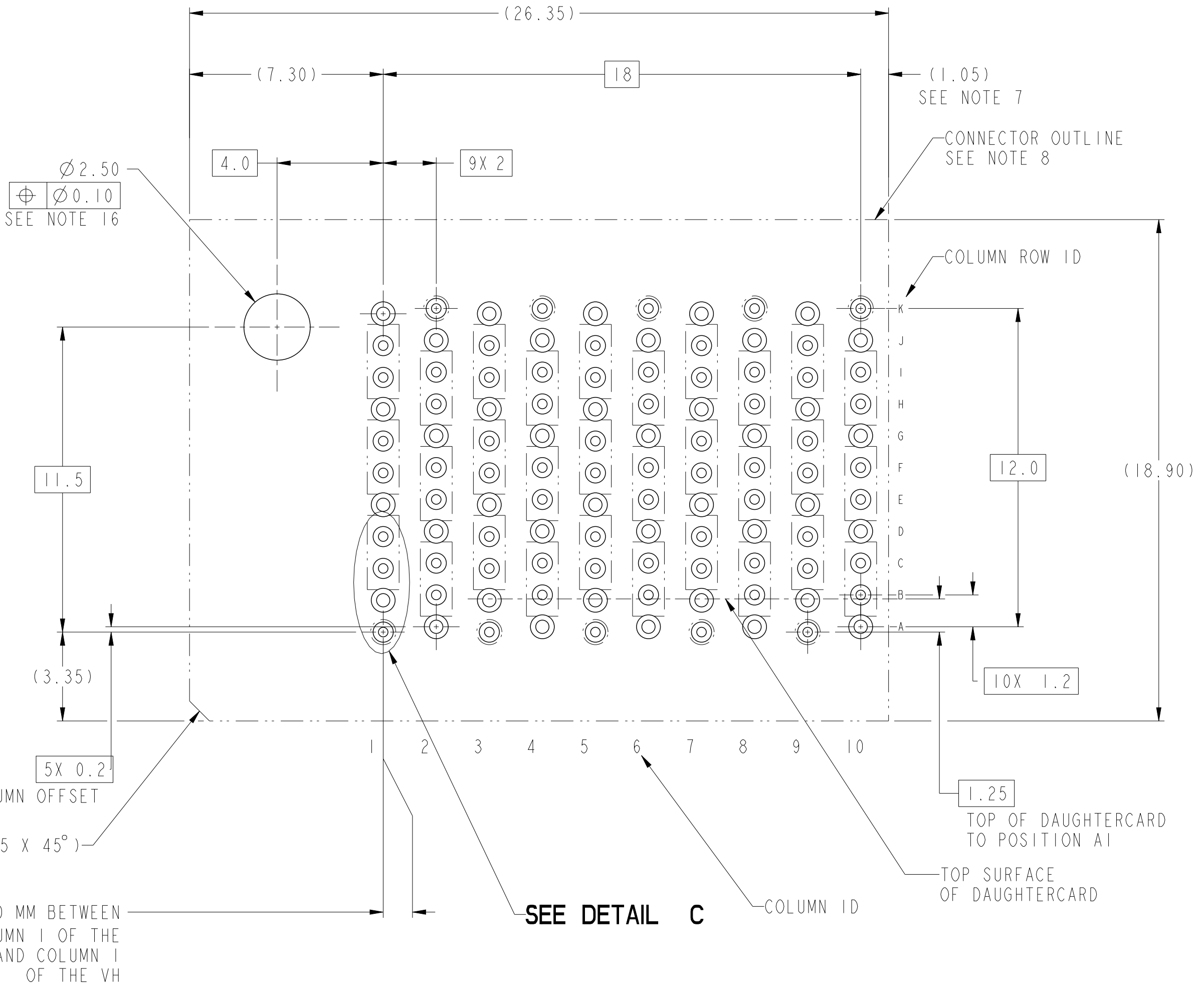
© 2016 AFCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1	rel level	Released									
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX											
		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>±2°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±2°			title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		dwg no 10121412	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 6 of 11												

PDS: Rev :B

STATUS:Released

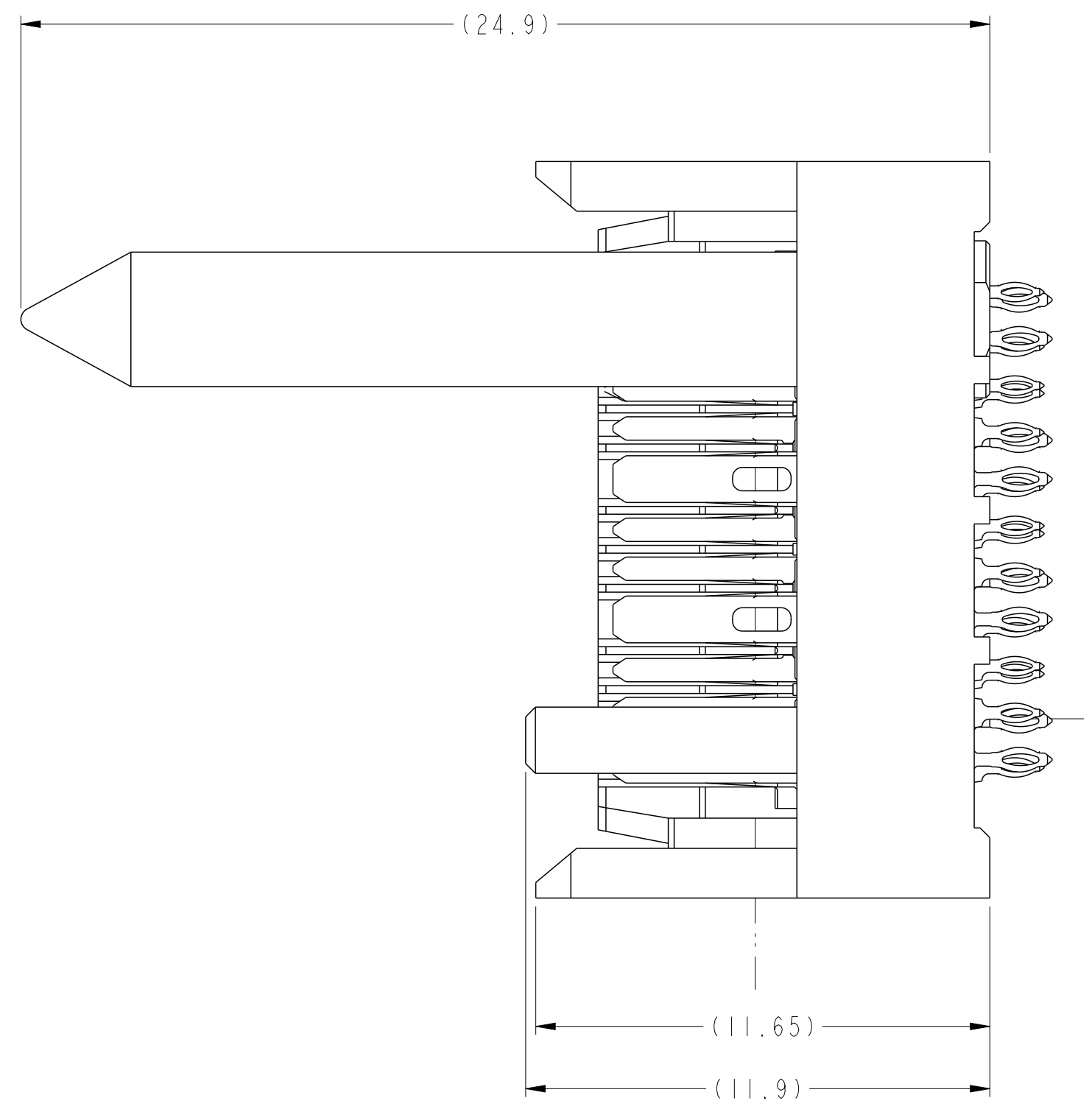
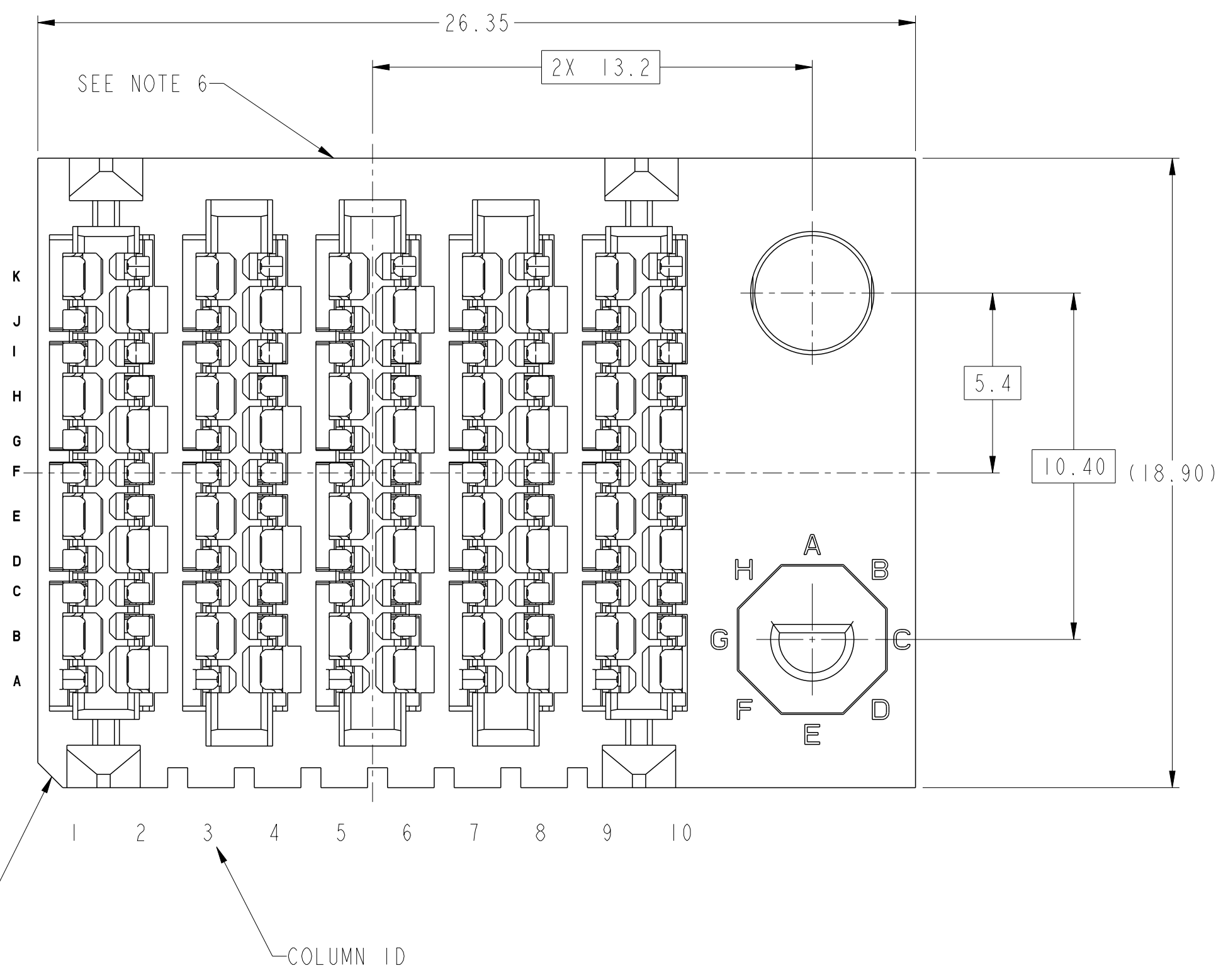
Printed: Dec 02, 2017



DETAIL C
SCALE 20:1

RECOMMENDED PCB LAYOUT FOR
10121412-Y1YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16
SCALE 7:1

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1		
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 VERTICAL HEADER	dwg no 10121412	rev B	
		0.XX	±.10		ASS'Y, 3 PAIR, 110 POS, 10 IMLA					
		0.XXX	±.050		cat. no. SEE TABLE					
	angular	0°	±2°	Product - Customer Drw		sheet 7 of 11				

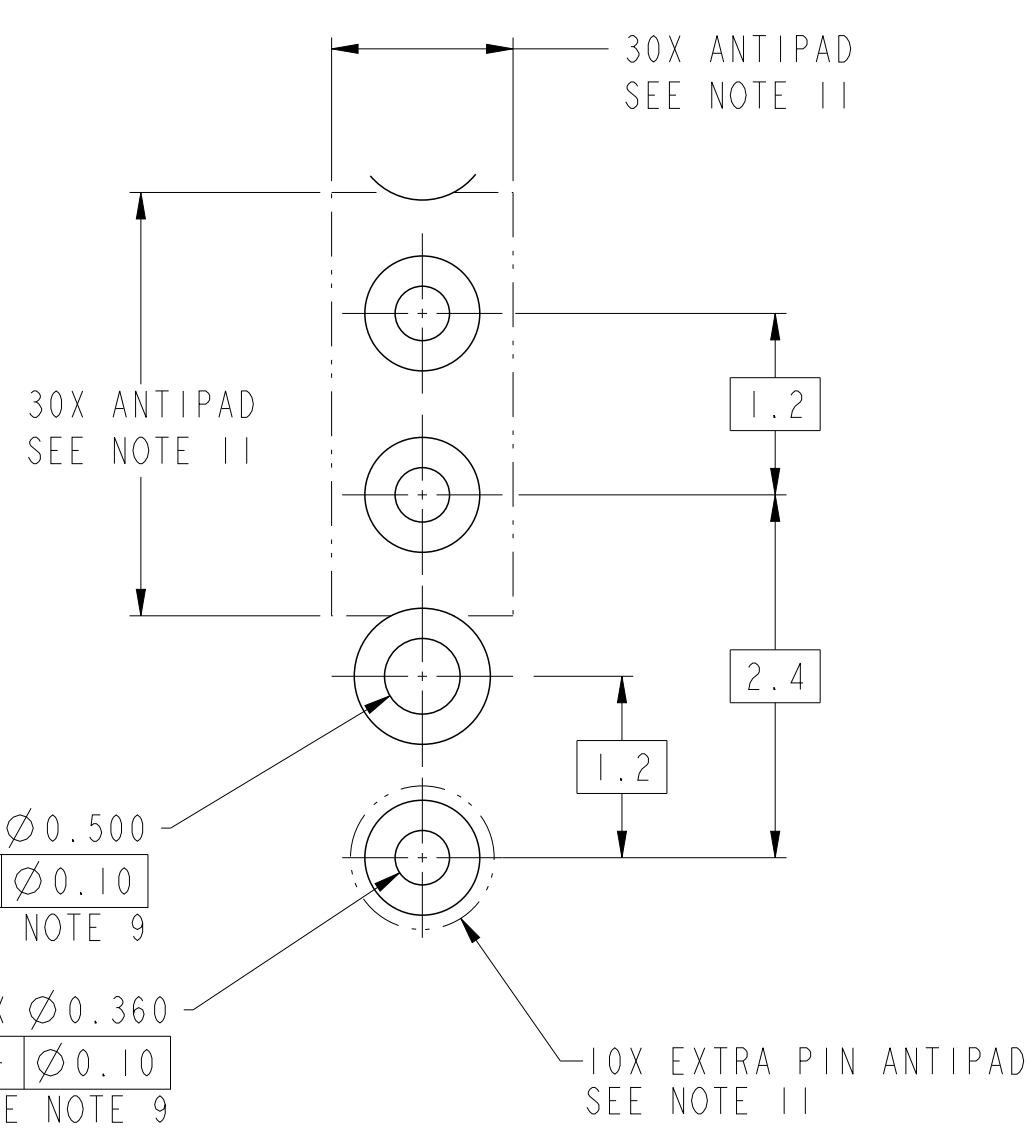


10121412-Y2ALF THRU -Y2JLF
 LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1
 SCALE 7:1

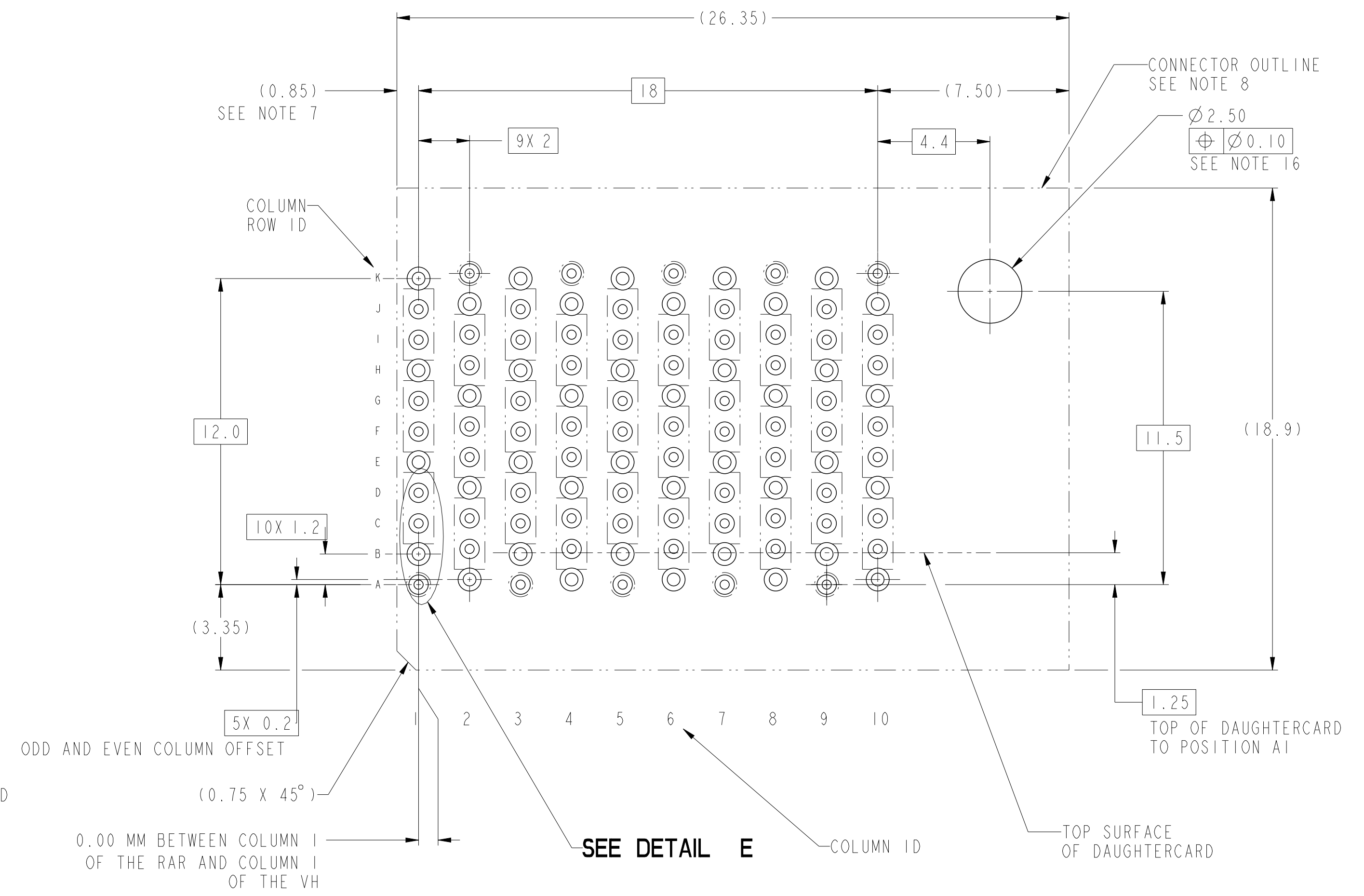
Amphenol
 FCI

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spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	3:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1	rel level	Released										
ASME Y14.5M		chr	Justin Chen	2017/11/29			product family	ExaMAX												
		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>±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, 3 PAIR, 110 POS, 10 IMLA		dwg no	10121412	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															



DETAIL E
SCALE 20:1

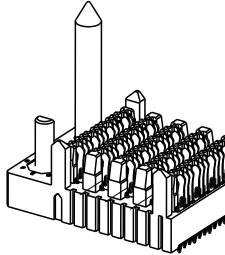
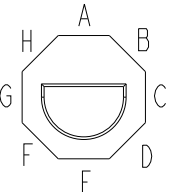
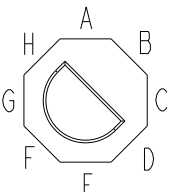
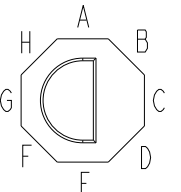
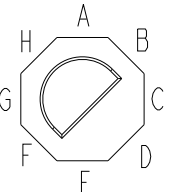
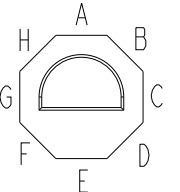
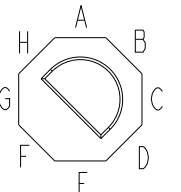
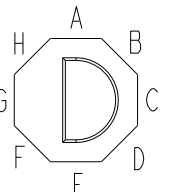
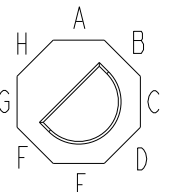
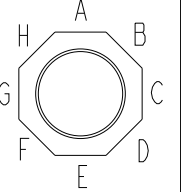
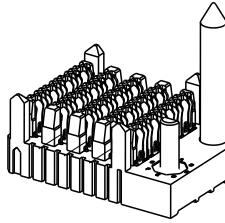
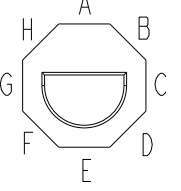
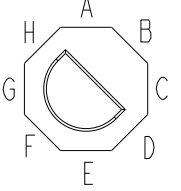
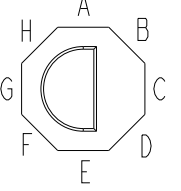
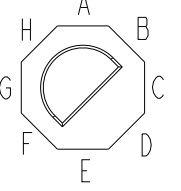
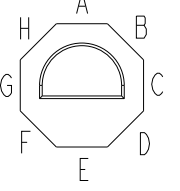
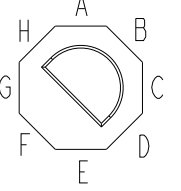
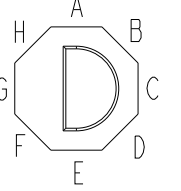
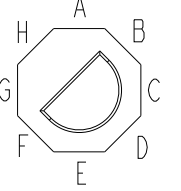
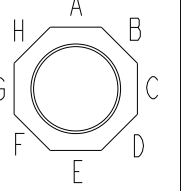


**RECOMMENDED PCB LAYOUT FOR
10121412-Y2YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16
SCALE 7:1**

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1	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° ±2°	Amphenol FCI		title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		dwg no 10121412					

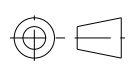
10121412 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10121412-1YYLF	STANDARD MATE
10121412-2YYLF	ADVANCED MATE
10121412-3YYLF	SHORT DETECT
10121412-4YYLF	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	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08		← →	ecn no	ELX-DG-28406-1	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	ExaMAX VERTICAL HEADER	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 10 of 11
✓		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±2°							
				Amphenol FCI		ExaMAX		rel level		Released
				ASS'Y, 3 PAIR, 110 POS, 10 IMLA		10121412		rev		B

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

NOTES:

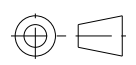
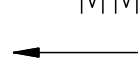

- ① - CONNECTOR MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
CONTACT: COPPER ALLOY
GUIDE PIN: ZINC ALLOY
KEY PIN: ZINC ALLOY

- 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, 10121412-2XXLF, 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, 10121412-3XXLF, WHEN MATED WITH A STADNARD 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, 10121412-4XXLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75MM BEFORE THE REMAINDER OF THE SIGNLA 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 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 LENGHT 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 ARE COMMONED WITHIN A COLUMN.

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	2:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2017/11/08			ecn no	ELX-DG-28406-1													
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>±2°</td> </tr> </table>	linear	0.X	±.3		0.XX	±.10		0.XXX	±.050	angular	0°	±2°			title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		dwg no 10121412	rev B		
linear	0.X	±.3																			
	0.XX	±.10																			
	0.XXX	±.050																			
angular	0°	±2°																			
		cat. no.	SEE TABLE		Product - Customer Drw		sheet 11 of 11														