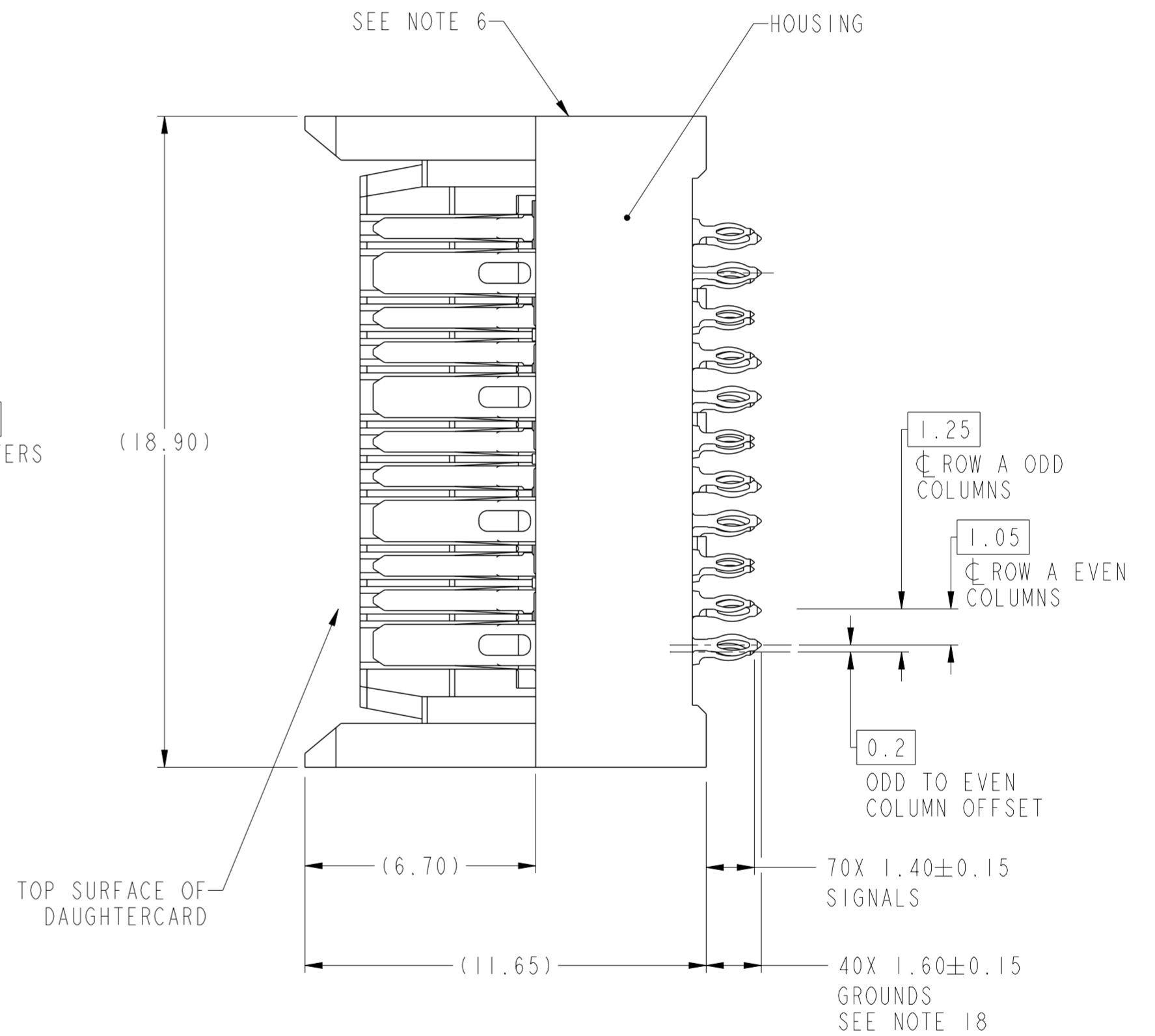
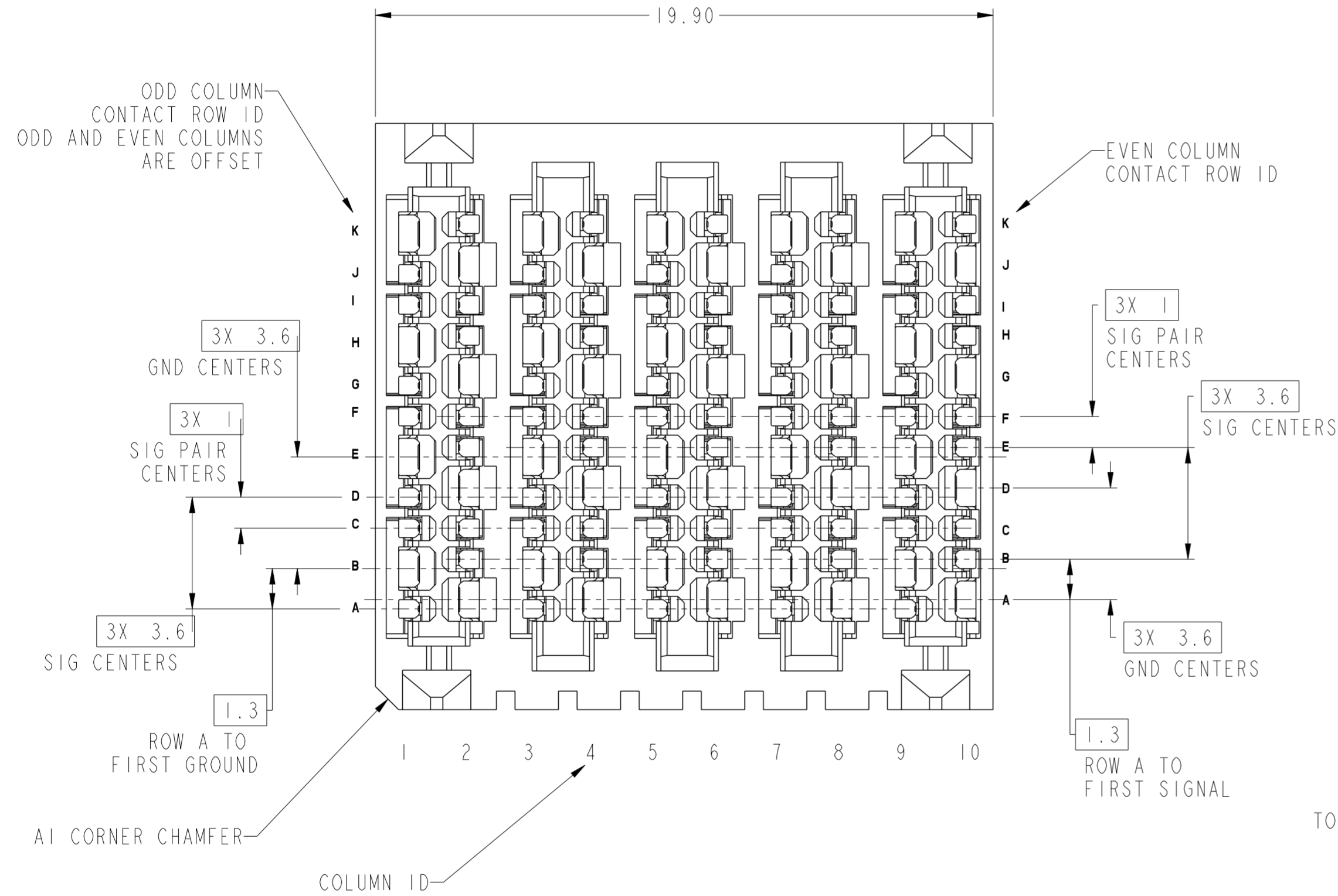


PRODUCT NUMBER
SEE TABLE



10121412-Y01YLF
(10121412-101YLF 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	2020/03/26			ecn no	ELX-DG-35706-1	rel level	Released									
ASME Y14.5M		chr	-	appr							Heaven Cen	2020/04/03	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°			ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		dwg no 10121412	rev C
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												

PDS: Rev :C

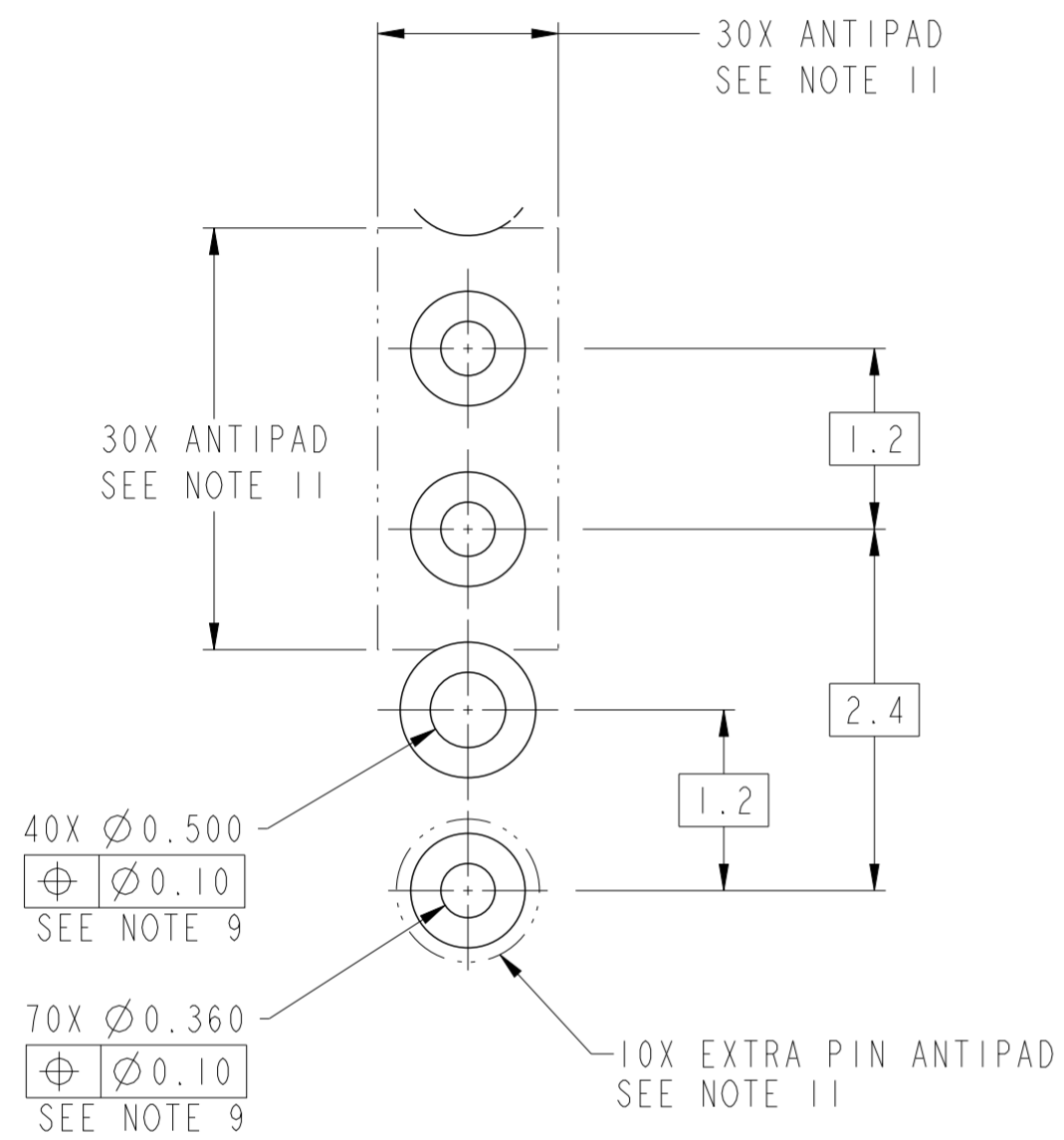
STATUS:Released

Printed: Apr 03, 2020

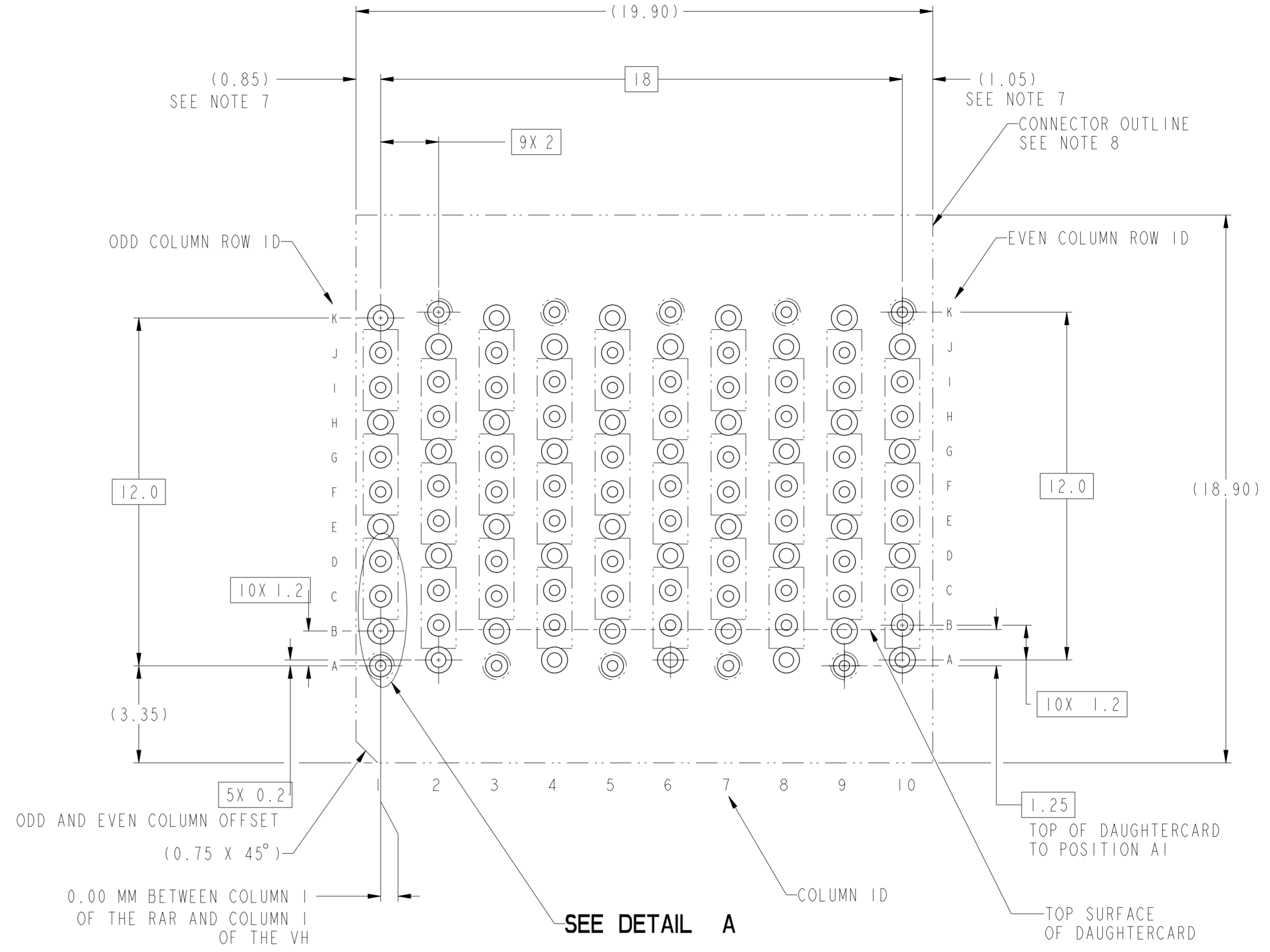
1 2 3 4 5 6 7 8

A B C D E F

A B C D E F



DETAIL A
SCALE 20:1



**RECOMMENDED PCB LAYOUT FOR
10121412-Y01YLF 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	2020/03/26			ecn no	ELX-DG-35706-1	rel level Released		
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/03		product family	ExaMAX
surface	linear	0.X	±.3	0.XX			±.10	0.XXX		±.050	angular
		Amphenol FCI			title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		cat. no. SEE P/N TABLE		Product - Customer Drw		
							rel level 10121412		rev C		
							sheet 2 of 11				

PDS: Rev :C

STATUS:Released

Printed: Apr 03, 2020

Amphenol FCI

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1 2 3 4 5 6 7 8

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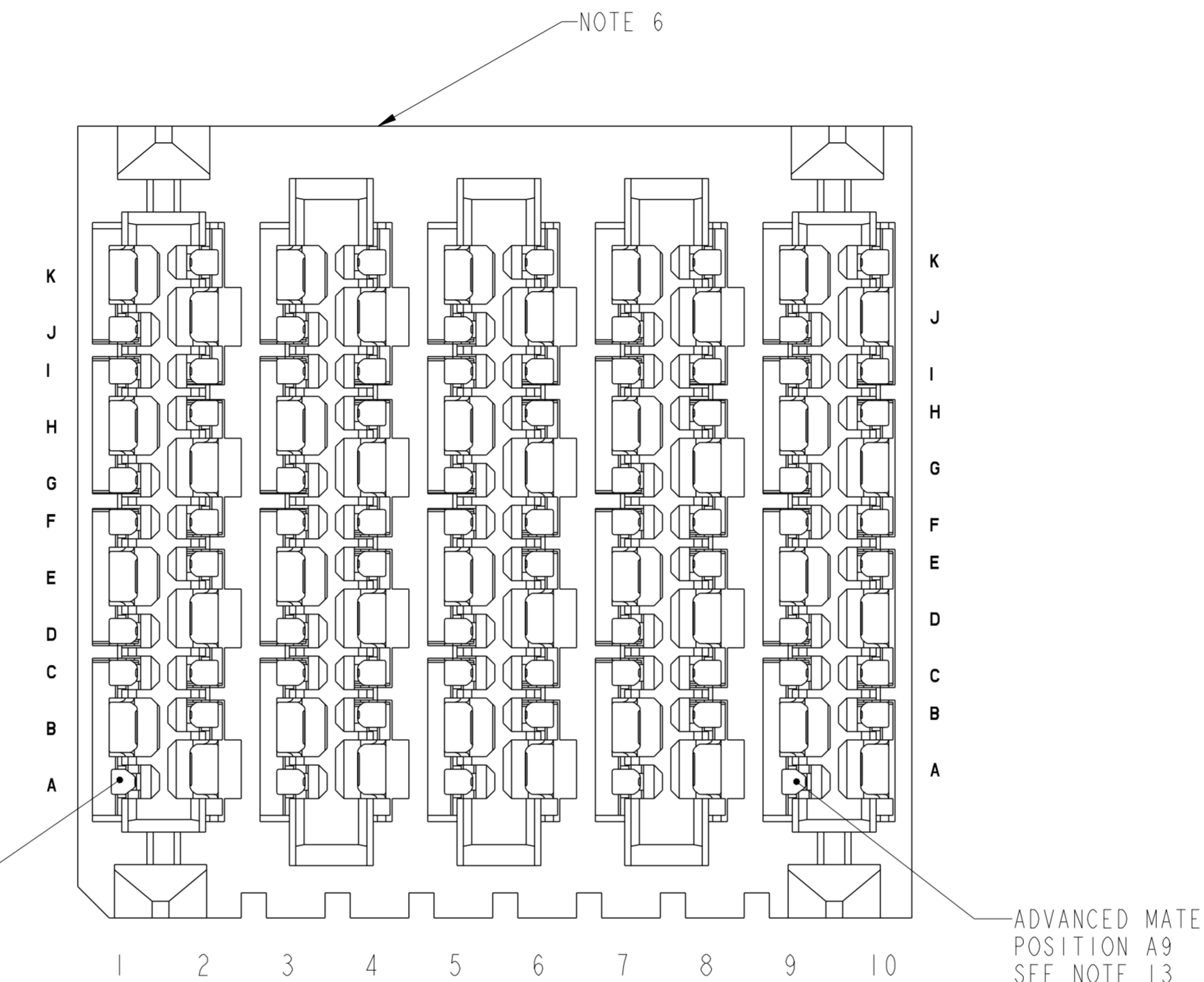
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Amphenol
FCi

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10121412-201YLF
 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	2020/03/26			ecn no	ELX-DG-35706-1											
ASME Y14.5M		chr	-	rel level			Released												
		appr	Heaven Cen	2020/04/03			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°	Amphenol FCi	title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA			dwg no 10121412	rev C
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±2°																	
		cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 3 of 11														

1 2 3 4 5 6 7 8

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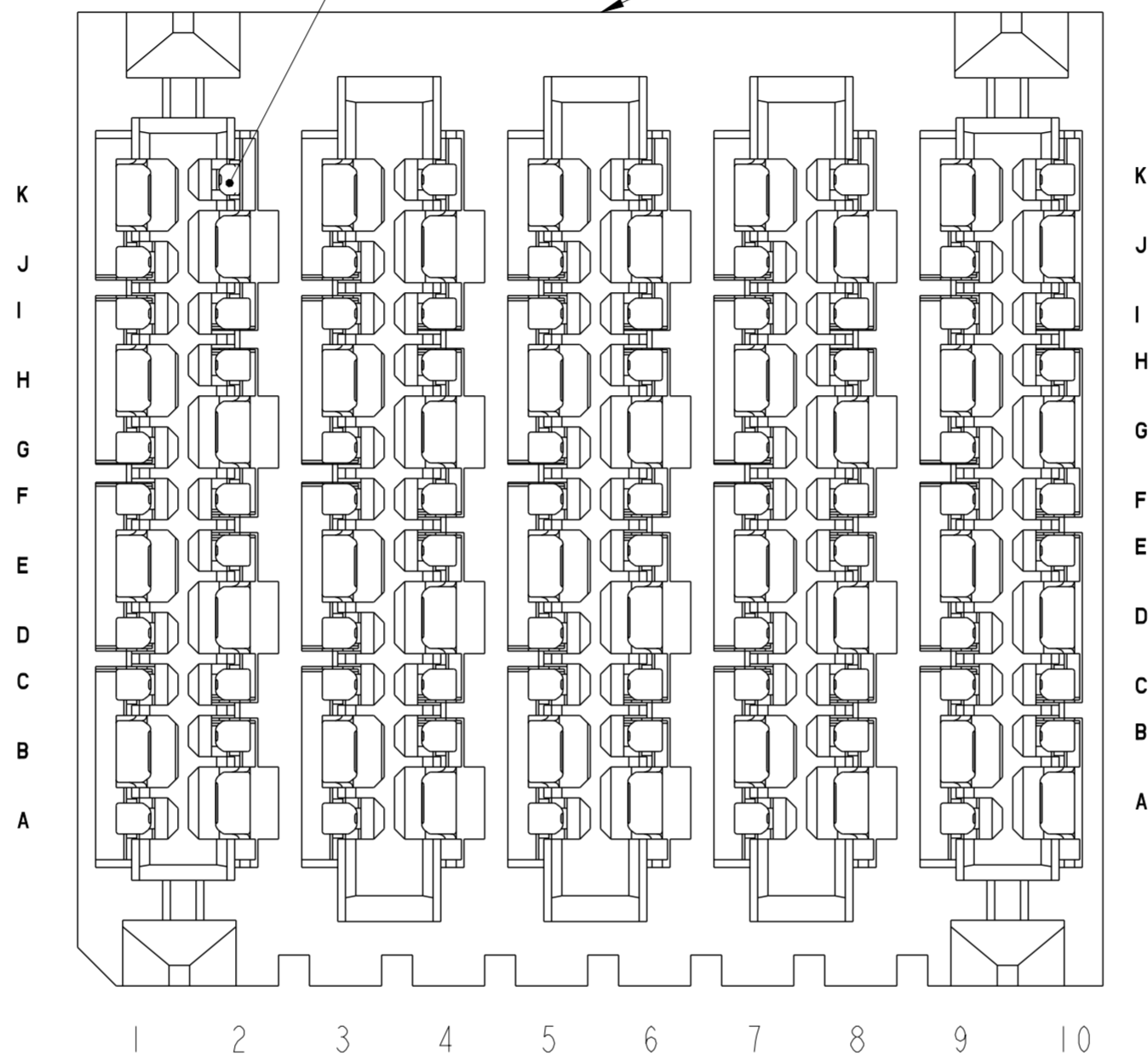
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SHORT DETECT
POSITION K2
SEE NOTE 14

NOTE 6



10121412-301YLF
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	2020/03/26			ecn no	ELX-DG-35706-1										
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/03	product family	ExaMAX	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°		title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA	cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 4 of 11
-	linear			0.X	±.3													
				0.XX	±.10													
		0.XXX	±.050															
	angular	0°	±2°															
							rev C											

1 2 3 4 5 6 7 8

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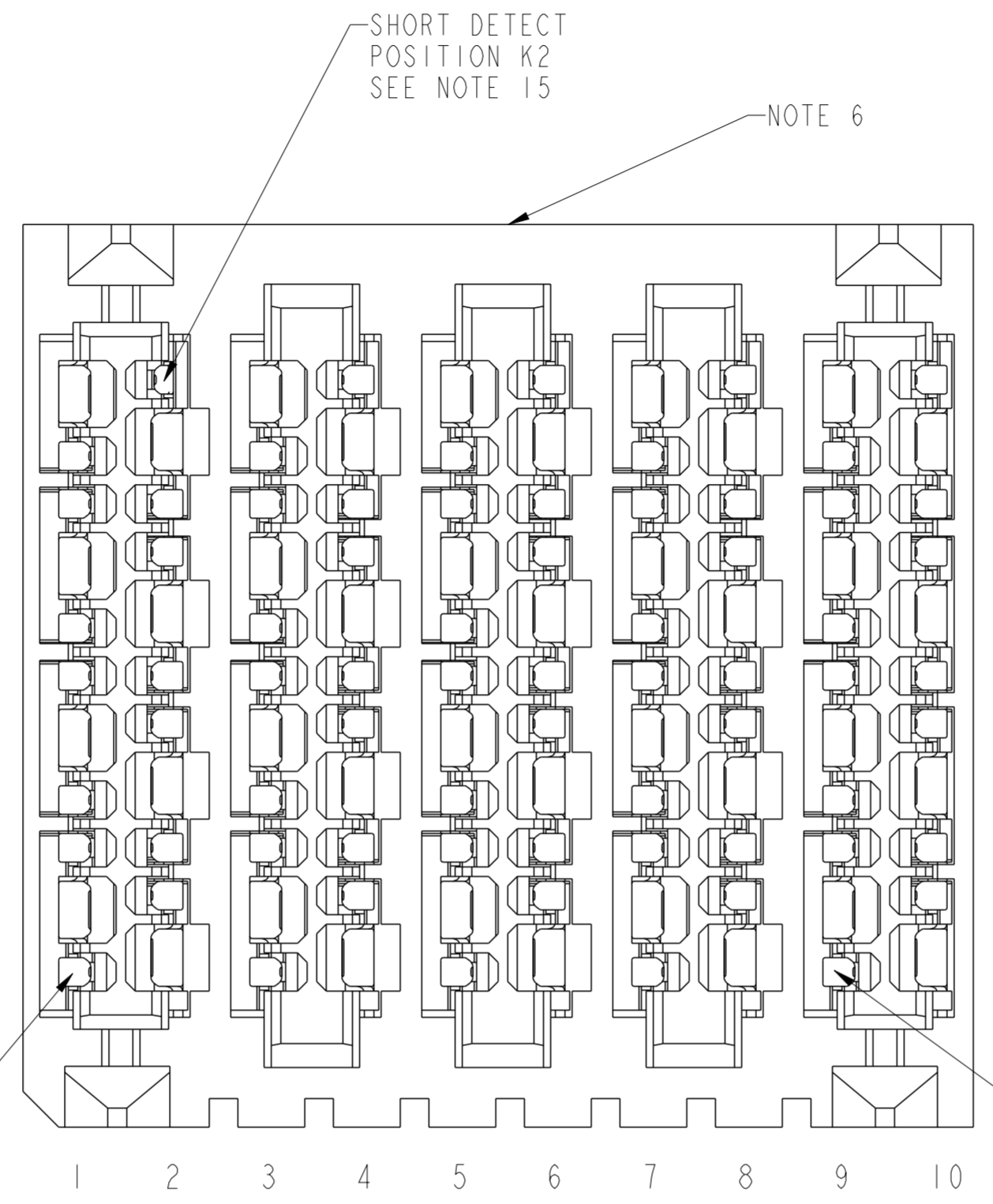
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ADVANCED MATE
POSITION A1
SEE NOTE 15

ADVANCED MATE
POSITION A9
SEE NOTE 15

1021412-401YLF
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

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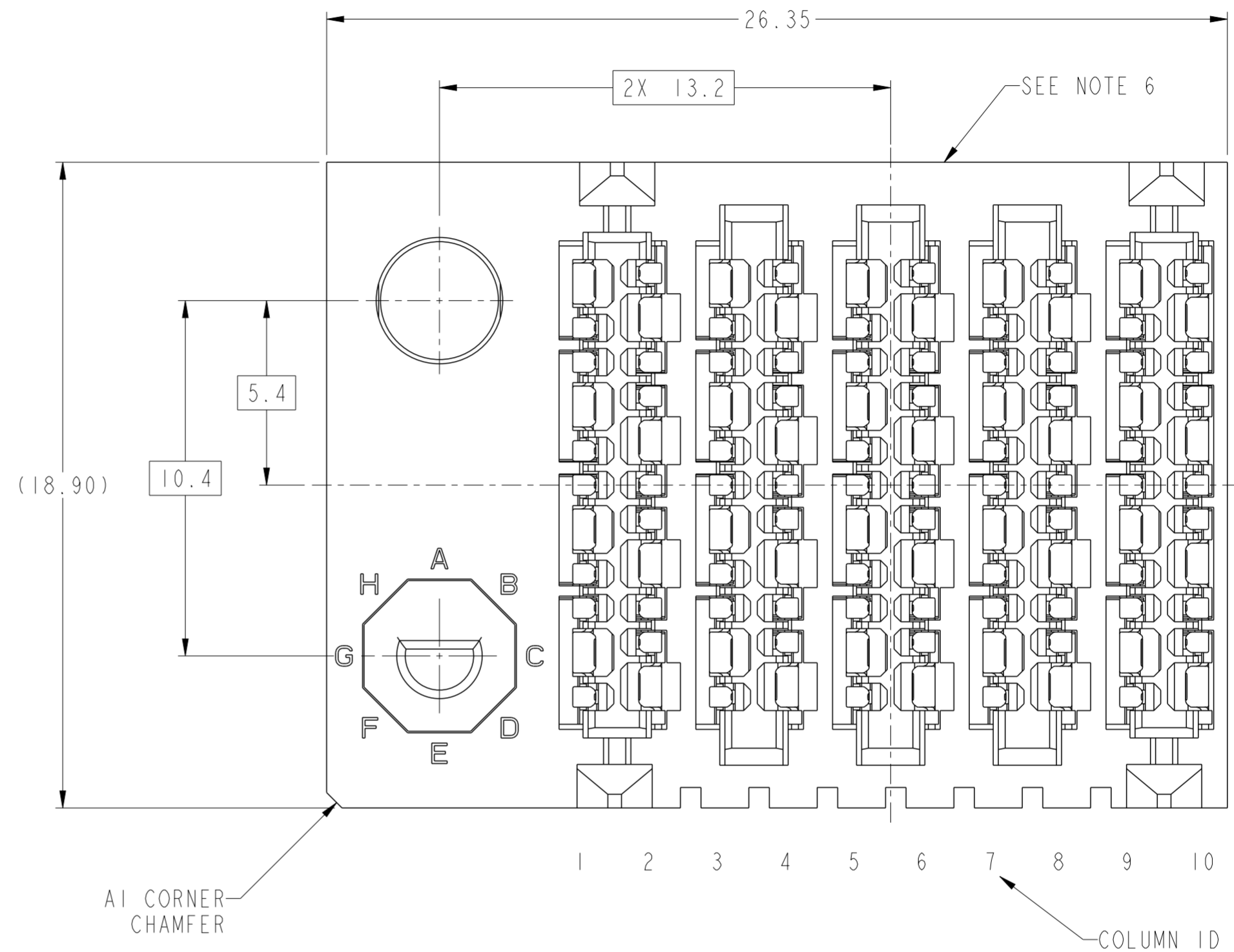
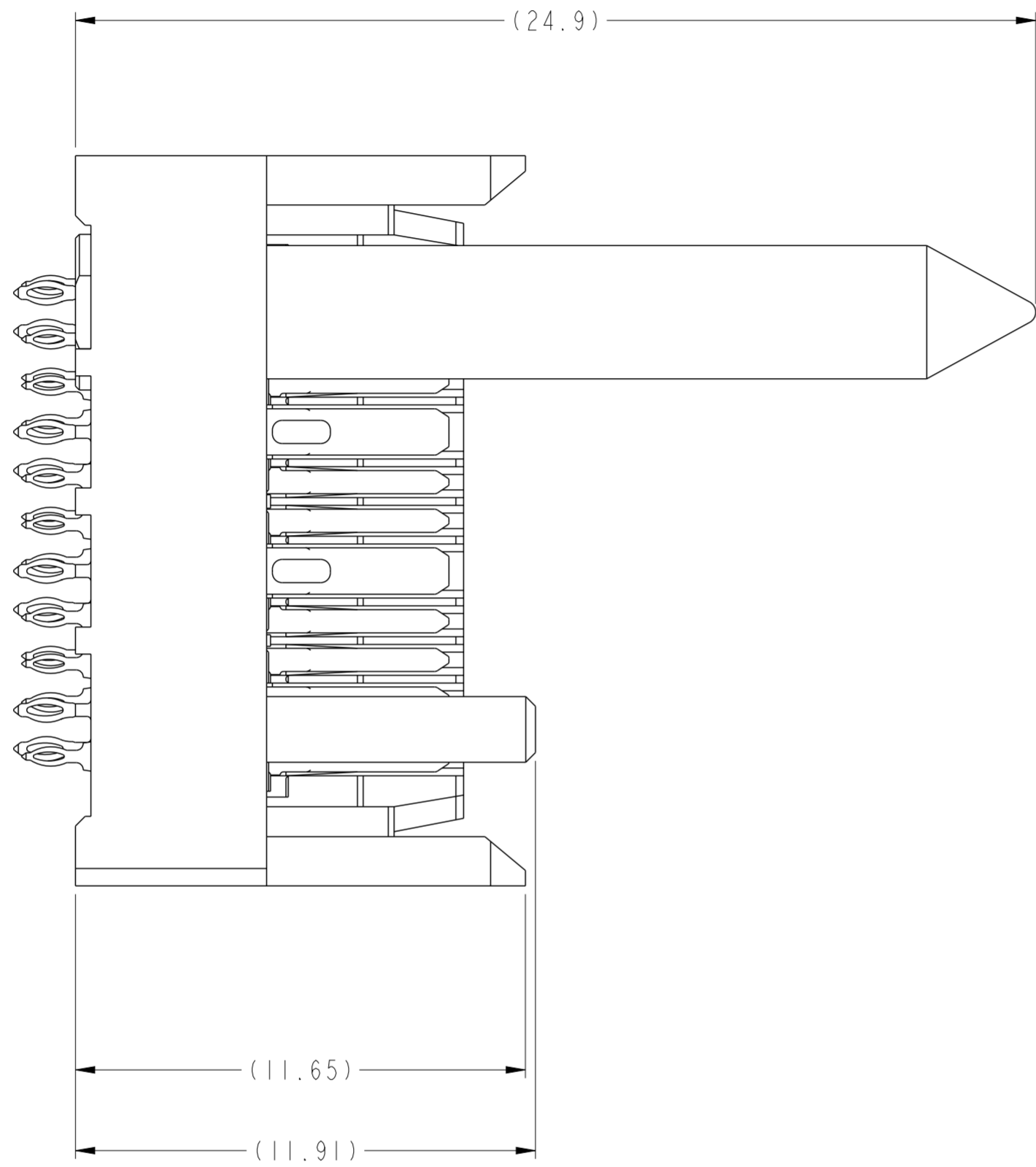
© 2016 AFCI

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	2020/03/26			ecn no	ELX-DG-35706-1												
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/03	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>±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	1021412
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±2°																		
		cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 5 of 11															

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STATUS:Released

Printed: Apr 03, 2020



10121412-Y1AYLF THRU -Y1JYLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1
 SCALE 7:1

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	2020/03/26			ecn no	ELX-DG-35706-1	rel level	Released									
ASME Y14.5M		chr	-	apppr			Heaven Cen	2020/04/03		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 C
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												

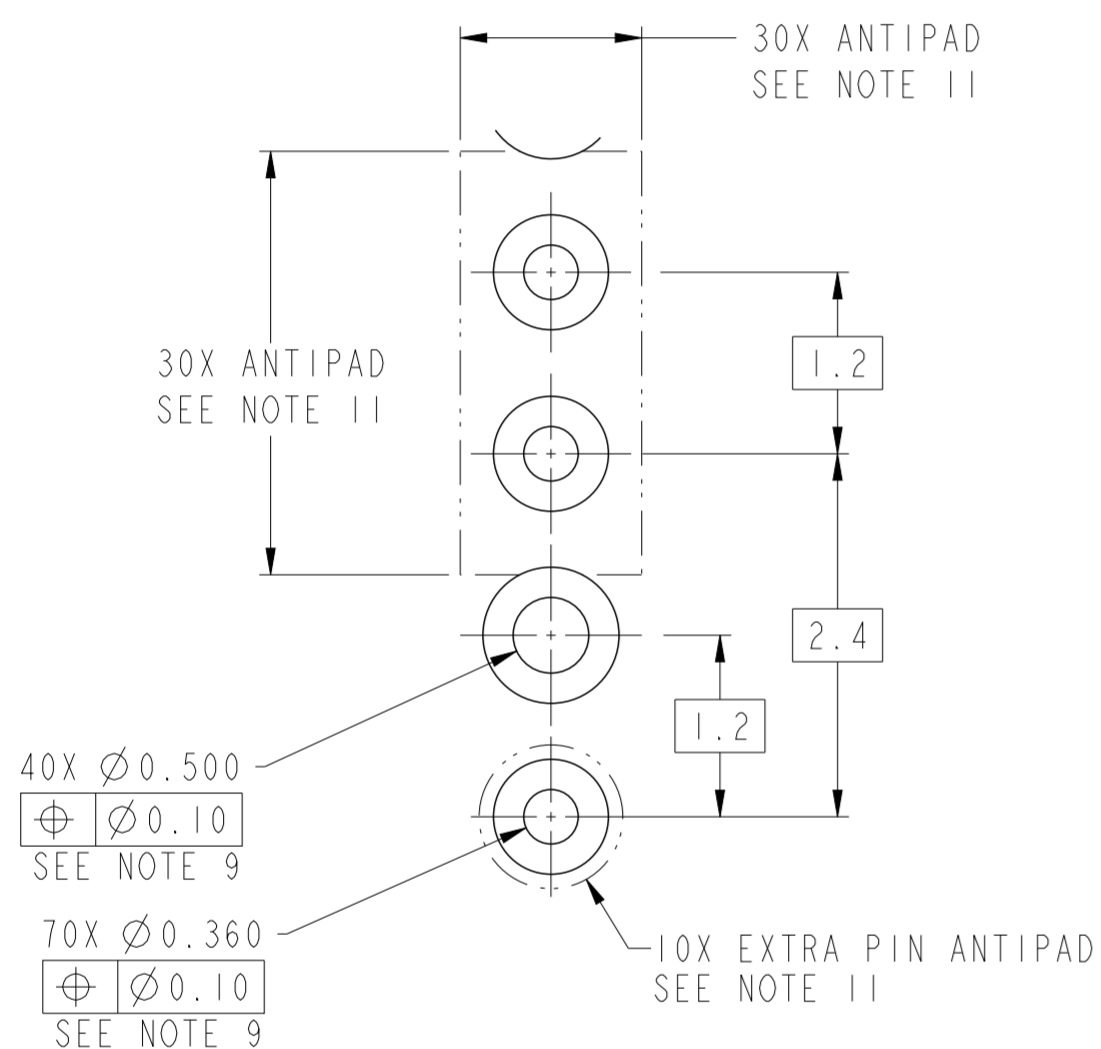
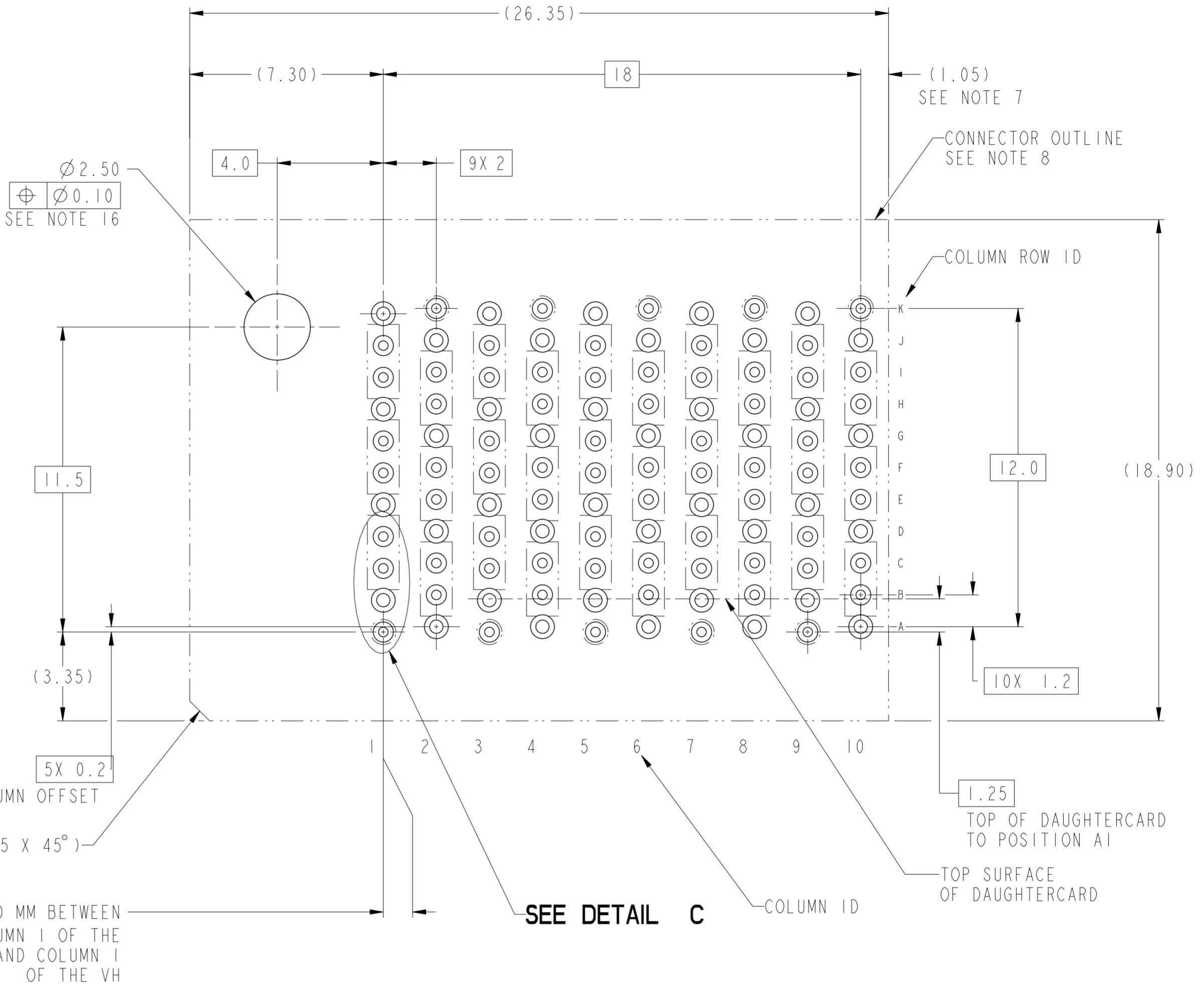
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DETAIL C
SCALE 20:1

RECOMMENDED PCB LAYOUT FOR
10121412-Y1YYLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16
SCALE 7:1

spec ref	SEE NOTES	dr	Siu Stoner	2012/06/05	projection	MM	size	A2	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/03/26			ecn no	ELX-DG-35706-1		
ASME Y14.5M		chr	-				rel level	Released		
surface	linear	appr	Heaven Cen	2020/04/03	product family	ExaMAX		rel level	Released	
	angular			title	ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA			dwg no	10121412	
				cat. no.	SEE TABLE	Product - Customer Drw	sheet 7 of 11	rev	C	

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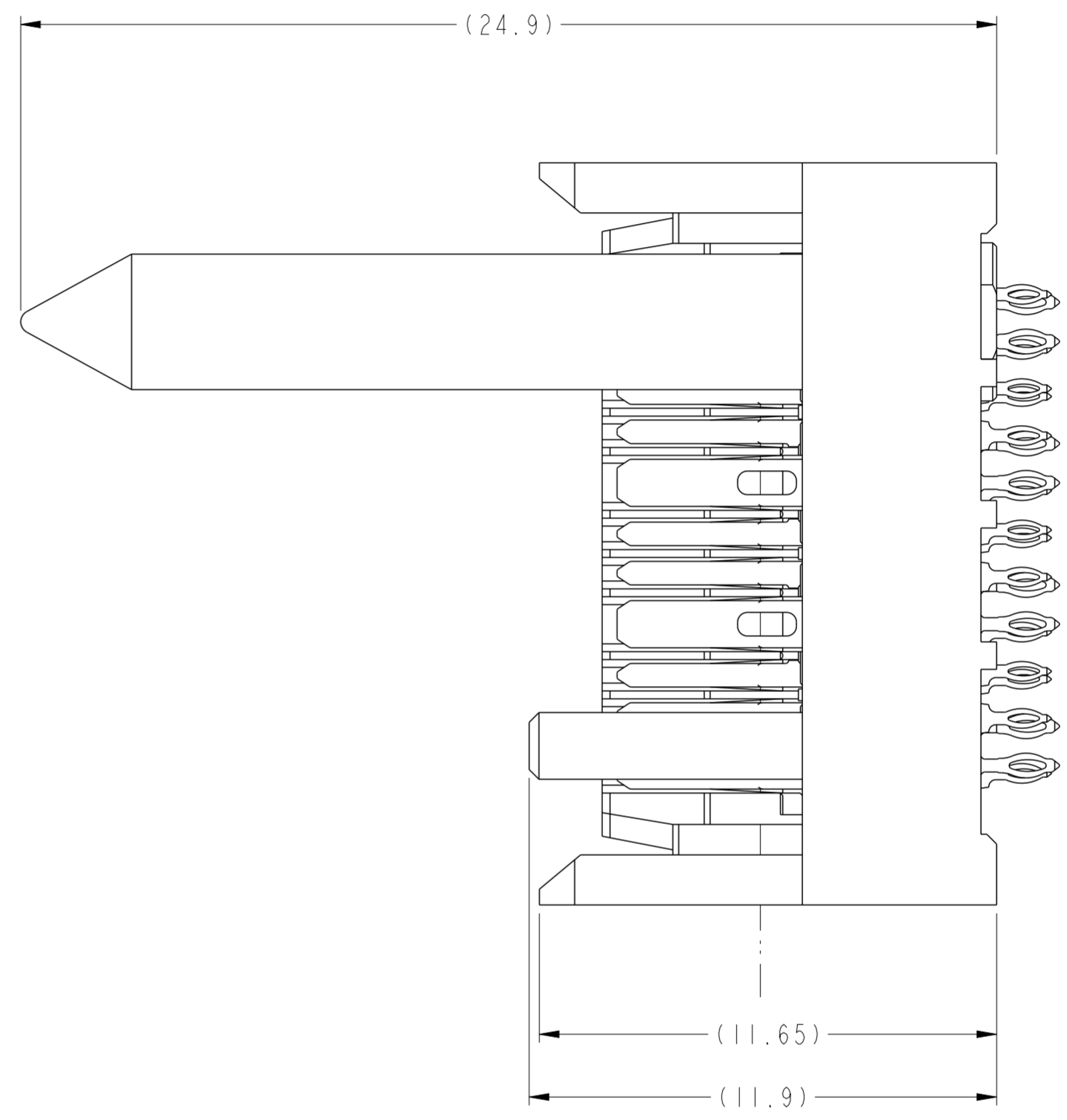
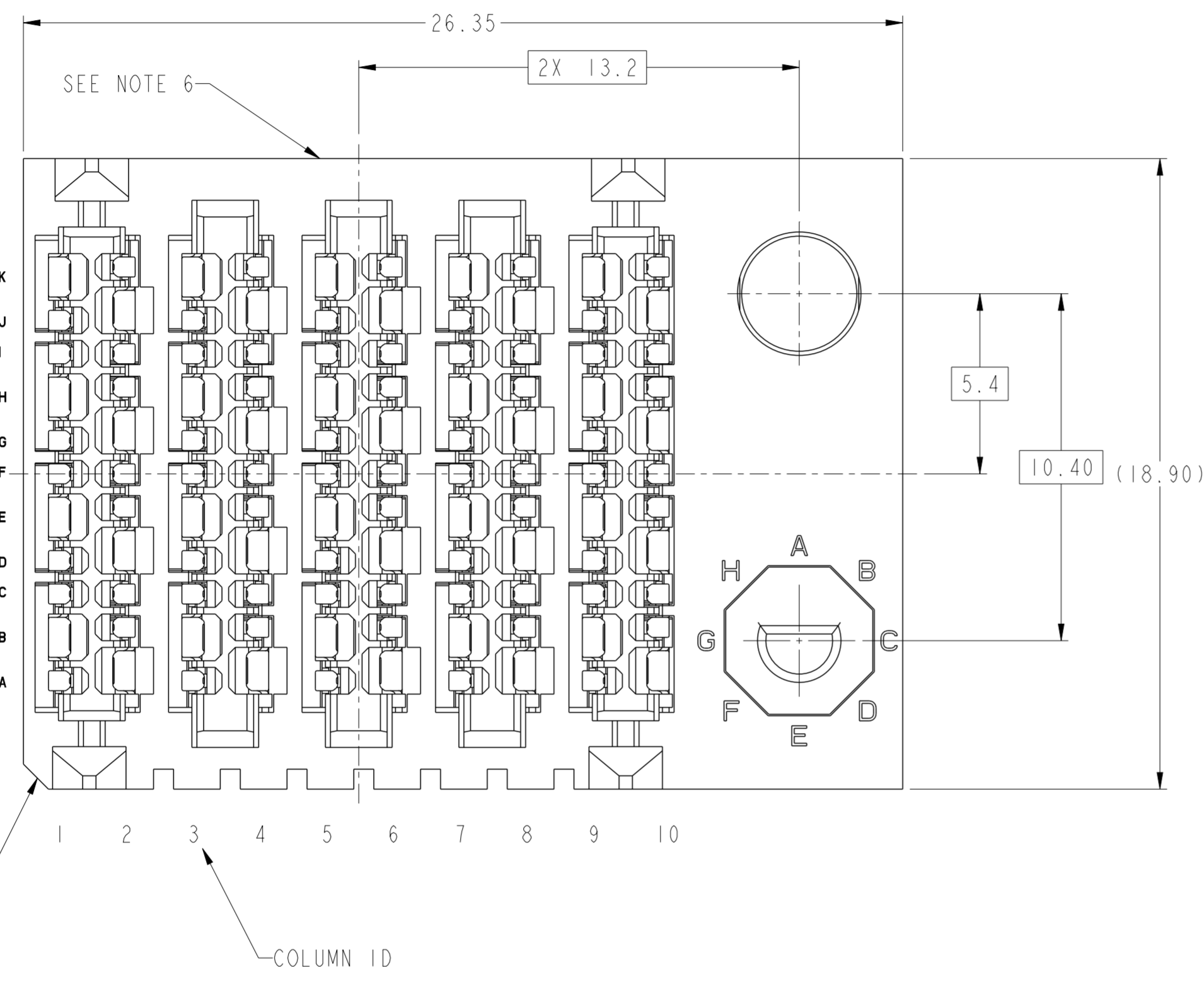
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10121412-Y2AYLF THRU -Y2JYLF
 LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1
 SCALE 7:1

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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	2020/03/26			ecn no	ELX-DG-35706-1														
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/04/03	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>±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 C	cat. no. SEE P/N TABLE Product - Customer Drw sheet 8 of 11		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±2°																				

PDS: Rev :C

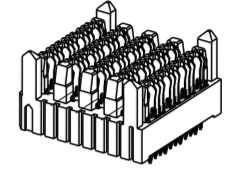
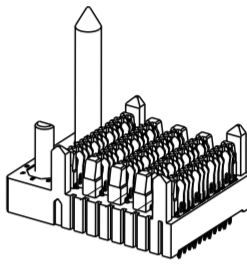
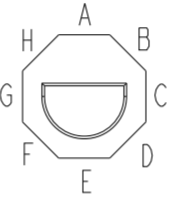
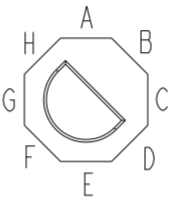
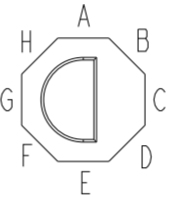
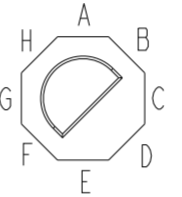
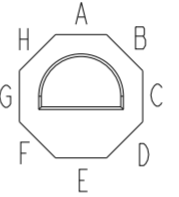
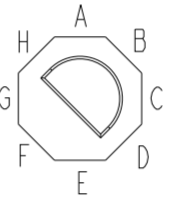
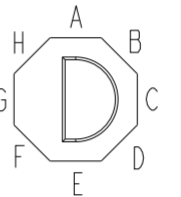
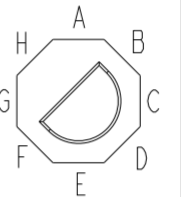
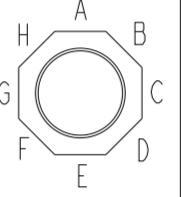
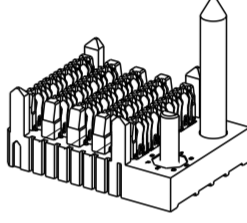
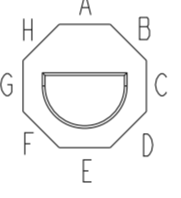
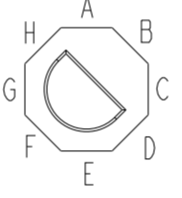
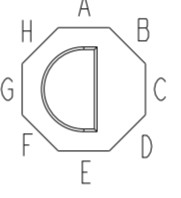
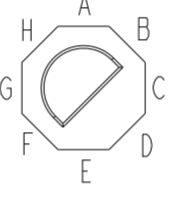
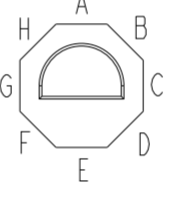
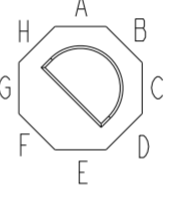
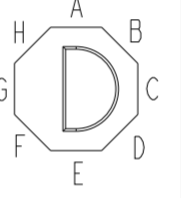
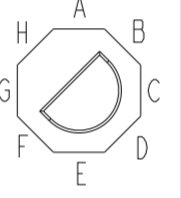
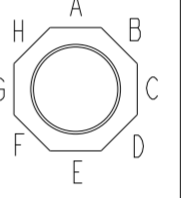
STATUS:Released

Printed: Apr 03, 2020

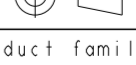
10121412 - Y Y Y Y L F

PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10121412-1YYLFF	STANDARD MATE
10121412-2YYLFF	ADVANCED MATE
10121412-3YYLFF	SHORT DETECT
10121412-4YYLFF	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)		
											

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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	2020/03/26		← →	ecn no	ELX-DG-35706-1		
ASME Y14.5M		chr					rel level	Released		
surface		linear	0.X	±.3			product family	ExaMAX		
		0.XX	±.10	Amphenol FCi	title	ExaMAX VERTICAL HEADER				
		0.XXX	±.050		part no	10121412				
	angular	0°	±2°		cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 10 of 11		

PDS: Rev :C

STATUS:Released

Printed: Apr 03, 2020

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:
-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, (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, 10121412-2XXXLF, 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, 10121412-3XXXLF, 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, 10121412-4XXXLF, 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 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 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	2020/03/26		← →	ecn no	ELX-DG-35706-1		
ASME Y14.5M		chr	-				rel level	Released		
surface	linear	appr	Heaven Cen	2020/04/03	product family	ExaMAX	cat. no.	10121412	rev	C
	angular	Amphenol FCI		title	ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA		cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11