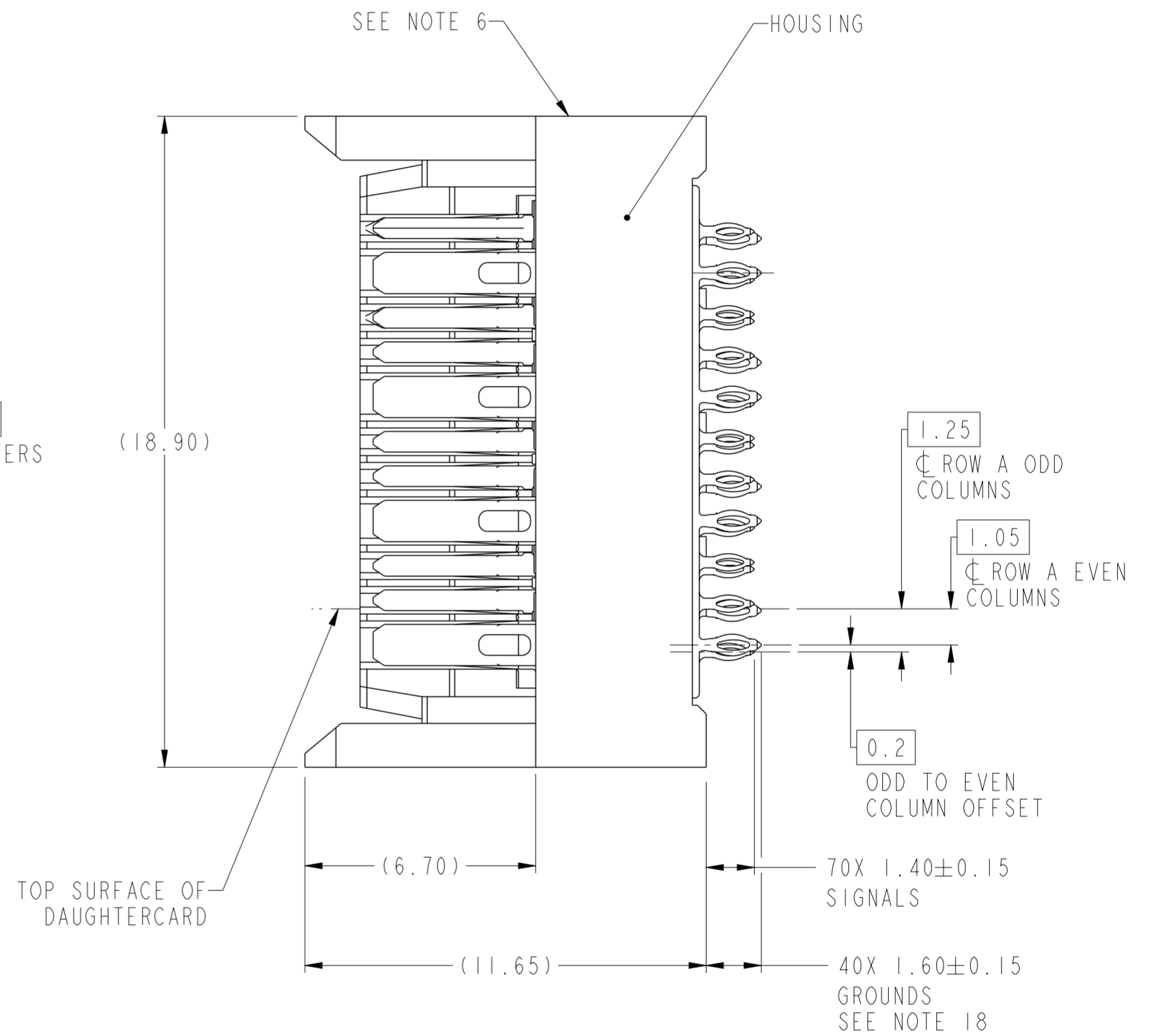
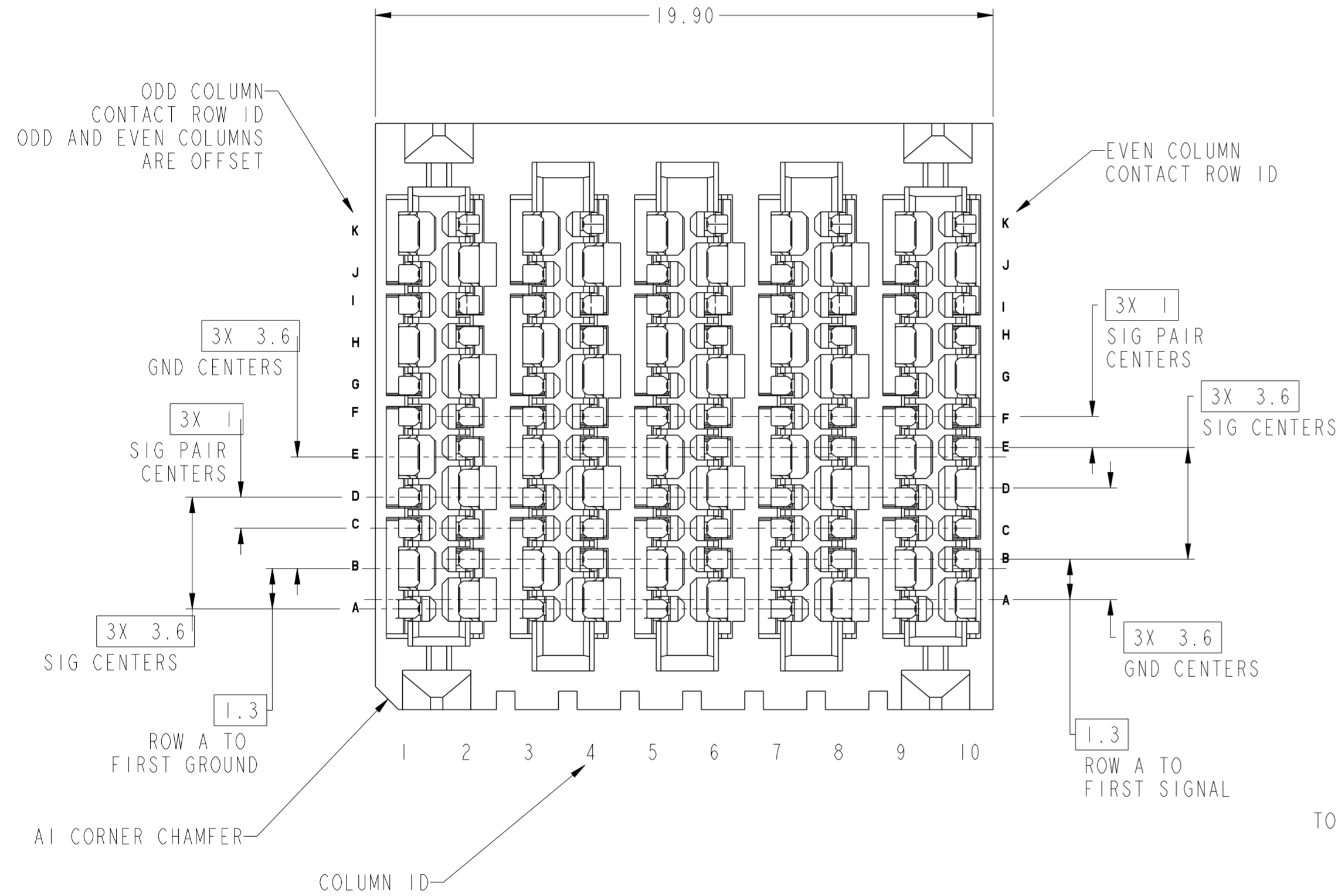


PRODUCT NUMBER
SEE TABLE



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	Terry Luo	2017/01/23			ecn no	-	rel level	Released											
ASME Y14.5M		chr	Heaven Cen	2017/01/22																	
		appr	Pai-Ming Zheng	2017/01/23																	
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 A														

PDS: Rev :A

STATUS:Released

Printed: Jan 23, 2017

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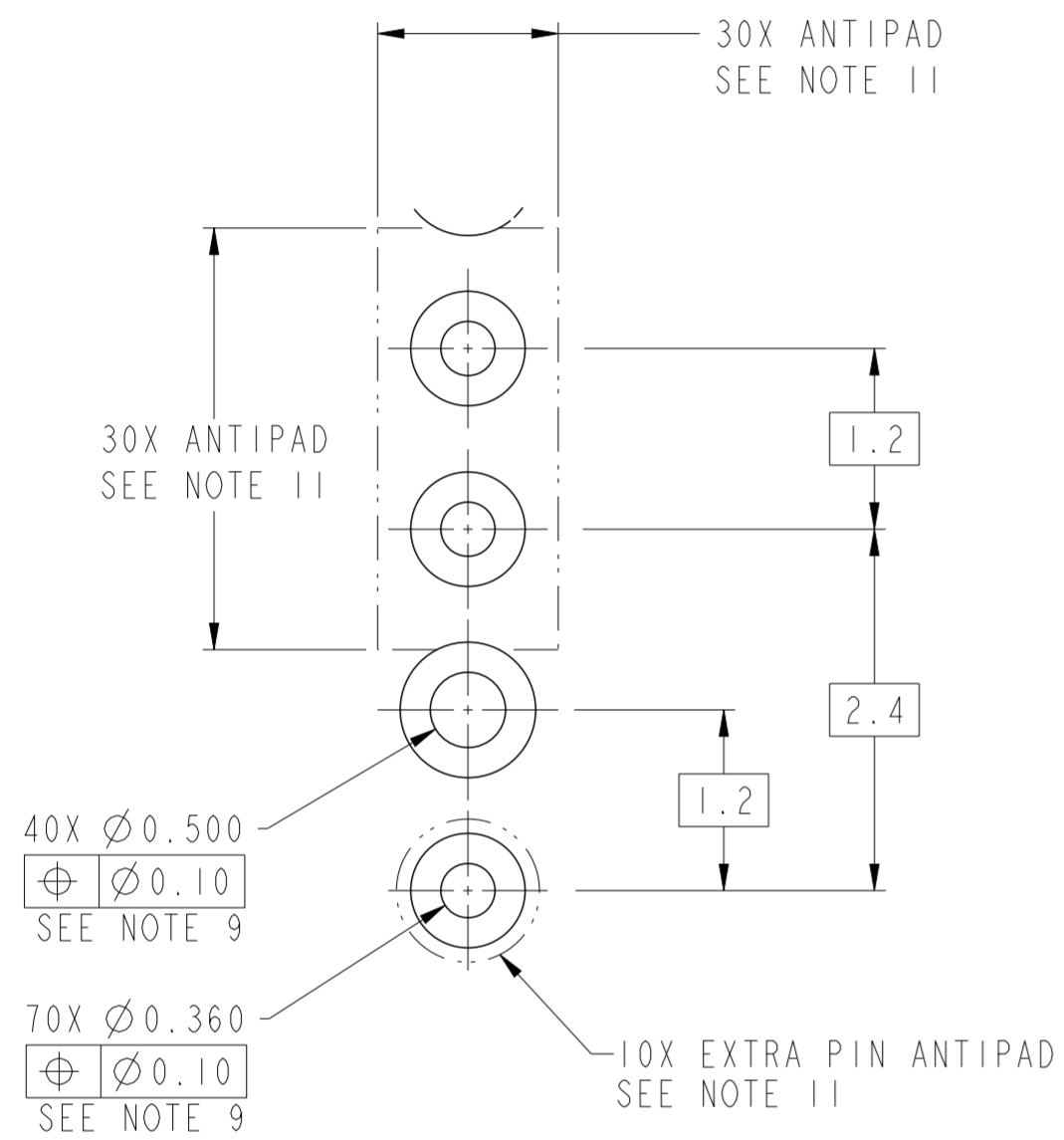
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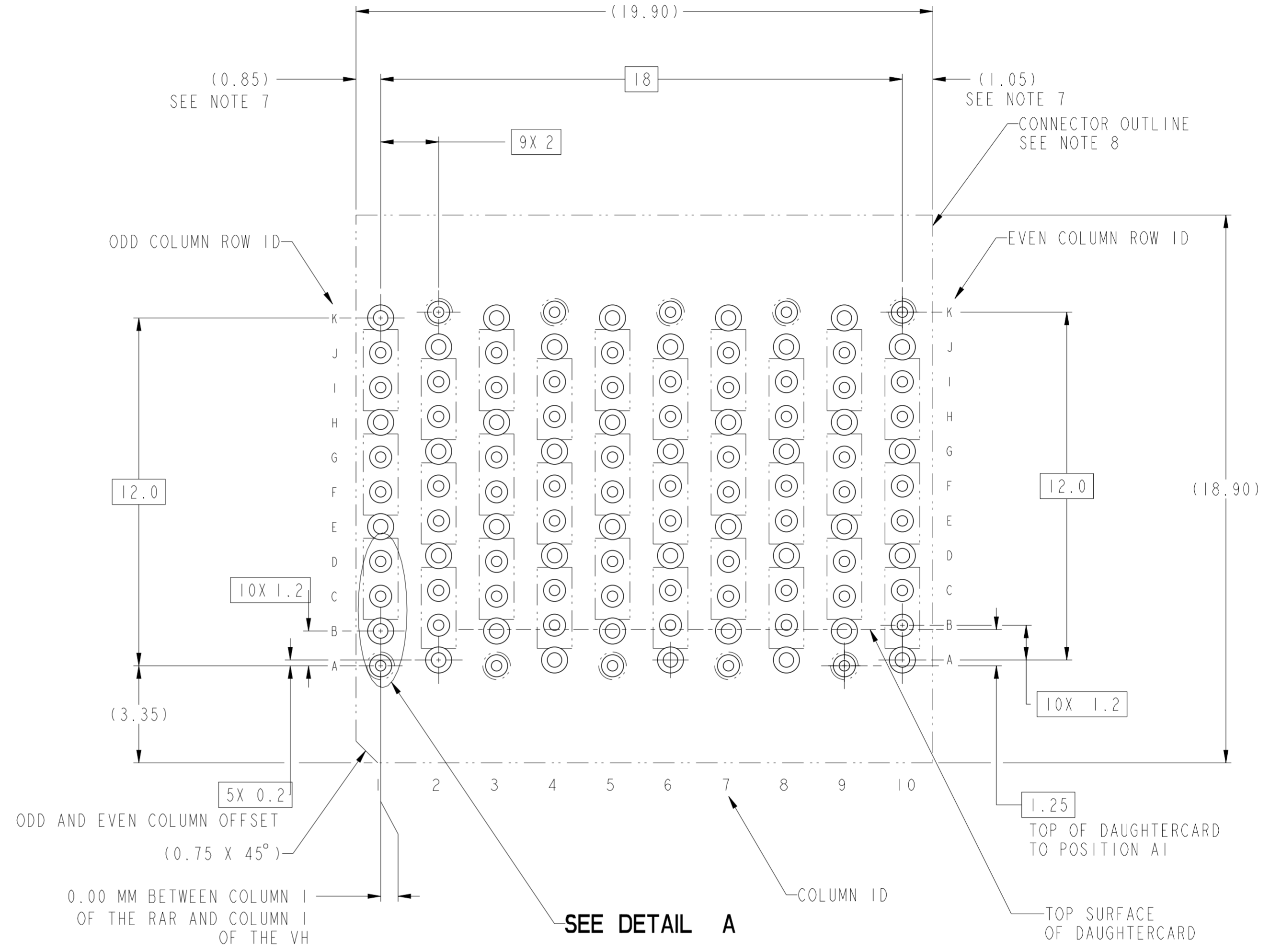
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DETAIL A
SCALE 20:1



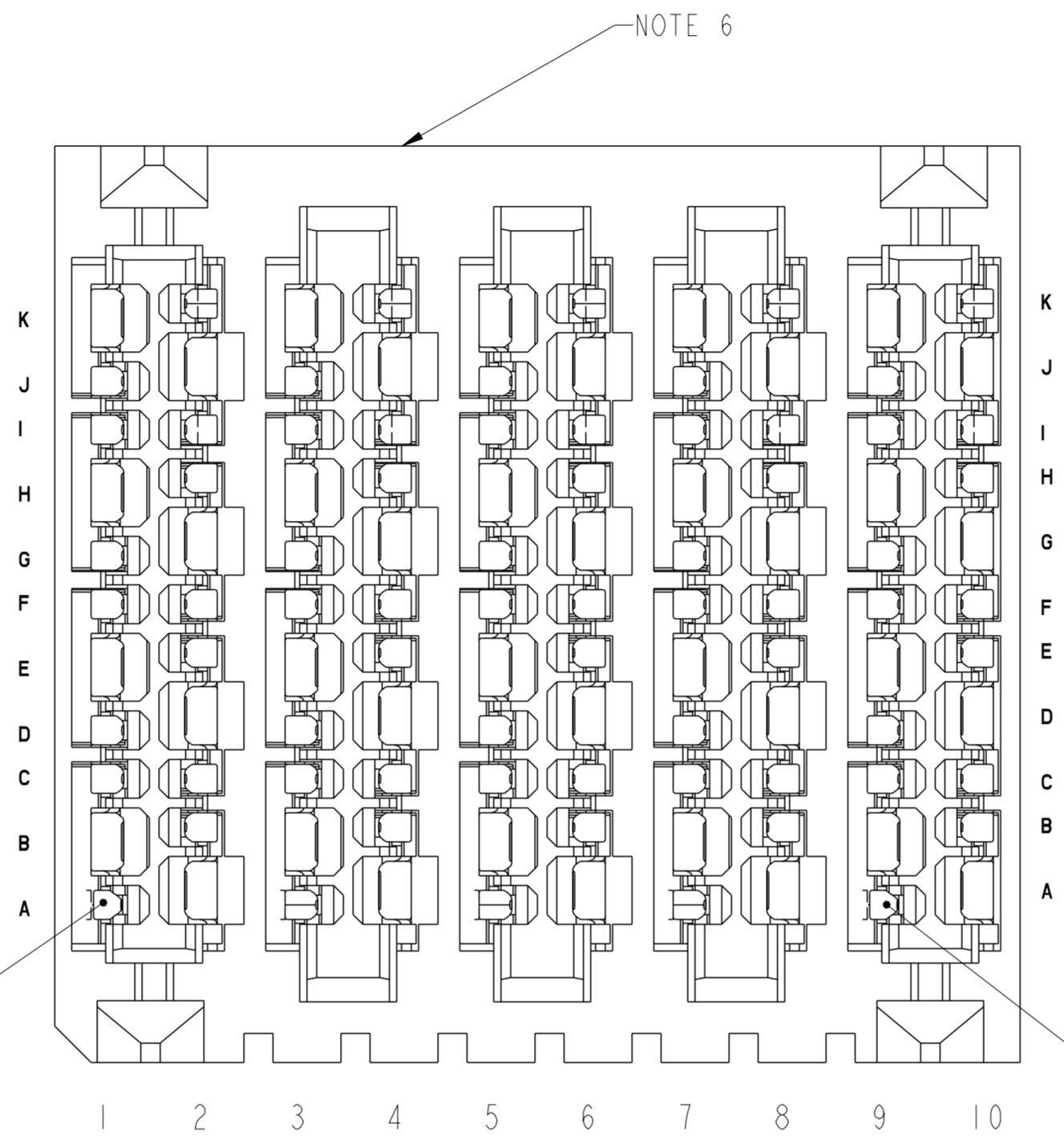
**RECOMMENDED PCB LAYOUT FOR
10121412-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9 & 11
SCALE 8:1**

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
surface	linear	0.X	±.3		product family	ExaMAX	rel level	Released	rev	A
		0.XX	±.10		title	ExaMAX VERTICAL HEADER		dwg no	10121412	
		0.XXX	±.050		cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 2 of 11		
	angular	0°	±2°							

PDS: Rev :A

STATUS:Released

Printed: Jan 23, 2017



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

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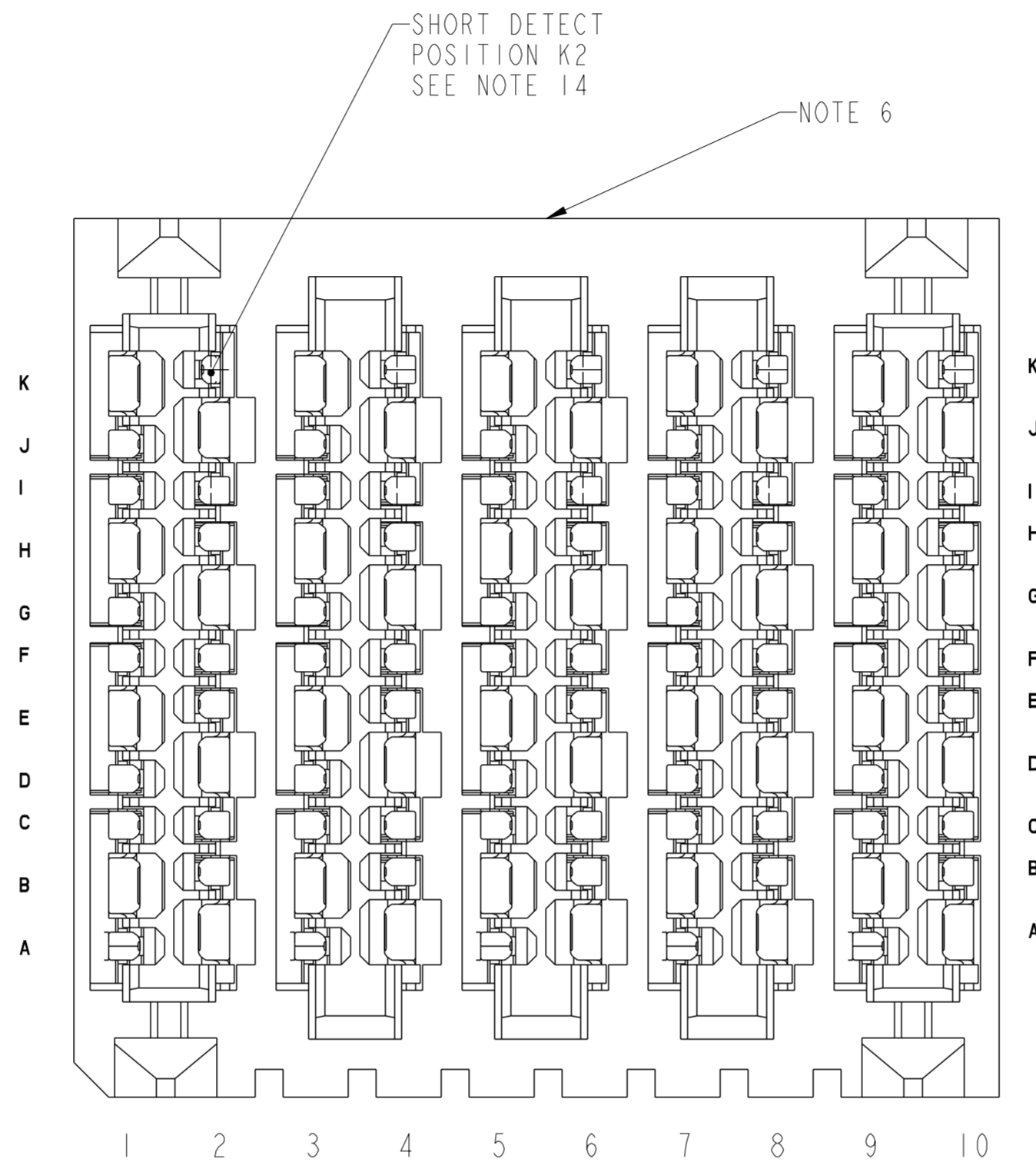
© 2016 AFci

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
		appr	Pai-Ming Zheng	2017/01/23						
surface	-		title ExaMAX VERTICAL HEADER ASS'Y, 3 PAIR, 110 POS, 10 IMLA			product family ExaMAX	cat. no. SEE P/N TABLE	Product - Customer Drw	sheet 3 of 11	rev A
linear ✓	0.X		±.3	dwg no 10121412						
	0.XX		±.10							
	0.XXX	±.050								
	angular	0°	±2°							

PDS: Rev :A

STATUS:Released

Printed: Jan 23, 2017

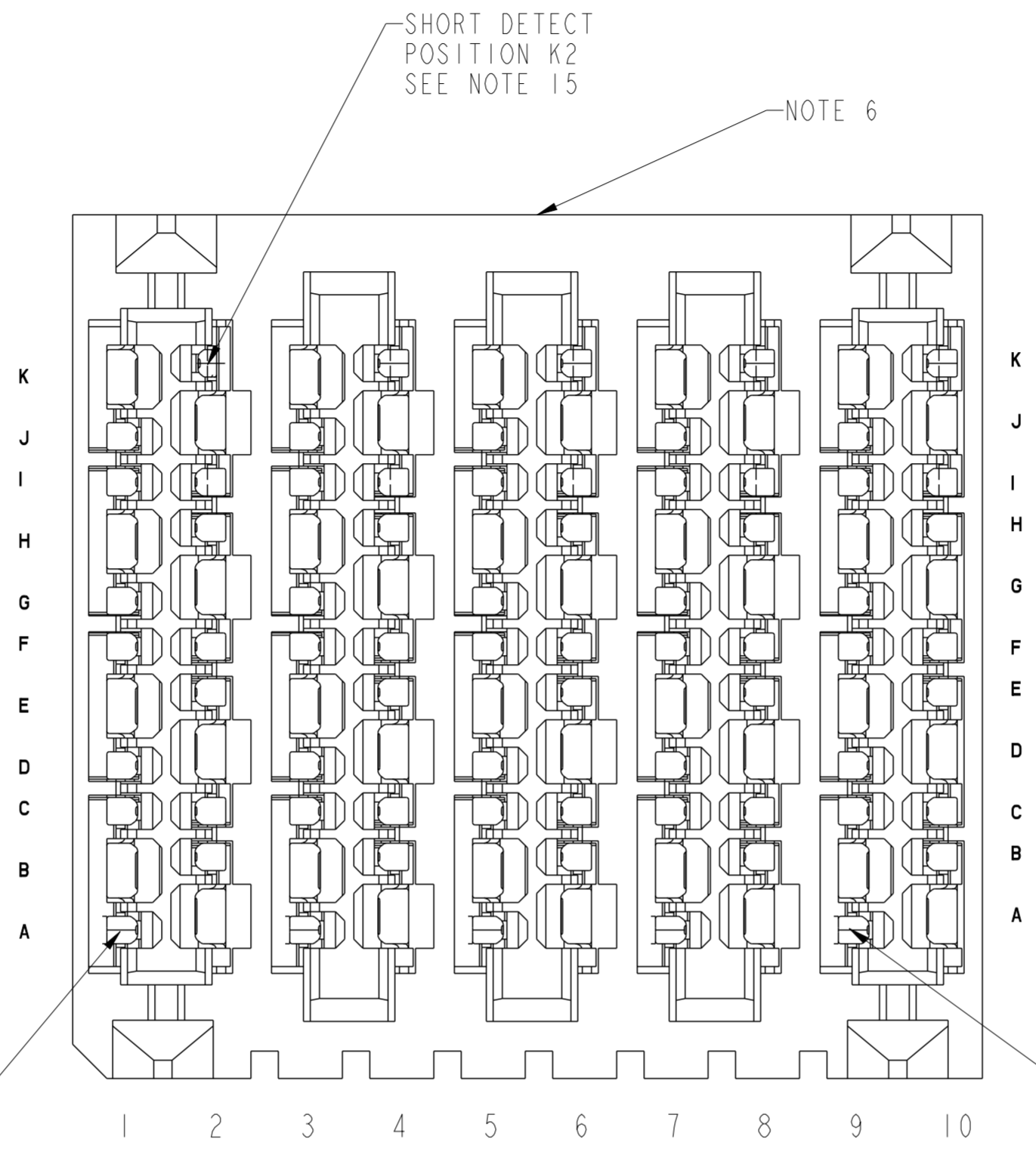


10121412-301LF
 SHORT DETECT CONNECTOR
 SHORT DETECT POSITION IS K2 ONLY
 FOR ALL DIMENSIONS SEE SHEET 1
 SCALE 8:1

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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	Terry Luo	2017/01/23		← →	ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
surface	linear	0.X	±.3	Amphenol FCi	title	ExaMAX VERTICAL HEADER	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 4 of 11
✓		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±2°							
		appr	Pei-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released	rev	A
				title		10121412				



ADVANCED MATE
POSITION A1
SEE NOTE 15

SHORT DETECT
POSITION K2
SEE NOTE 15

NOTE 6

ADVANCED MATE
POSITION A9
SEE NOTE 15

10121412-401LF
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
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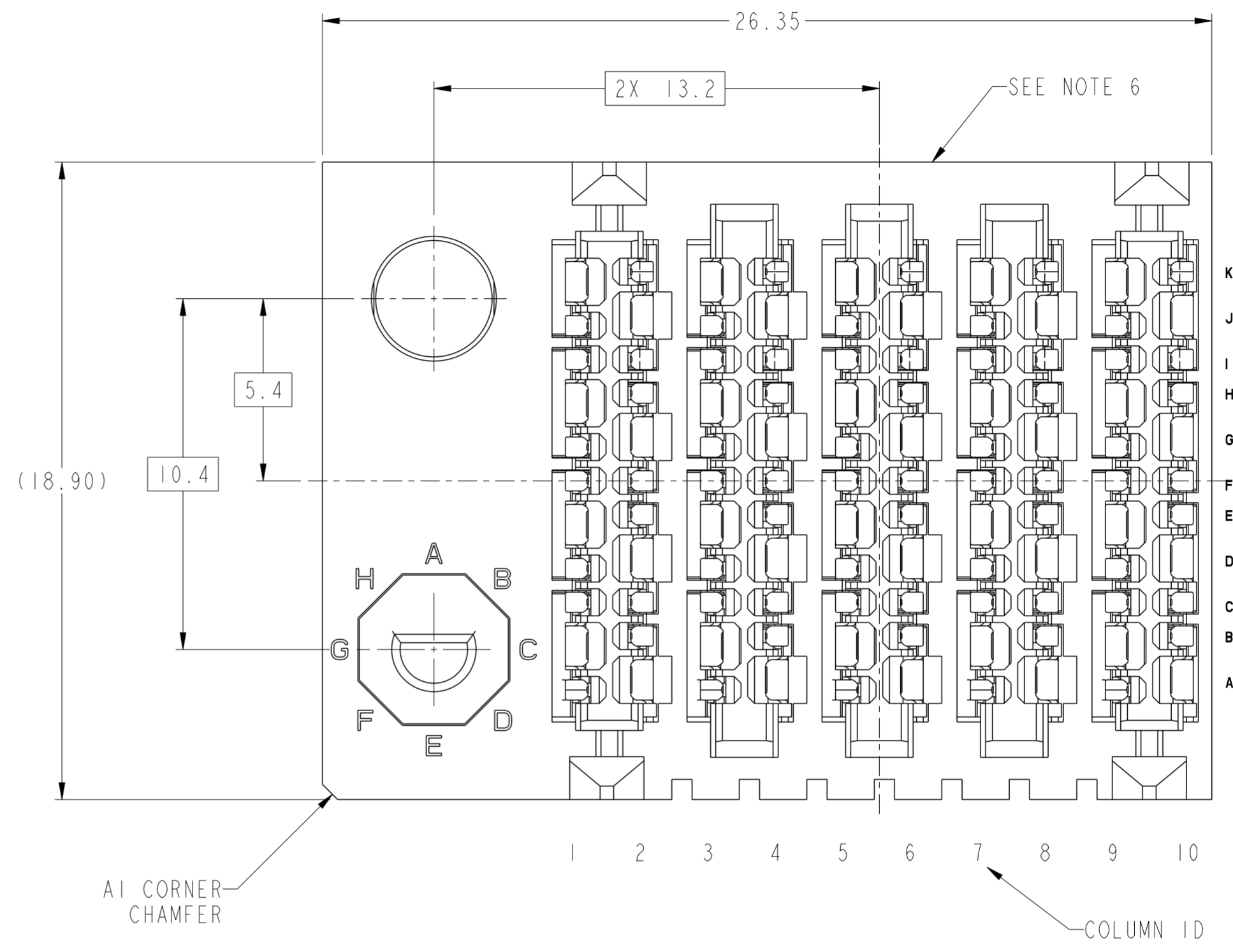
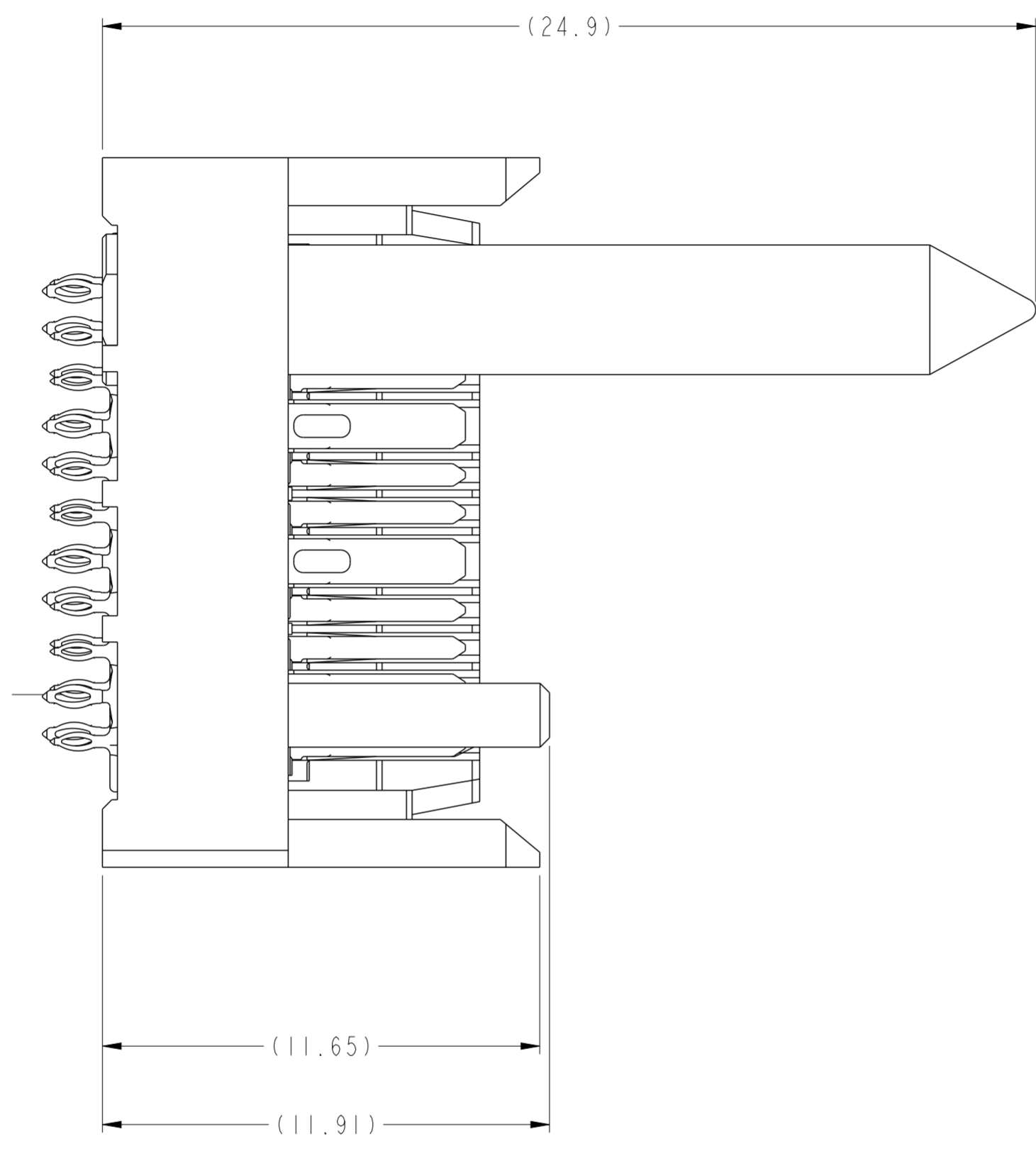
© 2016 AFci

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	3:1						
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level Released	rev A						
ASME Y14.5M		chr	Heaven Cen	2017/01/22			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°
-	linear			0.X	±.3											
				0.XX	±.10											
		0.XXX	±.050													
	angular	0°	±2°													
appr	Pei-Ming Zheng	2017/01/23	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 5 of 11										

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

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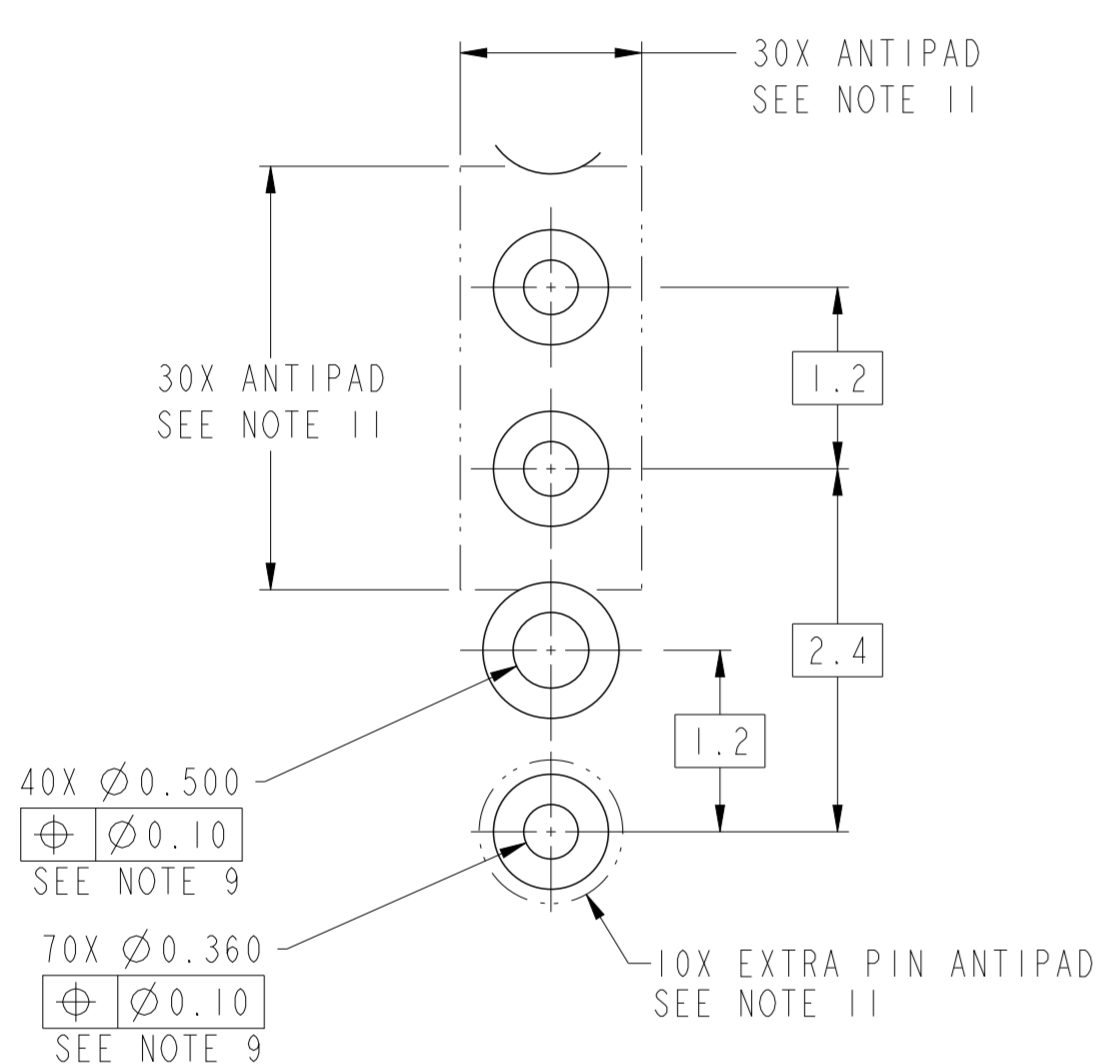
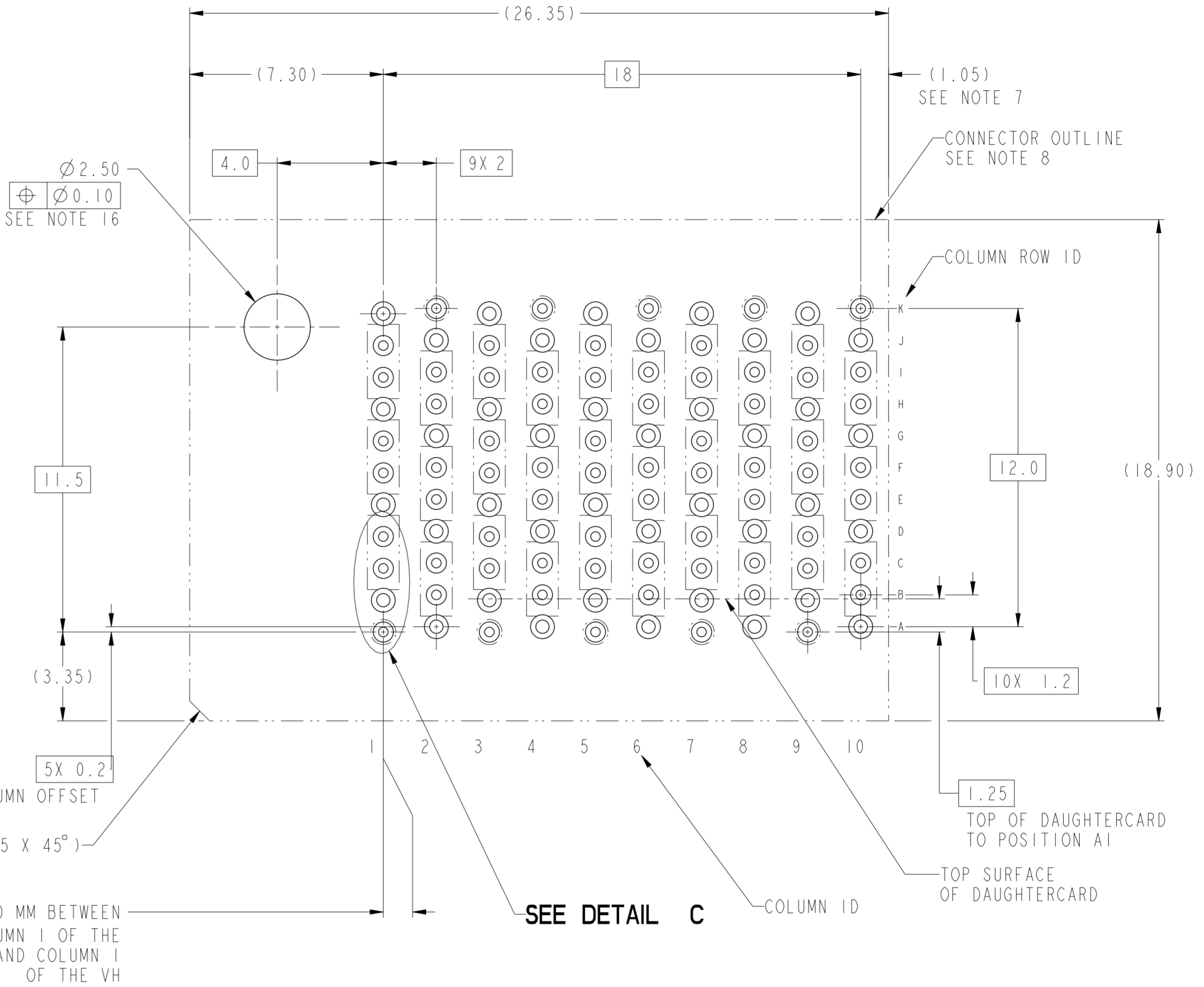
© 2016 APCI

spec ref	SEE NOTES	dr	Stu Stoner	2012/06/05	projection	MM	size	A2	scale	5:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
surface	linear	0.X	±.3		title		10121412	rev A		
		0.XX	±.10		ExaMAX VERTICAL HEADER					
		0.XXX	±.050		ASS'Y, 3 PAIR, 110 POS, 10 IMLA					
	angular	0°	±2°	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 6 of 11			

PDS: Rev :A

STATUS:Released

Printed: Jan 23, 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	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
surface	linear	appr	Pai-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released	cat. no.	SEE TABLE
	angular				title	ExaMAX VERTICAL HEADER	dwg no	10121412	rev	A
					ASS'Y, 3 PAIR, 110 POS, 10 IMLA				Product - Customer Drw	sheet 7 of 11

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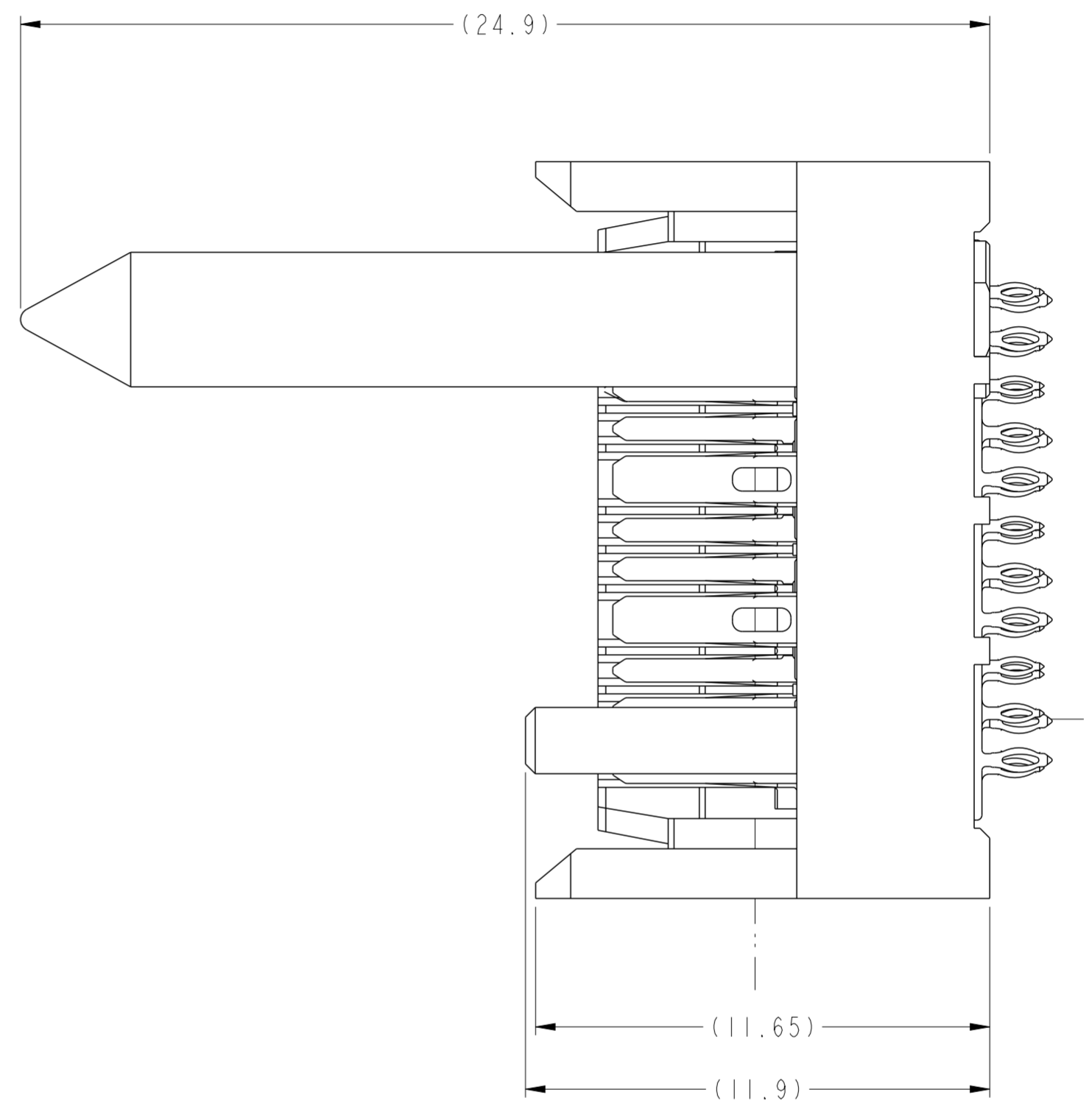
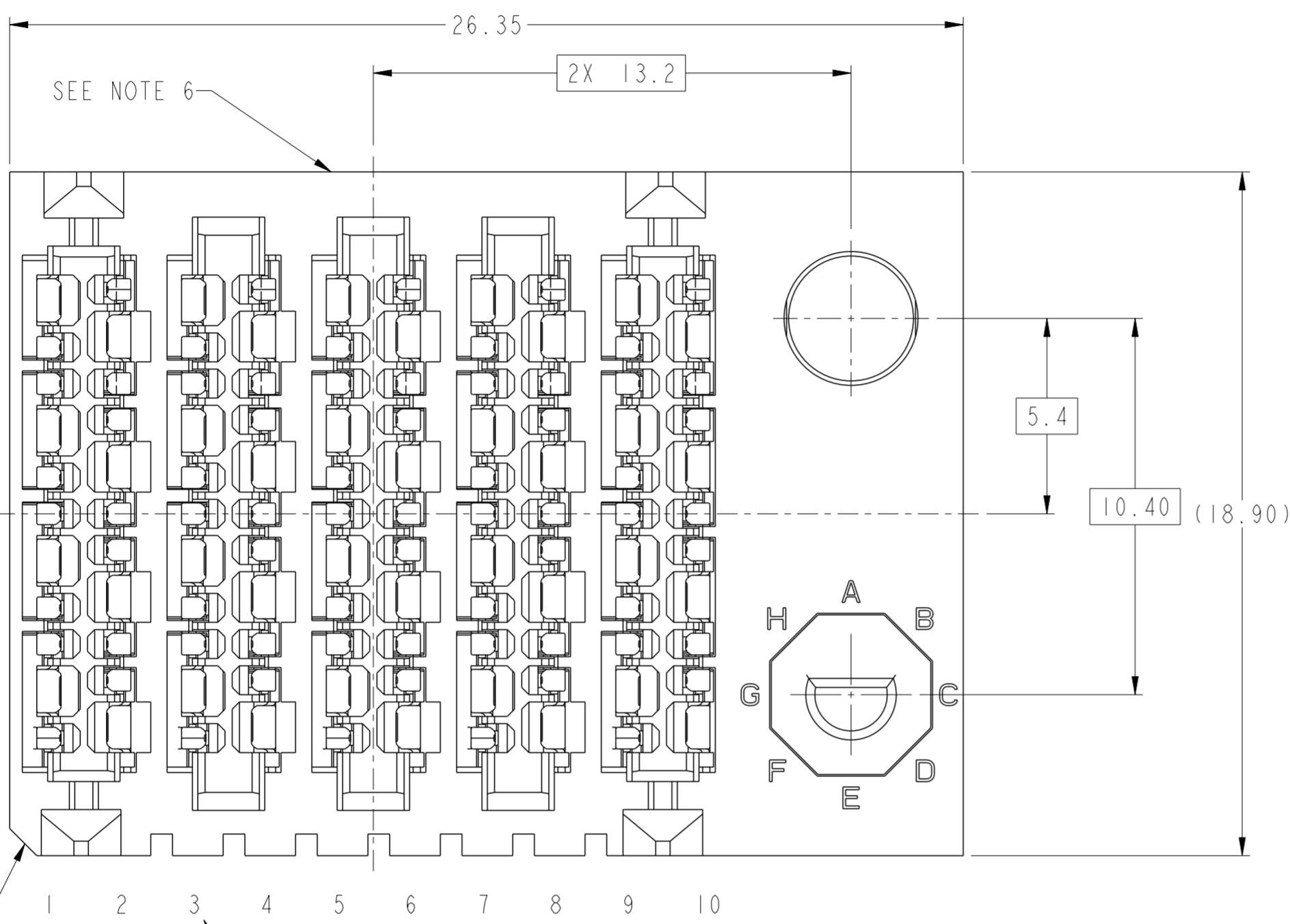
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COLUMN ID

10121412-Y2ALF THRU -Y2JLF
 LEFT 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	3:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-	rel level	Released											
ASME Y14.5M		chr	Heaven Cen	2017/01/22																	
		appr	Pai-Ming Zheng	2017/01/23																	
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		product family ExaMAX	rel level Released	dng no 10121412	rev A
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 :A

STATUS:Released

Printed: Jan 23, 2017

1 2 3 4 5 6 7 8

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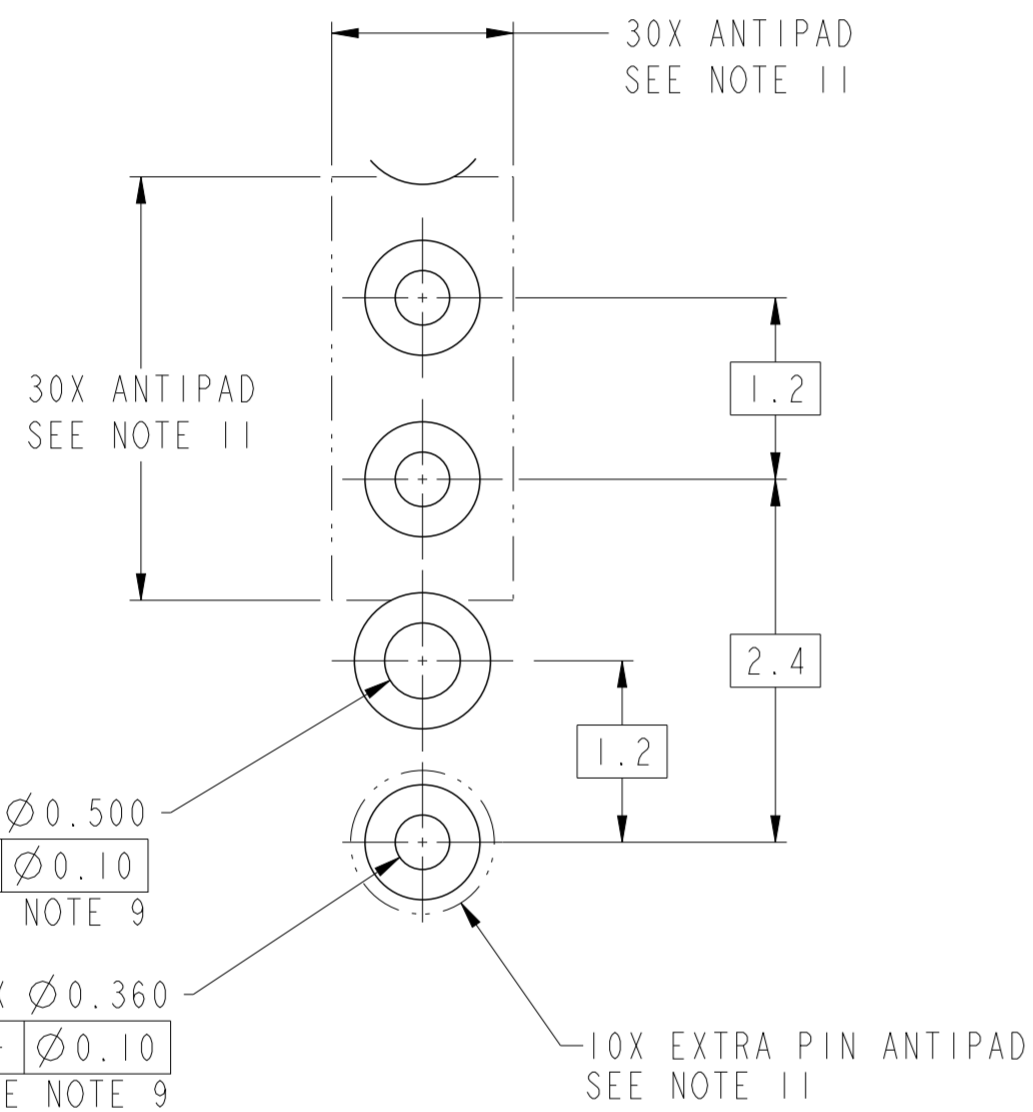
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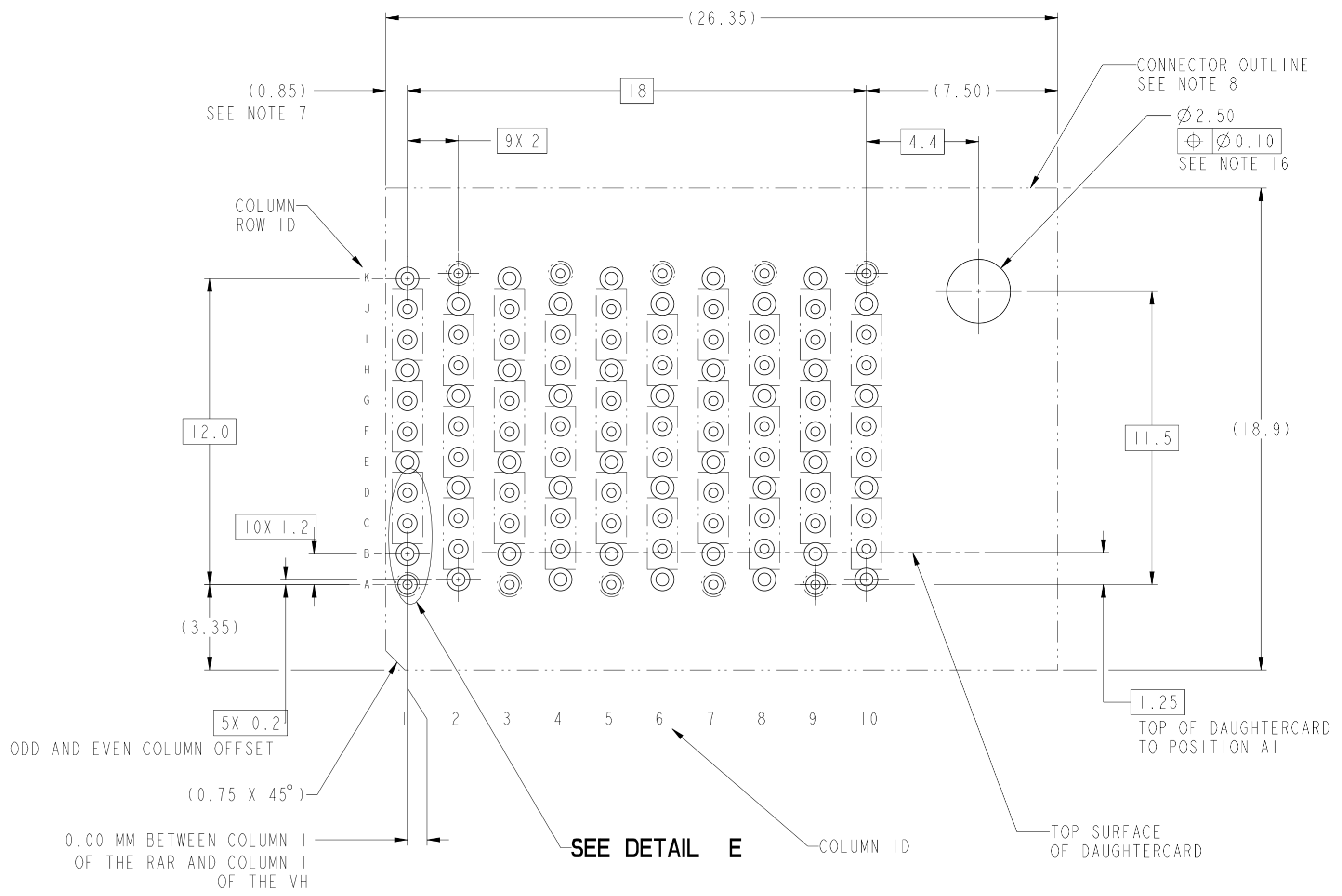
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DETAIL E
SCALE 20:1



**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	Terry Luo	2017/01/23			ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
surface	linear	appr	Pei-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released	rev	A
	angular				cat. no.	SEE TABLE	Product - Customer Drw	sheet 9 of 11		
	0.X	±.3								
	0.XX	±.10								
	0.XXX	±.050								
	0°	±2°								

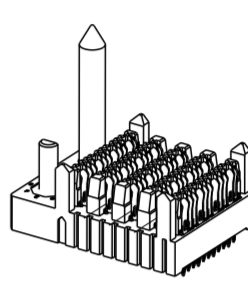
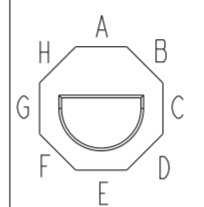
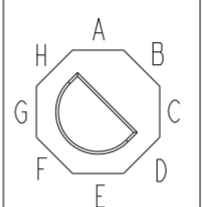
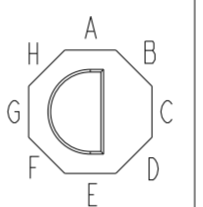
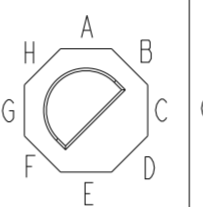
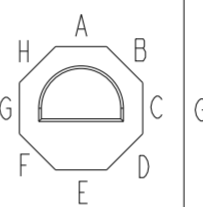
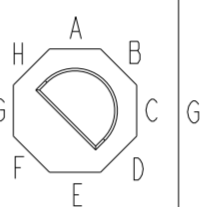
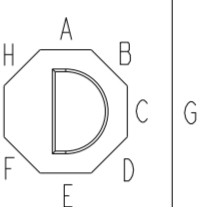
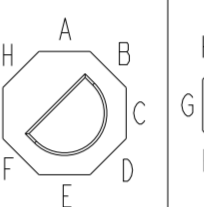
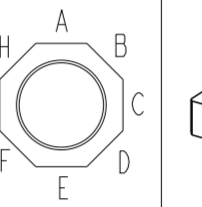
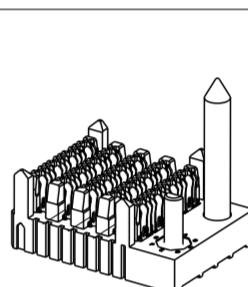
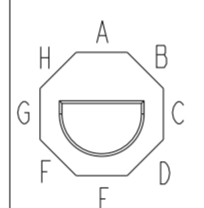
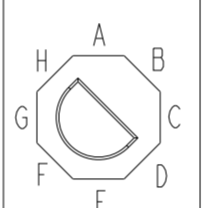
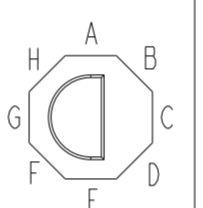
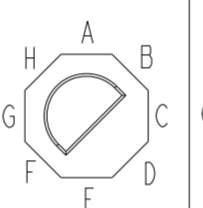
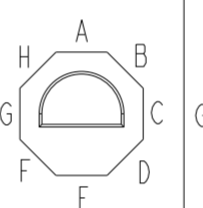
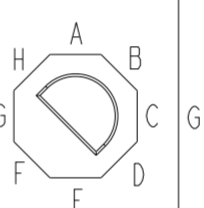
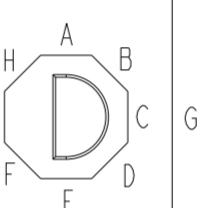
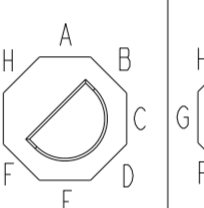
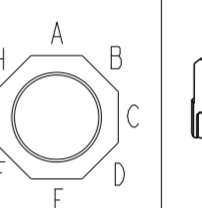
PDS: Rev :A

STATUS:Released

Printed: Jan 23, 2017

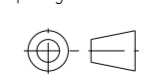
10121412 - Y Y Y L F

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)		
											

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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	Terry Luo	2017/01/23		← →	ecn no	-	rel level	Released
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
		appr	Pai-Ming Zheng	2017/01/23						
surface	linear	0.X	±.3	Amphenol FCI	title	ExaMAX VERTICAL HEADER	dwg no	10121412	rev	A
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±2°	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet	10 of 11		

PDS: Rev :A

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Printed: Jan 23, 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 APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTH, TRACE SPACING, ETC.
- 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	Terry Luo	2017/01/23		← →	ecn no	-	rel level	Released	
ASME Y14.5M		chr	Heaven Cen	2017/01/22							
surface	- ✓	linear	0.X	±.3	Amphenol FCi	title	ExaMAX VERTICAL HEADER	cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±2°							
		appr	Pei-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released			
		dwg no	10121412		rev	A					