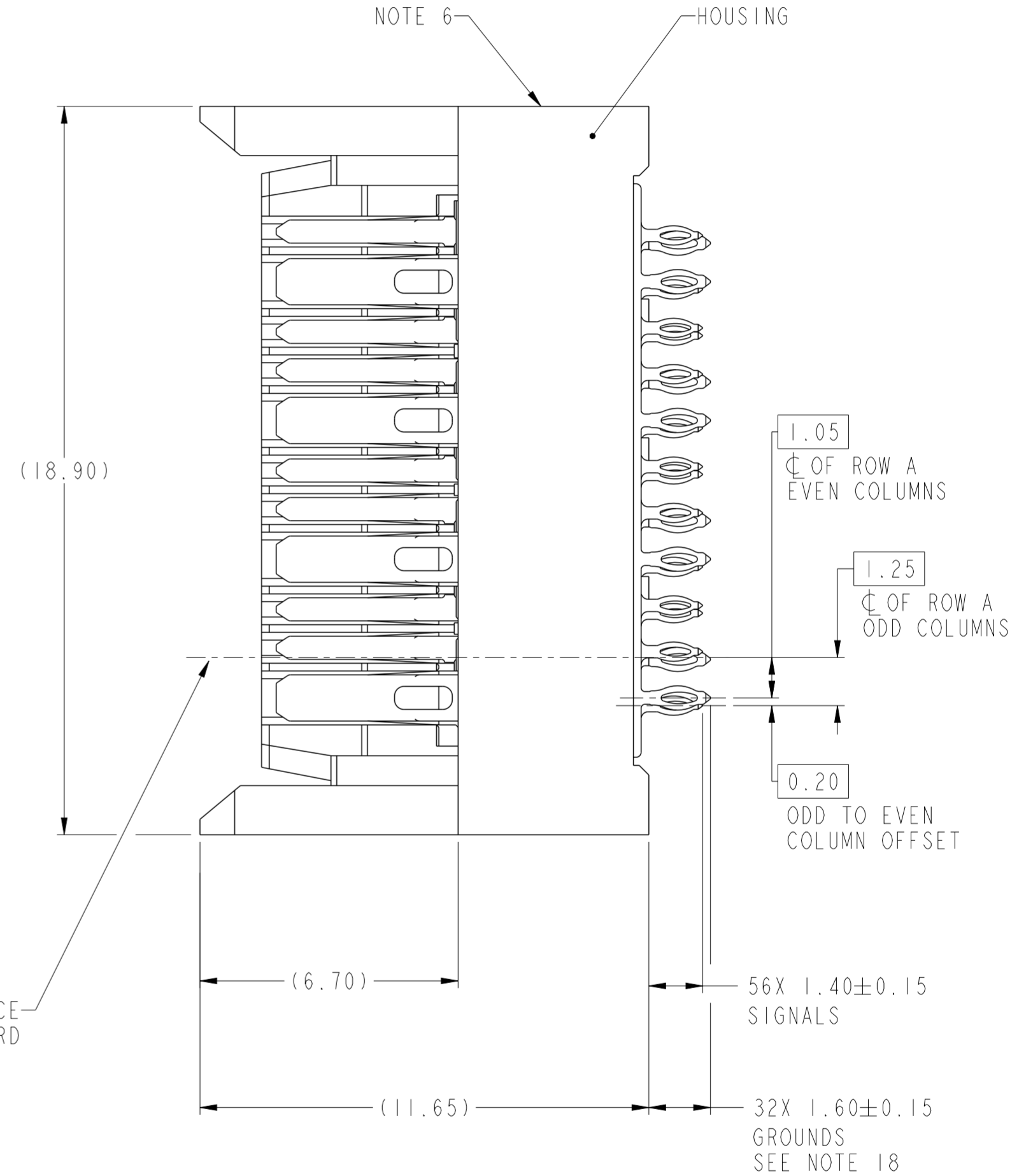
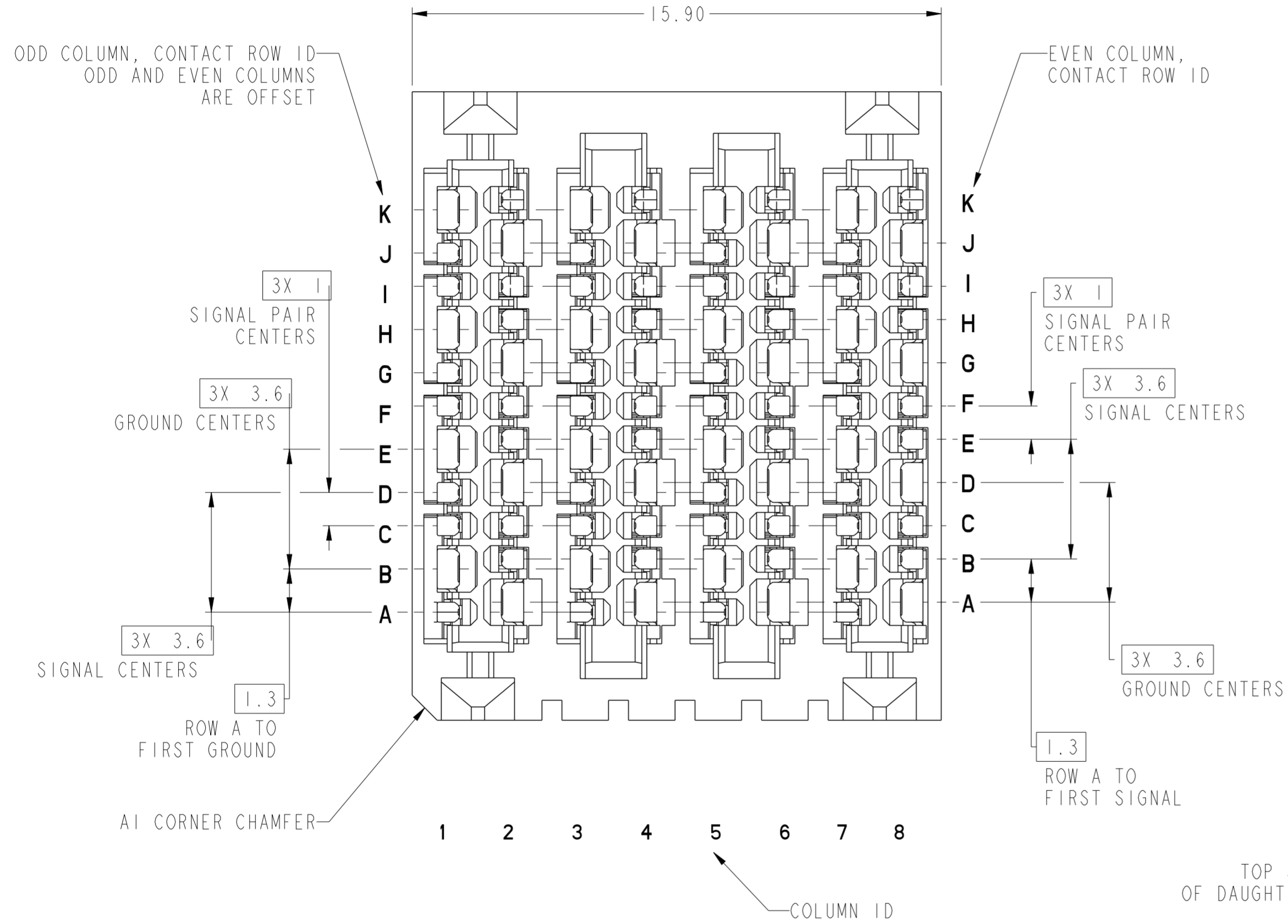


PRODUCT NUMBER
SEE SHEET 10



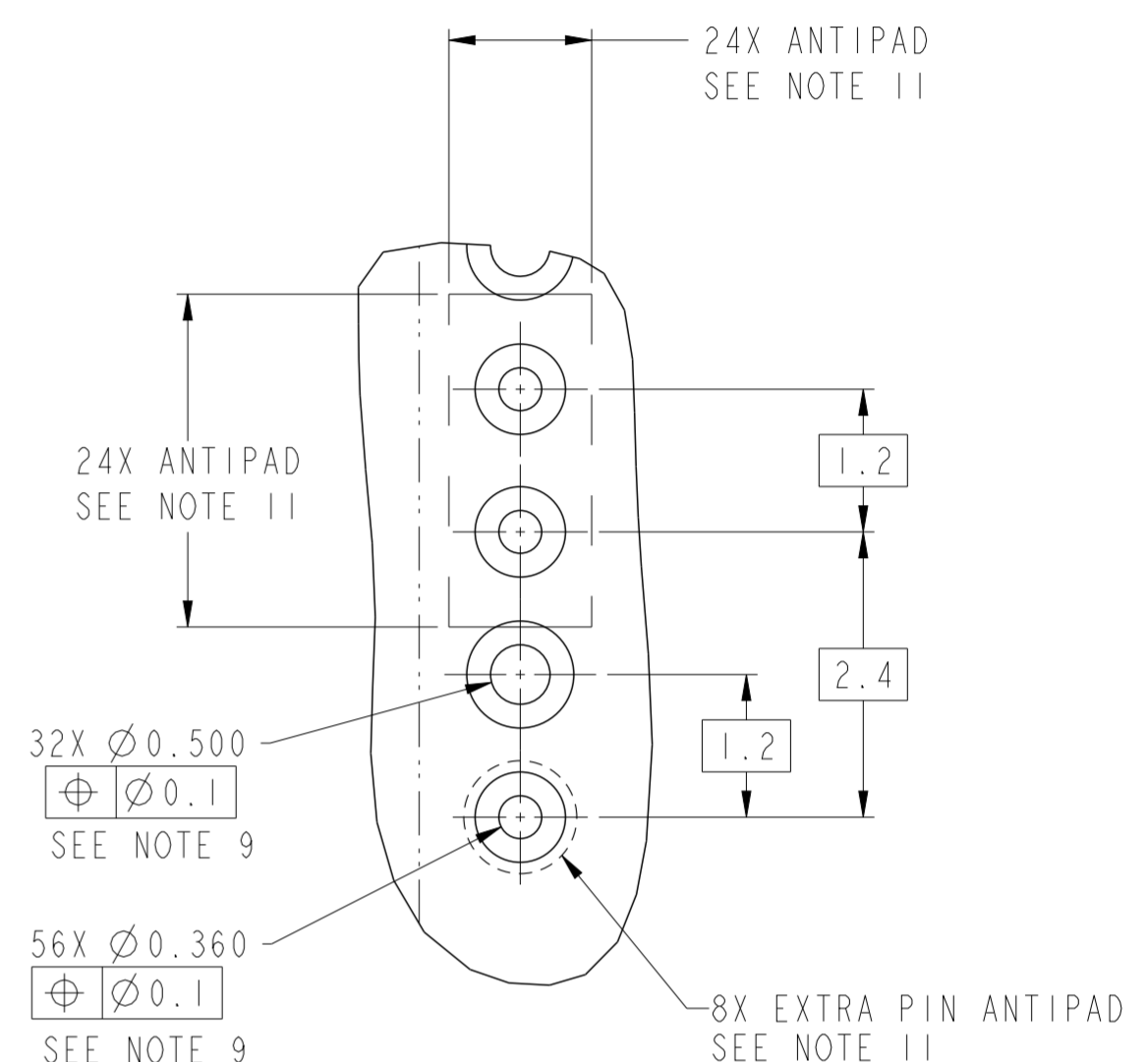
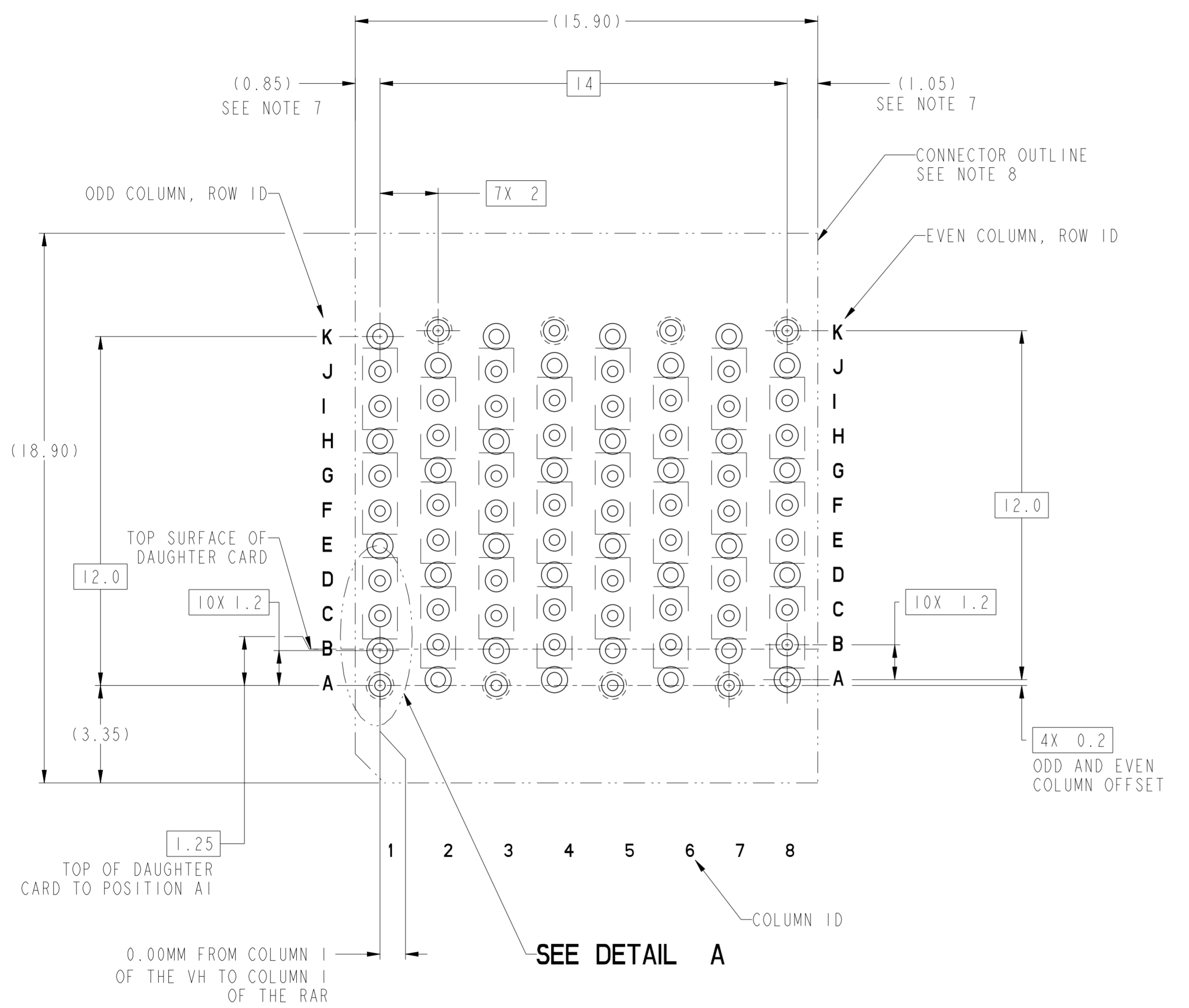
10124311-Y01LF
(10124311-101LF STANDARD MATE CONNECTOR SHOWN)

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	8:1
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	rev	A
	angular				title	ExaMAX VERTICAL HEADER ASSY	cat. no.	SEE TABLE	Product - Customer Drw	sheet 1 of 11

PDS: Rev :A

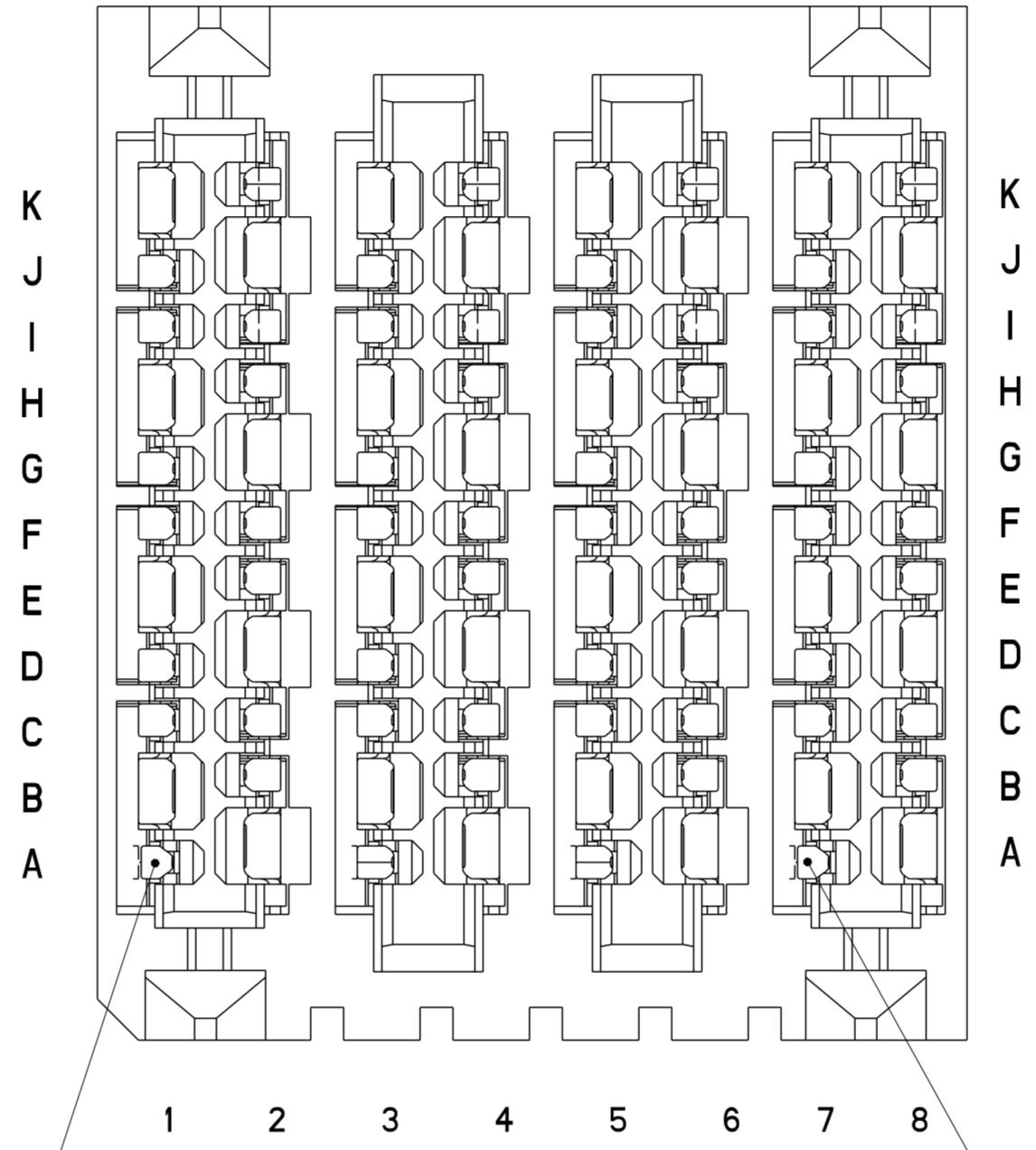
STATUS:Released

Printed: Jan 23, 2017



**RECOMMENDED PCB LAYOUT FOR
10124311-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	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	linear	0.X	±.3		product family	ExaMAX	div no	10124311	rev	A
		0.XX	±.10		3 PR, 88 POS, 8 IMLA	cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11	
	angular	0°	±°							



ADVANCED MATE POSITION A1
SEE NOTE 13

ADVANCED MATE POSITION A7
SEE NOTE 13

10124311-201LF
ADVANCED MATE CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1	
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 ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	dwg no 10124311	rev A	cat. no. SEE TABLE	Product - Customer Drw	sheet 3 of 11
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±°							

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

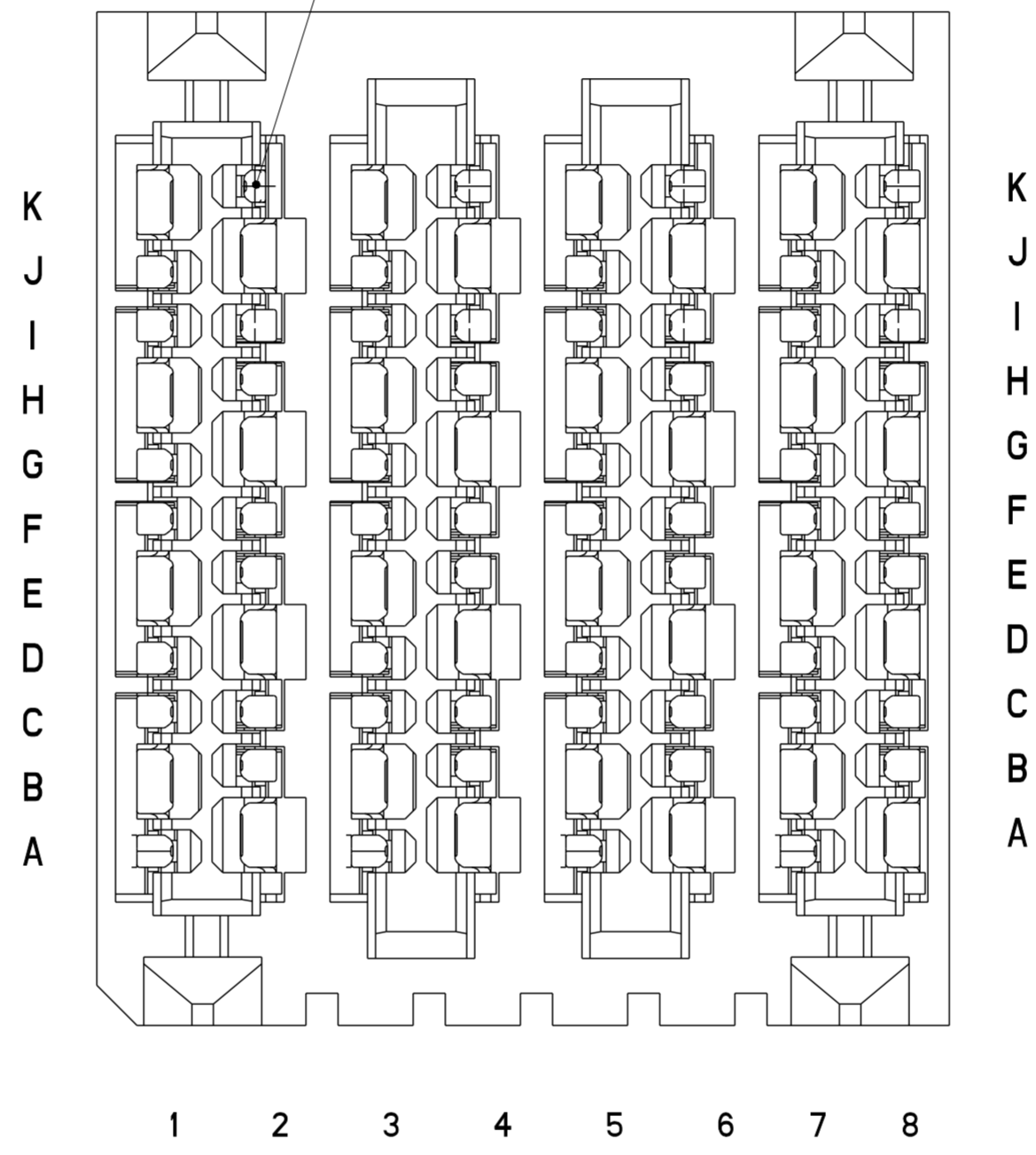
C

D

E

F

SHORT DETECT
POSITION K2
SEE NOTE 14



10124311-301LF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS K2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol
FCi

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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1												
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	<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	Pei-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		Amphenol FCi	title			ExaMAX VERTICAL HEADER ASSY	dwg no	10124311	rev	A												
			cat. no.	SEE TABLE	Product - Customer Drw	sheet 4 of 11																

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

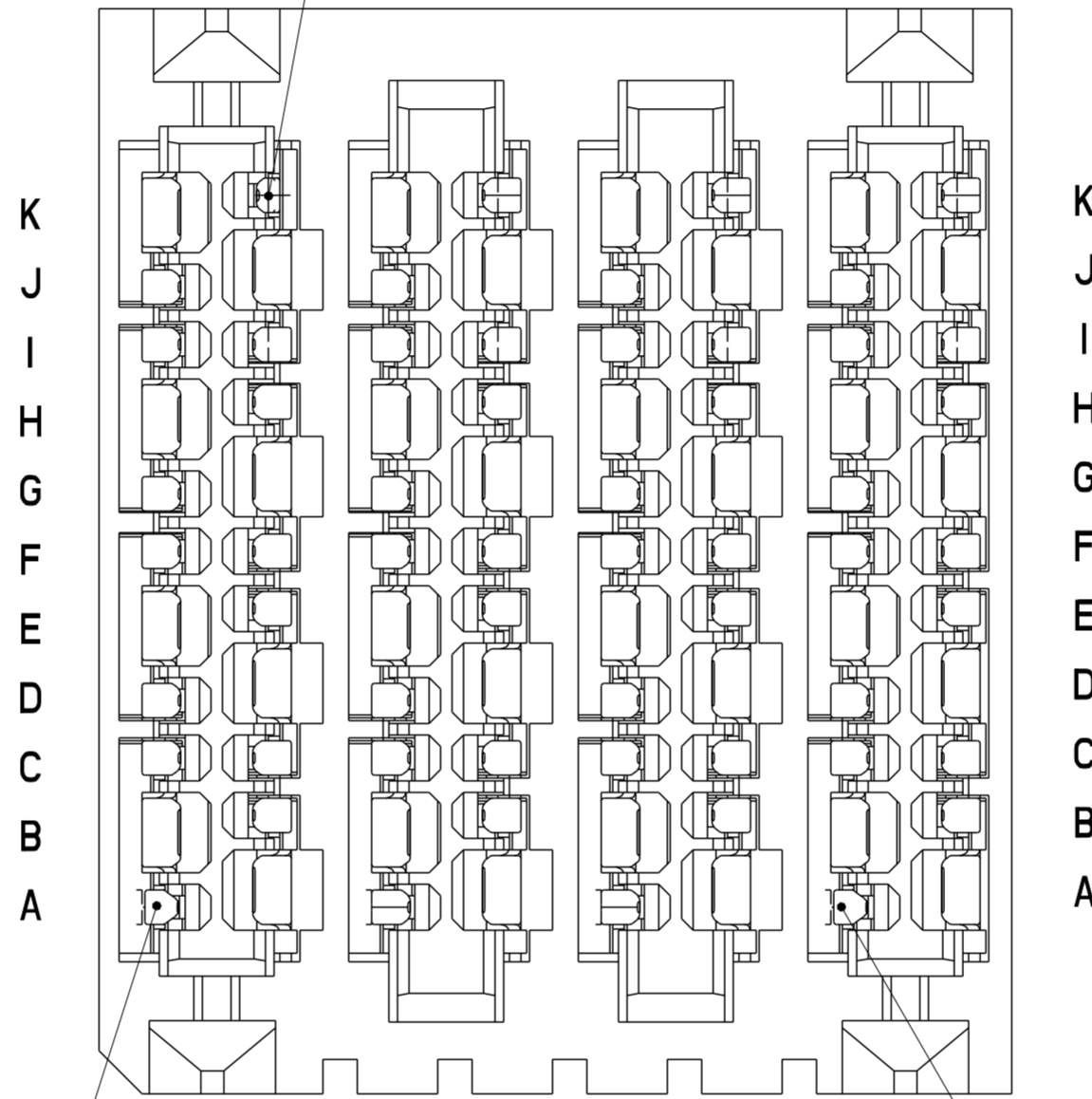
C

D

E

F

SHORT DETECT
POSITION K2
SEE NOTE 15



ADVANCED MATE
POSITION A1
SEE NOTE 15

ADVANCED MATE
POSITION A7
SEE NOTE 15

10124311-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
SHORT DETECT POSITION IS K2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEET 1

Amphenol
FCi

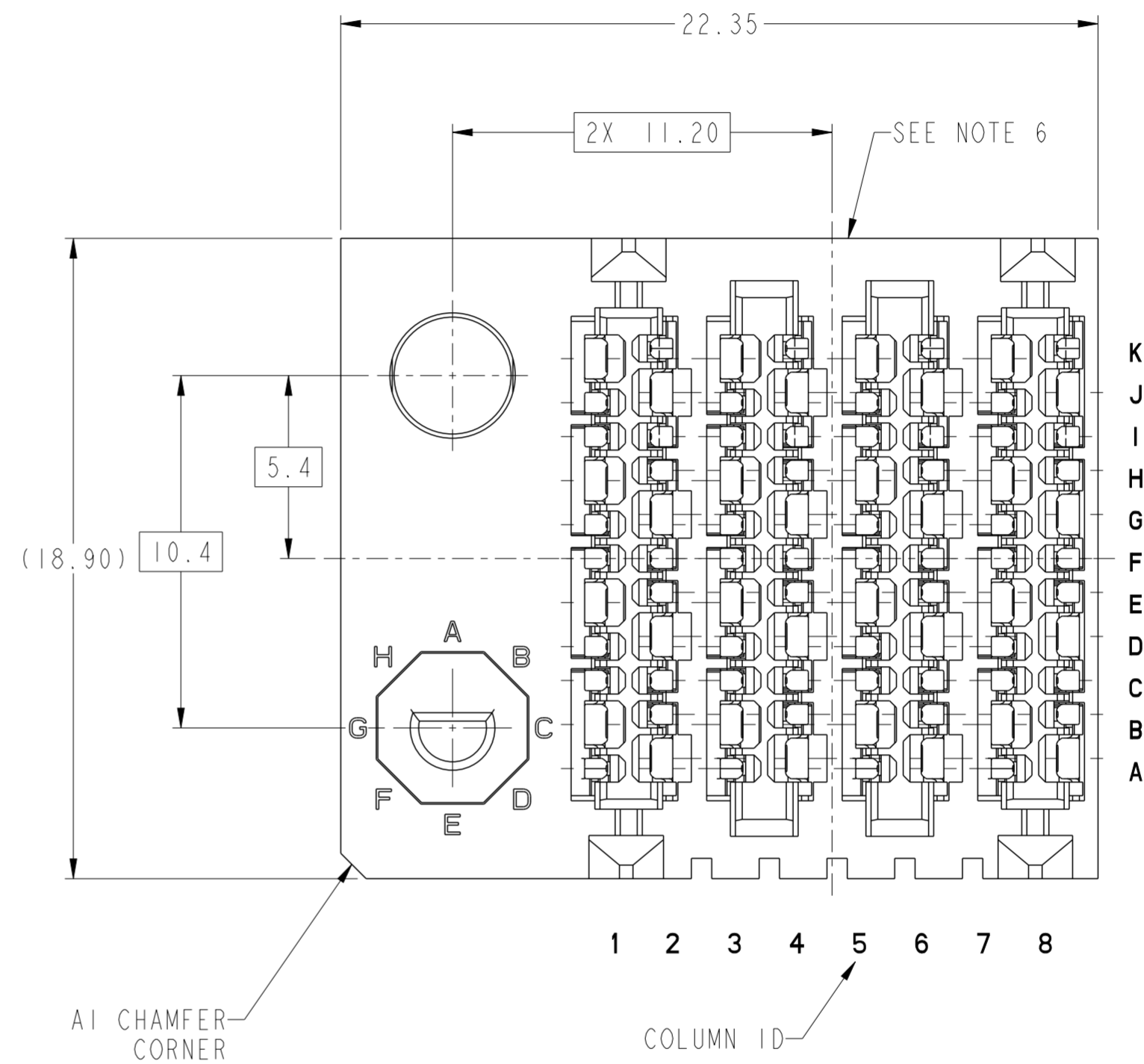
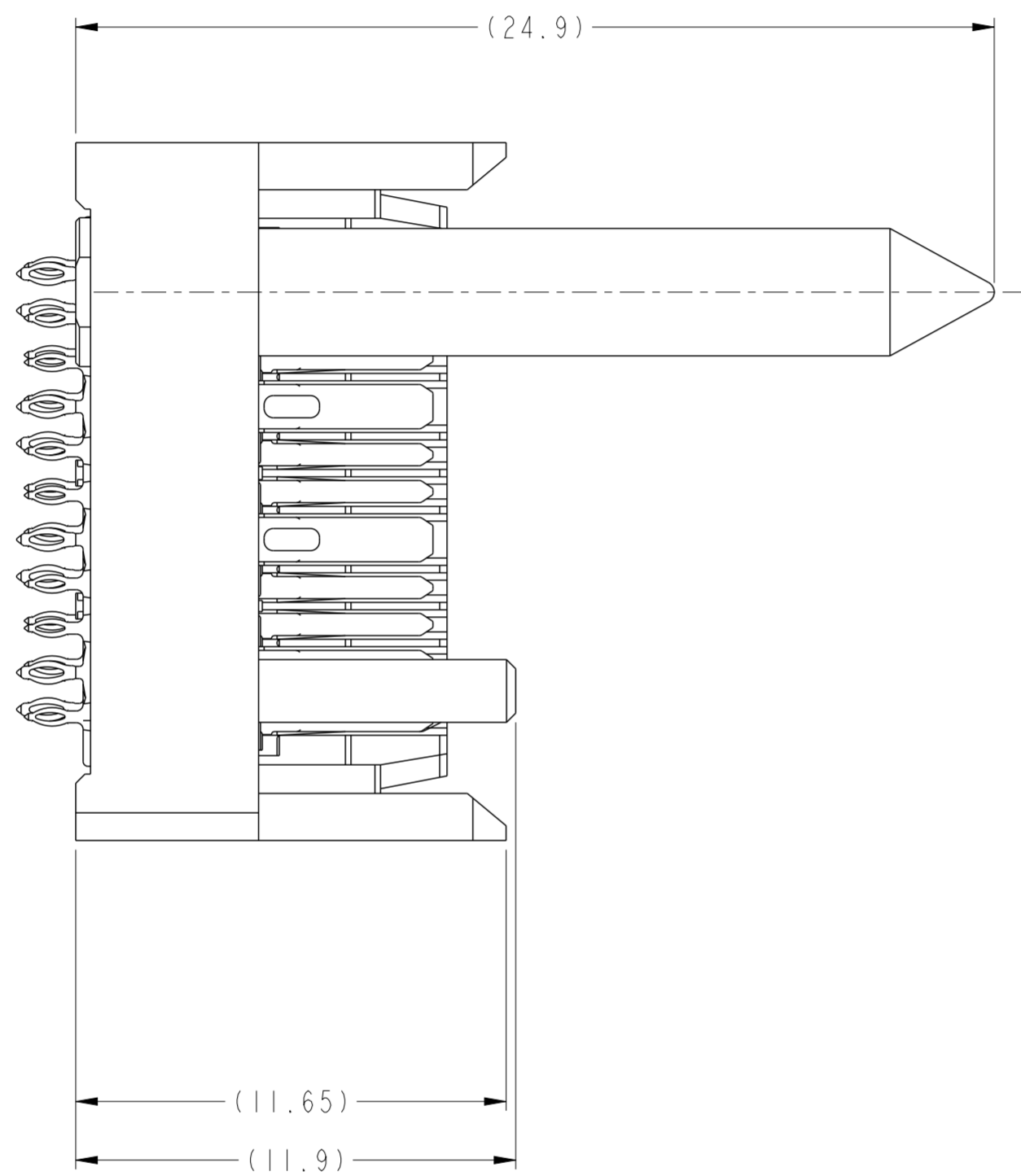
© 2016 AFci

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	1:1														
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																
	<table border="1"> <tr> <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>angular</td> <td>0° ±°</td> </tr> </table>	0.X	±.3	0.XX	±.10	0.XXX	±.050	angular	0° ±°		<table border="1"> <tr> <td>title</td> <td>ExaMAX VERTICAL HEADER ASSY</td> </tr> <tr> <td>3 PR, 88 POS, 8 IMLA</td> <td></td> </tr> </table>	title	ExaMAX VERTICAL HEADER ASSY	3 PR, 88 POS, 8 IMLA		<table border="1"> <tr> <td>cat. no.</td> <td>SEE TABLE</td> </tr> </table>	cat. no.	SEE TABLE	<table border="1"> <tr> <td>Product - Customer Drw</td> <td></td> </tr> </table>	Product - Customer Drw		<table border="1"> <tr> <td>sheet 5 of 11</td> <td></td> </tr> </table>	sheet 5 of 11	
0.X	±.3																							
0.XX	±.10																							
0.XXX	±.050																							
angular	0° ±°																							
title	ExaMAX VERTICAL HEADER ASSY																							
3 PR, 88 POS, 8 IMLA																								
cat. no.	SEE TABLE																							
Product - Customer Drw																								
sheet 5 of 11																								

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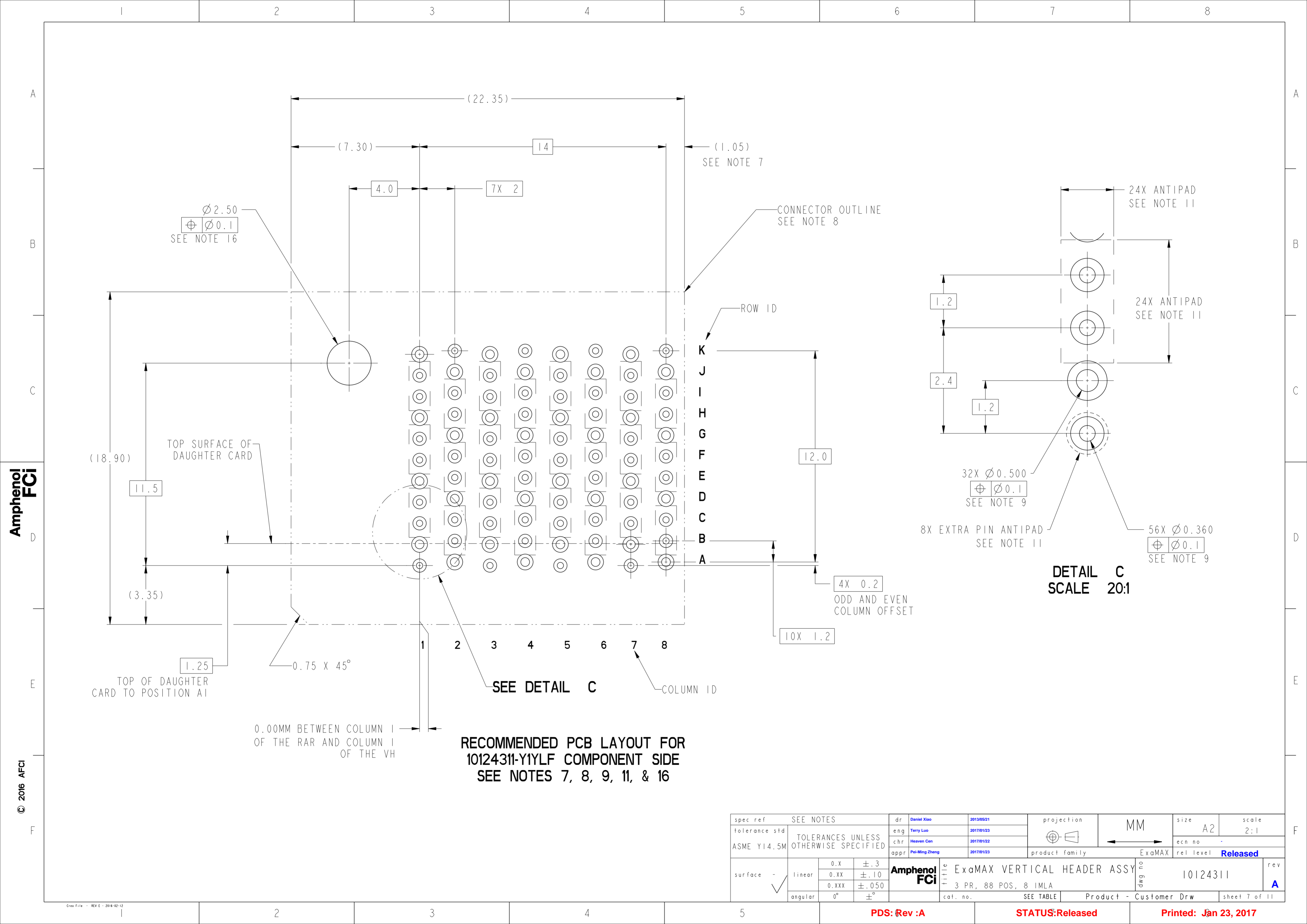
10124311-Y1ALF THRU -Y1JLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-														
ASME Y14.5M		chr	Heaven Cen	2017/01/22			rel level	Released														
		appr	Pai-Ming Zheng	2017/01/23			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°	±°	Amphenol FCI	title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA		dwg no	10124311	rev	A		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		cat. no.	SEE TABLE	Product - Customer Drw	sheet 6 of 11																	

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Ø 2.50
 ⊕ Ø 0.1
 SEE NOTE 16

(1.05)
 SEE NOTE 7

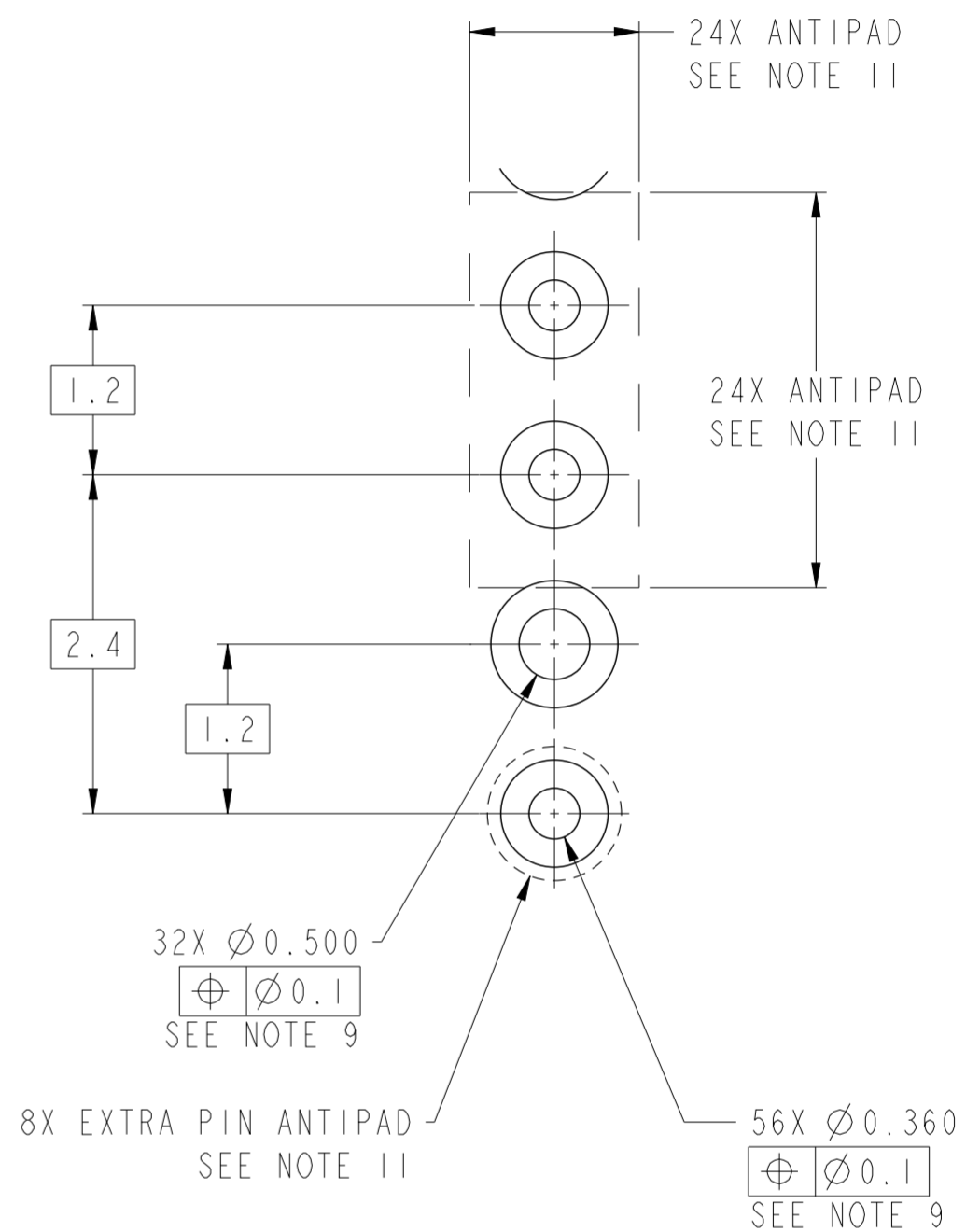
CONNECTOR OUTLINE
 SEE NOTE 8

ROW ID

K
 J
 I
 H
 G
 F
 E
 D
 C
 B
 A

1
 2
 3
 4
 5
 6
 7
 8

COLUMN ID



DETAIL C
 SCALE 20:1

4X 0.2
 ODD AND EVEN
 COLUMN OFFSET

10X 1.2

(18.90)

11.5

(3.35)

TOP SURFACE OF
 DAUGHTER CARD

1.25
 TOP OF DAUGHTER
 CARD TO POSITION A1

0.75 X 45°

0.00MM BETWEEN COLUMN 1
 OF THE RAR AND COLUMN 1
 OF THE VH

SEE DETAIL C

RECOMMENDED PCB LAYOUT FOR
 10124311-Y1YLF COMPONENT SIDE
 SEE NOTES 7, 8, 9, 11, & 16

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	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	rev	A
	0.X ±.3	Amphenol FCI		title		ExaMAX VERTICAL HEADER ASSY		dwg no	10124311	
	0.XX ±.10			3 PR, 88 POS, 8 IMLA				Product - Customer Drw		sheet 7 of 11
	0.XXX ±.050			cat. no.		SEE TABLE				
	angular			0° ±°						

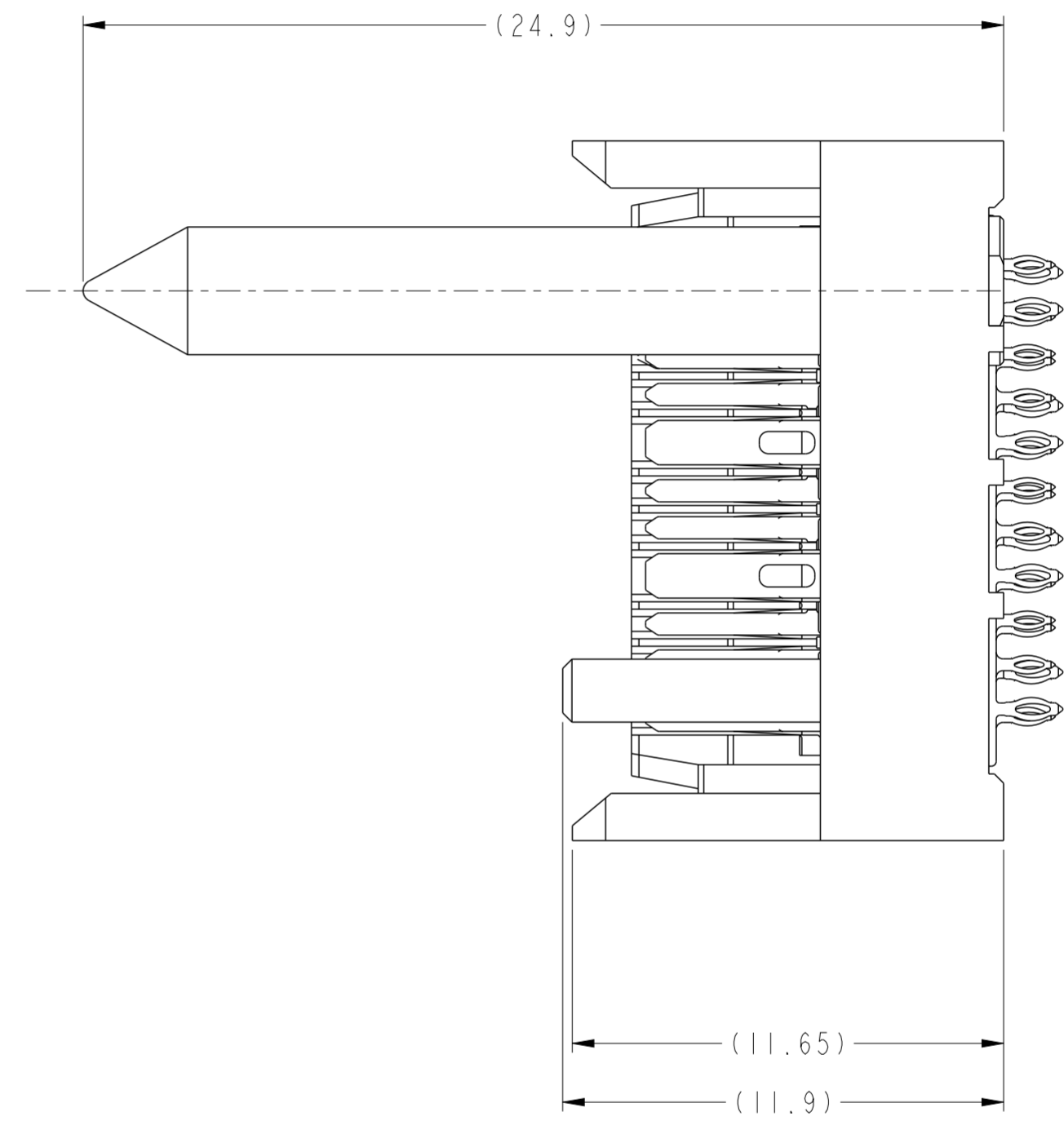
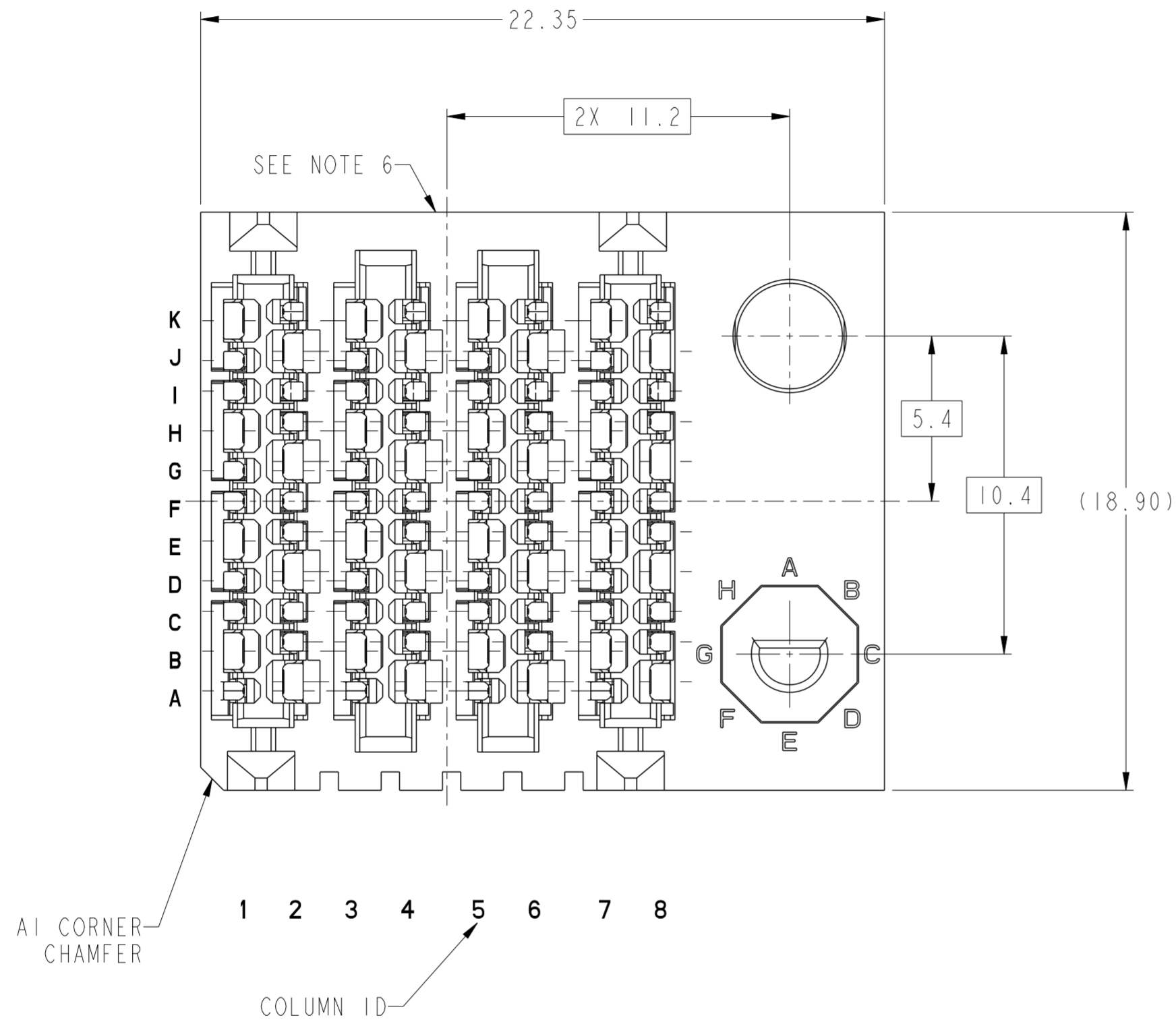
PDS: Rev :A

STATUS:Released

Printed: Jan 23, 2017

Amphenol FCI

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10124311-Y2ALF THRU -Y2JLF
 LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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FCi

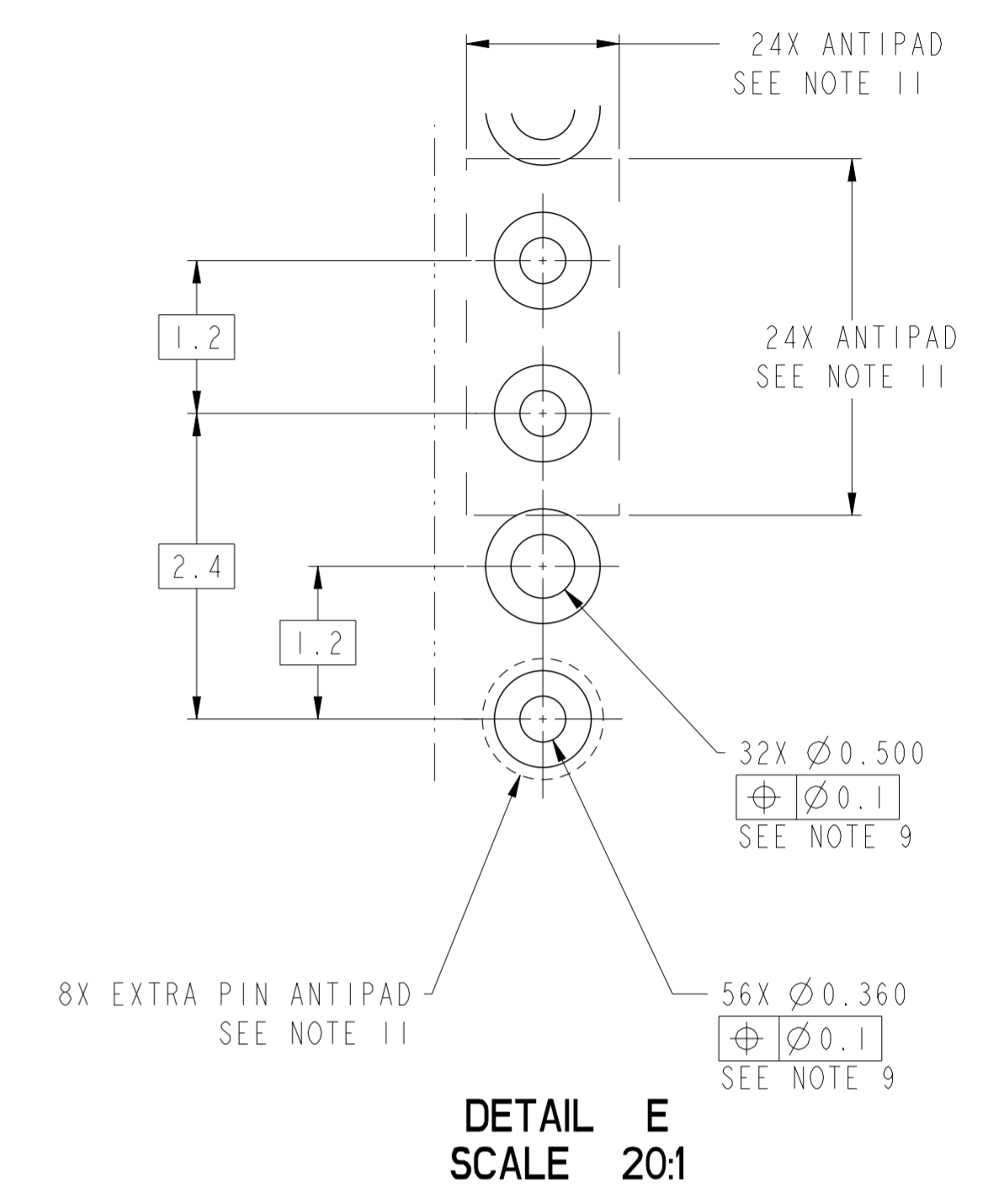
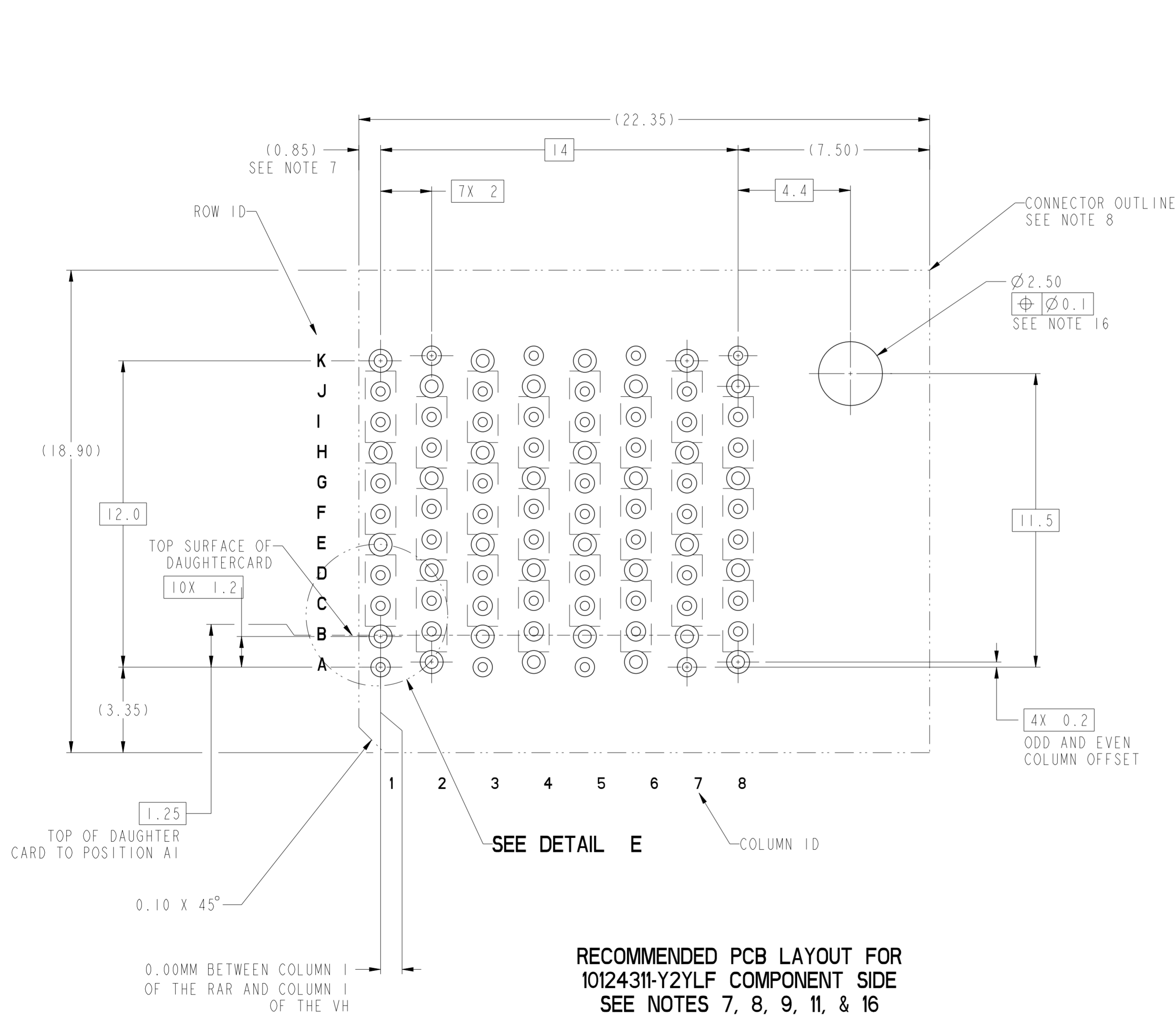
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spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no -	rel level Released	title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	rev A
ASME Y14.5M		chr	Heaven Cen	2017/01/22						
		appr	Pai-Ming Zheng	2017/01/23						
surface	linear 0.X ±.3 0.XX ±.10 0.XXX ±.050 angular 0° ±°	Amphenol FCI		cat. no. SEE TABLE	product family ExaMAX	dwg no 10124311	sheet 8 of 11	Product - Customer Drw		

PDS: Rev :A

STATUS:Released

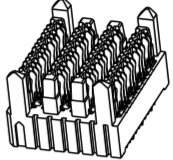
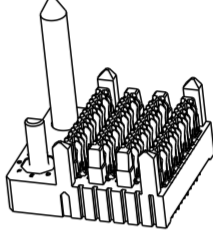
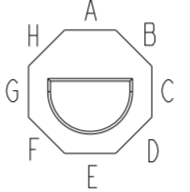
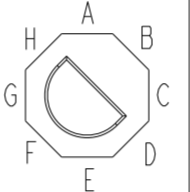
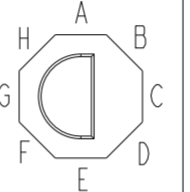
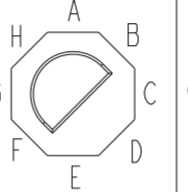
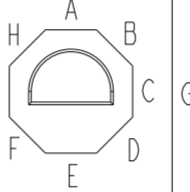
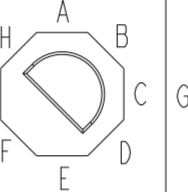
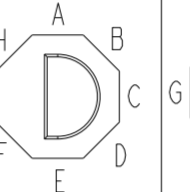
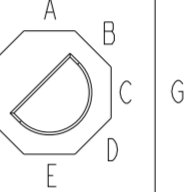
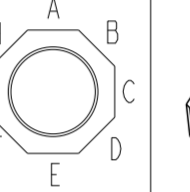
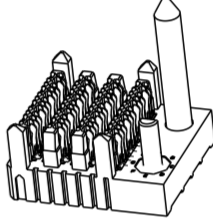
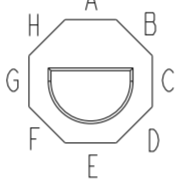
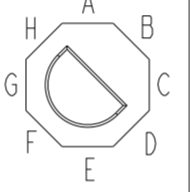
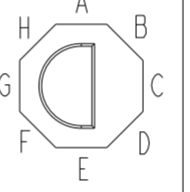
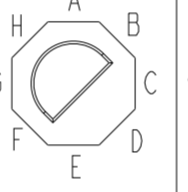
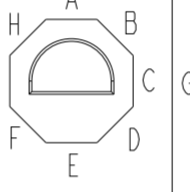
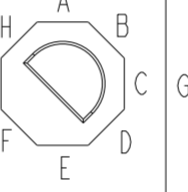
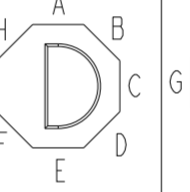
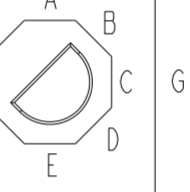
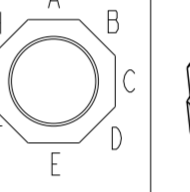
Printed: Jan 23, 2017



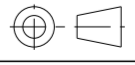
RECOMMENDED PCB LAYOUT FOR
10124311-Y2YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	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							
		appr	Pai-Ming Zheng	2017/01/23							
surface	linear	0.X	±.3		product family ExaMAX	title ExaMAX VERTICAL HEADER ASSY 3 PR, 88 POS, 8 IMLA	dwg no 10124311	rev A	cat. no. SEE TABLE	Product - Customer Drw	sheet 9 of 11
		0.XX	±.10								
		0.XXX	±.050								
	angular	0°	±°								

10124311 - Y Y Y L F

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER										BASE MODULE
STANDARD NO GUIDANE (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)		
											

ASSEMBLY PART NUMBER	DESCRIPTION
10124311-1YYLF	STANDARD MATE
10124311-2YYLF	ADVANCED MATE
10124311-3YYLF	SHORT DETECT
10124311-4YYLF	ADVANCED MATE & SHORT DETECT

spec ref	SEE NOTES	dr	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	1:1
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	ExdMAX VERTICAL HEADER ASSY	dwg no	10124311	rev	A
		0.XX	±.10							
		0.XXX	±.050							
	angular	0°	±°	cat. no.	SEE TABLE	Product - Customer Drw	sheet 10 of 11			

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, (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 THE APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTHS, 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, 10124311-2YYLF, 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, 10124311-3YYLF, 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, 10124311-4YYLF, 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	Daniel Xiao	2013/05/21	projection	MM	size	A2	scale	2:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terry Luo	2017/01/23			ecn no	-														
ASME Y14.5M		chr	Heaven Cen	2017/01/22			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	Pai-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released		
linear	0.X	±.3																				
	0.XX	±.10																				
	0.XXX	±.050																				
angular	0°	±°																				
		Amphenol FCI	title		ExaMAX VERTICAL HEADER ASSY		dwg no	10124311		rev	A											
			3 PR, 88 POS, 8 IMLA		cat. no.	SEE TABLE	Product - Customer Drw		sheet 11 of 11													

Amphenol FCI

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