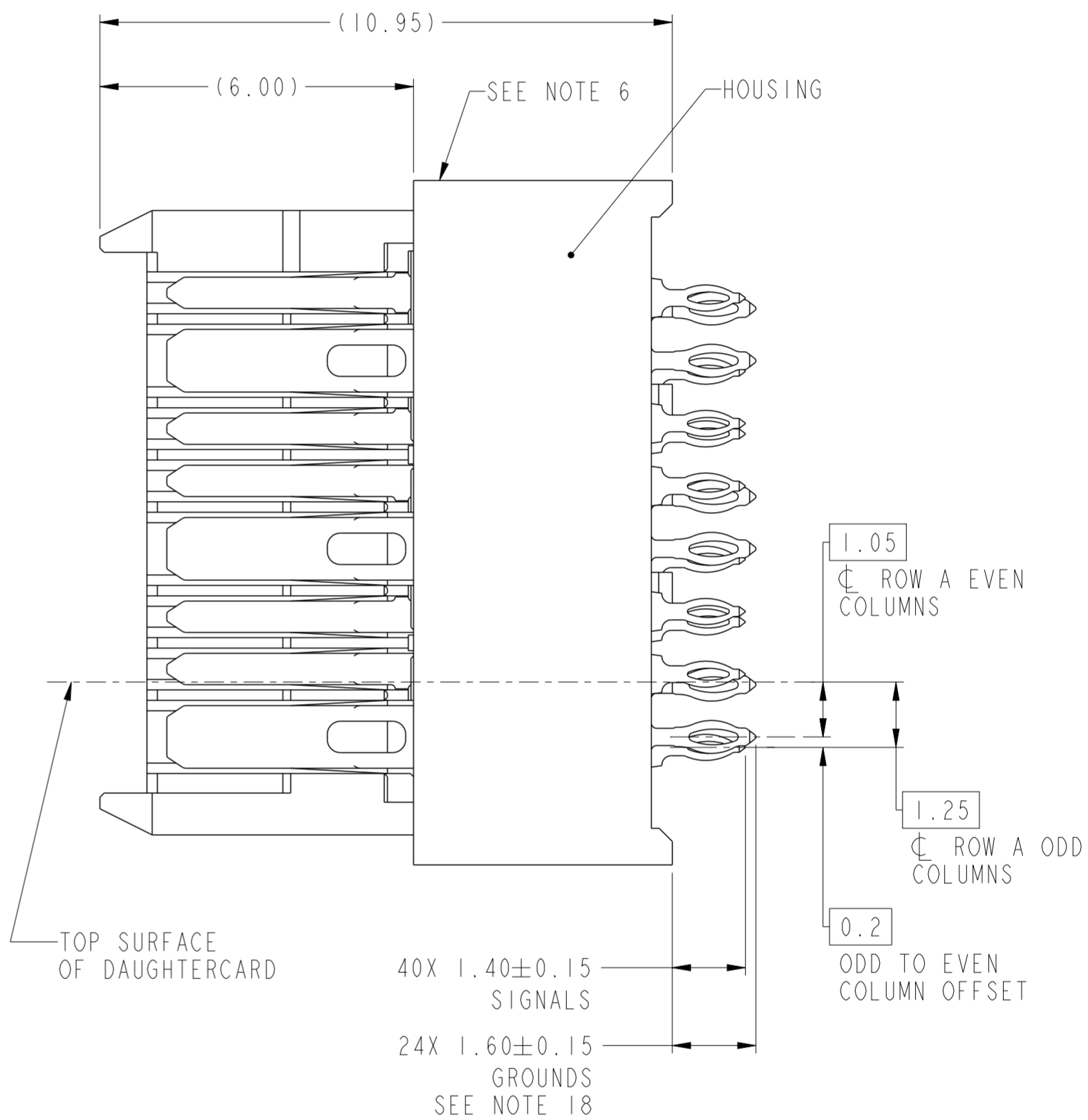
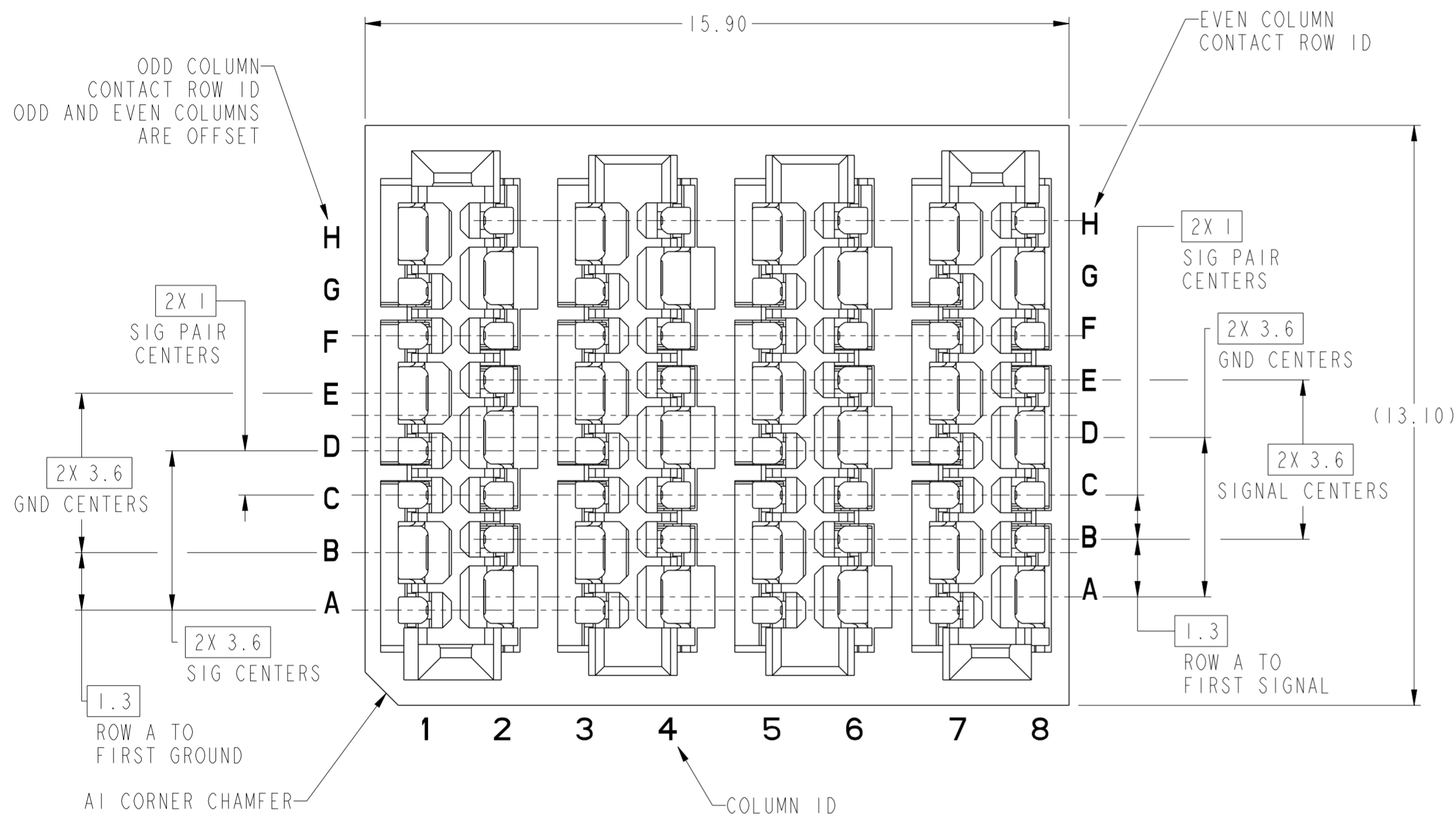


PRODUCT NUMBER
SEE SHEET 10



10124412-Y01YLF
(10124412-101YLF STANDARD MATE CONNECTOR SHOWN)

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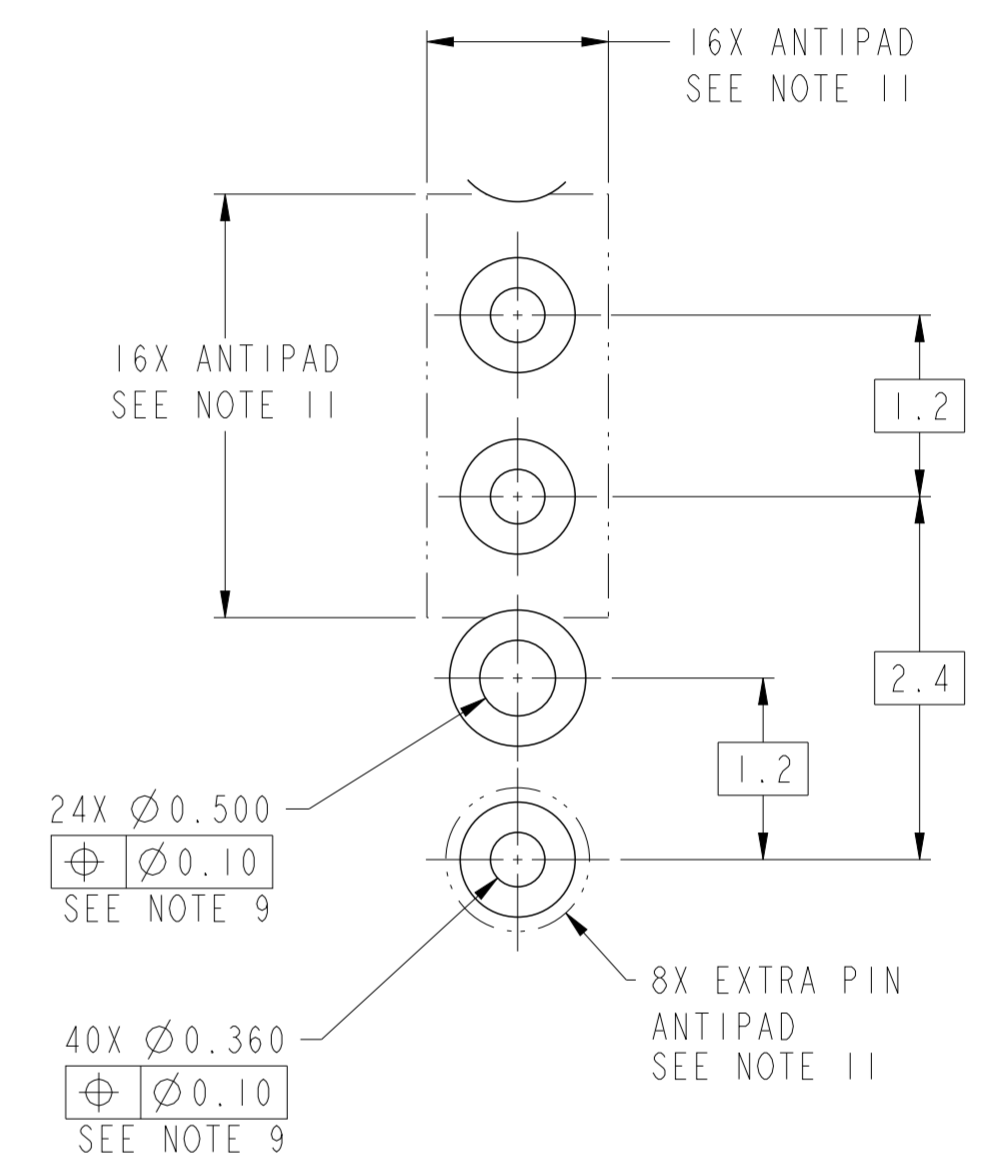
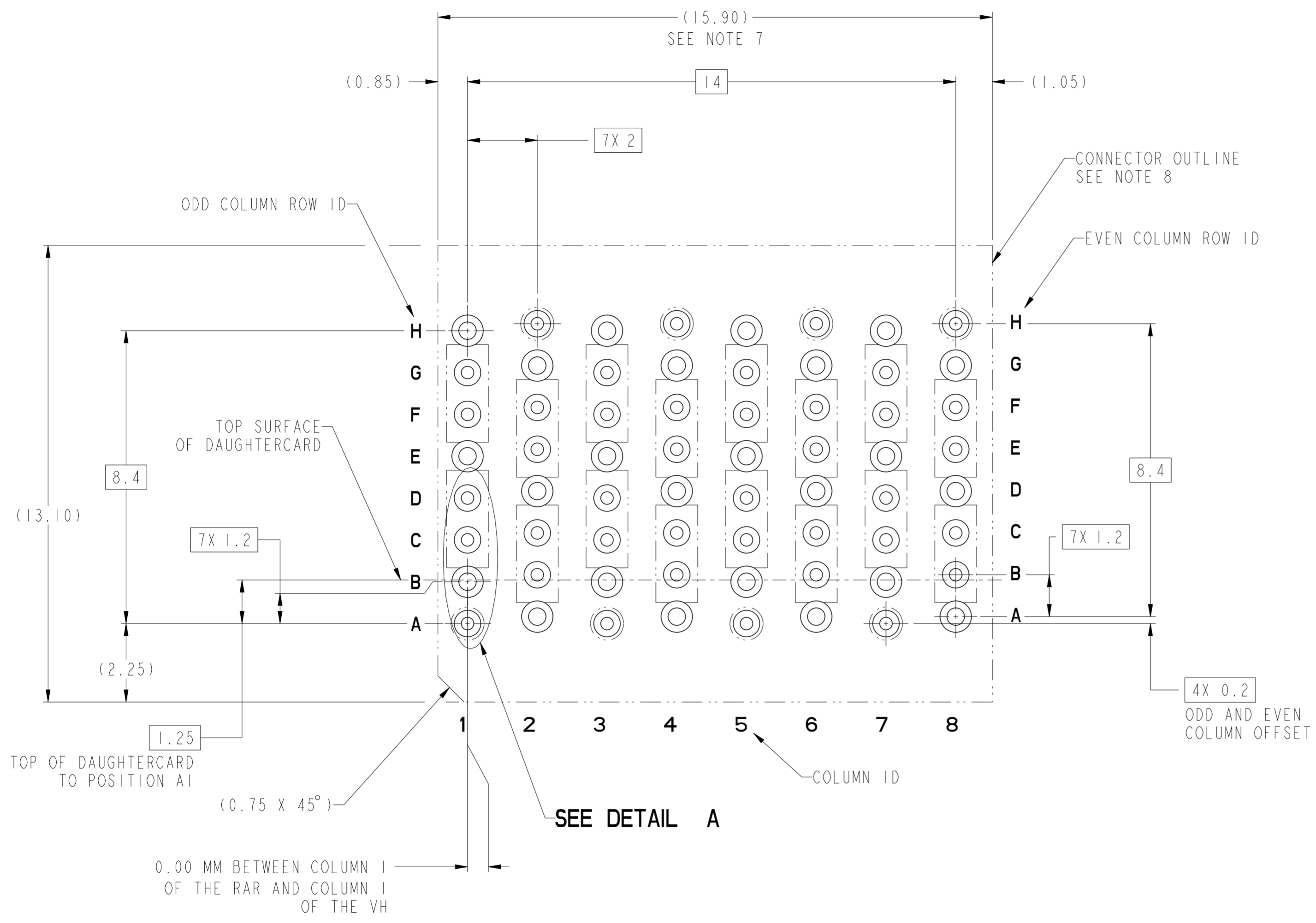
© 2016 AFci

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	10:1										
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1	rel level	Released										
ASME Y14.5M		chr	-	app			Heaven Cen	2020/05/20			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, 2 PAIR, 64 POS, 8 IMLA		title cat. no.	dwg no 10124412	rev D
linear	0.X	±.3																		
	0.XX	±.10																		
	0.XXX	±.050																		
angular	0°	±2°																		
		SEE TABLE		Product - Customer Drw		sheet 1 of 11														

PDS: Rev :D

STATUS:Released

Printed: May 20, 2020



**RECOMMENDED PCB LAYOUT FOR
10124412-Y01YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	5:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1			
ASME Y14.5M		chr	-	rel level			Released				
		appr	Heaven Cen	2020/05/20			product family	ExaMAX			
surface	linear	0.X	±.3		title		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 64 POS, 8 IMLA	dwg no 10124412	rev D		
		0.XX	±.10		cat. no.	SEE TABLE				Product - Customer Drw	sheet 2 of 11
	angular	0°	±2°								

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

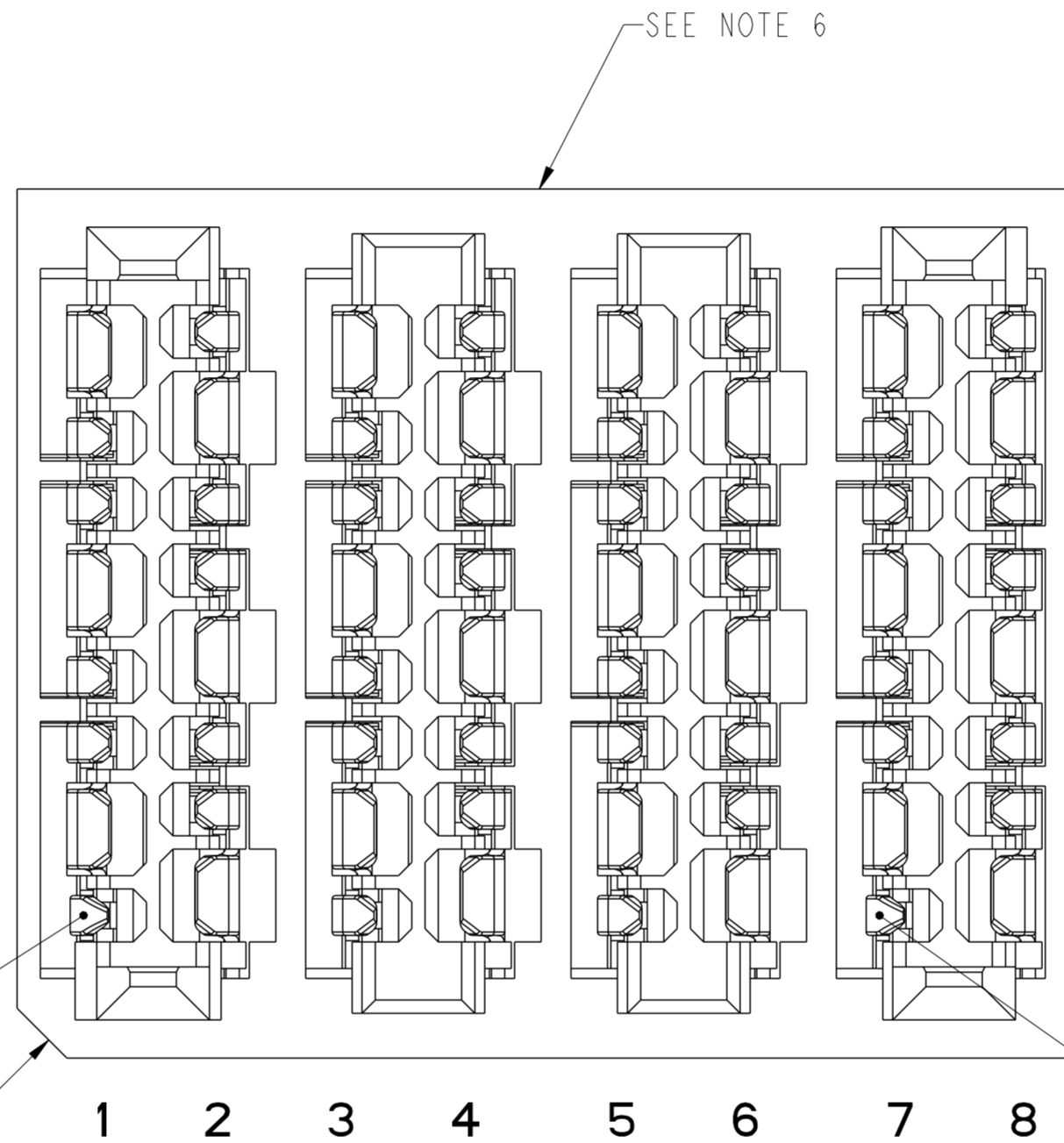
B

C

D

E

F



ADVANCED MATE POSITION A1
SEE NOTE 13

A1 CORNER CHAMFER

ADVANCED MATE POSITION A7
SEE NOTE 13

10124412-201YLF
ADVANCED MATE CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

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spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	5:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-				rel level	Released			
surface	-	appr	Heaven Cen		product family	ExaMAX		rel level	Released		
	linear	0.X	±.3		title		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 64 POS, 8 IMLA	dwg no 10124412	rev D		
		0.XX	±.10		cat. no.	SEE TABLE				Product - Customer Drw	sheet 3 of 11
		0.XXX	±.050								
	angular	0°	±2°								

1 2 3 4 5 6 7 8

A

B

C

D

E

F

A

B

C

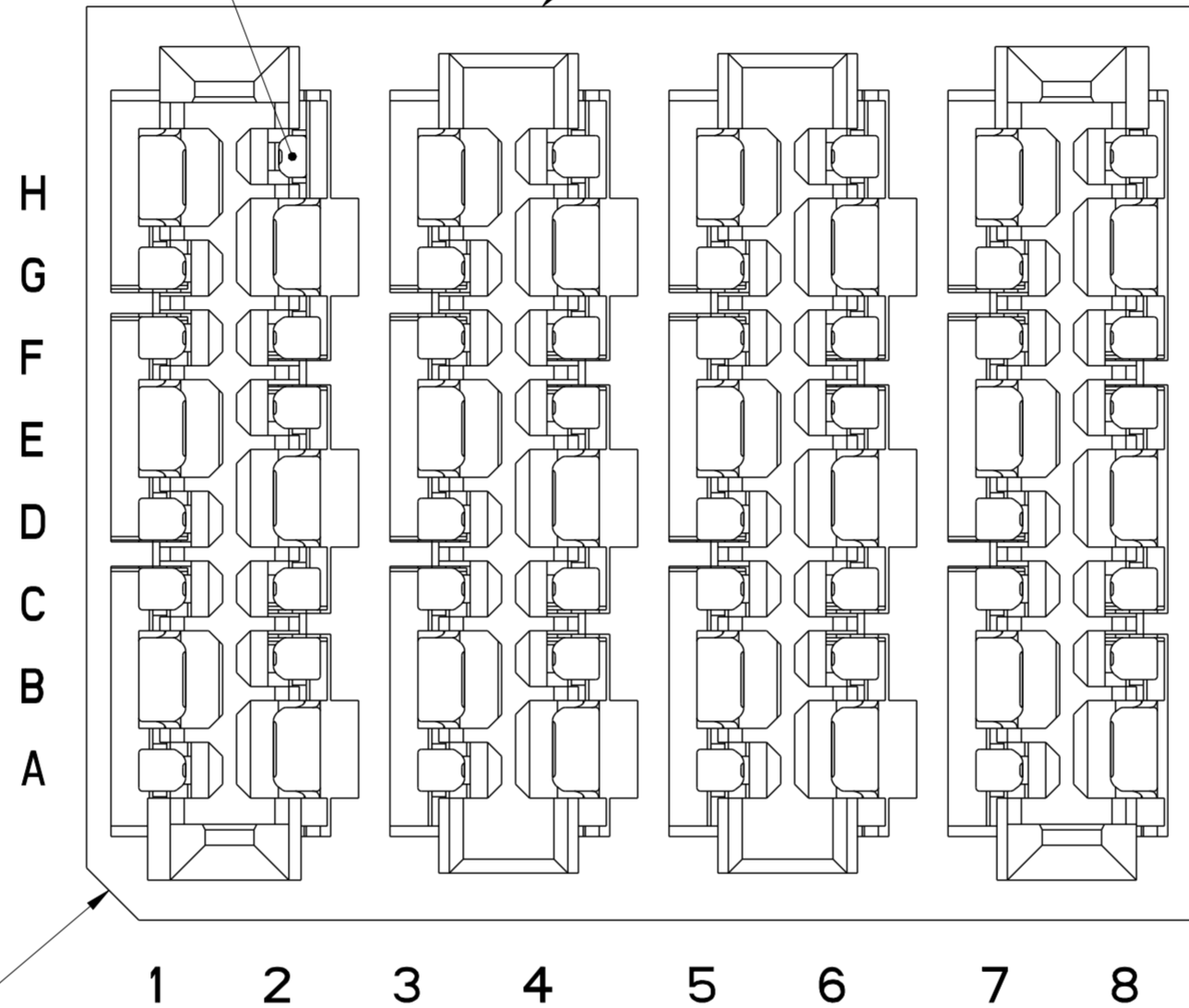
D

E

F

SHORT DETECT
POSITION H2
SEE NOTE 14

SEE NOTE 6



A1 CORNER CHAMFER

10124412-301YLF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS H2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

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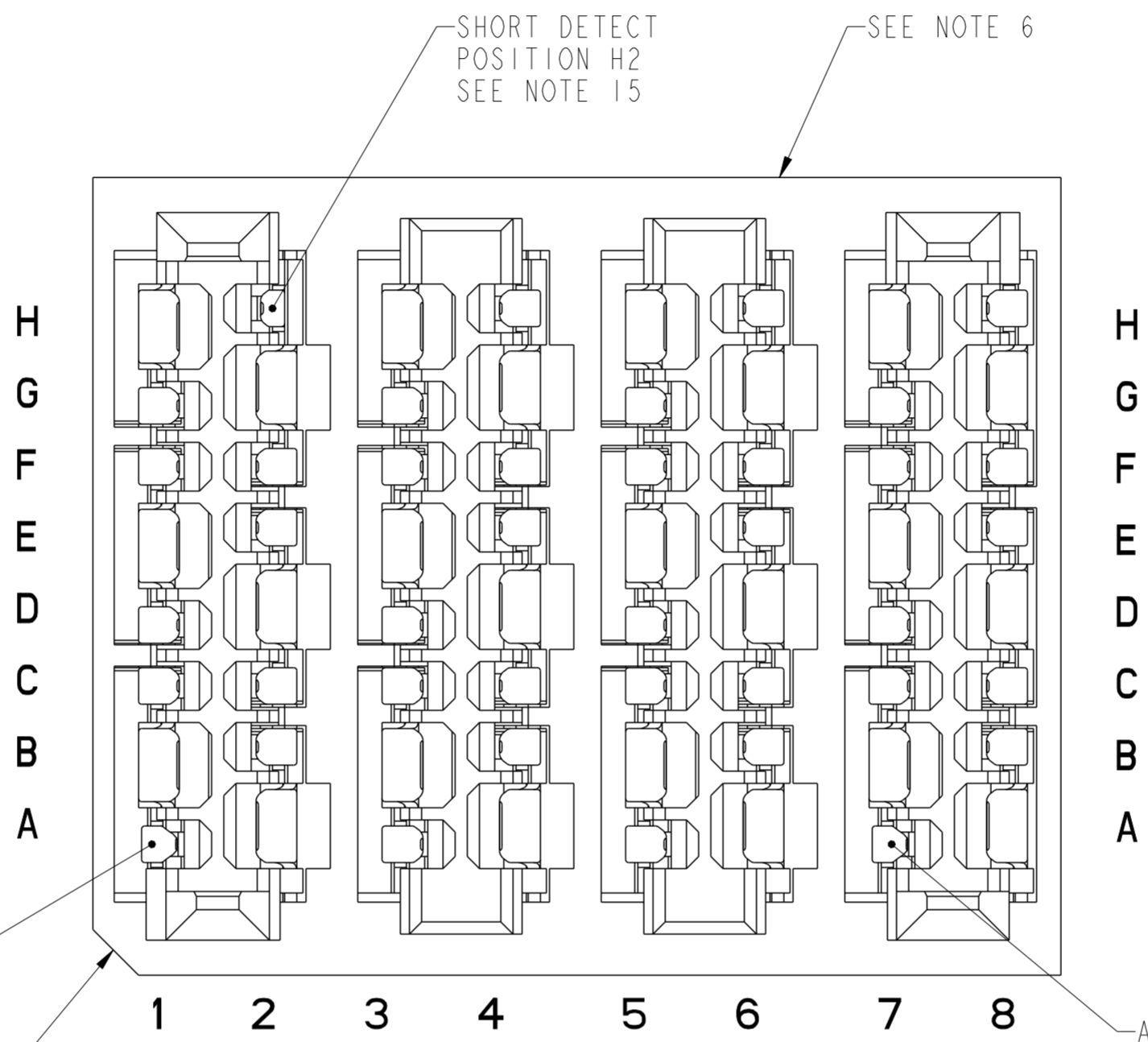
© 2016 AFci

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	5:1								
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1										
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/20	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°		Amphenol FCI title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 64 POS, 8 IMLA	cat. no. SEE TABLE	Product - Customer Drw	sheet 4 of 11
-	linear			0.X	±.3													
				0.XX	±.10													
		0.XXX	±.050															
	angular	0°	±2°															

PDS: Rev :D

STATUS:Released

Printed: May 20, 2020

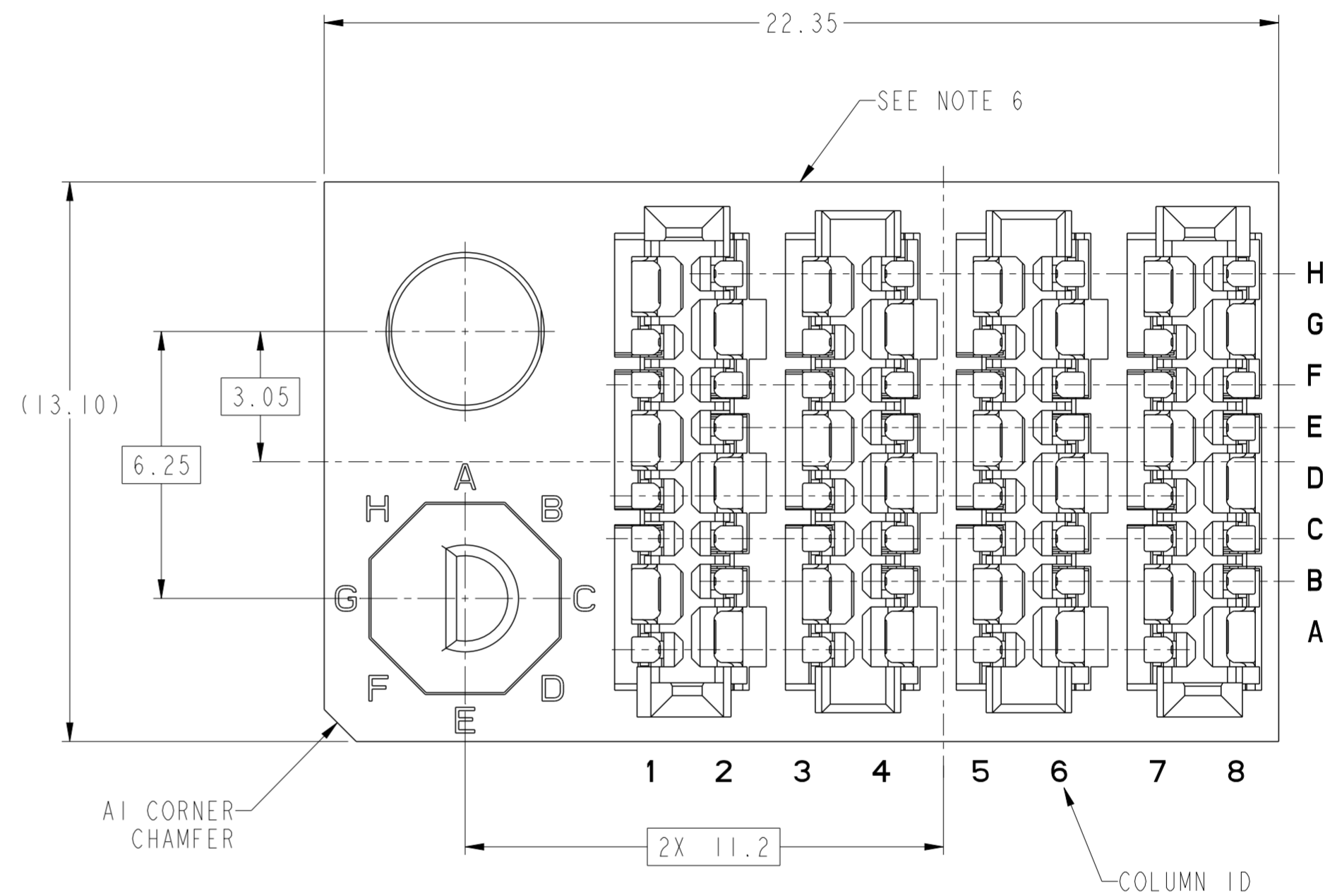
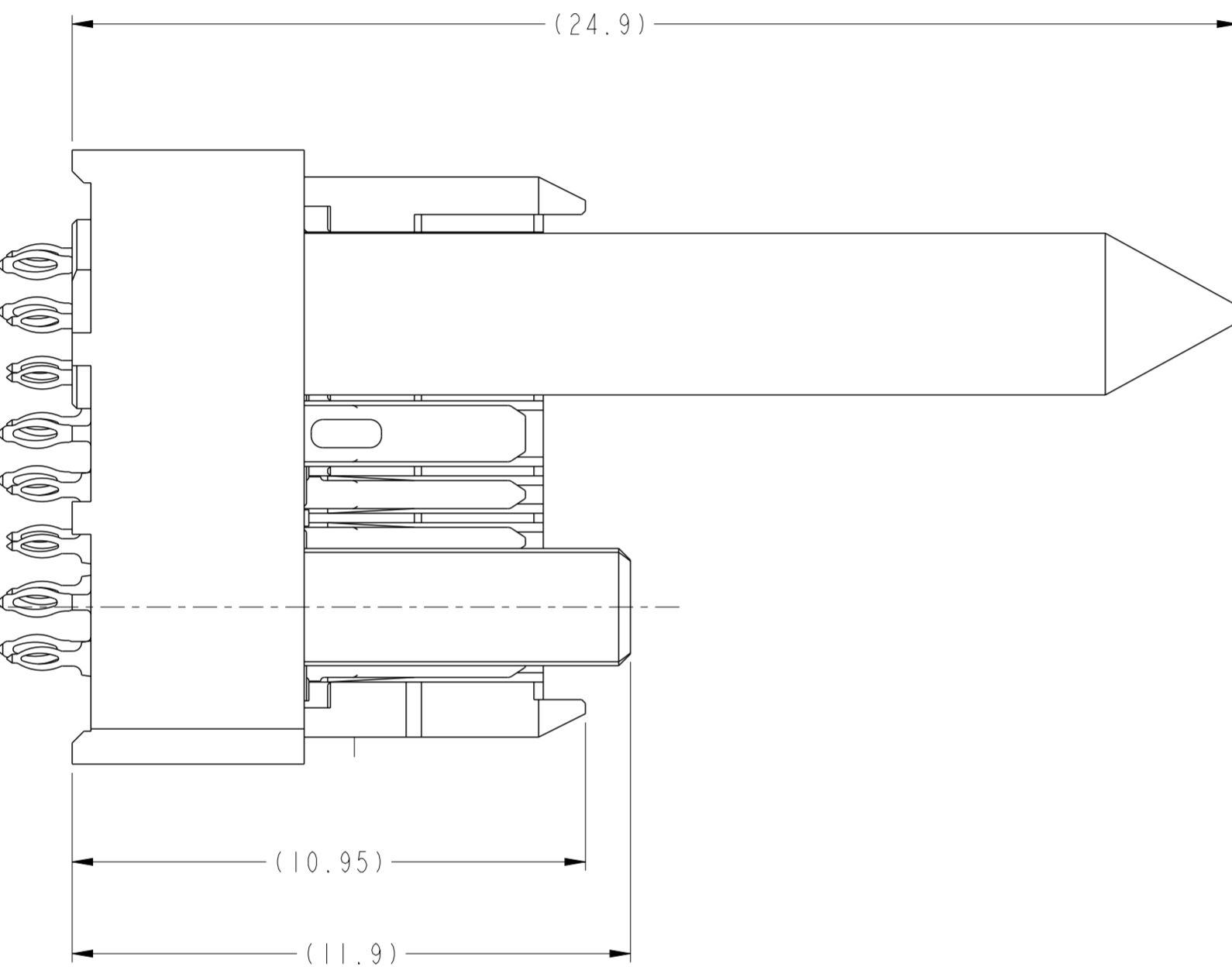


10124412-401YLF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
SHORT DETECT POSITION IS H2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

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spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	2:1								
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1										
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/20	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, 2 PAIR, 64 POS, 8 IMLA	cat. no. SEE TABLE	Product - Customer Drw	rev D
-	linear			0.X	±.3													
				0.XX	±.10													
		0.XXX	±.050															
	angular	0°	±2°															
							dwg no 10124412		sheet 5 of 11									



10124412-Y1AYLF THRU -Y1JYLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

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 FCI

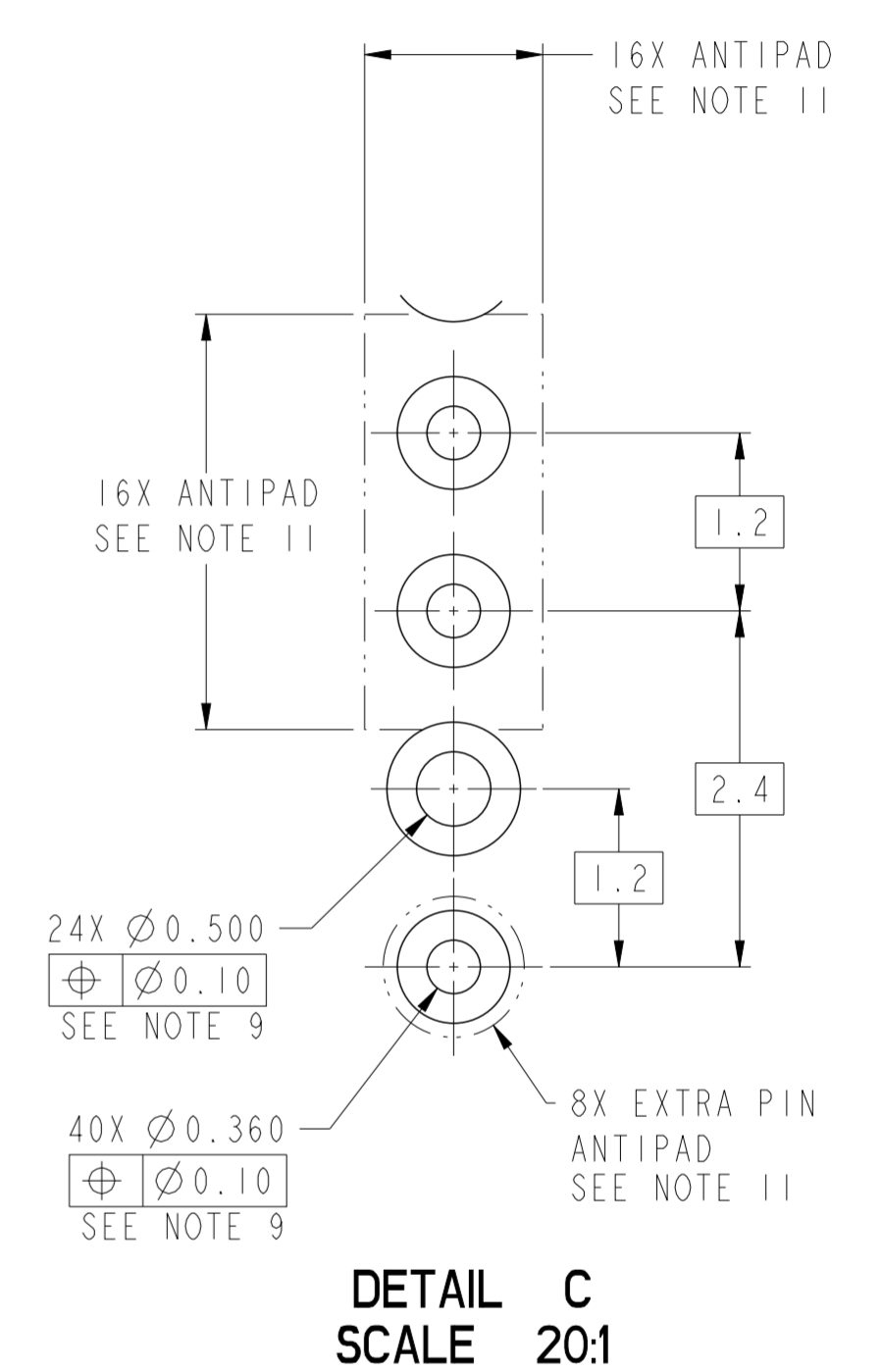
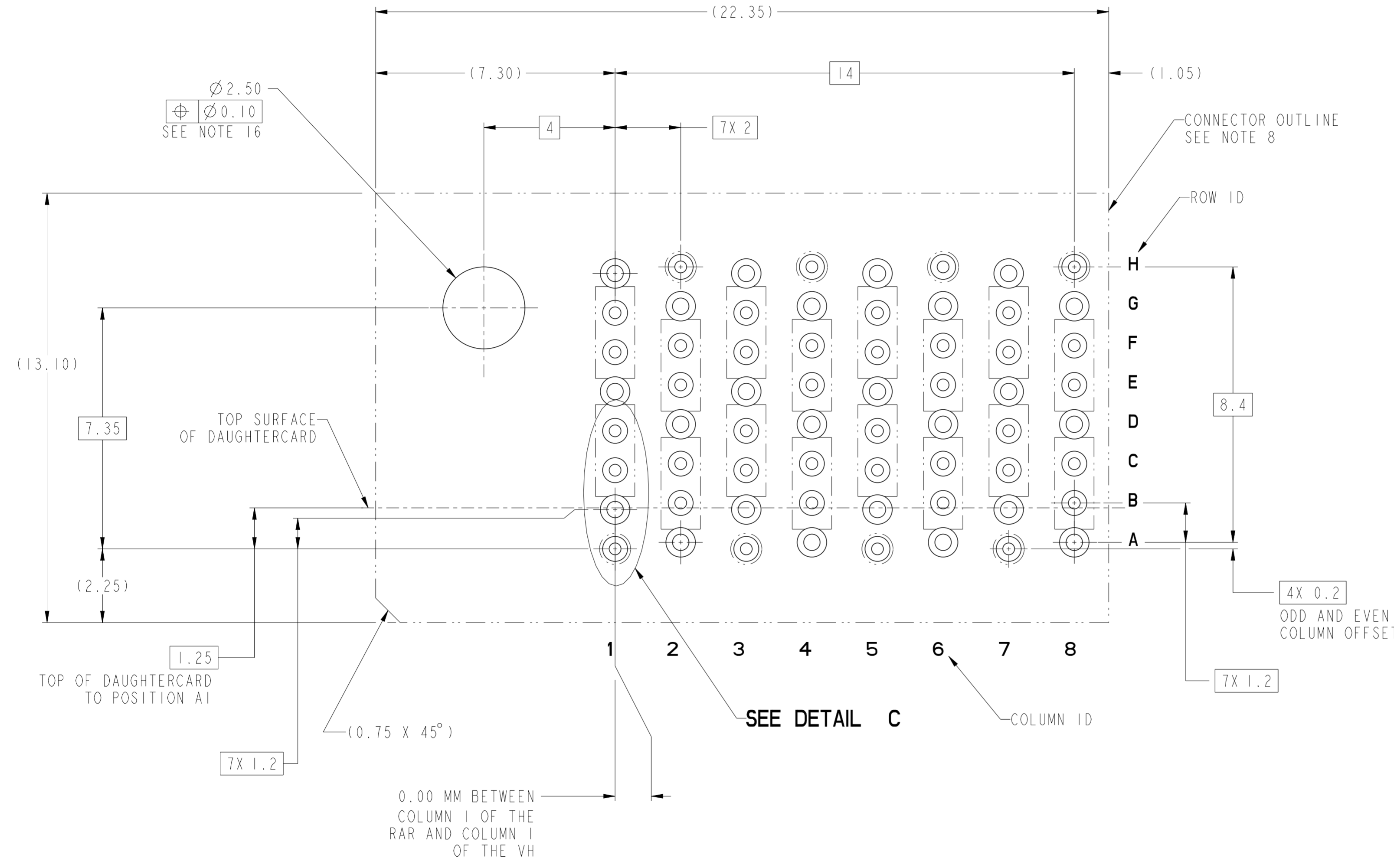
© 2016 AFCI

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	2:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1	rel level	Released									
ASME Y14.5M		chr	-	apppr			Heaven Cen	2020/05/20			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, 2 PAIR, 64 POS, 8 IMLA		dwg no 10124412	rev D
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±2°																	
		cat. no.		SEE TABLE	Product - Customer Drw		sheet 6 of 11												

PDS: Rev :D

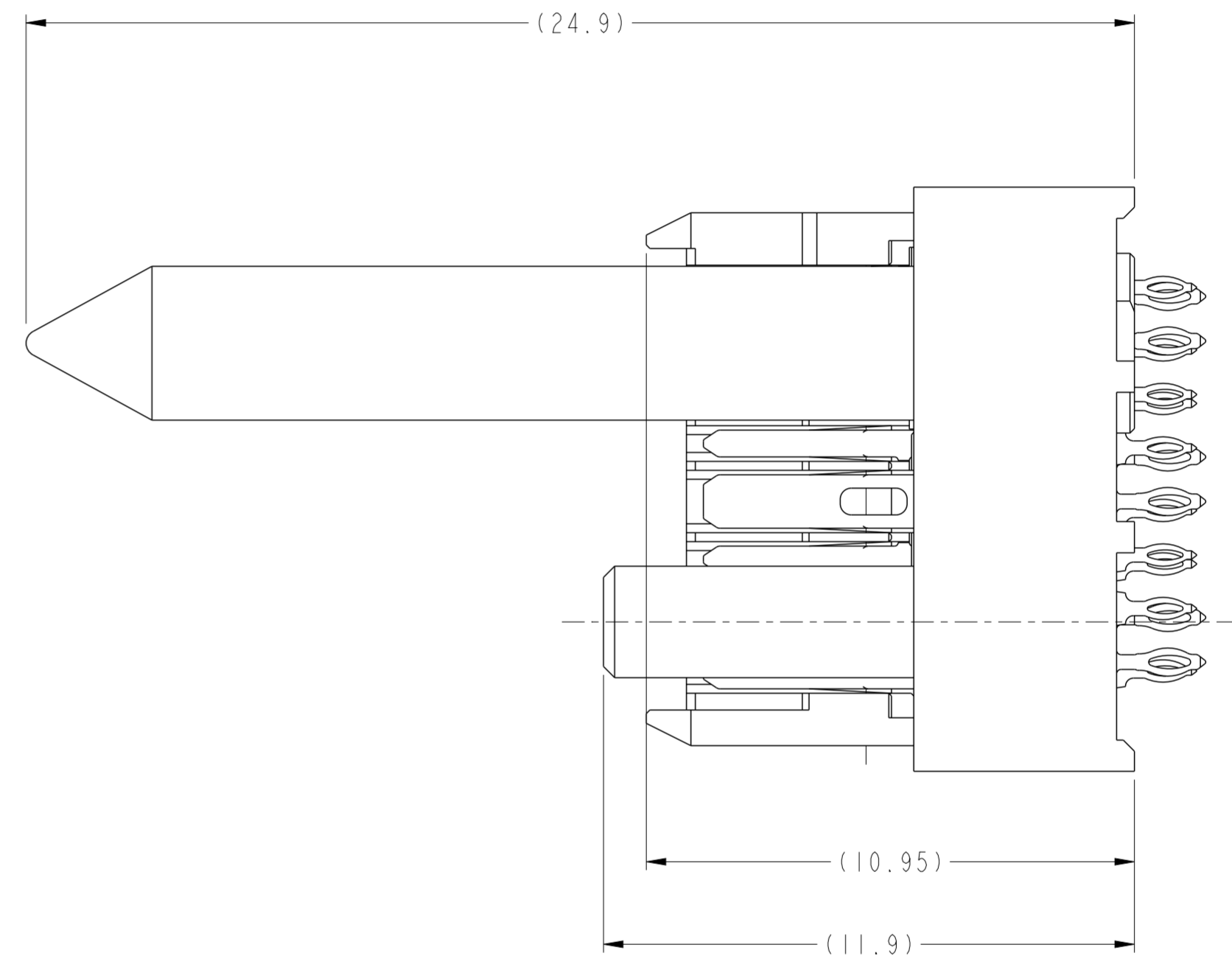
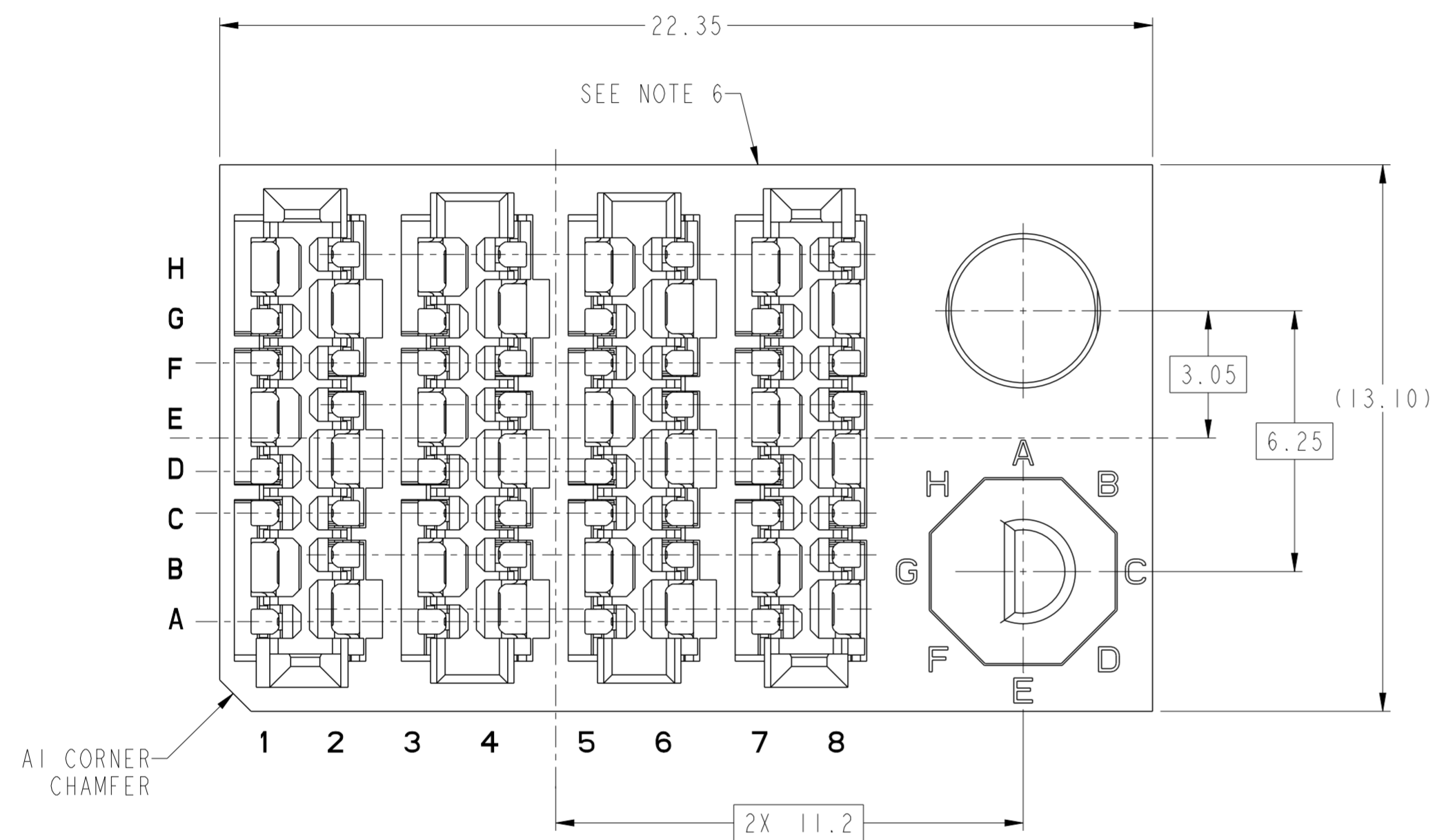
STATUS:Released

Printed: May 20, 2020



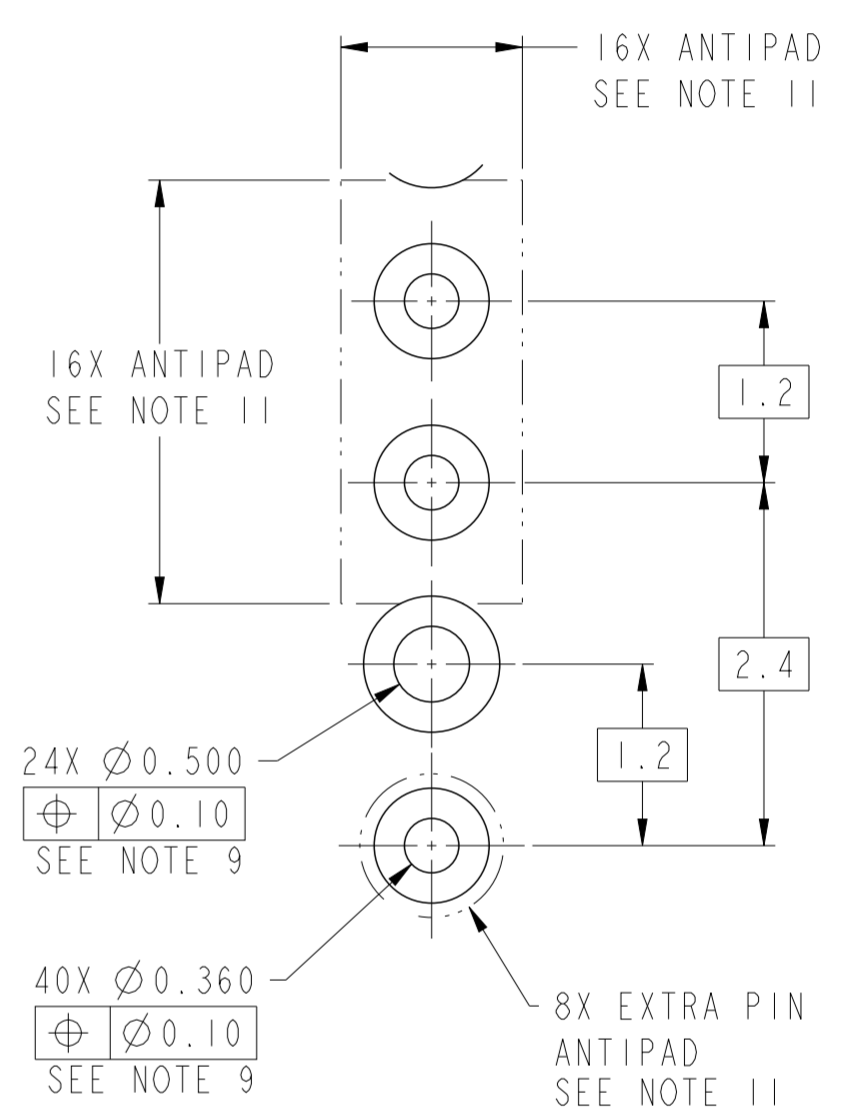
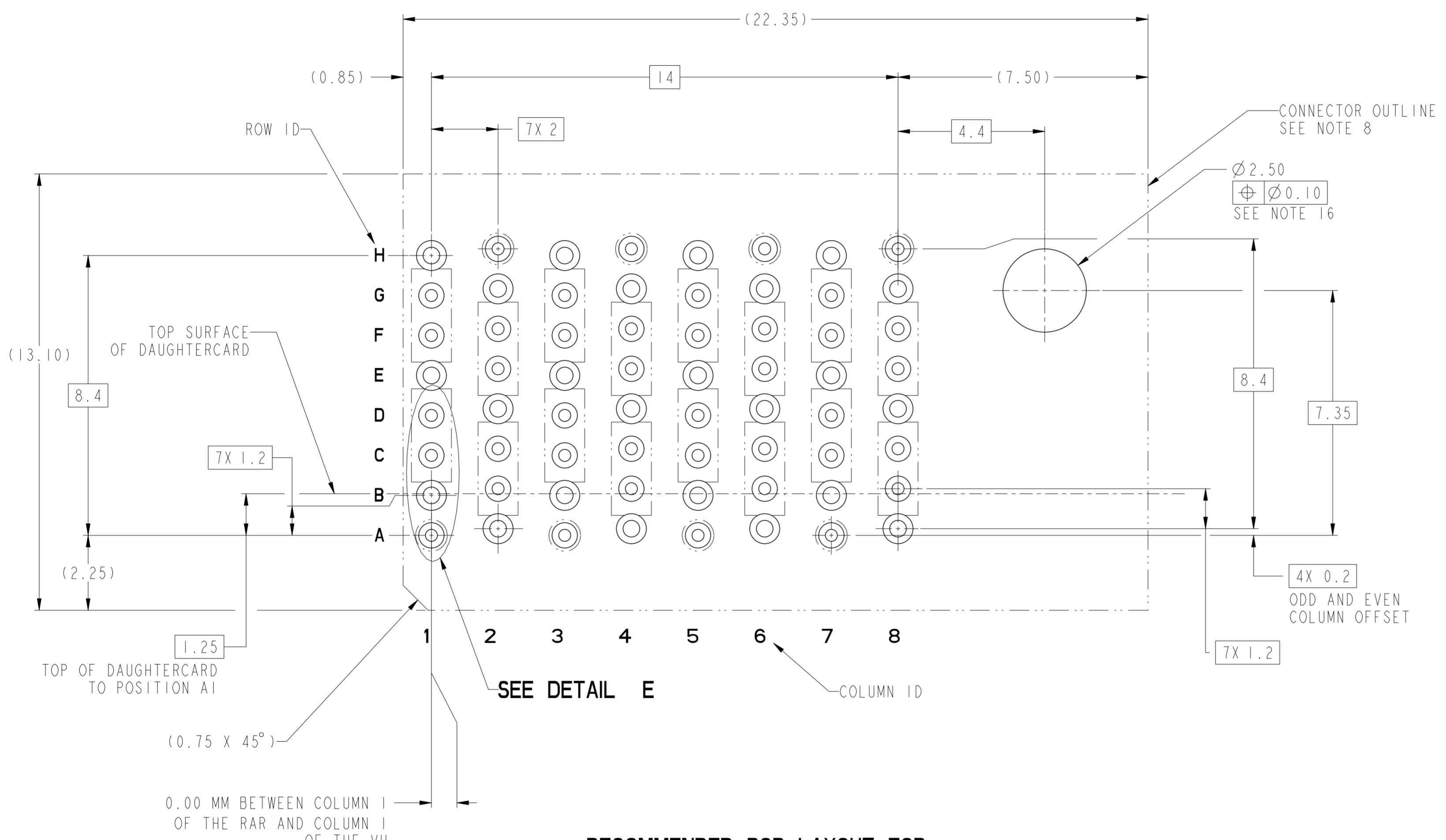
**RECOMMENDED PCB LAYOUT FOR
10124412-Y1YYLF
COMPONENT SIDE
SEE NOTES 8, 9, 11 & 16**

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	2:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1				
ASME Y14.5M		chr	-	appr			Heaven Cen	2020/05/20	product family	ExaMAX	rel level	Released
surface	linear	0.X	±.3	Amphenol FCI			title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 64 POS, 8 IMLA		cat. no.	SEE TABLE	Product - Customer Drw	sheet 7 of 11
		0.XX	±.10			dwg no			10124412	rev	D	
	angular	0°	±2°									



10124412-Y2AYLF THRU -Y2JYLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL DIMENSIONS SEE SHEET 1

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	10:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1											
ASME Y14.5M		chr	-	rel level			Released												
		appr	Heaven Cen	2020/05/20			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, 2 PAIR, 64 POS, 8 IMLA		dwg no 10124412	rev D
linear	0.X	±.3																	
	0.XX	±.10																	
	0.XXX	±.050																	
angular	0°	±2°																	
		cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11														



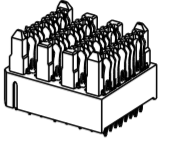
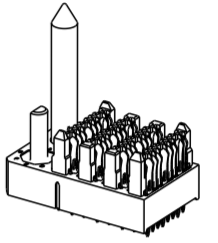
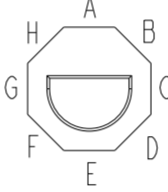
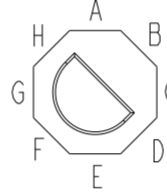
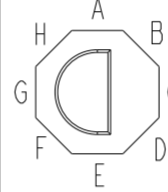
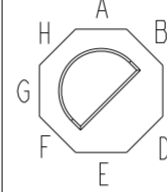
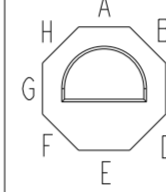
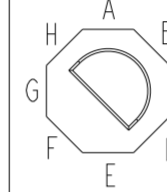
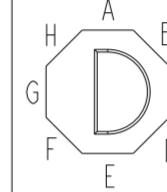
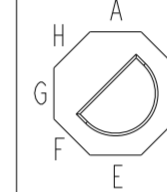
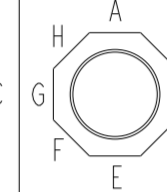
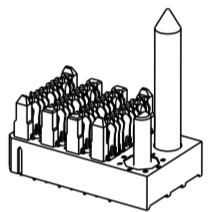
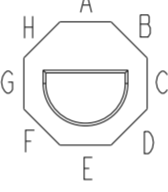


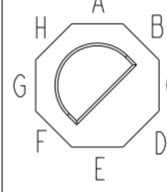
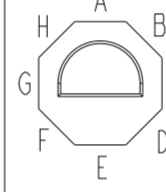
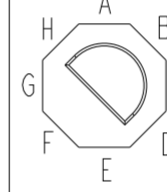
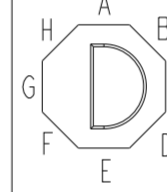
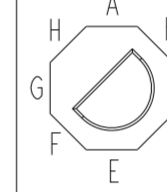
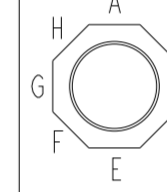
**RECOMMENDED PCB LAYOUT FOR
10124412-Y2YYLF
COMPONENT SIDE
SEE NOTES 8, 9, 11, & 16**

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1	rel level	Released	
ASME Y14.5M		chr	-								
		appr	Heaven Cen	2020/05/20							product family
surface	linear	0.X	±.3		title		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 64 POS, 8 IMLA	dwg no 10124412	rev D		
		0.XX	±.10		cat. no.	SEE TABLE				Product - Customer Drw	sheet 9 of 11
	angular	0°	±2°								

10124412 - Y Y Y Y L F

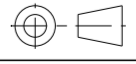
PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10124412-1YYLFF	STANDARD MATE
10124412-2YYLFF	ADVANCED MATE
10124412-3YYLFF	SHORT DETECT
10124412-4YYLFF	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	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20		← →	ecn no	ELX-DG-37058-1			
ASME Y14.5M		chr	-	rel level				Released			
surface		appr	Heaven Cen	2020/05/20				product family	ExaMAX		
	linear	0.X	±.3	Amphenol FCI title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 64 POS, 8 IMLA cat. no. SEE TABLE Product - Customer Drw sheet 10 of 11			dwg no	10124412		rev	D
		0.XX	±.10								
		0.XXX	±.050								
	angular	0°	±2°								

PDS: Rev :D

STATUS:Released

Printed: May 20, 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
POLARIZING 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, (PART NUMBER & LOT CODE), ON THIS SURFACE.
- ⑦ - THE MINIMUM CENTERLINE SPACING BETWEEN ADJACENT MODULES IS 16.0 mm FOR 10124412-Y01YLF.
- 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, 10124412-2YYYYLF, WHEN MATED WITH AN ADVANCED MATE RIGHT ANGLE RECEPTACLE, 10124411-2YYLF, 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, 10124412-3YYYYLF, WHEN MATED WITH A RIGHT ANGLE RECEPTACLE, 10124411-1YYLF, WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮ - THE ADVANCE MATE/SHORT DETECT HEADER, 10124412-4YYYYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE, 10124411-2YYLF, 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, A PHILLIPS PAN HEAD M2 X 0.4 HOLD-DOWN SCREW MUST BE USED TO SECURE THE CONNECTOR AND GUIDE PIN TO THE PCB. THE SCREW LENGTH SHALL BE 2.0-6.0 mm PLUS THE THICKNESS OF THE PCB. SCREW IS NOT PROVIDED WITH THE 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 WITH A RIGHT GUIDE RIGHT ANGEL RECEPTACLE.)
- ⑱ - ALL GROUND CONTACTS ARE COMMONED WITHIN A COLUMN.

spec ref	SEE NOTES	dr	Mark R Gray	2013/02/20	projection	MM	size	A2	scale	3:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Peng-Bing Fu	2020/05/20		← →	ecn no	ELX-DG-37058-1	rel level	Released	
ASME Y14.5M		chr	-	apppr			Heaven Cen	2020/05/20		product family	ExaMAX
surface		linear	0.X	±.3			Amphenol FCi	title		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 64 POS, 8 IMLA	dwg no
		0.XX	±.10								
		0.XXX	±.050								
	angular	0°	±2°	cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 11				