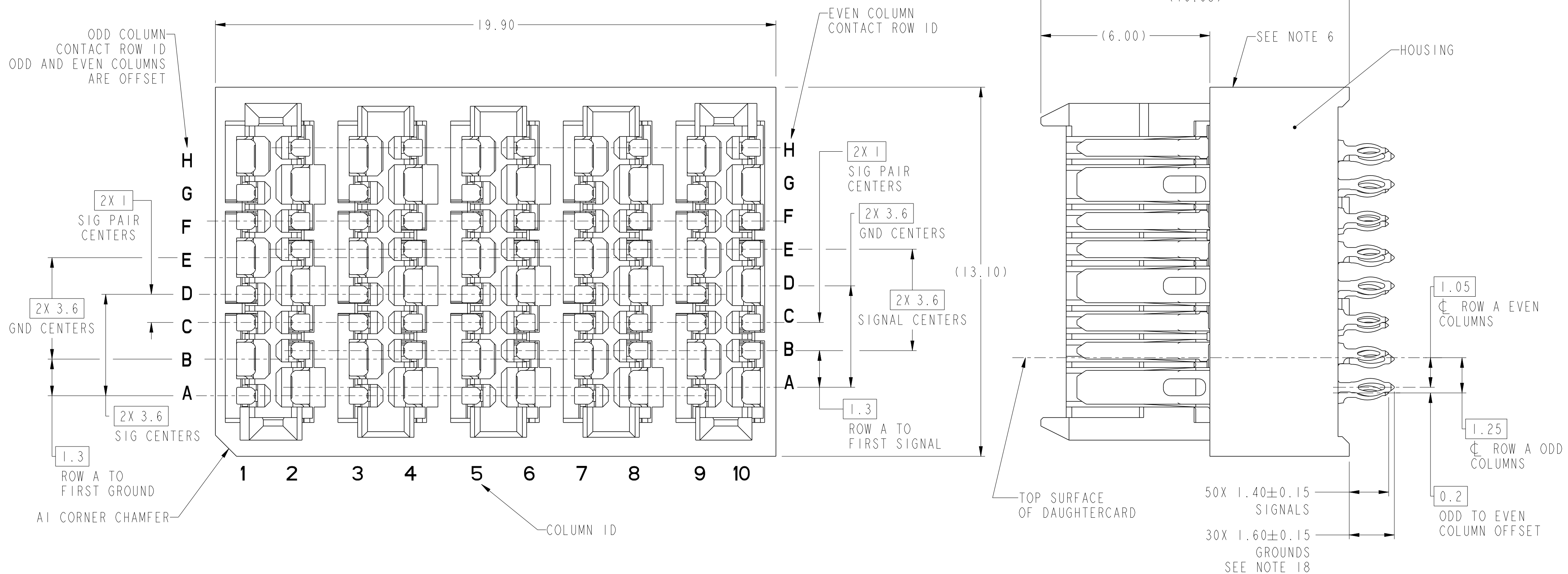


PRODUCT NUMBER
SEE SHEET 10



10124414-Y01YLF
(10124414-101YLF STANDARD MATE CONNECTOR SHOWN)

spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1													
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1	rel level	Released													
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	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°	appr	Heaven Cen	2020/05/20	Amphenol FCI	title	ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA	dwg no	10124414	rev	D
linear	0.X	±.3																					
	0.XX	±.10																					
	0.XXX	±.050																					
angular	0°	±2°																					
		cat. no.		SEE TABLE	Product - Customer Drw		sheet 1 of 11																

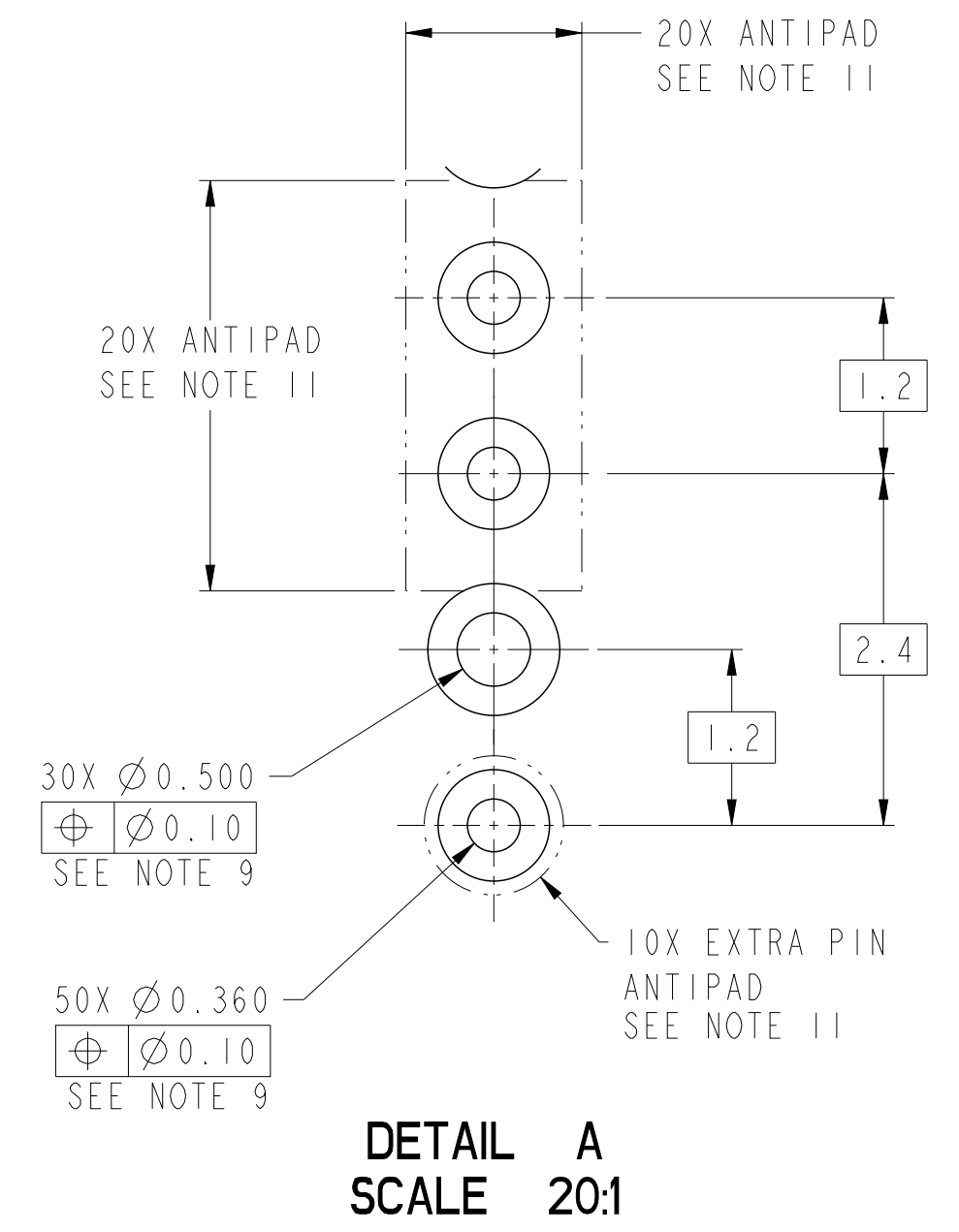
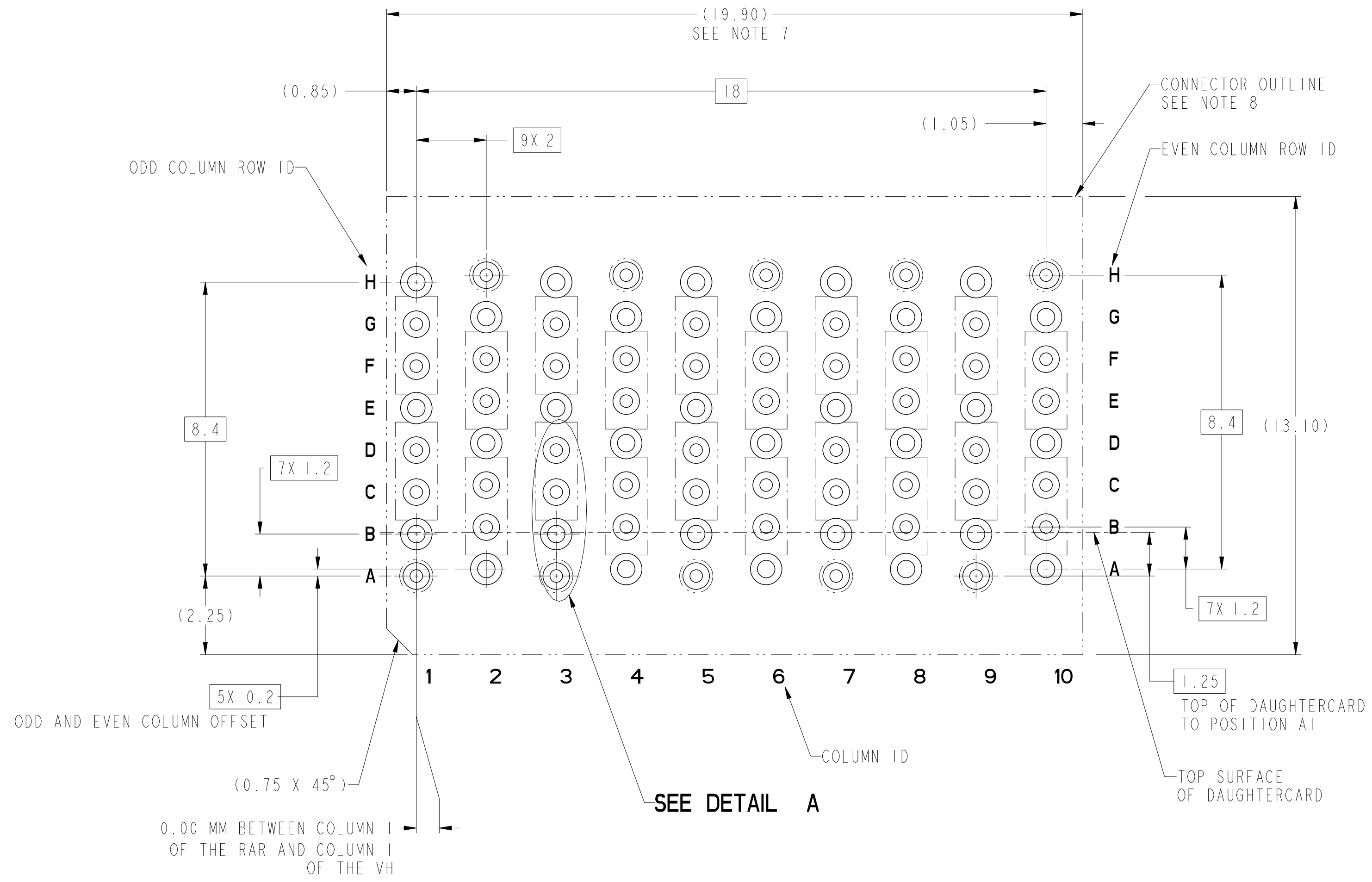
PDS: Rev :D

STATUS:Released

Printed: May 20, 2020

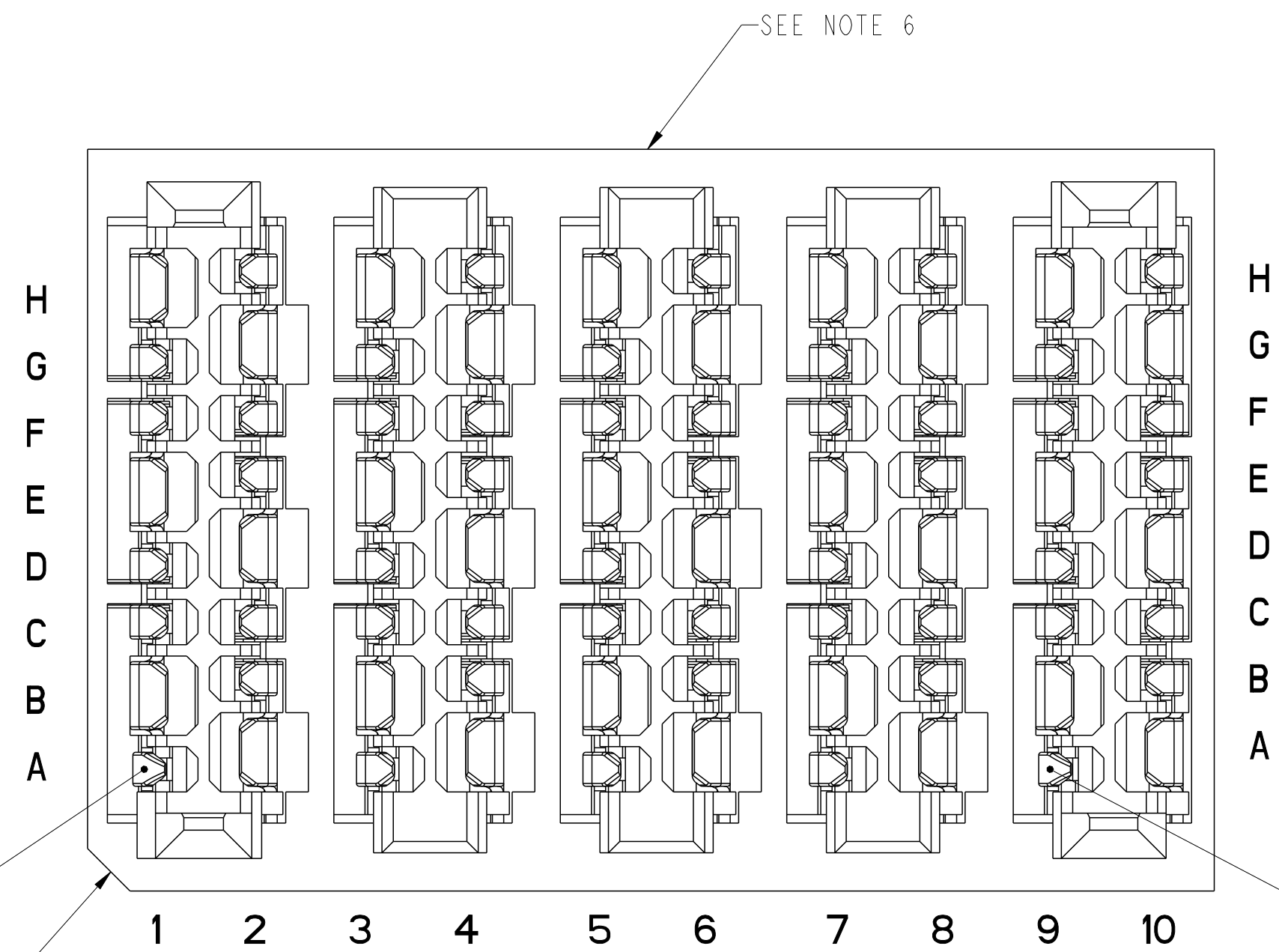
Amphenol FCI

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**RECOMMENDED PCB LAYOUT FOR
10124414-Y01YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11**

spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1			
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, 80 POS, 10 IMLA	dwg no 10124414	rev D					
		0.XX	±.10						cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 11	
	angular	0°	±2°										



10124414-201YLF
ADVANCED MATE CONNECTOR
 ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
 FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

**Amphenol
FCi**

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spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1
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 angular	0.X	±.3		title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA		dwg no 10124414	rev D	cat. no. SEE TABLE Product - Customer Drw sheet 3 of 11		
	0.XX	±.10								
	0.XXX	±.050								
	0°	±2°								

1 2 3 4 5 6 7 8

A

B

C

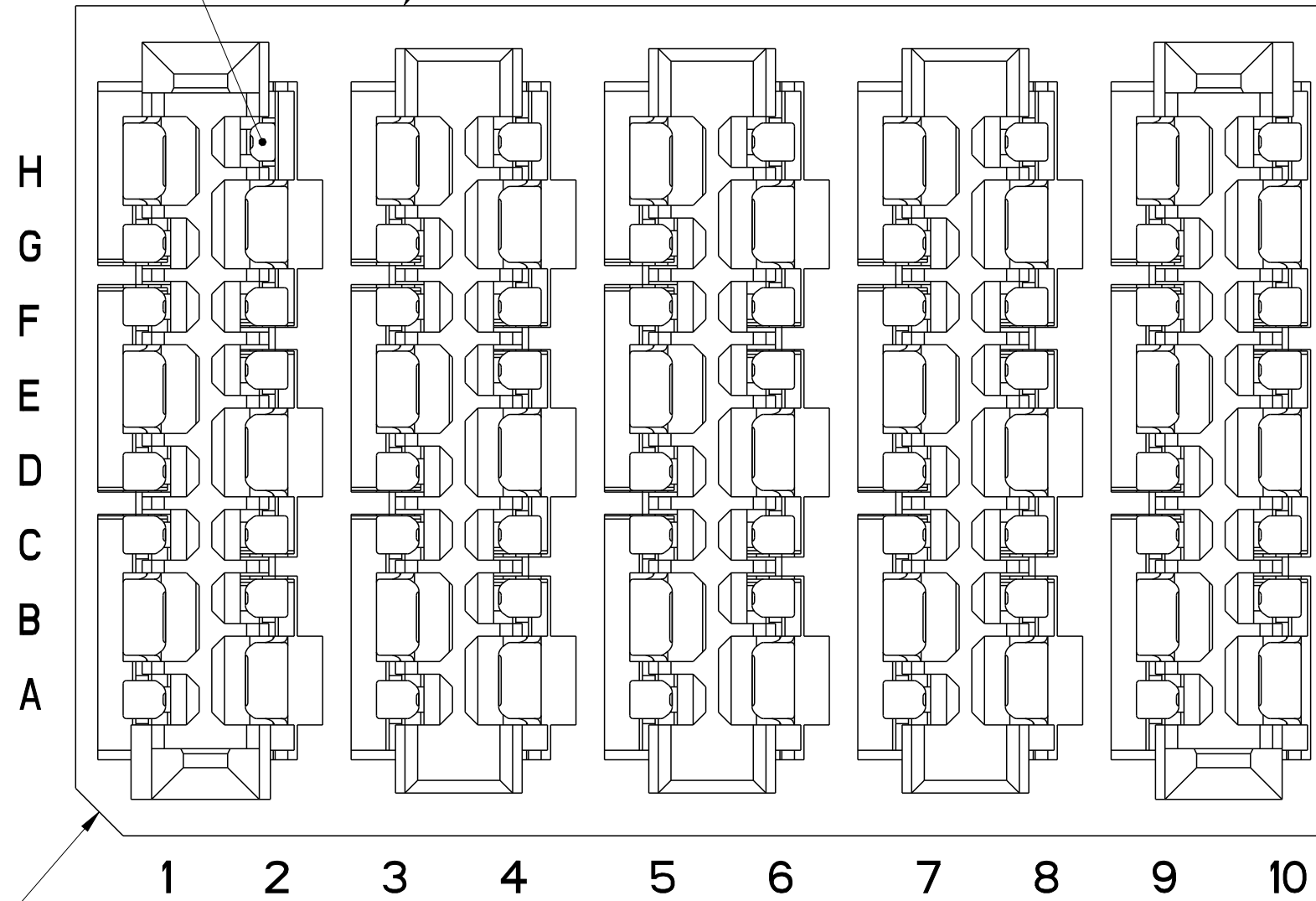
D

E

F

SHORT DETECT
POSITION H2
SEE NOTE 14

SEE NOTE 6



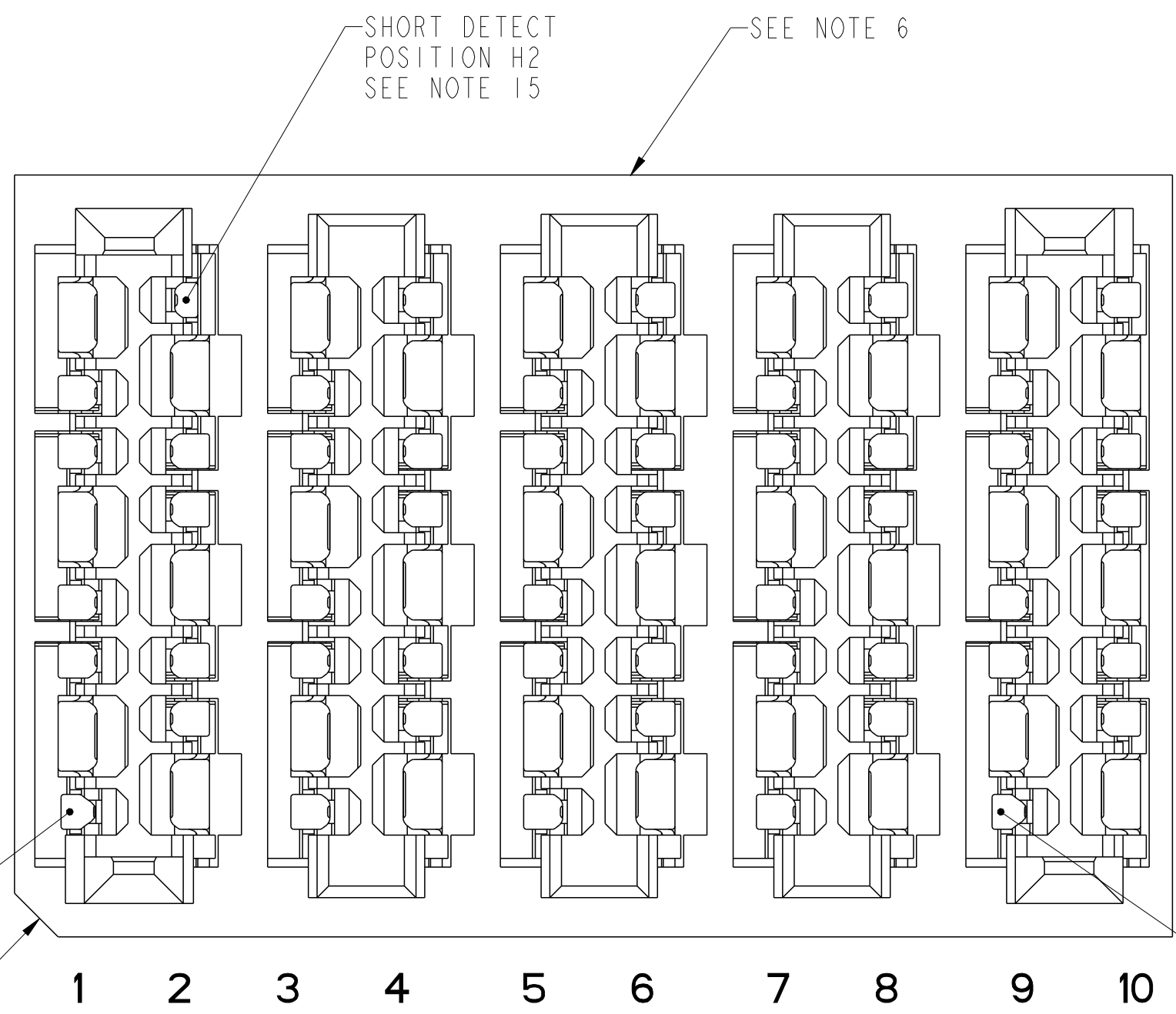
A1 CORNER CHAMFER

10124414-301YLF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS H2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

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spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	appr			Heaven Cen	2020/05/20	product family	ExaMAX	rel level
surface	-	linear	0.X	±.3		title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA	dwg no 10124414	rev D			
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±2°		cat. no.	SEE TABLE	Product - Customer Drw	sheet 4 of 11		



ADVANCE MATE POSITION A1
SEE NOTE 15

AI CORNER CHAMFER

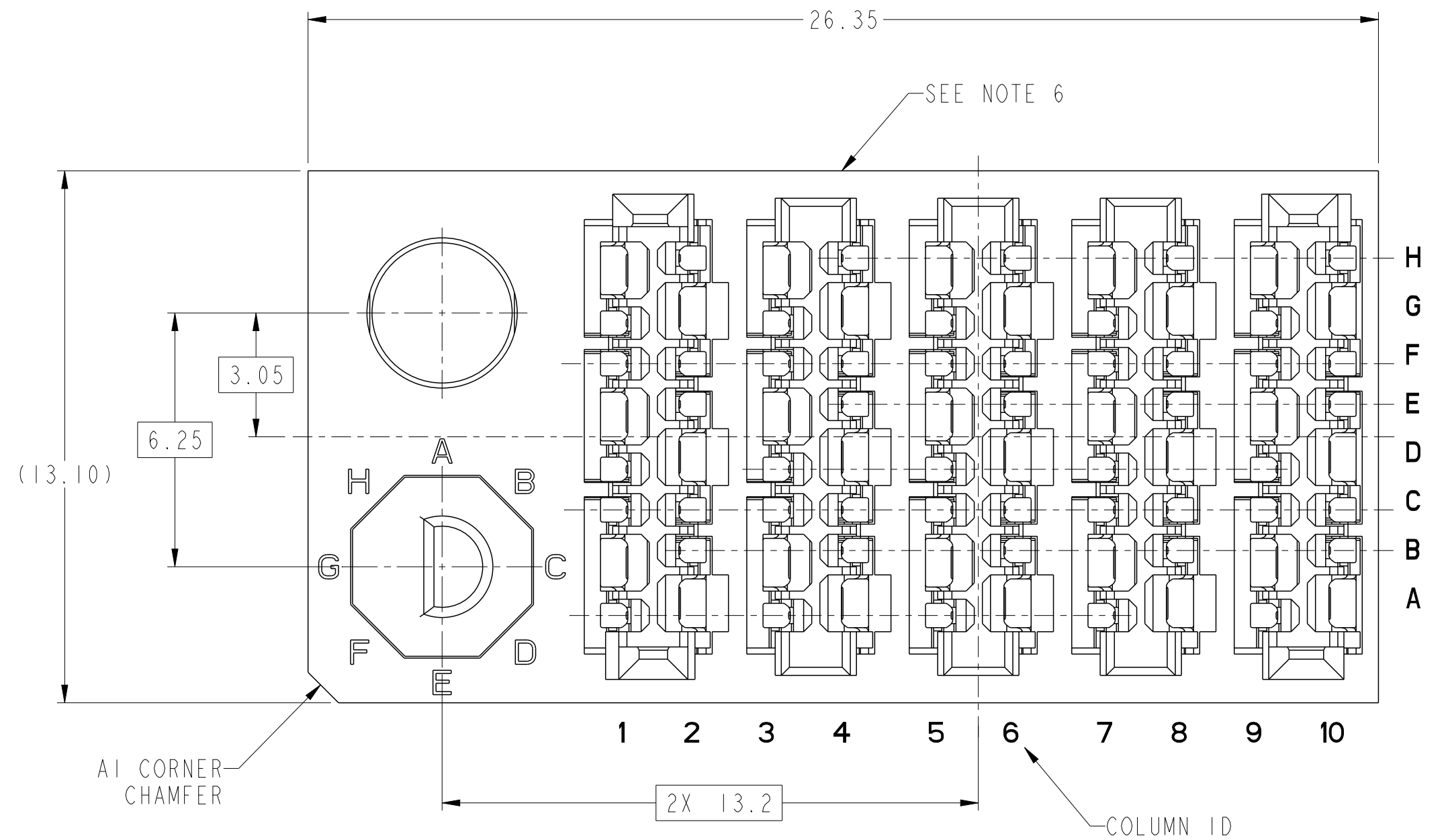
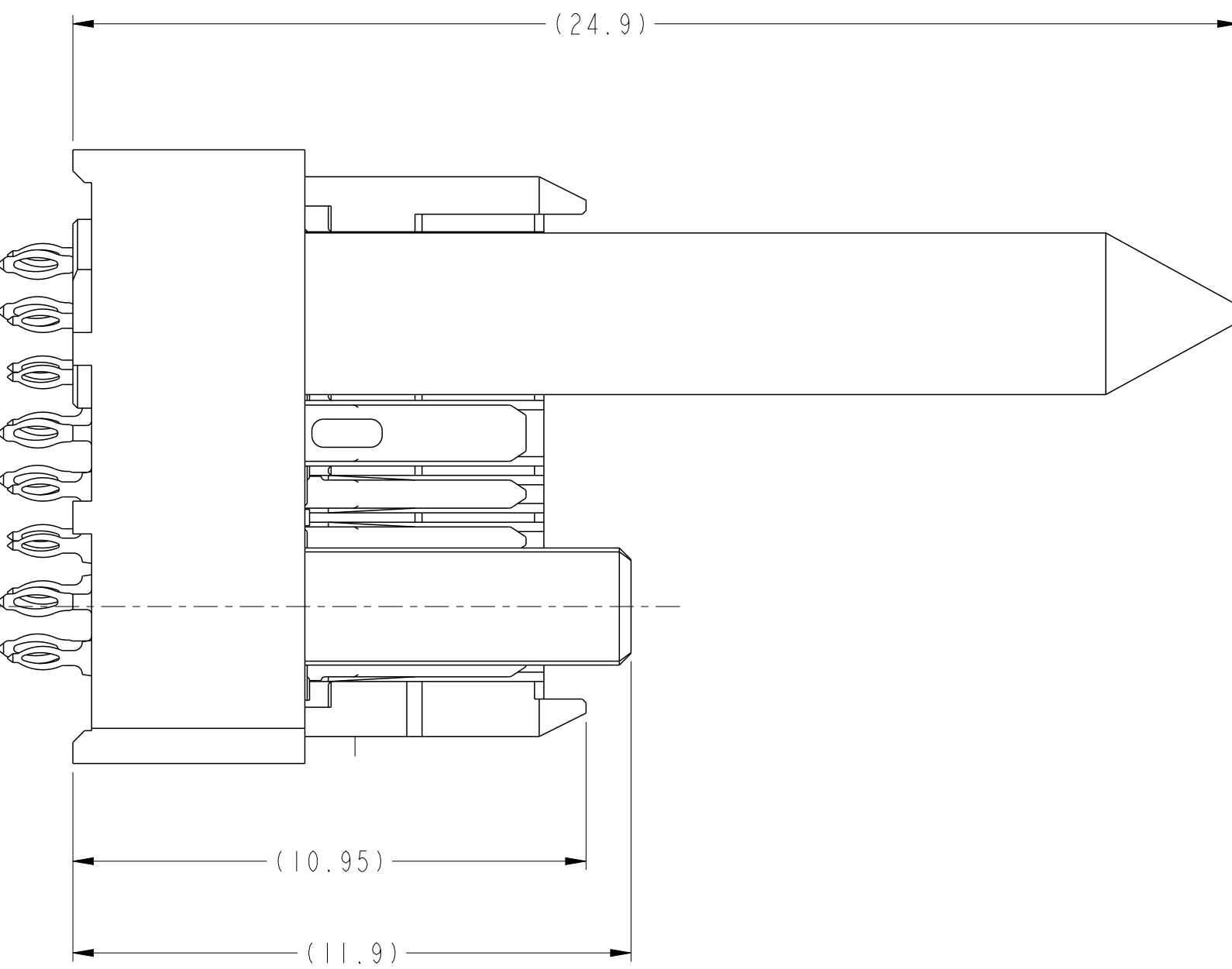
ADVANCED MATE POSITION A9
SEE NOTE 15

10124414-401YLF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
SHORT DETECT POSITION IS H2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

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spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1		
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				
	linear	0.X	±.3		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA	dwg no 10124414	rev D					
		0.XX	±.10					cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 11	
	angular	0°	±2°									



10124414-Y1AYLF THRU -Y1JYLF
 RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
 FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/05/20		MM	ecn no	ELX-DG-37058-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	app							Heaven Cen
surface	-	linear	0.X	±.3		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA	dwg no 10124414	rev D	cat. no. SEE TABLE	Product - Customer Drw	sheet 6 of 11
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±2°							

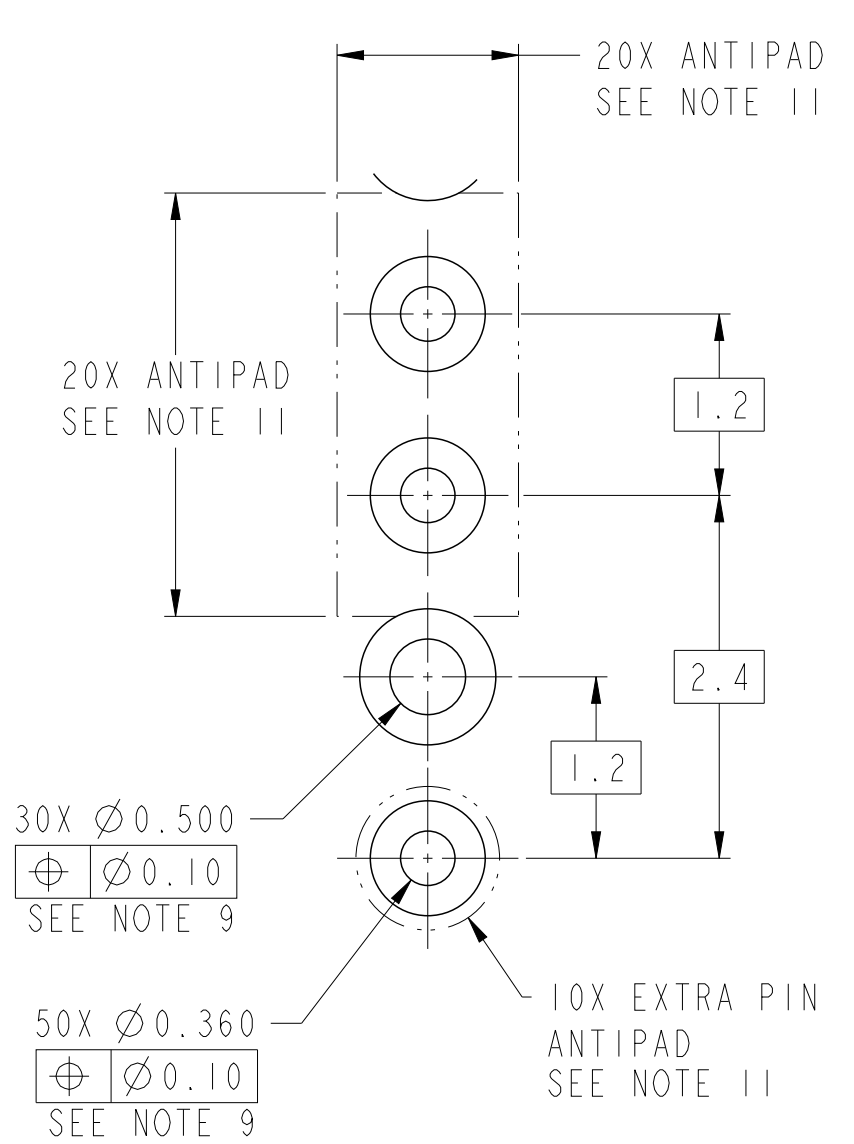
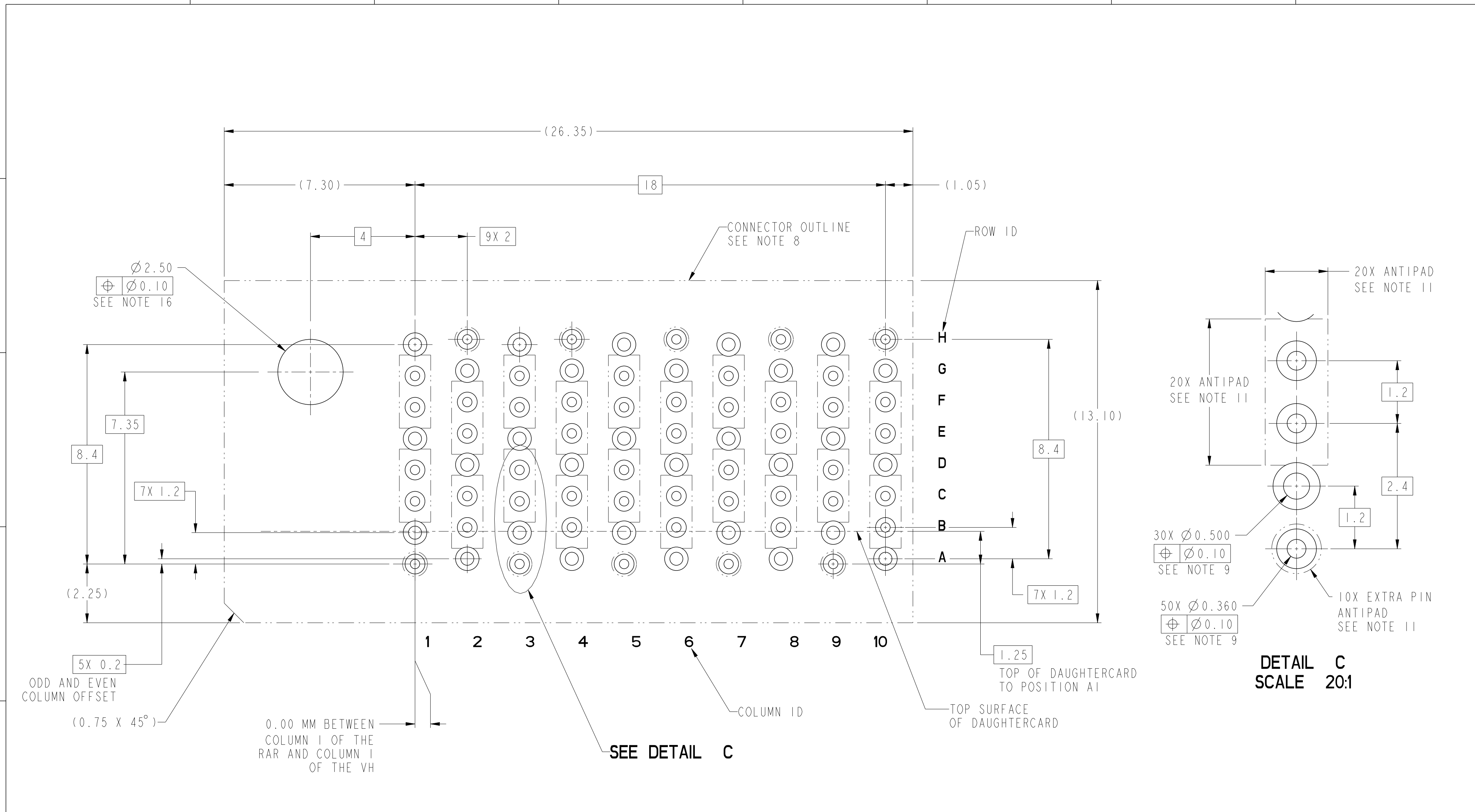
PDS: Rev :D

STATUS:Released

Printed: May 20, 2020

Amphenol
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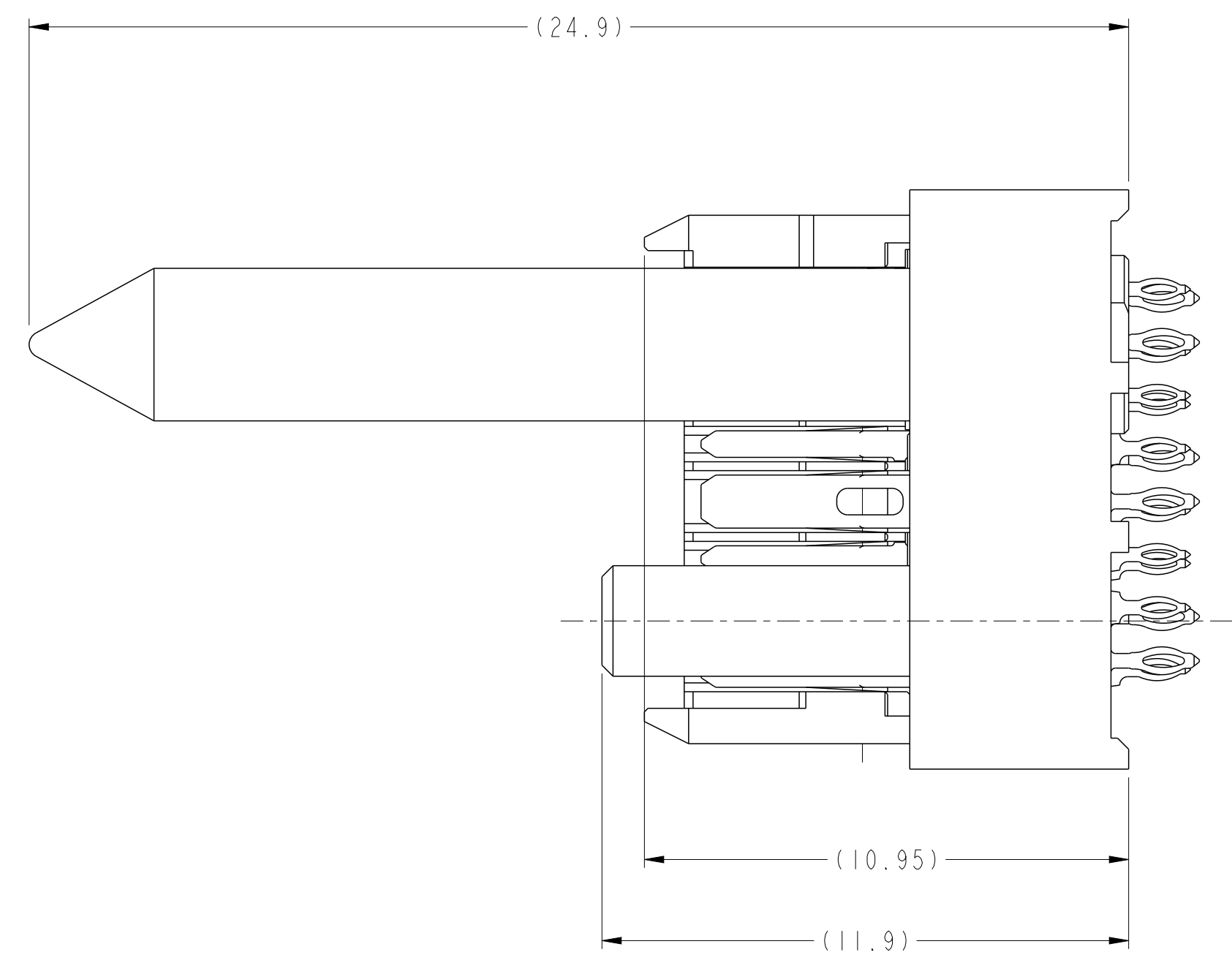
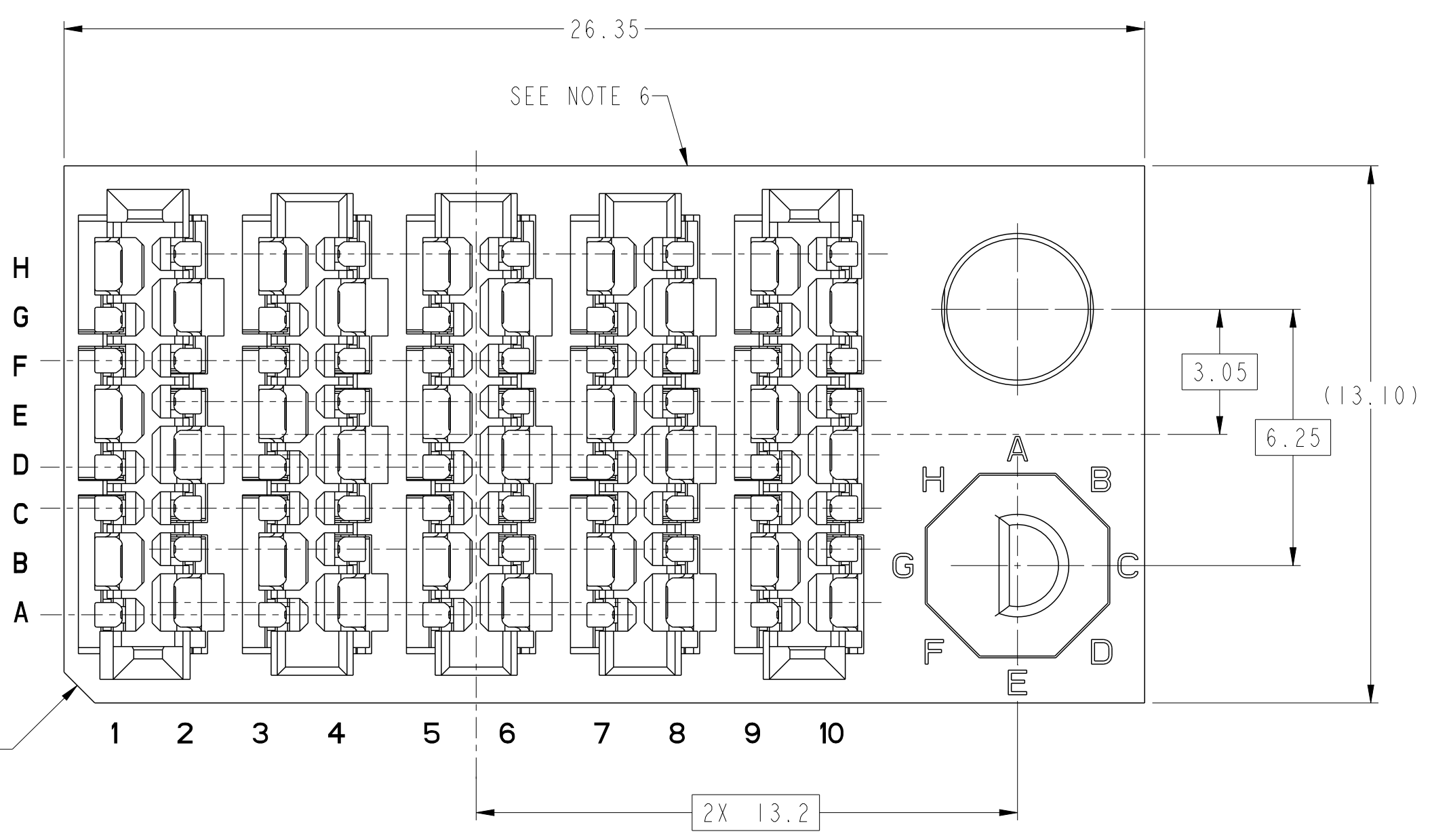
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DETAIL C
SCALE 20:1

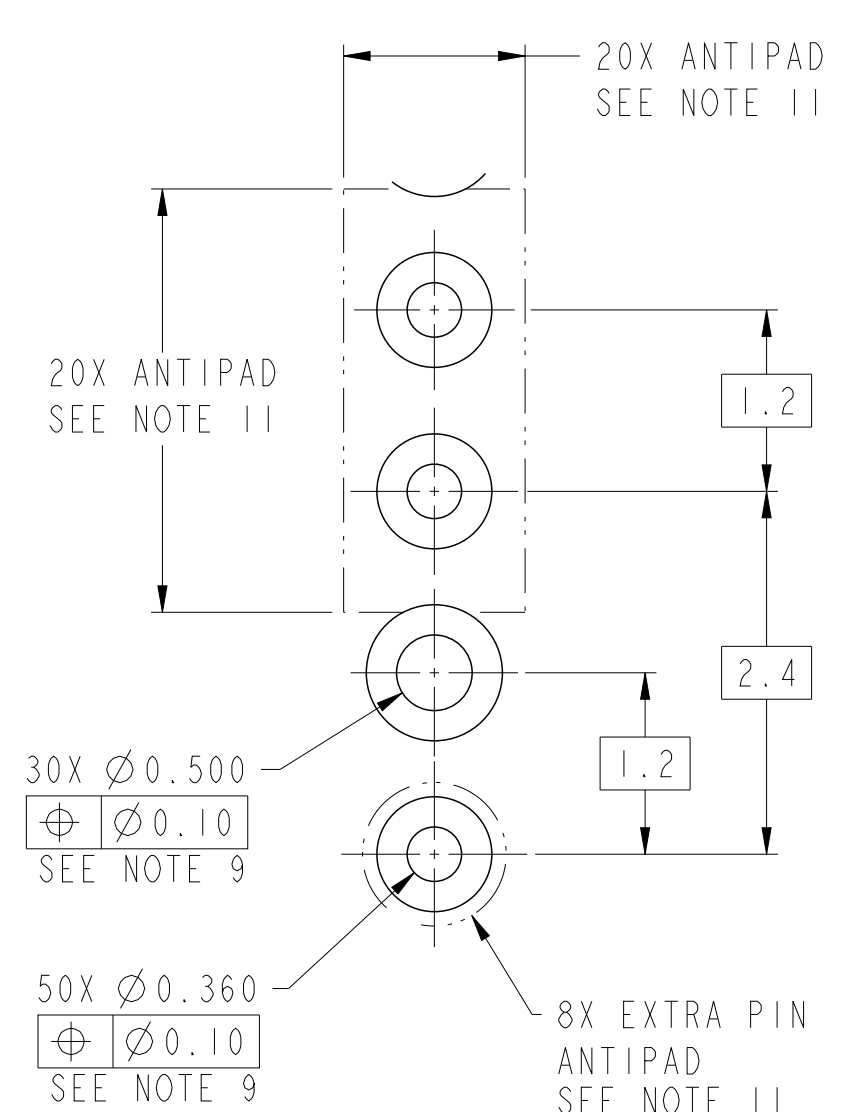
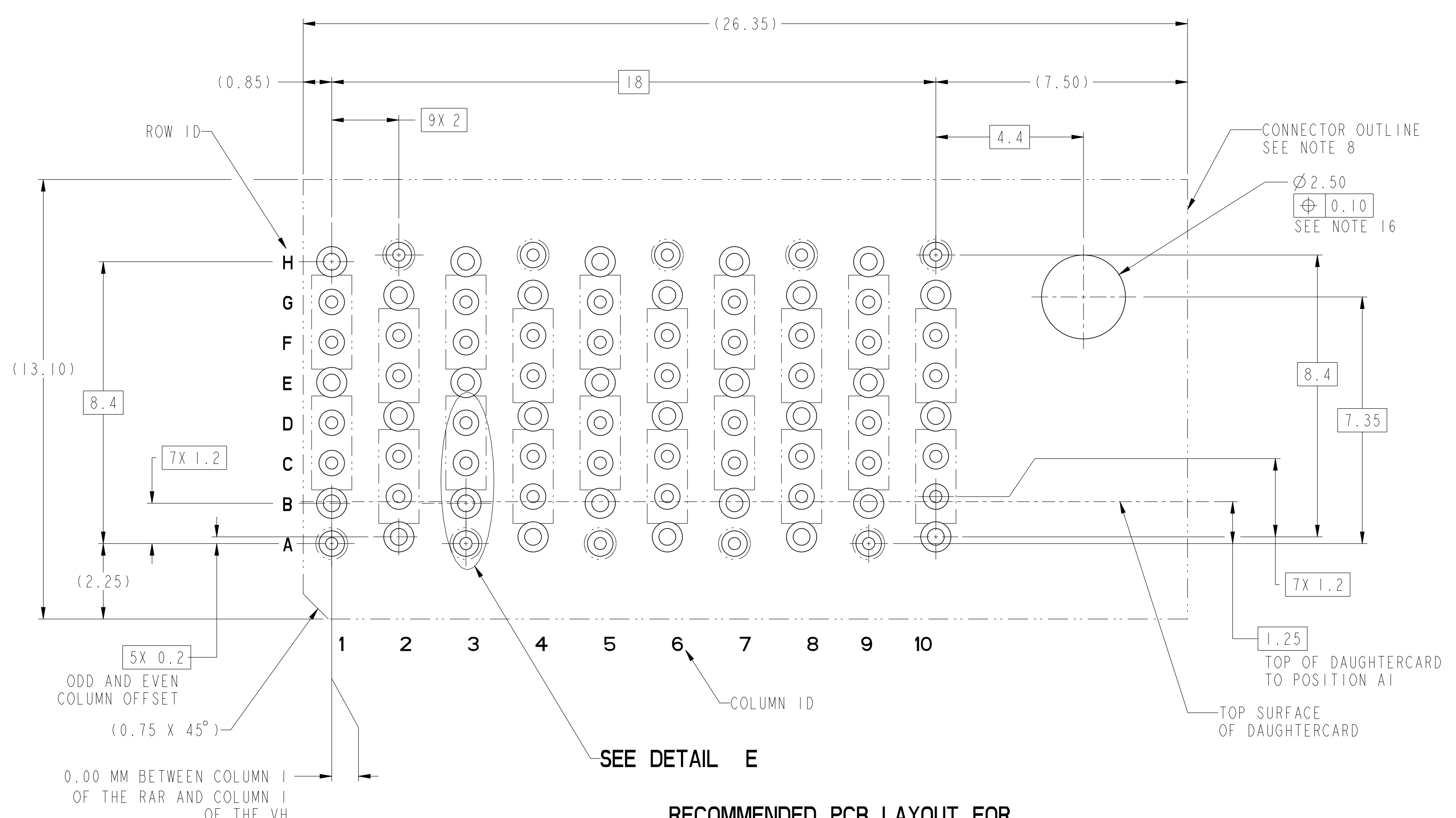
RECOMMENDED PCB LAYOUT FOR
10124414-Y1YYLF
COMPONENT SIDE
SEE NOTES 8, 9, 11 & 16

spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1				
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	product family				ExaMAX	rel level	Released		
surface	-	appr	Heaven Cen							2020/05/20	cat. no.	SEE TABLE
	linear	0.X	±.3		title		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA	dwg no 10124414	rev D			
		0.XX	±.10		PDS: Rev :D	STATUS:Released				Printed: May 20, 2020		
		0.XXX	±.050									
	angular	0°	±2°									



10124414-Y2AYLF THRU -Y2JYLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL DIMENSIONS SEE SHEET 1

spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1			
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					
		appr	Heaven Cen				product family	ExaMAX					
surface	✓	linear	0.X	±.3		title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA	dwg no 10124414	rev D					
			0.XX	±.10					cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11	
		angular	0°	±2°									



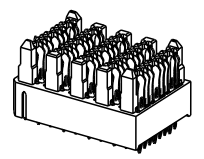
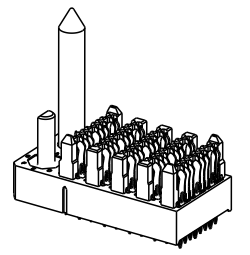
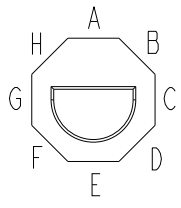
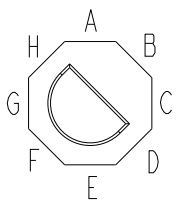
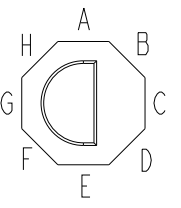
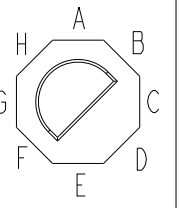
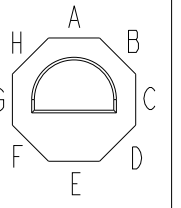
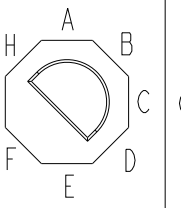
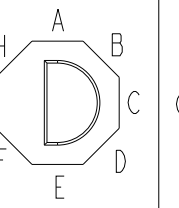
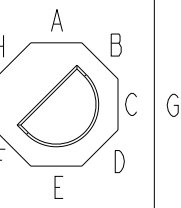
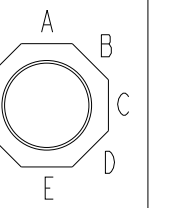
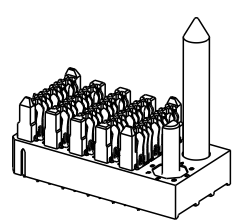
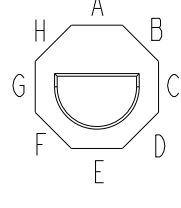
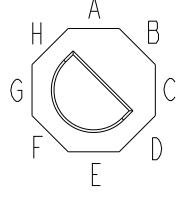
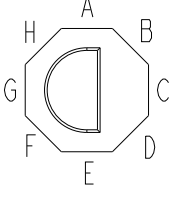
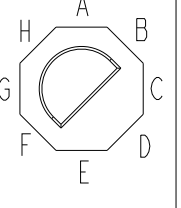
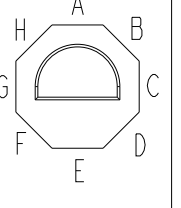
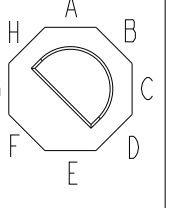
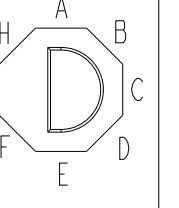
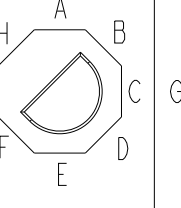
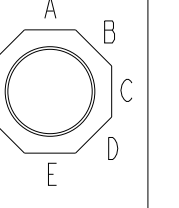
**RECOMMENDED PCB LAYOUT FOR
10124414-Y2YYLF
COMPONENT SIDE
SEE NOTES 8, 9, 11, & 16**

spec ref	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	10:1	
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/05/20			ecn no	ELX-DG-37058-1	rel level	Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	product family							ExaMAX
surface	-	appr	Heaven Cen	2020/05/20							title
	linear	0.X	±.3		cat. no.	SEE TABLE	Product - Customer Drw	sheet 9 of 11			
		0.XX	±.10								
		0.XXX	±.050								
	angular	0°	±2°								

10124414 - Y Y Y Y L F

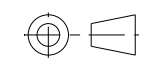
PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10124414-1YYLFF	STANDARD MATE
10124414-2YYLFF	ADVANCED MATE
10124414-3YYLFF	SHORT DETECT
10124414-4YYLFF	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	---	dr	Daniel Xiao	2014/01/21	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	-	app			Heaven Cen	2020/05/20	product family	ExaMAX	rel level	Released	
surface	- ✓	linear	0.X	±.3	Amphenol FCI	title	ExaMAX VERTICAL HEADER			dwg no	10124414	rev	D
			0.XX	±.10			ASS'Y, 2 PAIR, 80 POS, 10 IMLA						
			0.XXX	±.050			cat. no.	SEE TABLE	Product - Customer Drw				
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, (PROTOTYPE, PART NUMBER & LOT CODE), ON THIS SURFACE.
- ⑦ - THE MINIMUM CENTERLINE SPACING BETWEEN ADJACENT MODULES IS 20.0 mm FOR 10124414-101YLF.
- 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, 10124414-2XXXLF, WHEN MATED WITH AN ADVANCED MATE RIGHT ANGLE RECEPTACLE, 10124413-2XXXLF, 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, 10124414-3XXXLF, WHEN MATED WITH A RIGHT ANGLE RECEPTACLE, 10124413-1XXXLF, 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, 10124414-4XXXLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE, 10124413-2XXXLF, 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 INTERGRATED 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	---	dr	Daniel Xiao	2014/01/21	projection	MM	size	A2	scale	2:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2020/05/20		← →	ecn no	ELX-DG-37058-1				
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	appr			Heaven Cen	2020/05/20	product family	ExaMAX	rel level	Released
surface	✓	linear	0.X	±.3	Amphenol FCI	title	ExaMAX VERTICAL HEADER			rev	D	
			0.XX	±.10			dwg no	10124414				
			0.XXX	±.050				cat. no.	SEE TABLE			Product - Customer Drw
		angular	0°	±2°								