

PRODUCT NUMBER
SEE SHEET 10

ODD COLUMN,
CONTACT ROW ID
ODD AND EVEN COLUMNS
ARE OFFSET

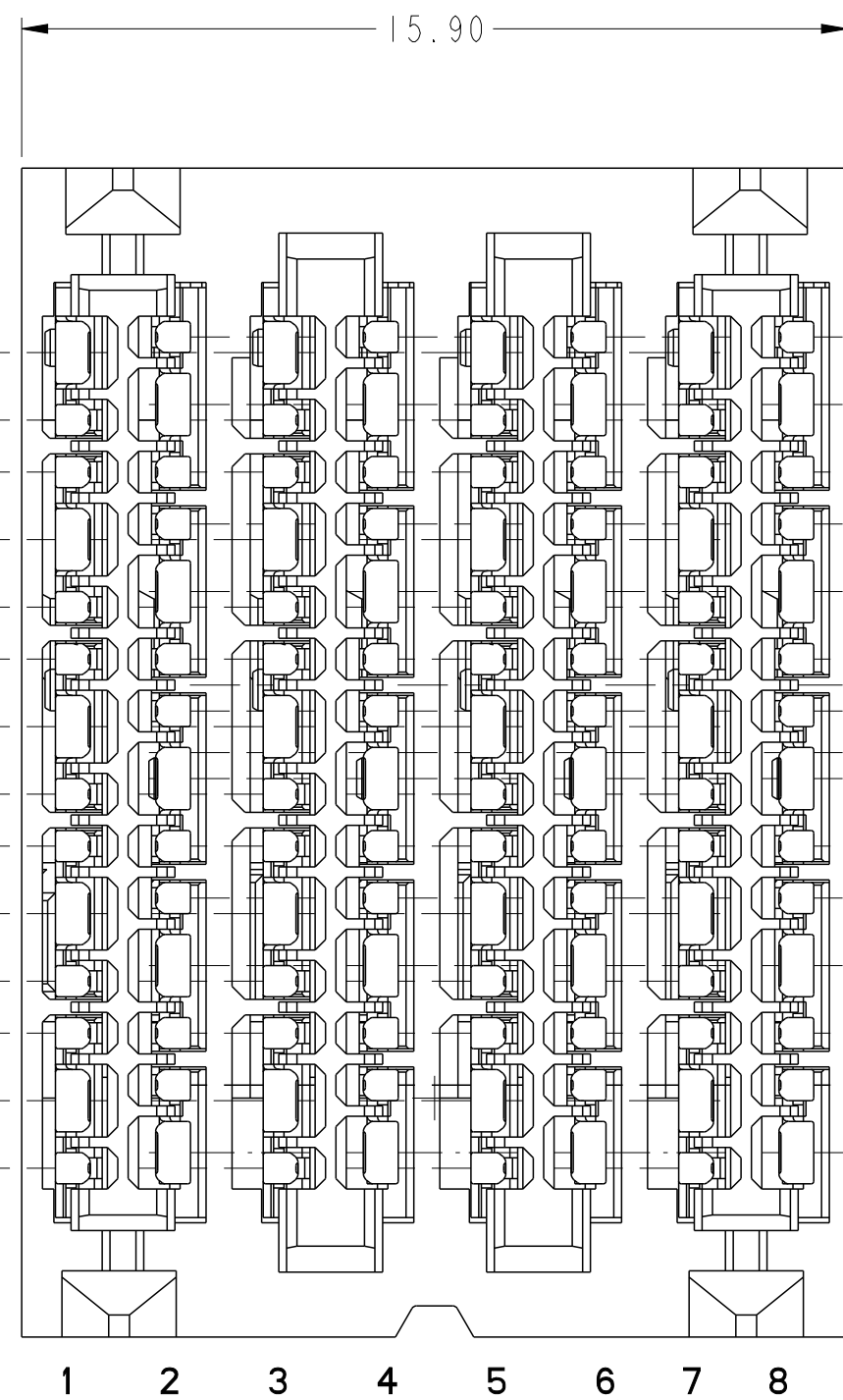
4X 3.6
GROUND CENTERS

4X 1
SIGNAL PAIR
CENTERS

1.3
ROW A TO
FIRST GROUND

4X 3.6
SIGNAL CENTERS

10128419-Y01YLF
(10128419-101YLF STANDARD MATE CONNECTOR SHOWN)



EVEN COLUMN,
CONTACT ROW ID

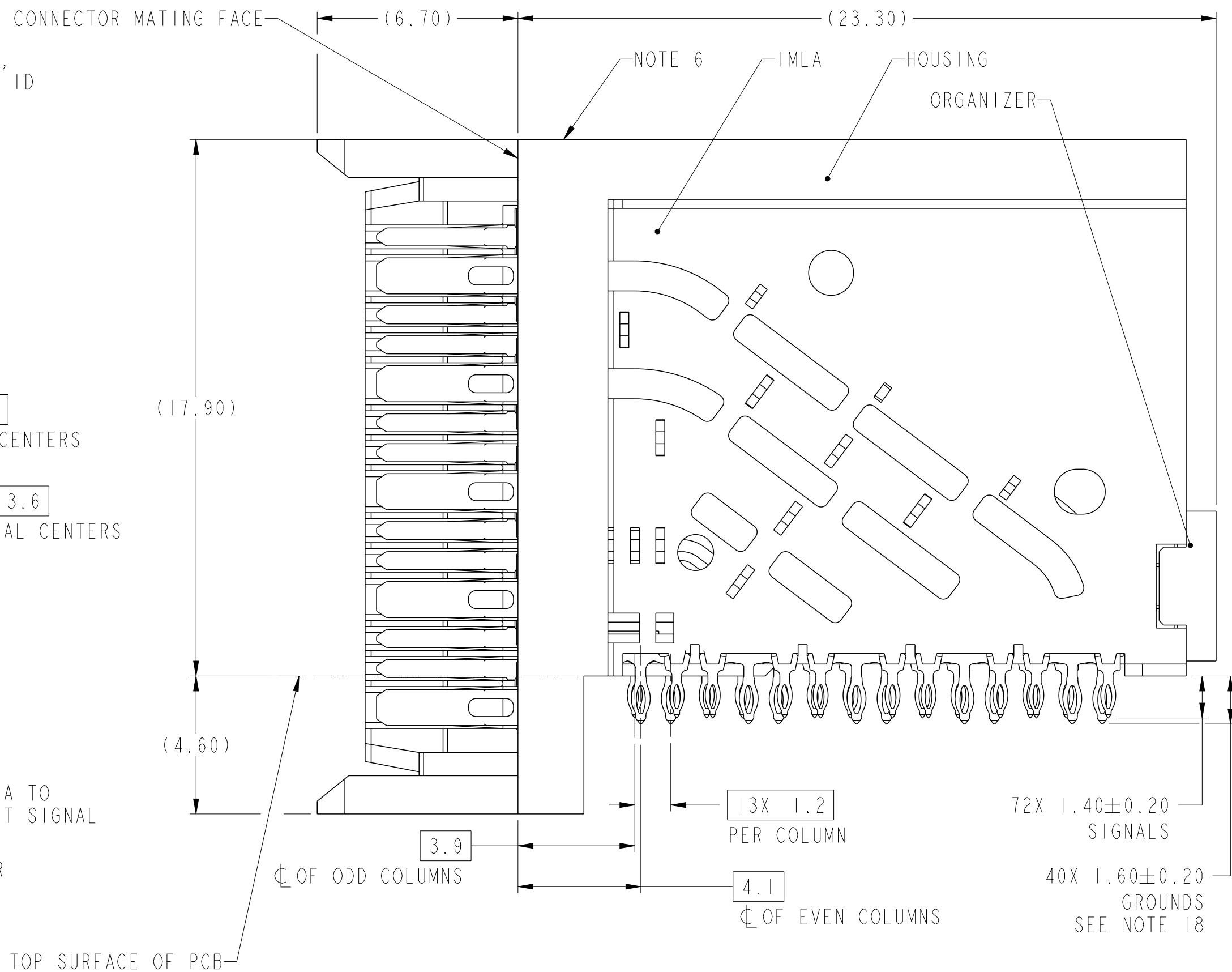
4X 3.6
GROUND CENTERS

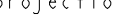


4X 3.6
SIGNAL CENTERS

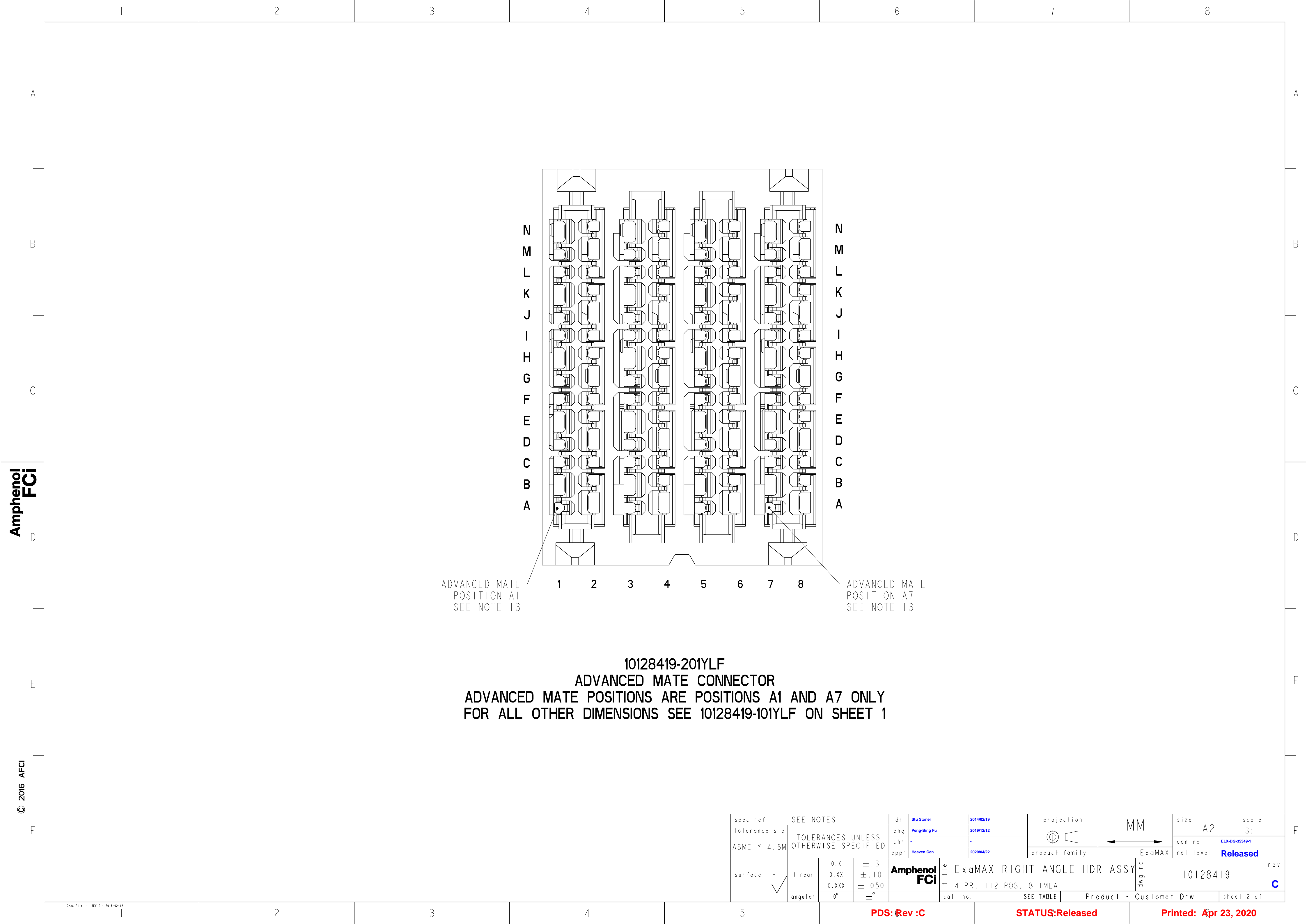
1.3
ROW A TO
FIRST SIGNAL

4X 1
SIGNAL PAIR
CENTERS

COLUMN ID





spec ref		SEE NOTES		dr	Stu Stoner	2014/02/19			size	A2	scale	7:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1			
ASME Y14.5M				chr	-	-			rel level	Released			
				appr	Heaven Cen	2020/04/22	product family		ExaMAX				
surface - 	linear	0.X	±.3	Amphenol FCi	title	ExaMAX RIGHT-ANGLE HDR ASSY			dwg no	10128419		rev	C
		0.XX	±.10										
		0.XXX	±.050										
	angular	0°	±°										
				cat. no.	SEE TABLE	Product - Customer Drw		sheet 1 of 11					



ADVANCED MATE POSITION A1
SEE NOTE 13

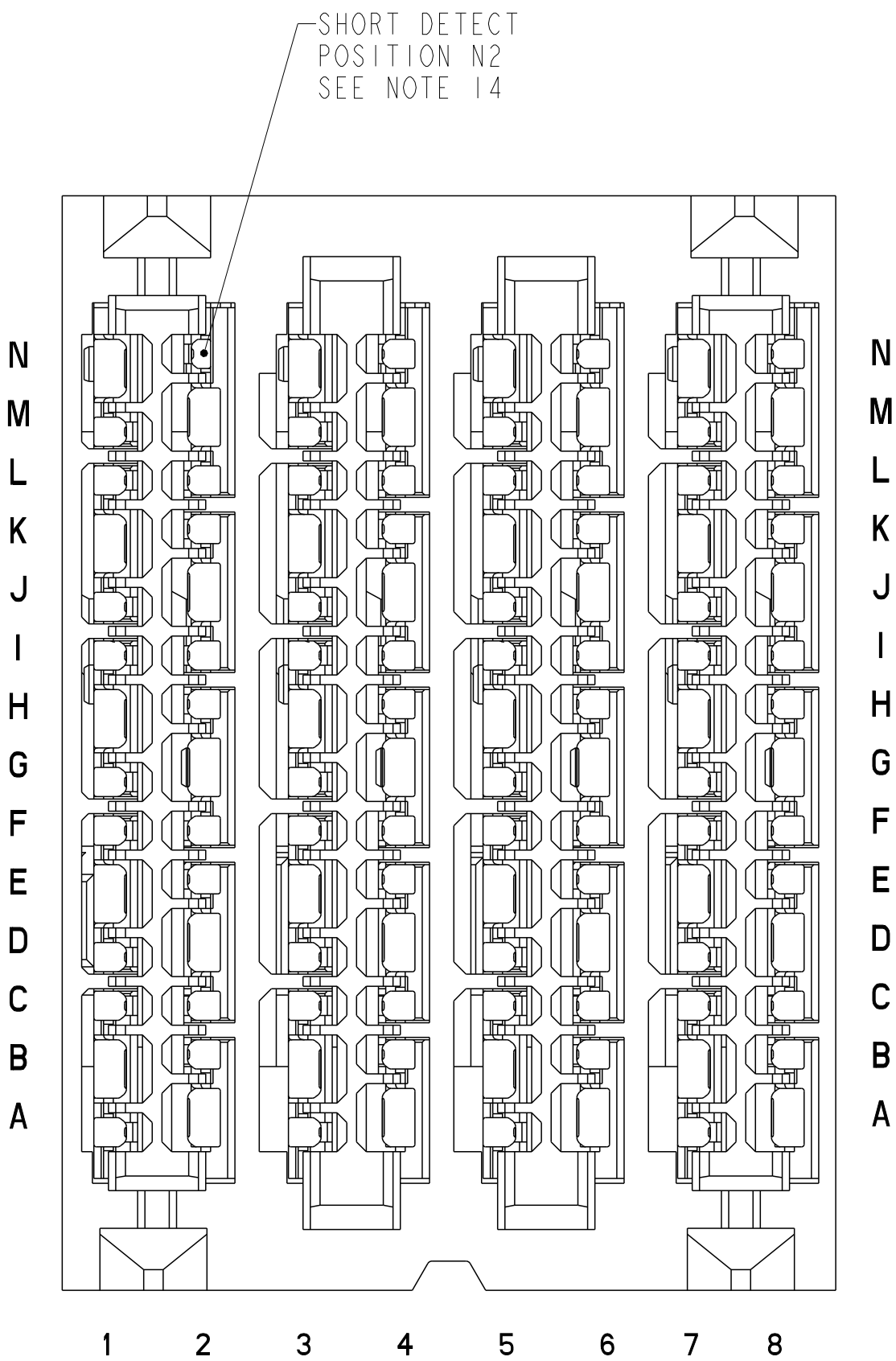
ADVANCED MATE POSITION A7
SEE NOTE 13

10128419-201YLF
ADVANCED MATE CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A7 ONLY
FOR ALL OTHER DIMENSIONS SEE 10128419-101YLF ON SHEET 1

spec ref		SEE NOTES			dr		Stu Stoner		2014/02/19		projection		MM		size		A2		scale		3:1												
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2019/12/12						ecn no		ELX-DG-35549-1																
ASME Y14.5M					chr		-		-						rel level		Released																
					appr		Heaven Cen		2020/04/22		product family						ExaMAX																
<div>surface</div> <div>-</div> <div>✓</div>		linear		0.X		±.3		Amphenol FCI		title		ExaMAX RIGHT-ANGLE HDR ASSY										dwg no		10128419						rev		C	
				0.XX		±.10																											
				0.XXX		±.050																											
				angular		0°						±°		cat. no.		SEE TABLE		Product - Customer Drw						sheet 2 of 11									

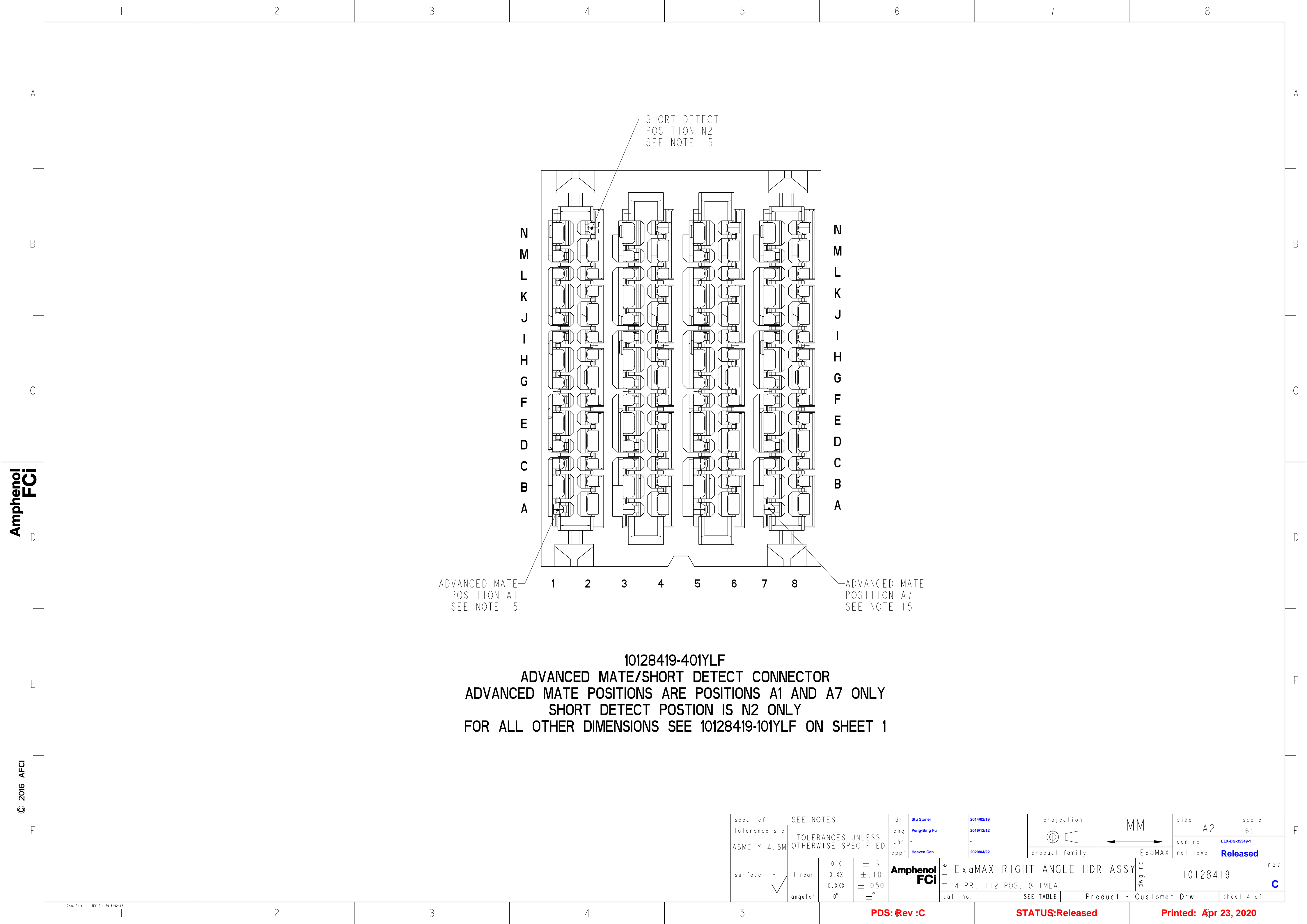
Amphenol
FCi

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10128419-301YLF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS N2 ONLY
FOR ALL OTHER DIMENSIONS SEE 10128419-101YLF ON SHEET 1

spec ref		SEE NOTES			dr		Stu Stoner		2014/02/19		projection		MM		size		A2		scale		6:1												
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2019/12/12						ecn no		ELX-DG-35549-1																
ASME Y14.5M					chr		-		-						rel level		Released																
					appr		Heaven Cen		2020/04/22						product family		ExaMAX																
surface - 		linear		0.X		±.3		Amphenol FCi		title		ExaMAX RIGHT-ANGLE HDR ASSY										dwg no		10128419						rev		C	
				0.XX		±.10																											
				0.XXX		±.050																											
		angular		0°		±°						cat. no.		SEE TABLE		Product - Customer Drw										sheet 3 of 11							



Amphenol
FCi

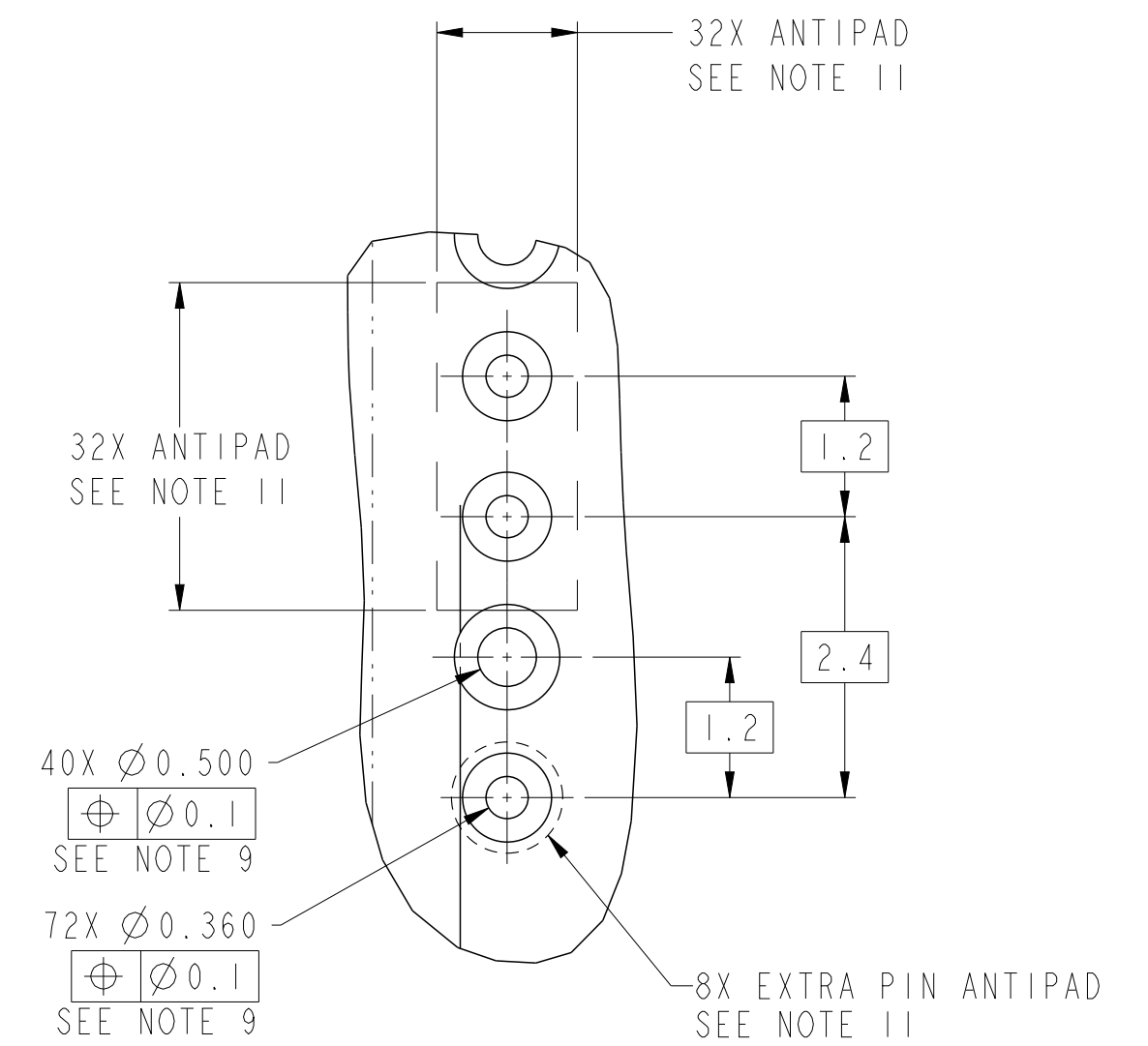
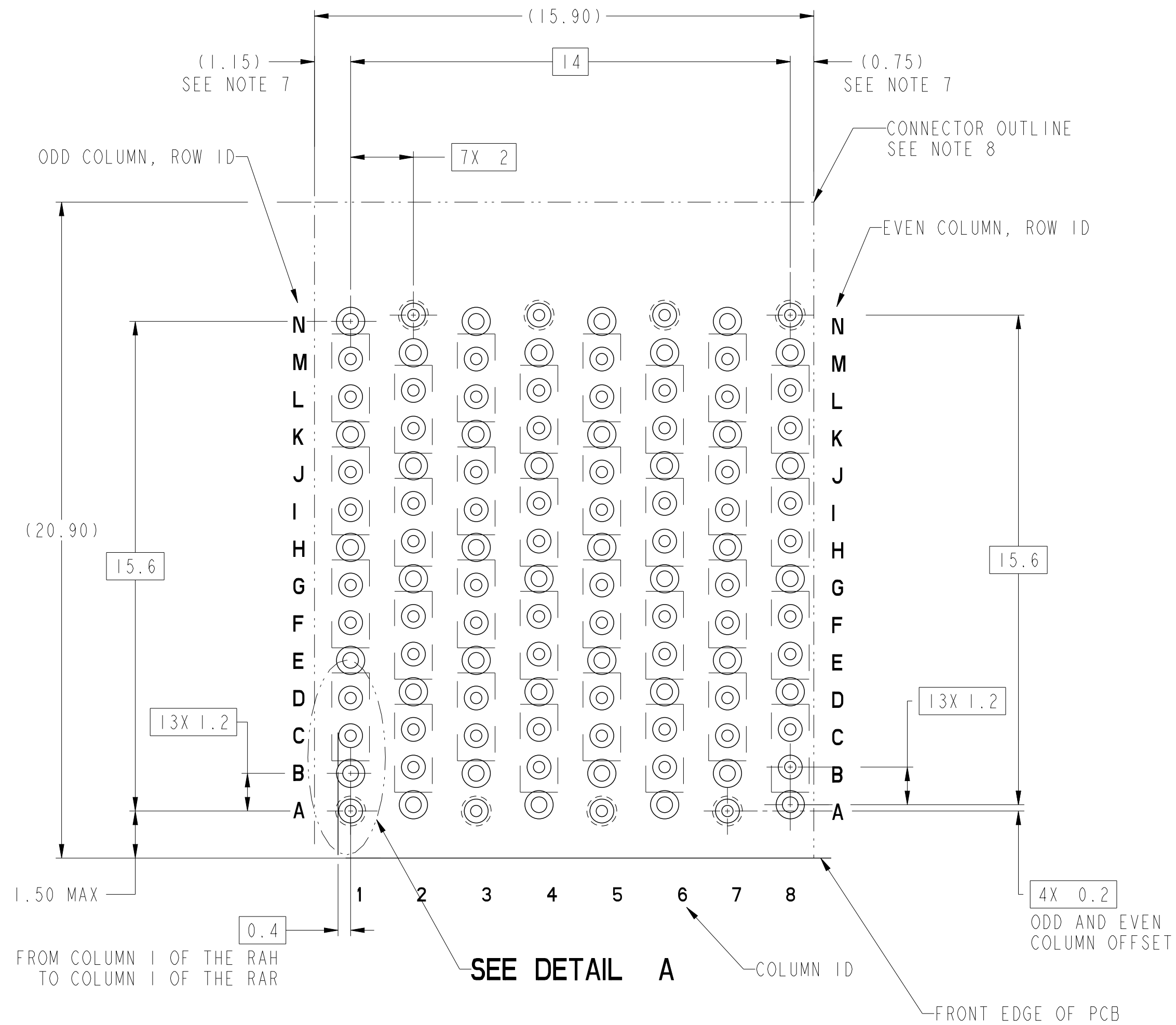
© 2016 APCI

spec ref	SEE NOTES			dr	Shu Stoner	2014/02/19	projection 		size	A2	scale	6:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1			
ASME Y14.5M				chr	-	-			rel level	Released			
				appr	Heaven Cen	2020/04/22	product family		ExaMAX				
surface - 	linear	0.X	±.3	Amphenol FCI	title	ExaMAX RIGHT-ANGLE HDR ASSY					dwg no	10128419	rev C
		0.XX	±.10										
		0.XXX	±.050			4 PR, 112 POS, 8 IMLA							
	angular	0°	±°										
				cat. no.	SEE TABLE	Product - Customer Drw					sheet 4 of 11		

PDS: Rev :C

STATUS:Released

Printed: Apr 23, 2020





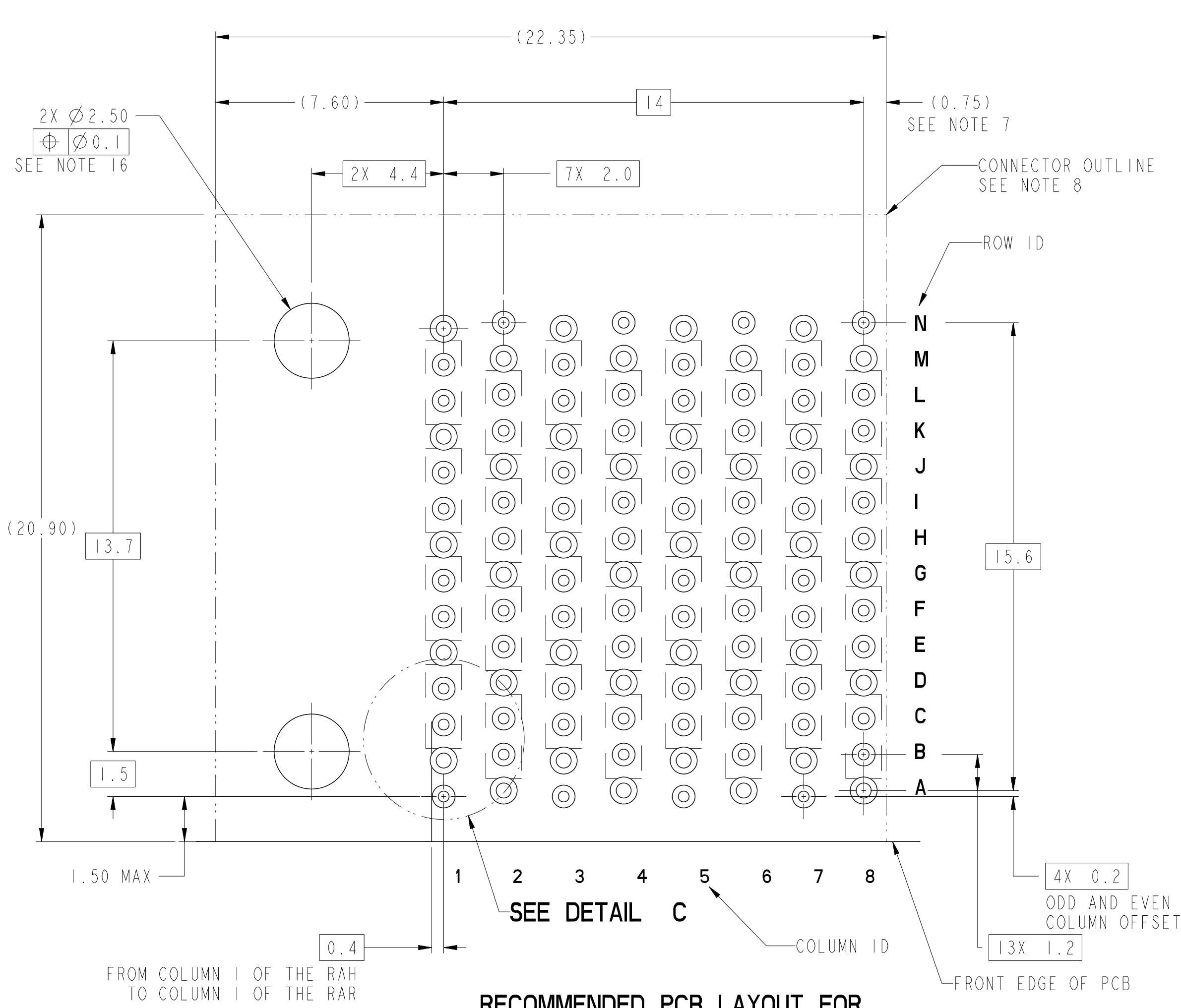
DETAIL A
SCALE 16:1

RECOMMENDED PCB LAYOUT FOR
10128419-Y01YLF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11

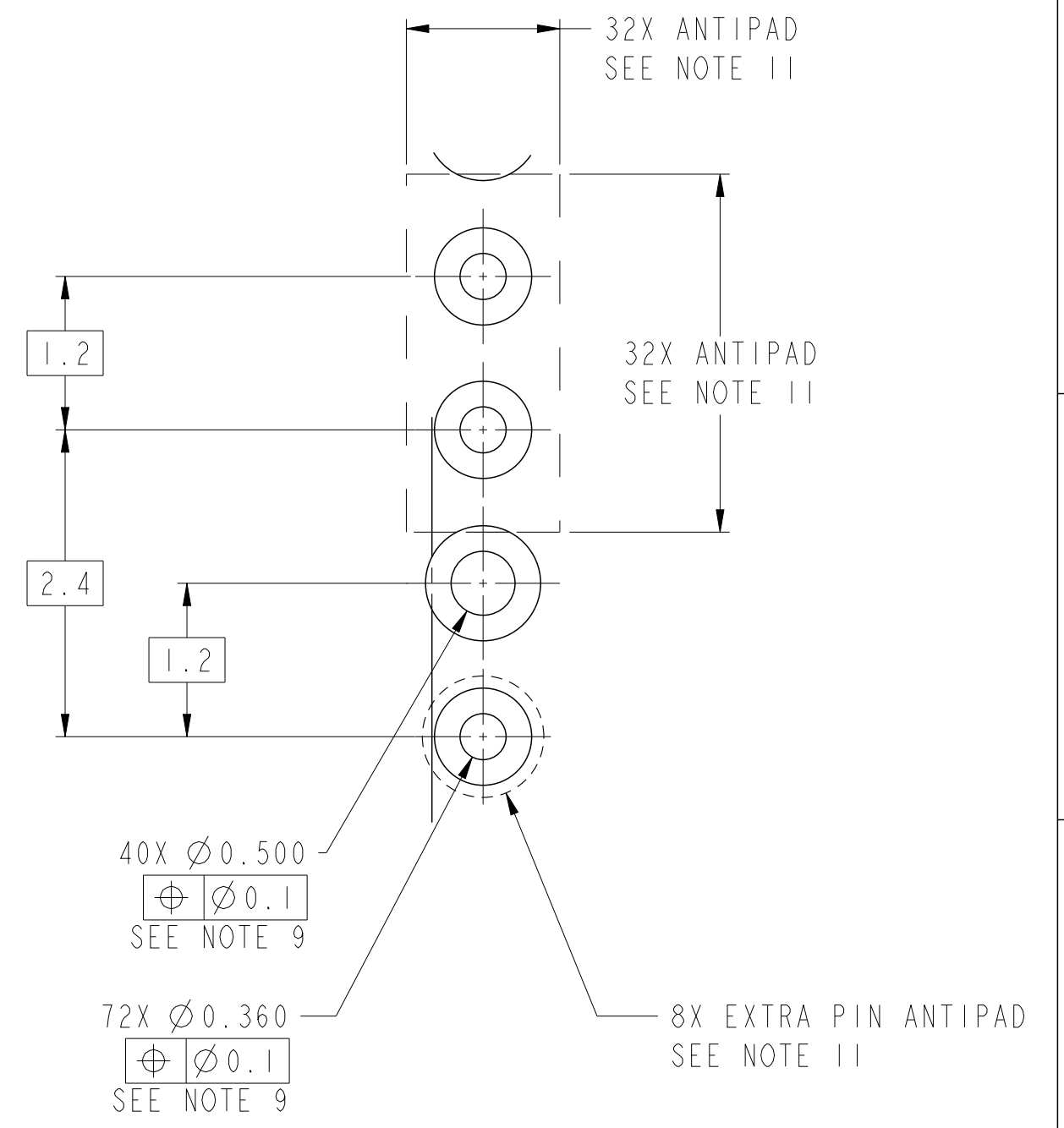
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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2019/12/12				A2		1:1							
ASME Y14.5M				chr		-		-				ecn no		ELX-DG-35549-1							
				appr		Heaven Cen		2020/04/22		product family		ExaMAX		rel level		Released					
surface - 		linear		Amphenol FCI		file		ExaMAX RIGHT-ANGLE HDR ASSY 4 PR, 112 POS, 8 IMLA				dwg no		10128419		rev		C			
		0.X																		±.3	
		0.XX																		±.10	
		angular				cat. no.		SEE TABLE		Product-		Customer Drw		sheet 5 of 11							

10128419-Y1AYLF THRU -Y1JYLF
RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref		SEE NOTES			dr		Stu Stoner		2014/02/19		projection		size		scale								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2019/12/12				A2		6:1								
ASME Y14.5M					chr		-		-				ecn no		ELX-DG-35549-1								
					appr		Heaven Cen		2020/04/22				product family		ExaMAX		rel level		Released				
surface		- 		linear		0.X		±.3		Amphenol FCi		title		ExaMAX RIGHT-ANGLE HDR ASSY		dwg no		10128419		rev		C	
				0.XX		±.10																	
				0.XXX		±.050																	
				angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 6 of 11					

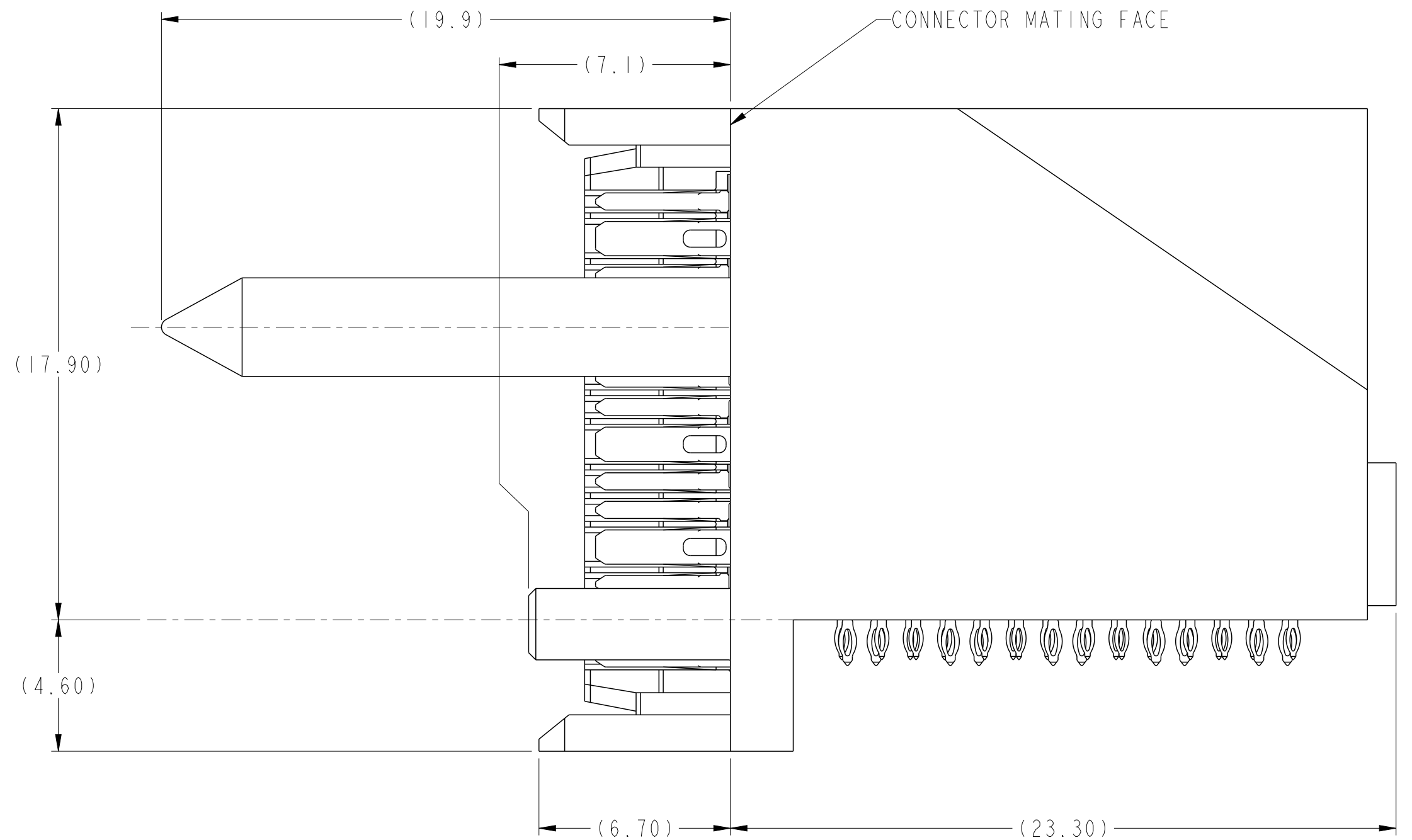
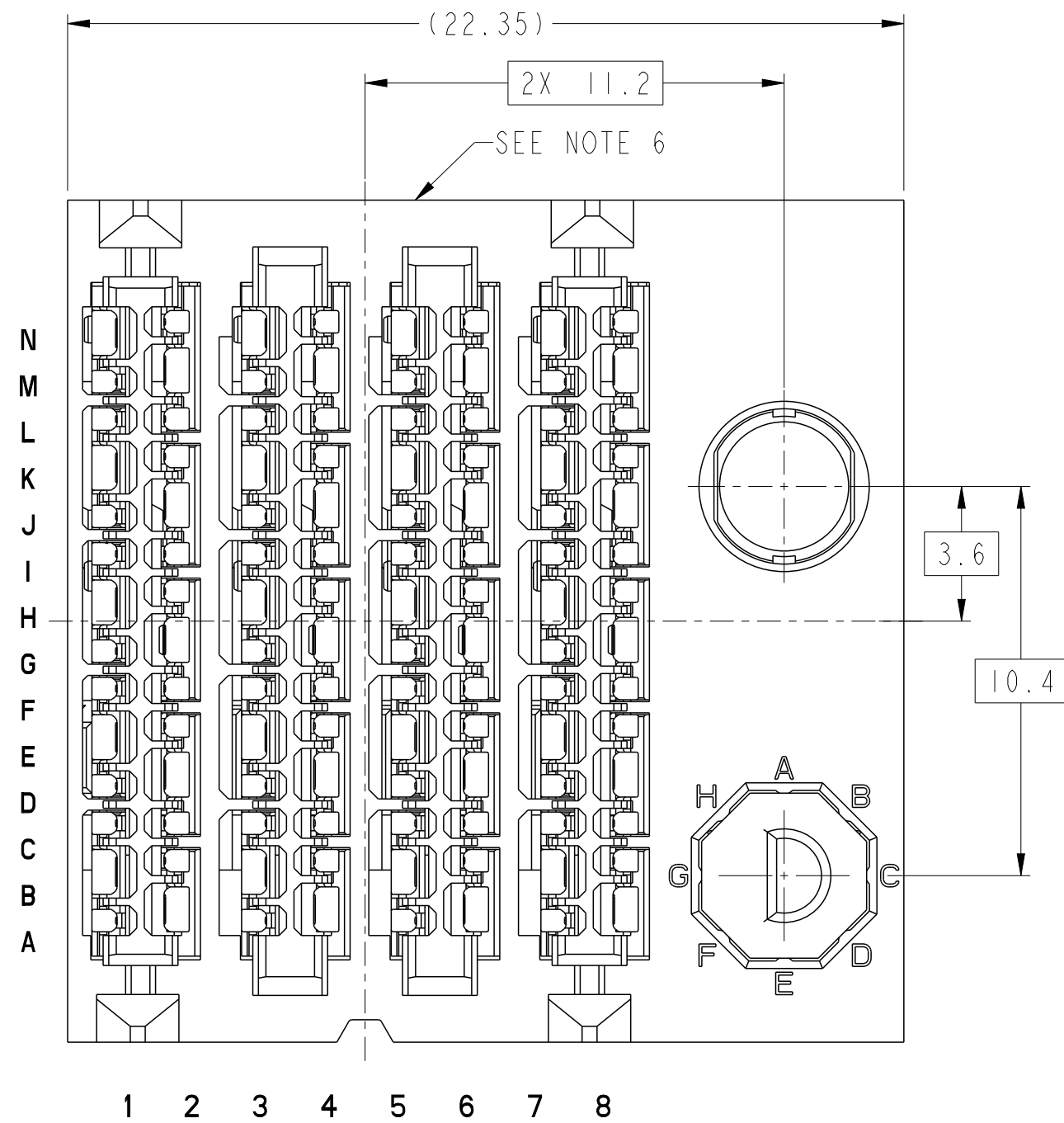


RECOMMENDED PCB LAYOUT FOR
10128419-Y1AYLF THRU -Y1JYLF
w/RIGHT GUIDANCE COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16



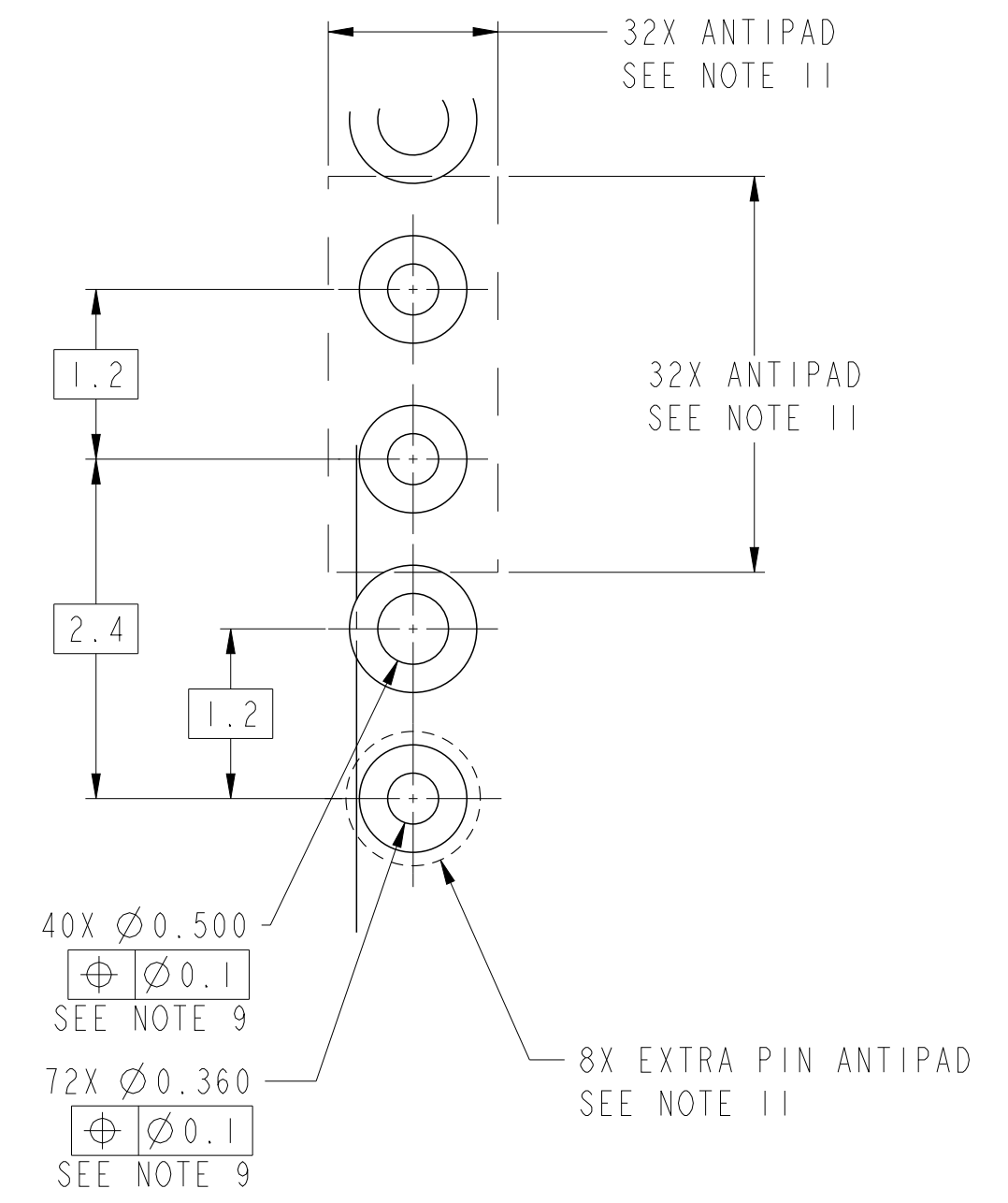
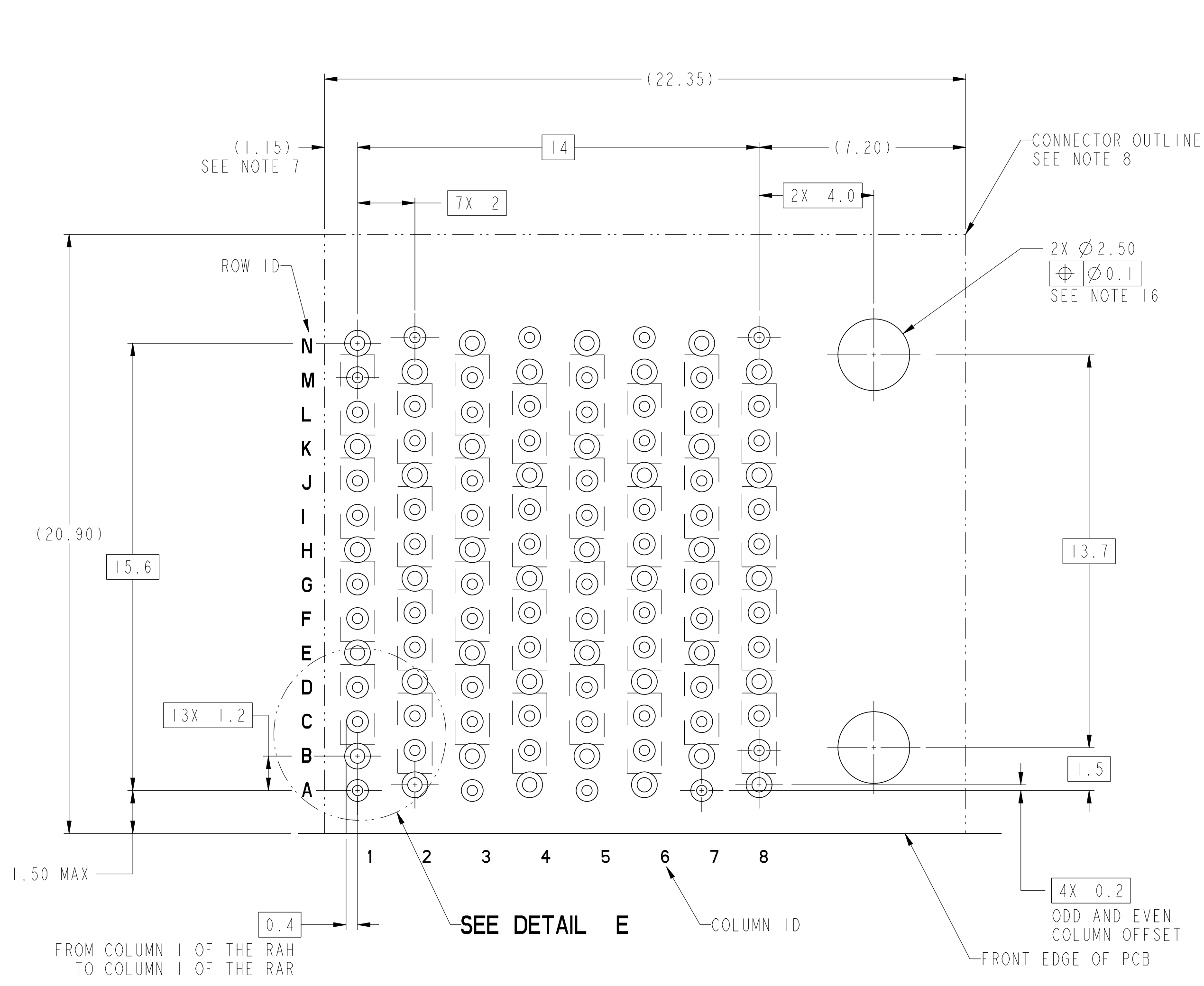
DETAIL C
SCALE 20:1

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tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2019/12/12						ecn no		ELX-DG-35549-1																				
ASME Y14.5M					chr		-		-						rel level		Released																				
					appr		Heaven Cen		2020/04/22		product family										ExaMAX																
surface -		linear		0.X		±.3		Amphenol FCI		title		ExaMAX RIGHT-ANGLE HDR ASSY										dwg no		10128419										rev		C	
				0.XX		±.10																															
				0.XXX		±.050																															
				angular		0°		±°				cat. no.		SEE TABLE				Product - Customer Drw				sheet 7 of 11															



10128419-Y2AYLF THRU -Y2JYLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref		SEE NOTES			dr		Stu Stoner		2014/02/19		projection		MM		size		A2		scale		6:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2019/12/12						ecn no		ELX-DG-35549-1						
ASME Y14.5M					chr		-		-						product family		ExaMAX		rel level		Released		
		appr		Heaven Cen		2020/04/22																	
surface -		linear		0.X ±.3 0.XX ±.10 0.XXX ±.050		Amphenol FCi		title		ExaMAX RIGHT-ANGLE HDR ASSY					dwg no		10128419		rev		C		
		angular		0° ±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 8 of 11									



RECOMMENDED PCB LAYOUT FOR
10128419-Y2AYLF THRU -Y2JYLF
w/LEFT GUIDANCE COMPONENT SIDE
SEE NOTES 7, 8, 9, 11, & 16

spec ref		SEE NOTES			dr		Stu Stoner		2014/02/19		projection		MM		size		A2		scale		2:1								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2019/12/12						ecn no		ELX-DG-35549-1												
ASME Y14.5M					chr		-		-						rel level		Released												
					appr		Heaven Cen		2020/04/22						product family		ExaMAX												
surface -		linear		0.X		±.3		Amphenol FCI		title		ExaMAX RIGHT-ANGLE HDR ASSY										dwg no		10128419		rev		C	
				0.XX		±.10																							
				0.XXX		±.050																							
				angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 9 of 11											

A

B

C

D

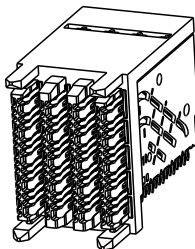
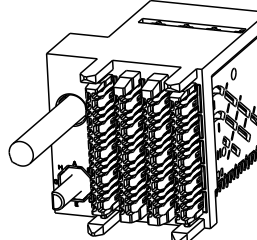
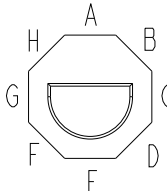
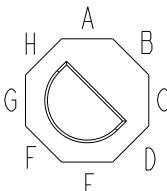
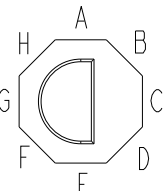
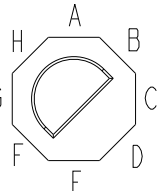
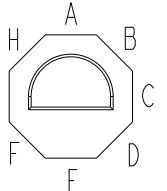
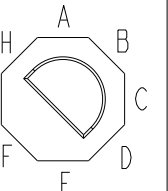
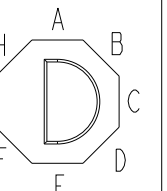
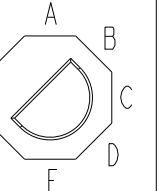
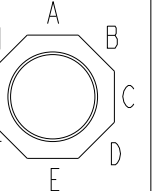
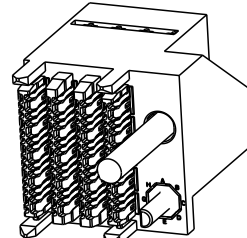
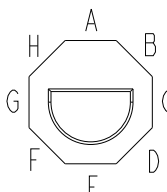
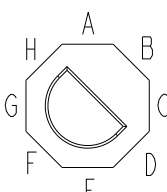
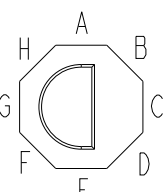
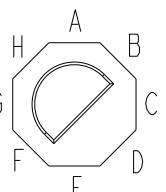
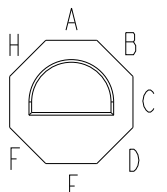
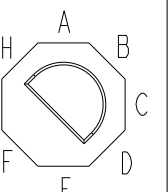
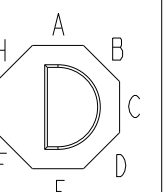
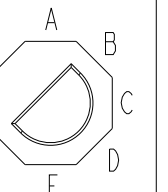
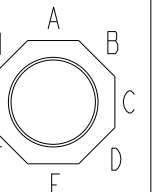
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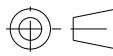
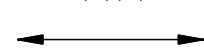


F

10128419 - Y Y Y Y L F

PLATING
SEE NOTE 2

ASSEMBLY PART NUMBER	DESCRIPTION
10128419-1YYYYLF	STANDARD MATE
10128419-2YYYYLF	ADVANCED MATE
10128419-3YYYYLF	SHORT DETECT
10128419-4YYYYLF	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)	
										

spec ref	SEE NOTES			dr	Stu Stoner	2014/02/19			size	A2	scale	1:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2019/12/12			ecn no	ELX-DG-35549-1				
ASME Y14.5M				chr	-	-			rel level			Released		
				appr	Heaven Cen	2020/04/22	product family		ExaMAX					
surface - 	linear	0.X	±.3		title	ExaMAX RIGHT-ANGLE HDR ASSY				dwg no	10128419		rev	C
		0.XX	±.10											
		0.XXX	±.050											
	angular	0°	±°			cat. no.	SEE TABLE	Product - Customer Drw				sheet 10 of 11		

A

B

C

D

E

F

	1	2	3	4	5	6	7	8	
A	<div>NOTES</div> <div><div>1</div>- CONNECTOR MATERIALS: HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0 IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0 CONTACT: COPPER ALLOY ORGANIZER: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0</div> <div>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)</div> <div>3 - PRODUCT SPECIFICATION: GS-12-1096</div> <div>4 - APPLICATION SPECIFICATION: GS-20-0361</div> <div>5 - PACKAGING MEETS GS-14-920 LEAD FREE LABELING SPECIFICATION.</div> <div><div>6</div>- PRODUCT MARKING, (PART NUMBER & LOT CODE), ON THIS SURFACE.</div> <div><div>7</div>- 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.</div> <div><div>8</div>- CONNECTOR OUTLINE MAY BE SCREEN PRINTED ONTO CUSTOMER PCB TO BE USED AS A GUIDE FOR MANUAL CONNECTOR PLACEMENT.</div> <div><div>9</div>- REFER TO CUSTOMER DRAWING 10119933 FOR INFORMATION ON PCB HOLE DIAMETERS AND PLATING OPTIONS</div> <div>10- THIS PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES & OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004</div> <div><div>11</div>- REFER TO ROUTING GUIDE GS-20-0511 FOR RECOMMENDATIONS ON OPTIMIZATION OF FOOTPRINT AND TRACE ROUTING LAYOUT.</div> <div>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.</div> <div><div>13</div>- THE ADVANCED MATE HEADER, 10128419-2YYYYLF, 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.</div> <div><div>14</div>- THE SHORT DETECT HEADER, 10128419-3YYYYLF, 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.</div> <div><div>15</div>- THE ADVANCED MATE/SHORT DETECT HEADER, 10128419-4YYYYLF, 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.</div> <div><div>16</div>- FOR CONNECTOR WITH EITHER A RIGHT OR LEFT GUIDE MODULE, TWO PHILLIPS PAN HEAD M2 HOLD DOWN SCREWS MUST BE USED TO SECURE THE CONNECTOR TO THEN PCB. THE SCREW LENGTH SHALL BE 2.0 - 6.0mm PLUS THE THICKNESS OF THE PCB BOARD. SCREWS ARE NOT PROVIDED WITH CONNECTOR.</div> <div><div>17</div>- 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 RIGHT ANGLE HEADER MATES WITH A RIGHT ANGLE RECEPTACLE.)</div> <div><div>18</div>- ALL GROUND CONTACTS ARE COMMONED WITHIN A COLUMN.</div>								A
B									B
C									C
D									D
E									E
F									F

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spec ref	SEE NOTES			dr	Stu Stoner	2014/02/19	projection	MM		size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2019/12/12				ecn no			ELX-DG-35549-1	
ASME Y14.5M				chr	-	rel level				Released				
			appr	Heaven Cen	2020/04/22									
surface - 	linear	0.X	±.3	AmphenolFCi	title	ExdMAX RIGHT-ANGLE HDR ASSY				dwg no	10128419		rev	C
		0.XX	±.10			4 PR, 112 POS, 8 IMLA								
		0.XXX	±.050											
angular	0°	±°				cat. no.	SEE TABLE	Product - Customer Drw		sheet 11 of 11				

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PDS: Rev :C

STATUS:Released

Printed: Apr 23, 2020

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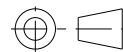
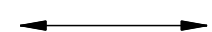
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Amphenol
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spec ref		SEE NOTES			dr		Stu Stoner		2014/02/19		projection		<div>MM</div>		size		A2		scale		2:1								
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Peng-Bing Fu		2019/12/12						ecn no		ELX-DG-35549-1												
ASME Y14.5M					chr		-		-						rel level		Released												
					appr		Heaven Cen		2020/04/22						product family				ExaMAX										
surface - <div>✓</div>		linear		0.X		±.3		Amphenol FCI		title		ExaMAX RIGHT-ANGLE HDR ASSY						dwg no		10128419						rev		C	
				0.XX		±.10																							
				0.XXX		±.050																							
				angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw						sheet 11 of 11							