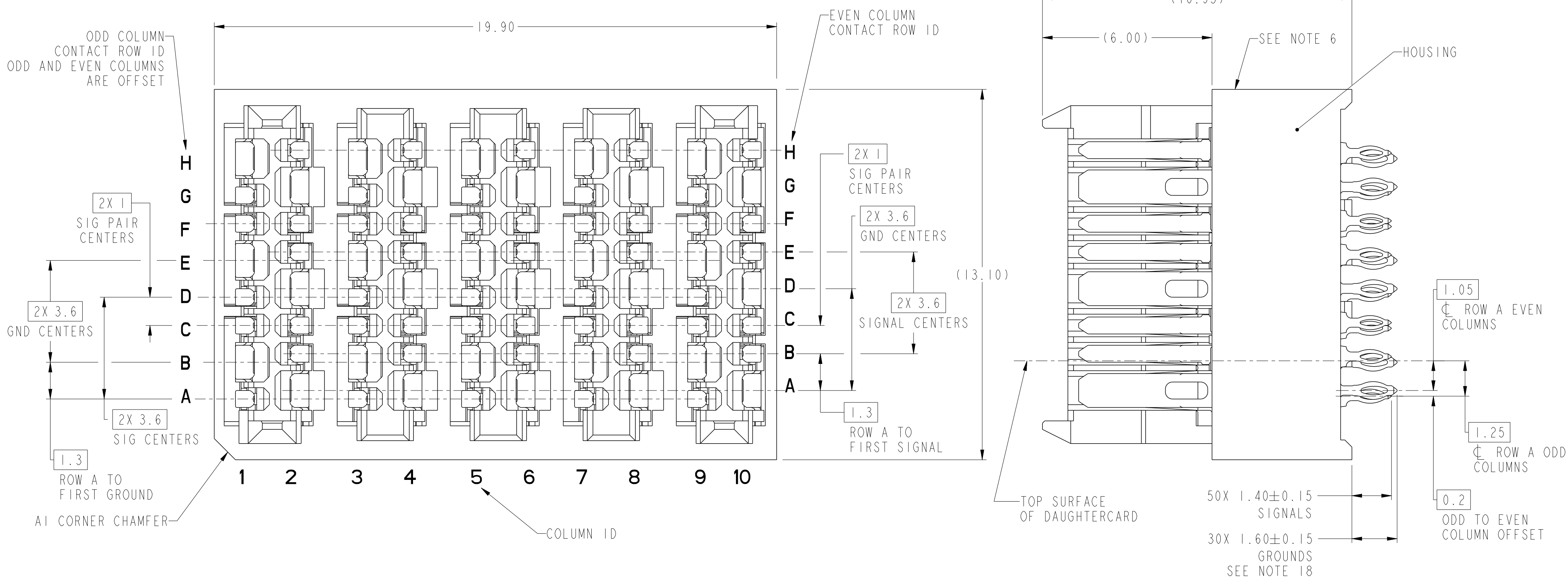
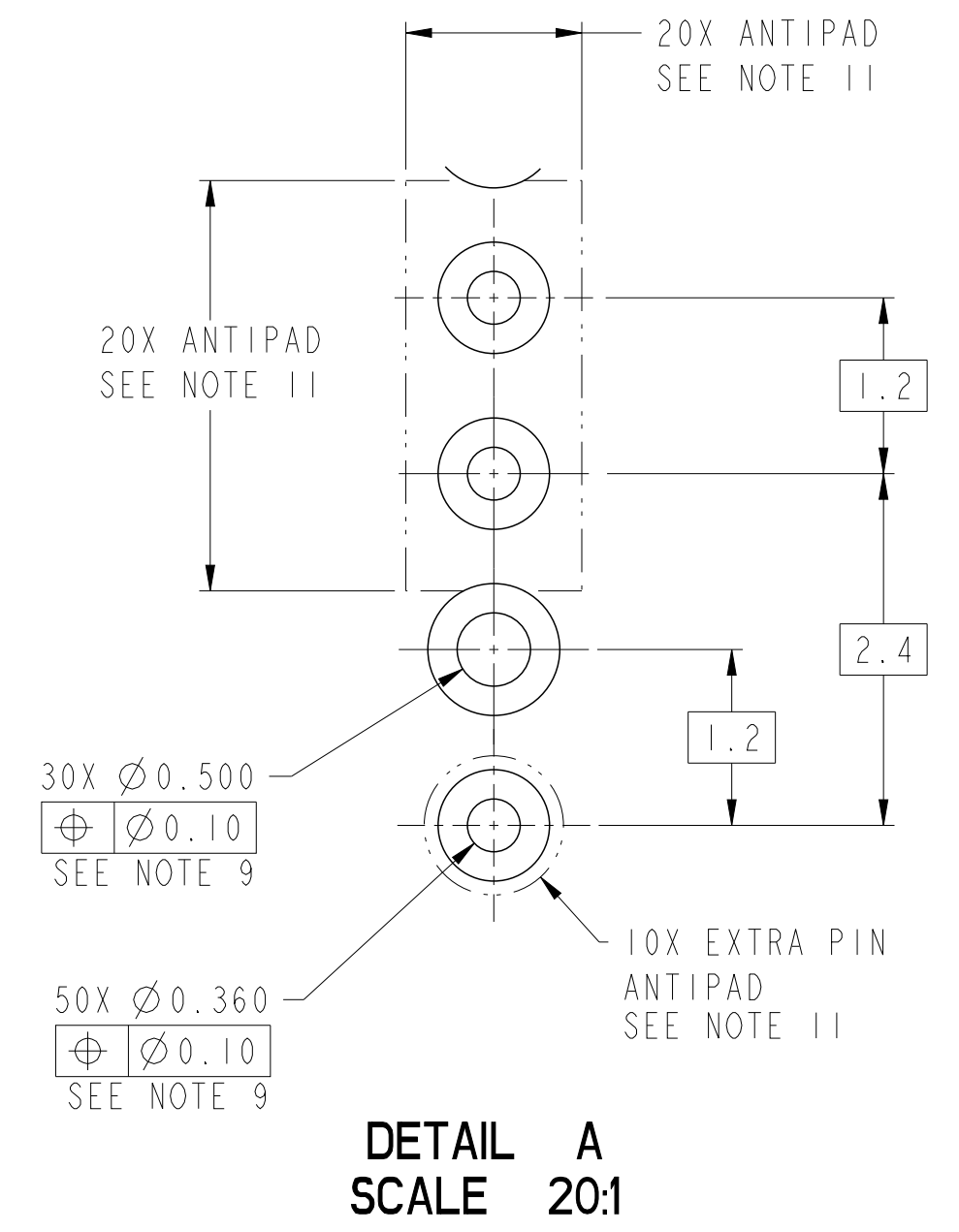
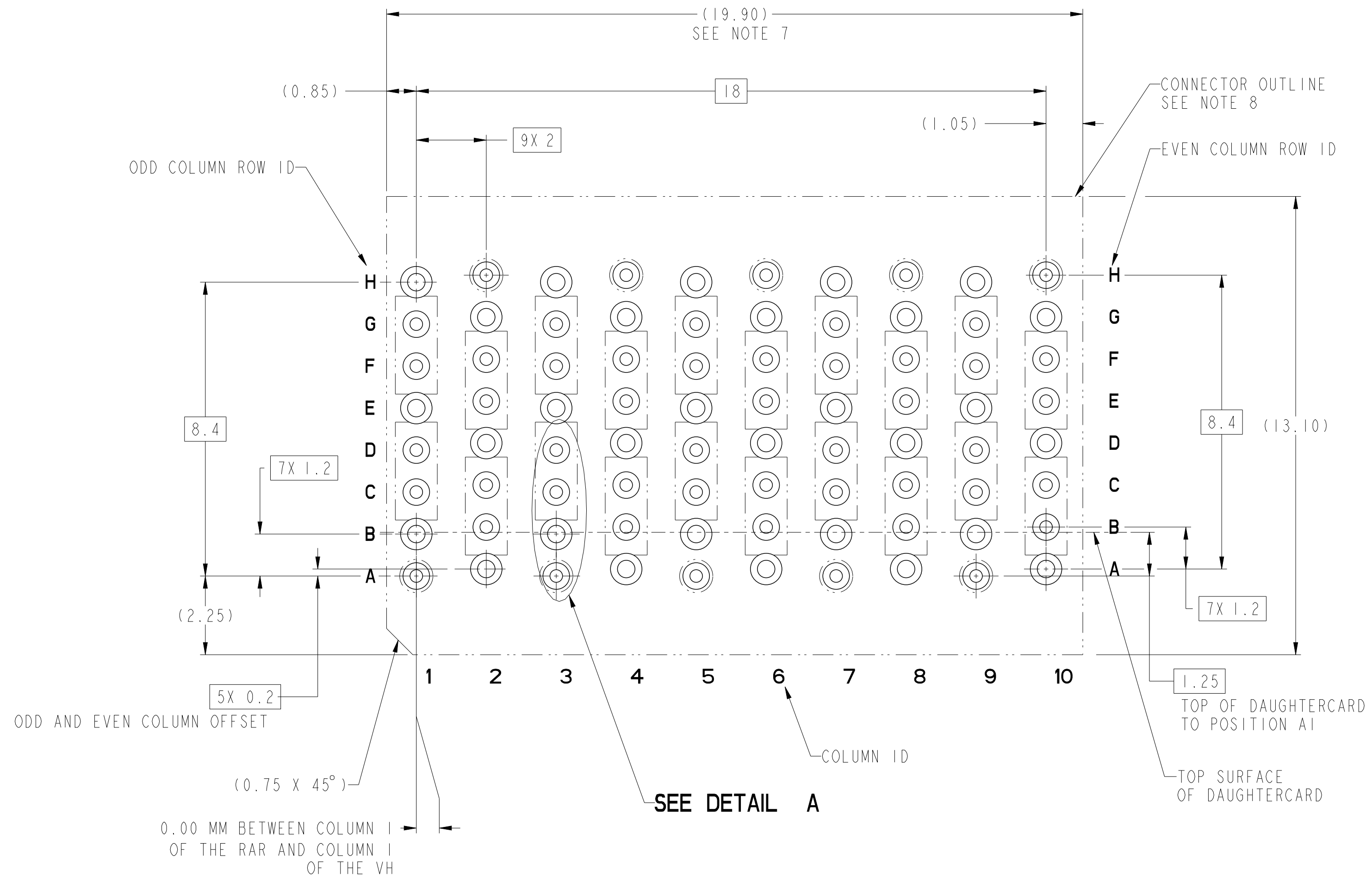


PRODUCT NUMBER
SEE SHEET 16



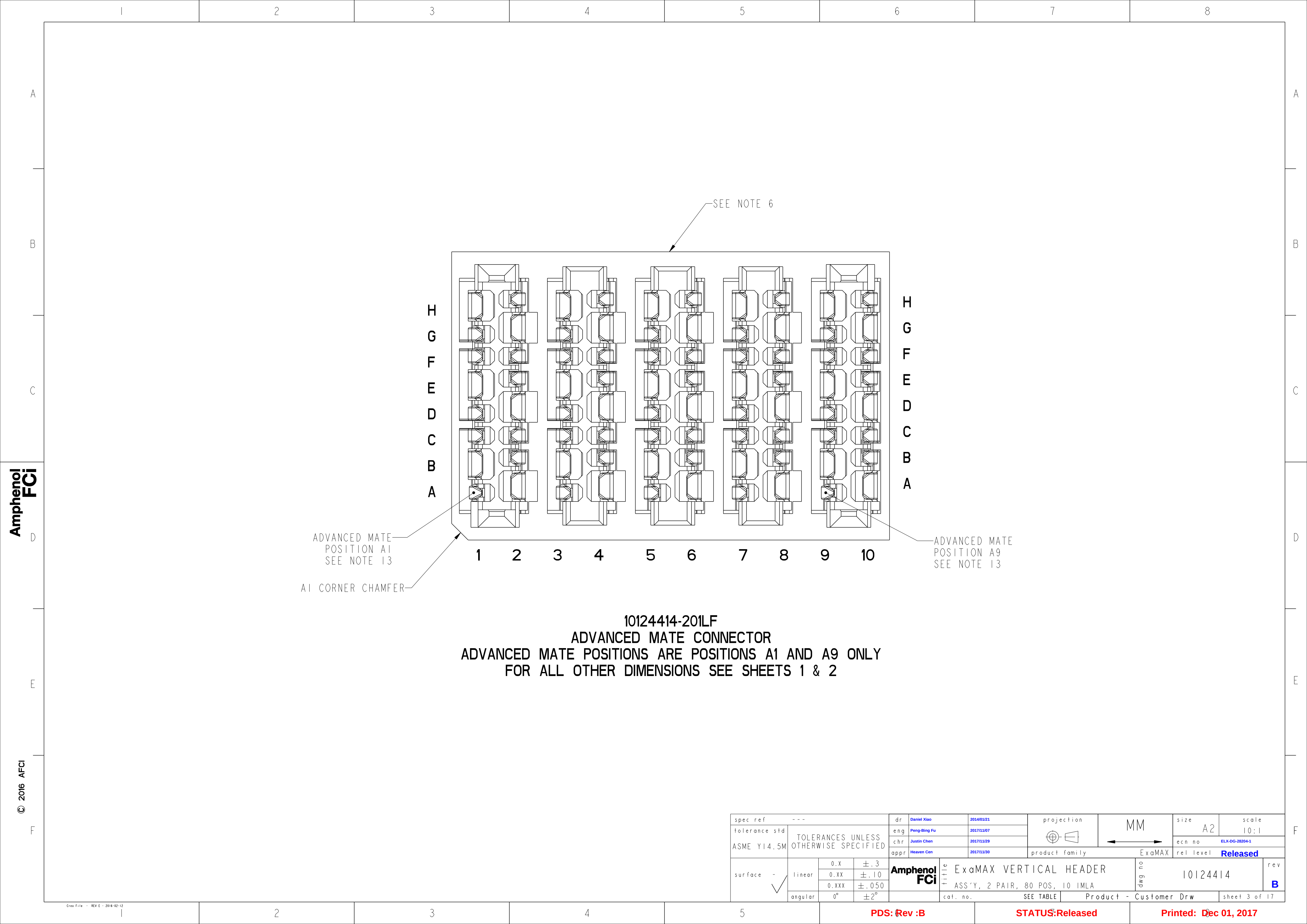
10124414-Y01LF
(10124414-101LF STANDARD MATE CONNECTOR SHOWN)

spec ref		---		dr	Daniel Xiao		2014/02/21		projection		MM		size	A2		scale	10:1						
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu		2017/11/07				ecn no		ELX-DG-28204-1										
ASME Y14.5M				chr	Justin Chen		2017/11/129				product family		ExaMAX										
				appr	Heaven Chen		2017/11/130						rel level					Released					
surface		- 		Amphenol FCi		title		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA						dwg no		10124414		rev B					
		linear																		0.X		±.3	
																				0.XX		±.10	
								0.XXX		±.050													
														</									



RECOMMENDED PCB LAYOUT FOR
10124414-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11

spec ref	---	dr	Daniel Xiao	2014/02/21	projection	MM	size	A2	scale	10:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/07	chr	Justin Chen	2017/11/29	ecn no	ELX-DG-28204-1	
surface	-	appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level	Released		
linear	0.X ±.3	Amphenol FCI	ExaMAX VERTICAL HEADER	dwg no	10124414	rev	B			
0.XX ±.10			ASS'Y, 2 PAIR, 80 POS, 10 IMLA							
0.XXX ±.050			cat. no.	SEE TABLE	Product - Customer Drw	sheet 2 of 17				
angular	0° ±2°									



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spec ref		---		dr	Daniel Xiao	2014/02/21	projection	size		scale	
tolerance std		ASME Y14.5M		eng	Peng-Bing Fu	2017/11/07		A2		10:1	
		TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Justin Chen	2017/11/29		ecn no		ELX-DG-28204-1	
				appr	Heaven Cen	2017/11/30		rel level		Released	
surface	- 	linear	0.X	±.3	Amphenol FCi	title	ExaMAX VERTICAL HEADER		dwg no	10124414	rev
			0.XX	±.10							
			0.XXX	±.050							
		angular	0°	±2°		cat. no.	SEE TABLE			Product - Customer Drw	sheet 3 of 17

PDS: Rev :B

STATUS:Released

Printed: Dec 01, 2017

SHORT DETECT
POSITION H2
SEE NOTE 14

SEE NOTE 6

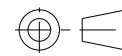
AI CORNER CHAMFER

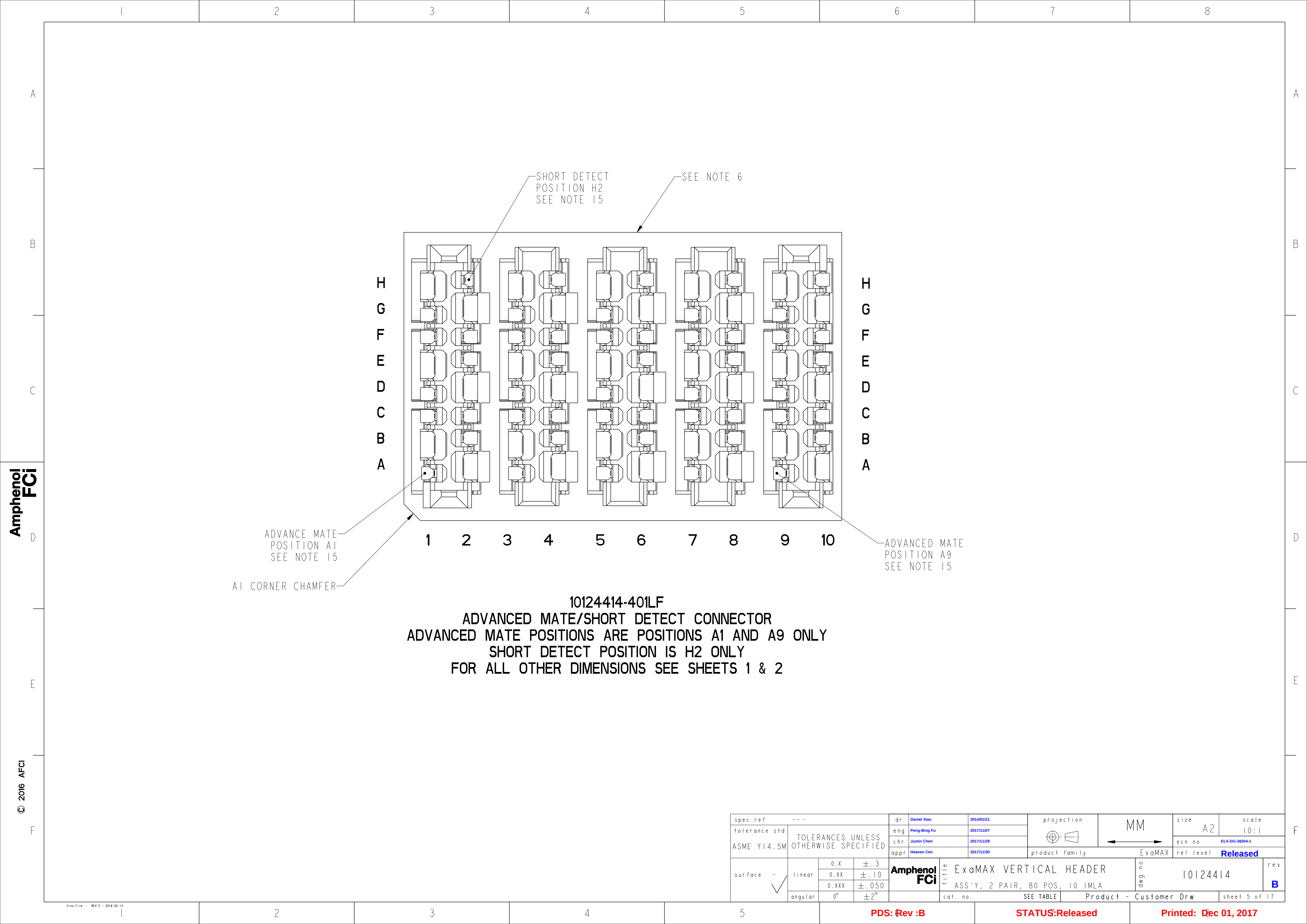
H
G
F
E
D
C
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H
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A

1 2 3 4 5 6 7 8 9 10

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

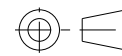
spec ref				---		dr		Daniel Xiao		2014/01/21		projection		MM		size		A2		scale		10:1							
tolerance std				ASME Y14.5M		eng		PENG-BING FU		2017/11/07						ecn no		ELX-DG-28204-1											
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr		JUSTIN CHEN		2017/11/29		product family		ExaMAX						rel level		Released											
		appr		Heaven Cen		2017/11/30																							
surface		-				linear		0.X		±.3		Amphenol FCI		title		ExaMAX VERTICAL HEADER		dwg no		10124414		rev		B					
																										0.XX		±.10	
																										0.XXX		±.050	
				angular		0°		±2°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 4 of 17											



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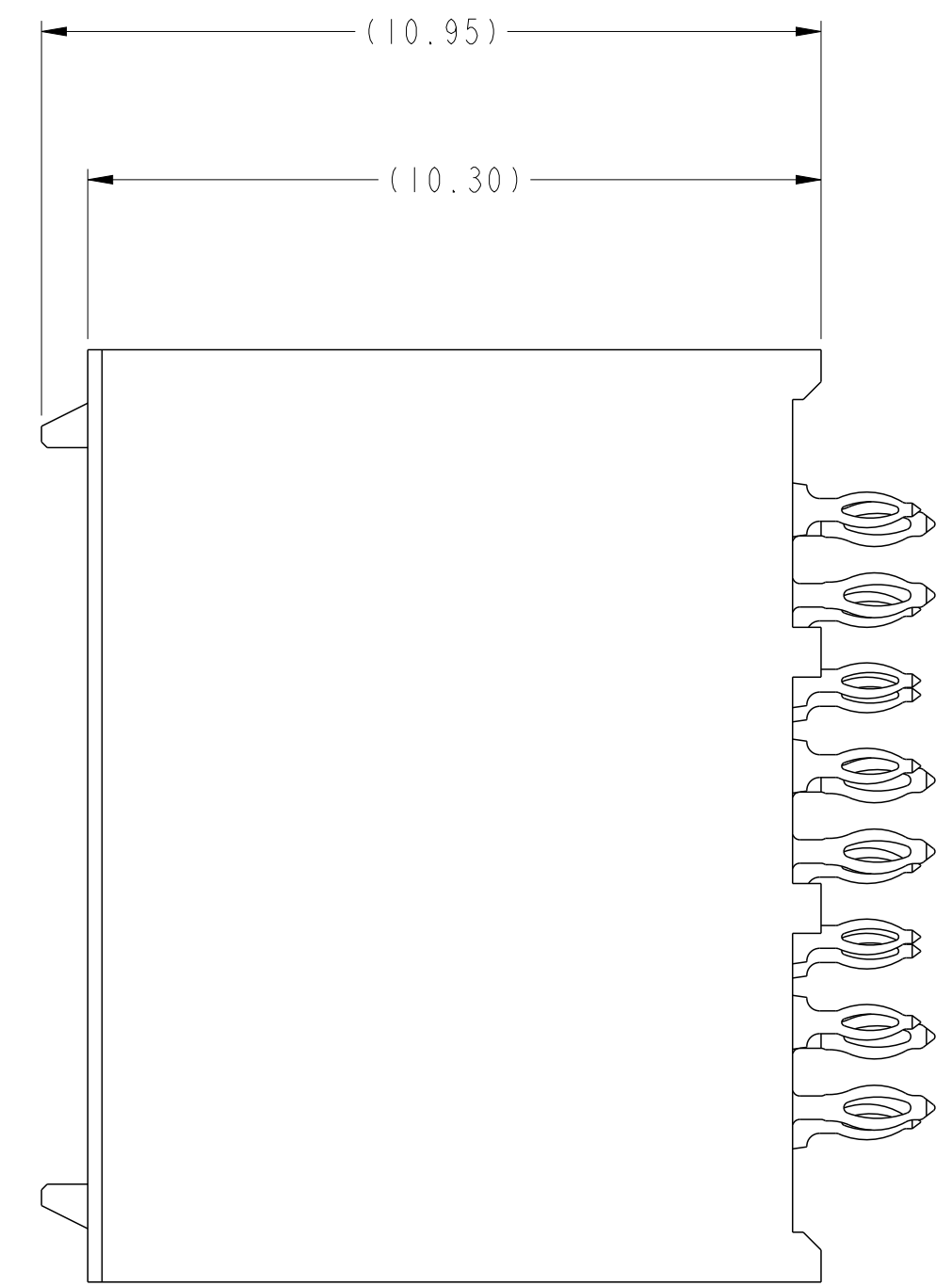
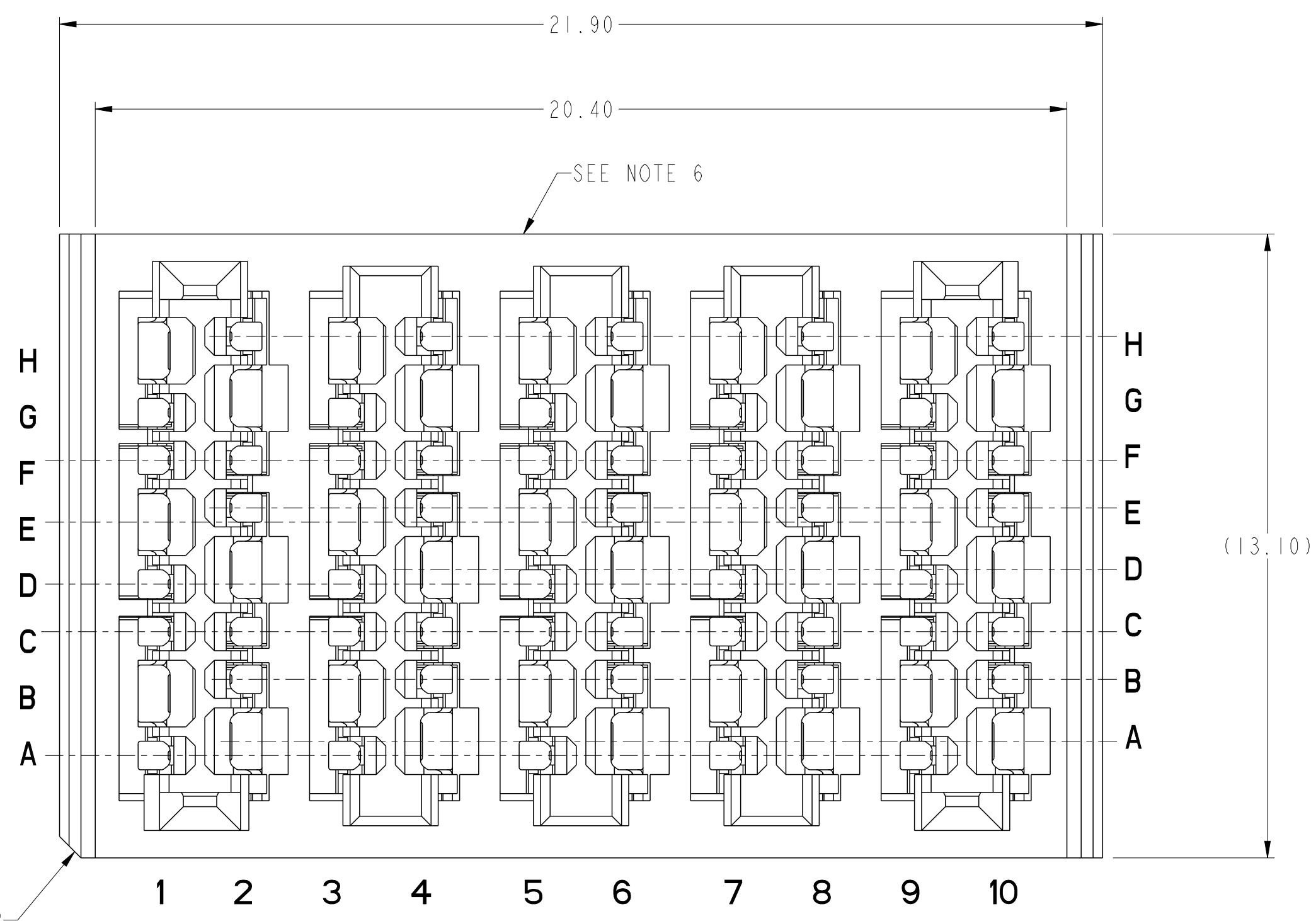
10124414-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
SHORT DETECT POSITION IS H2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

spec ref ---				dr Daniel Xiao		2014/02/21		projection		MM		size A2		scale 10:1	
tolerance std				eng Peng-Bing Fu		2017/11/07						ecn no		ELX-DG-28204-1	
ASME Y14.5M				chr Justin Chen		2017/11/29						rel level		Released	
				appr Heaven Cen		2017/11/30		product family ExaMAX							
surface - 		linear	0.X ±.3		Amphenol FCI		title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA		dwg no 10124414		rev B				
			0.XX ±.10												
			0.XXX ±.050												
		angular	0° ±2°												
				cat. no.		SEE TABLE		Product - Customer Drw				sheet 5 of 17			

PDS: Rev :B

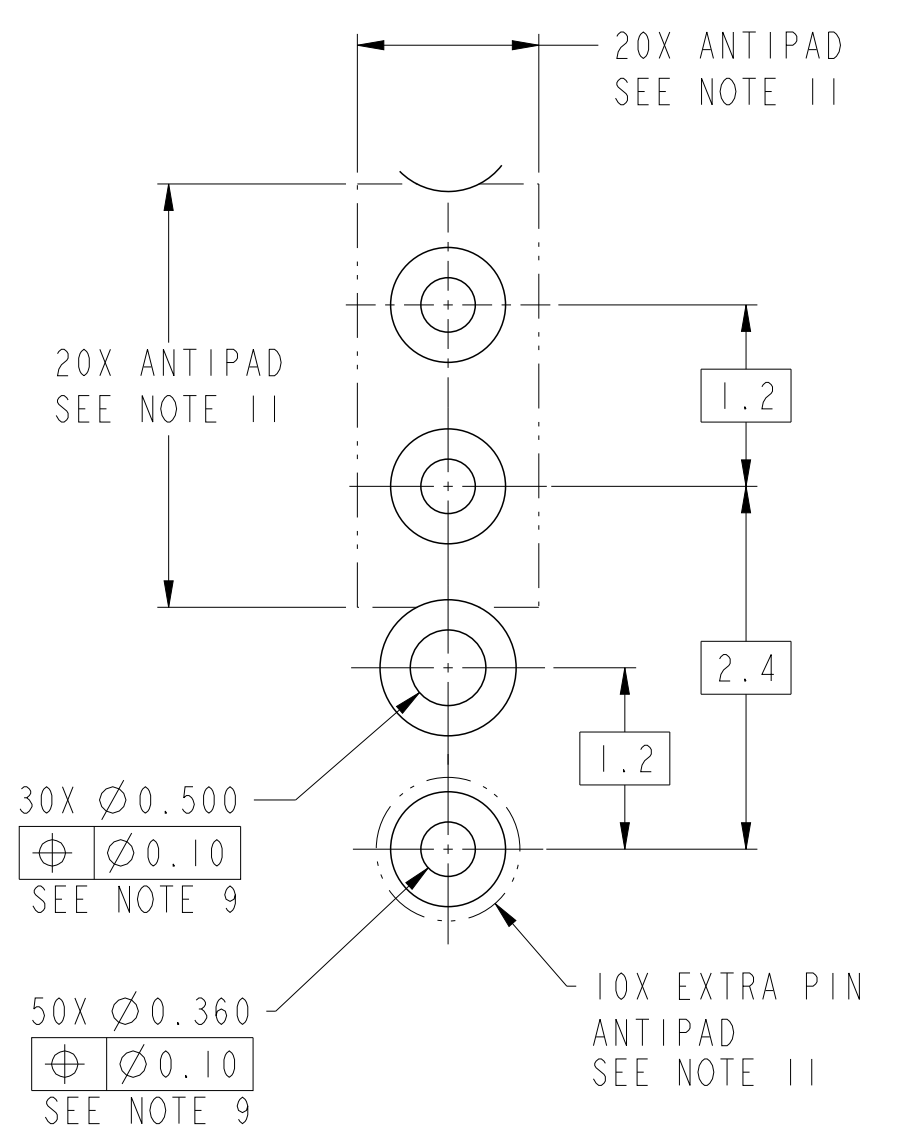
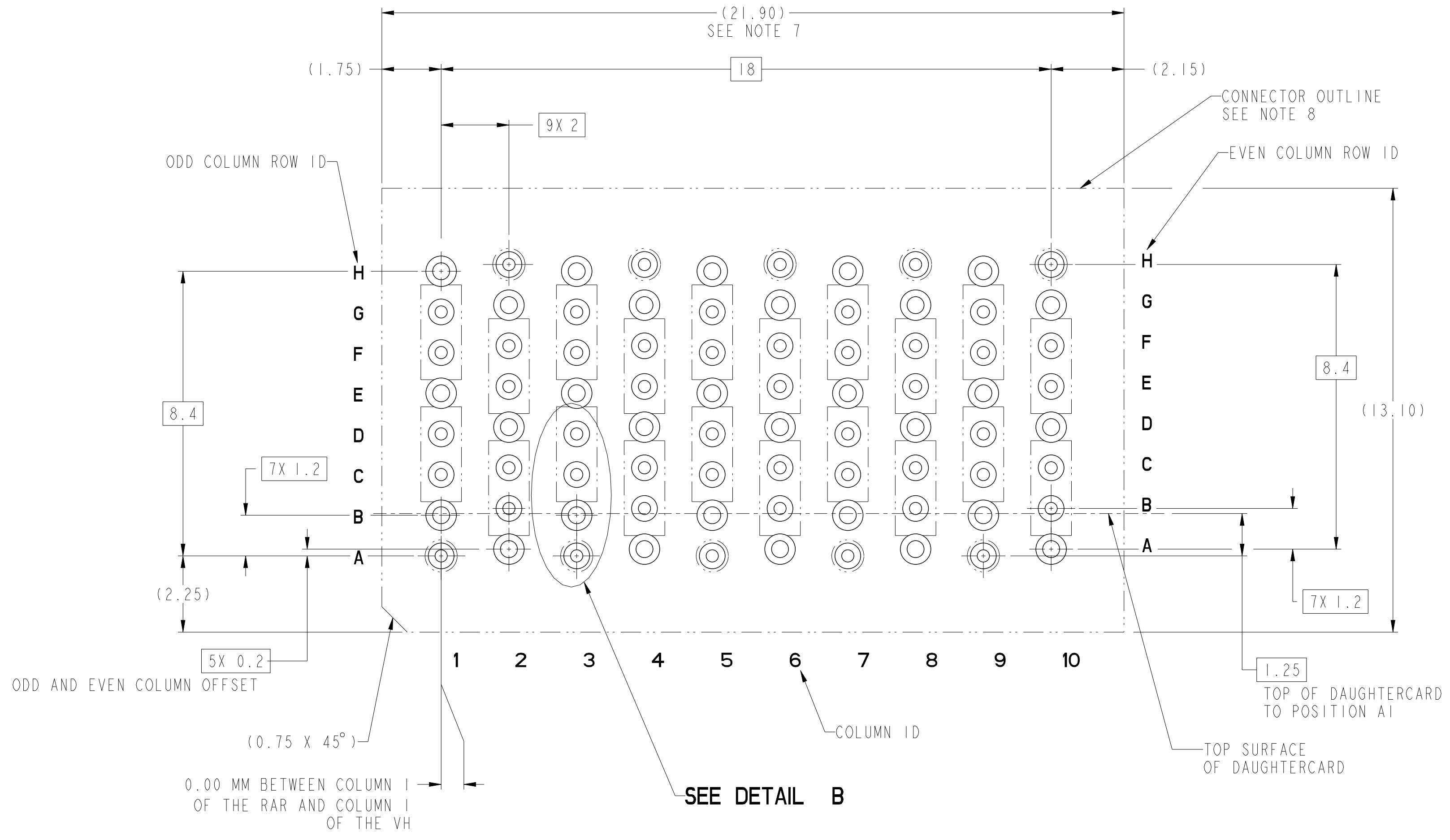
STATUS:Released

Printed: Dec 01, 2017



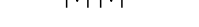
10124414-Y02LF (10124414-102LF SHOWN)
END WALLED CONNECTOR
FOR ALL DIMENSIONS SEE SHEET 1

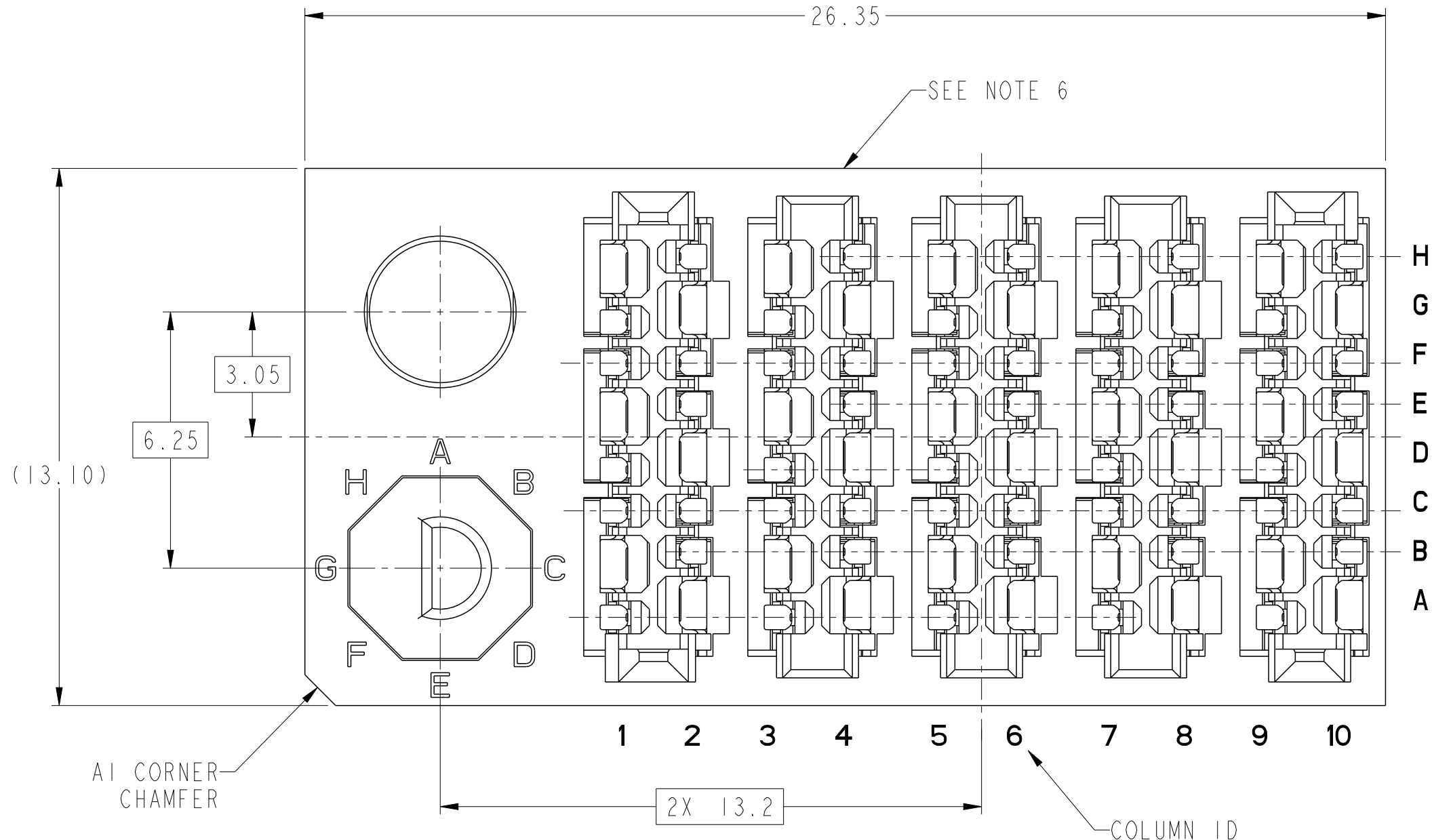
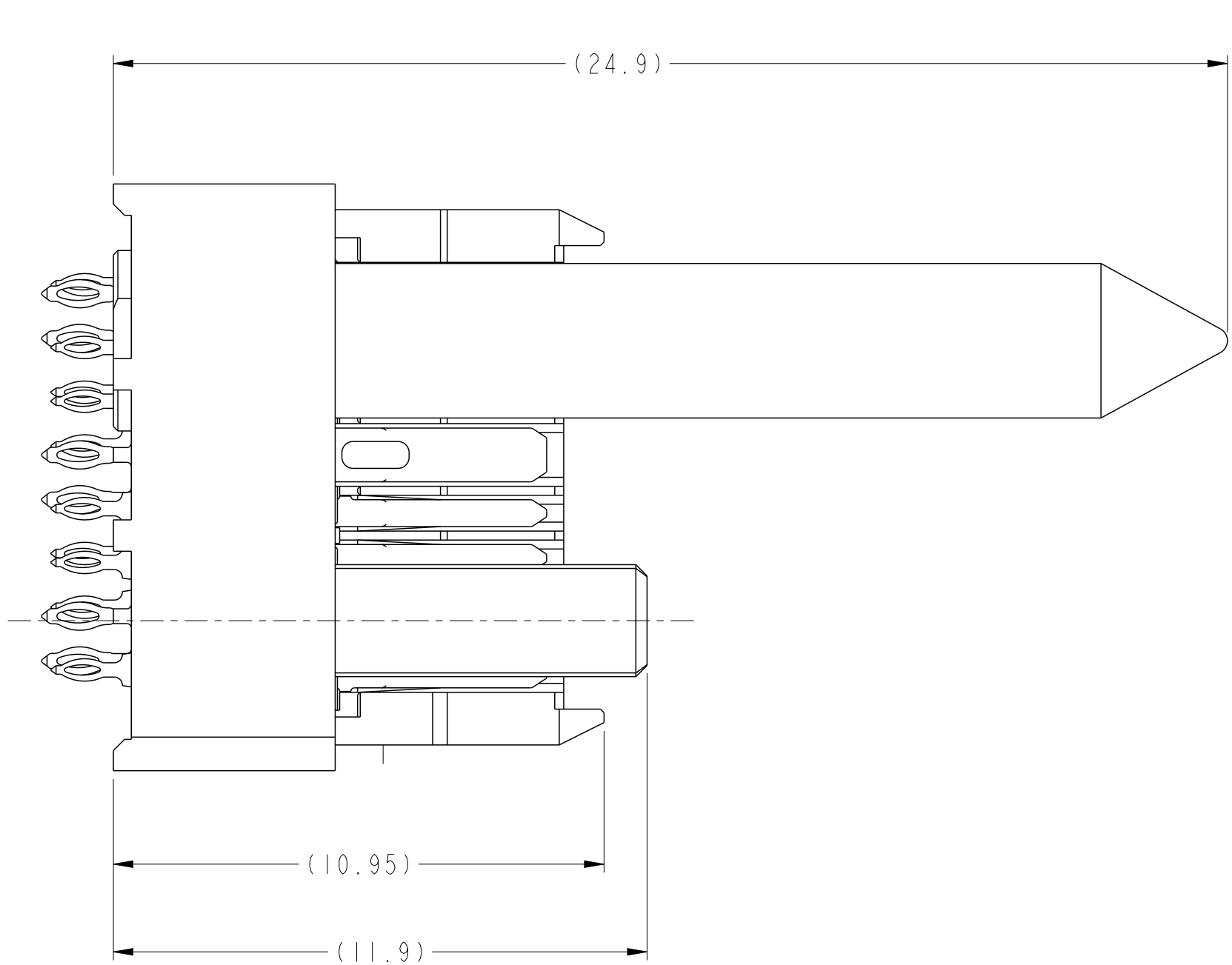
spec ref		---		dr		Daniel Xiao		2014/01/21		projection		MM		size		A2		scale		10:1							
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/07						ecn no		ELX-DG-28204-1											
chr				Justin Chen		2017/11/29		rel level						Released													
appr				Heaven Cen		2017/11/30		product family						ExaMAX													
surface				linear		0.X		±.3		Amphenol FCI		title		ExaMAX VERTICAL HEADER		dwg no		10124414		rev		B					
		0.XX		±.10		cat. no.		SEE TABLE																Product- Customer Drw		sheet 6 of 17	
		0.XXX		±.050																							
		angular		0°		±2°																					



DETAIL B
SCALE 20:1

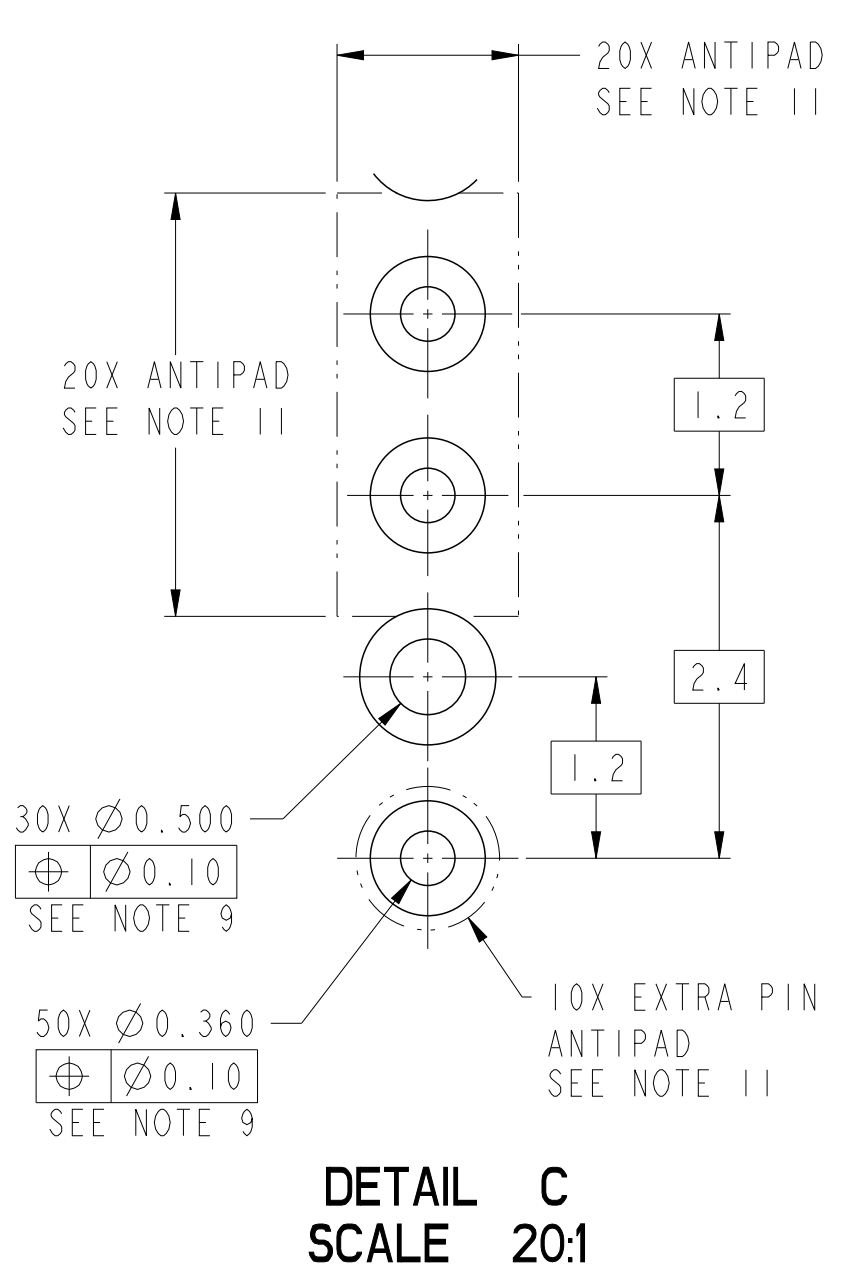
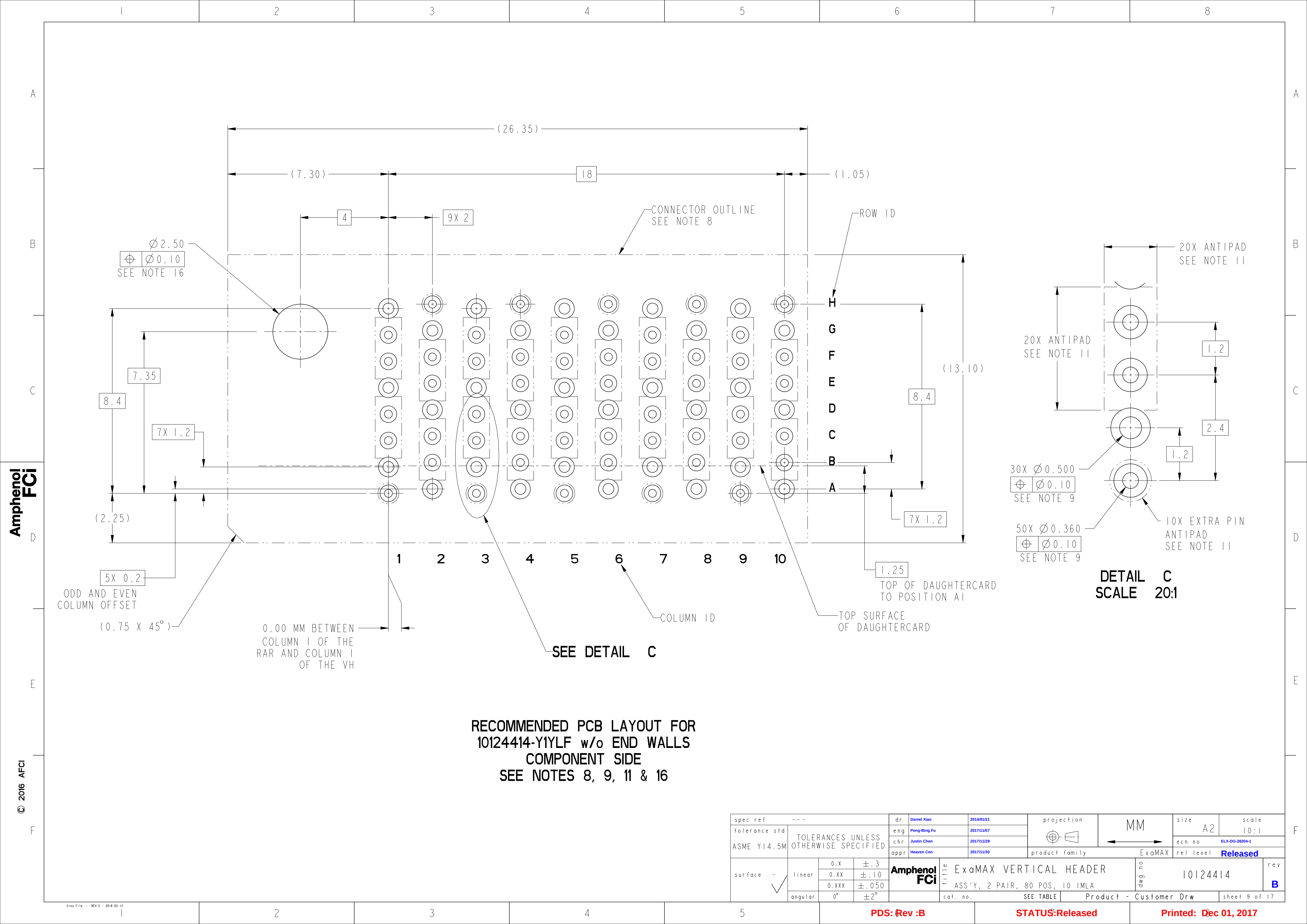
RECOMMENDED PCB LAYOUT FOR
10124414-Y02LF (END WALLED CONNECTOR) COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11

spec ref		---		dr		Daniel Xiao		2014/01/21		projection		MM		size		A2		scale		10:1											
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/07						ecn no		ELX-DG-28204-1															
chr				Justin Chen		2017/11/29		rel level						Released																	
ASME Y14.5M				appr		Heaven Cen		2017/11/30						product family		ExaMAX															
surface - 		linear		0.X ±.3		0.XX ±.10		0.XXX ±.050		Amphenol FCi		title		ExaMAX VERTICAL HEADER		dwg no		10124414		rev		B									
																								cat. no.		SEE TABLE		Product - Customer Drw		sheet 7 of 17	

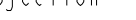


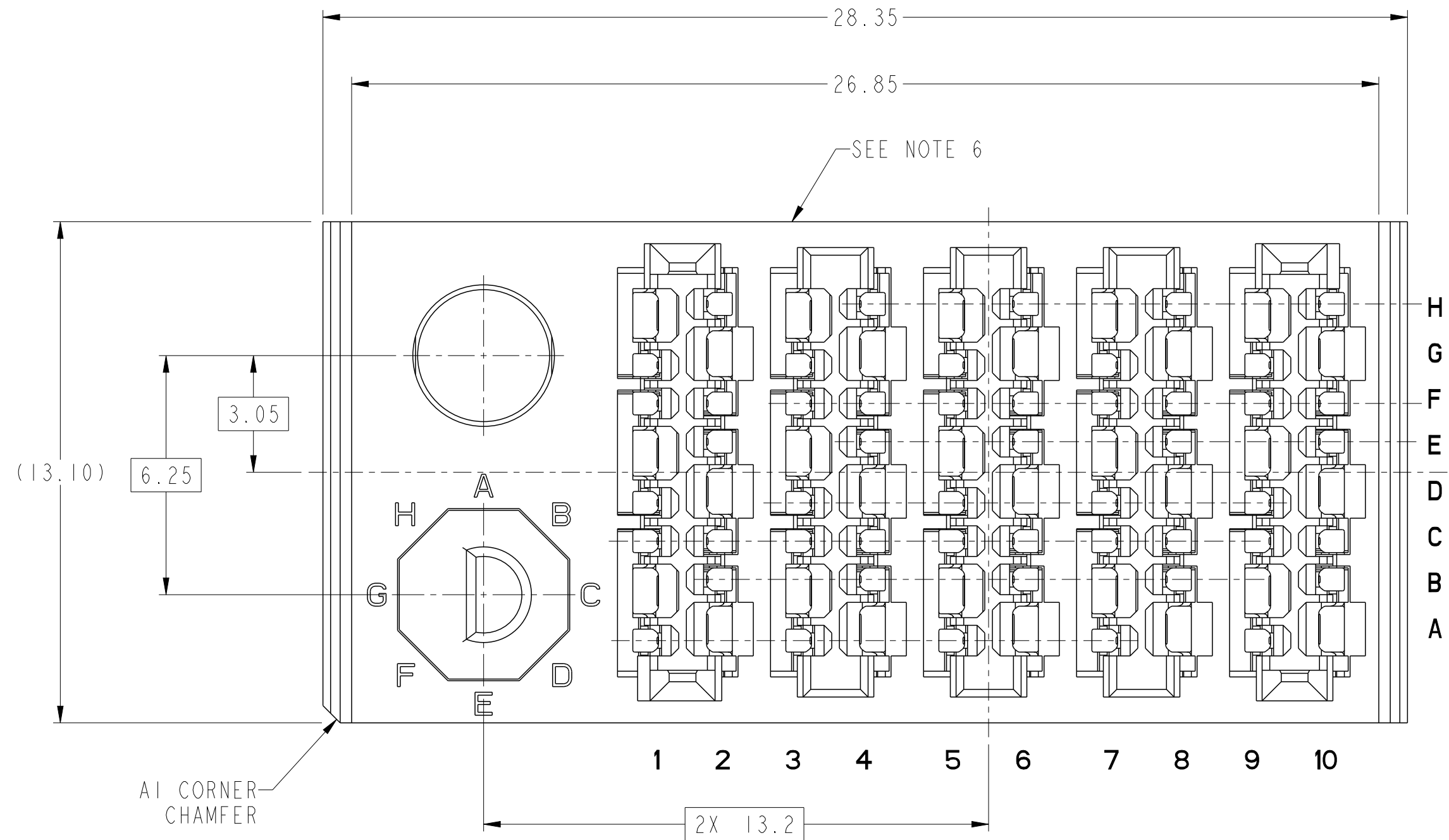
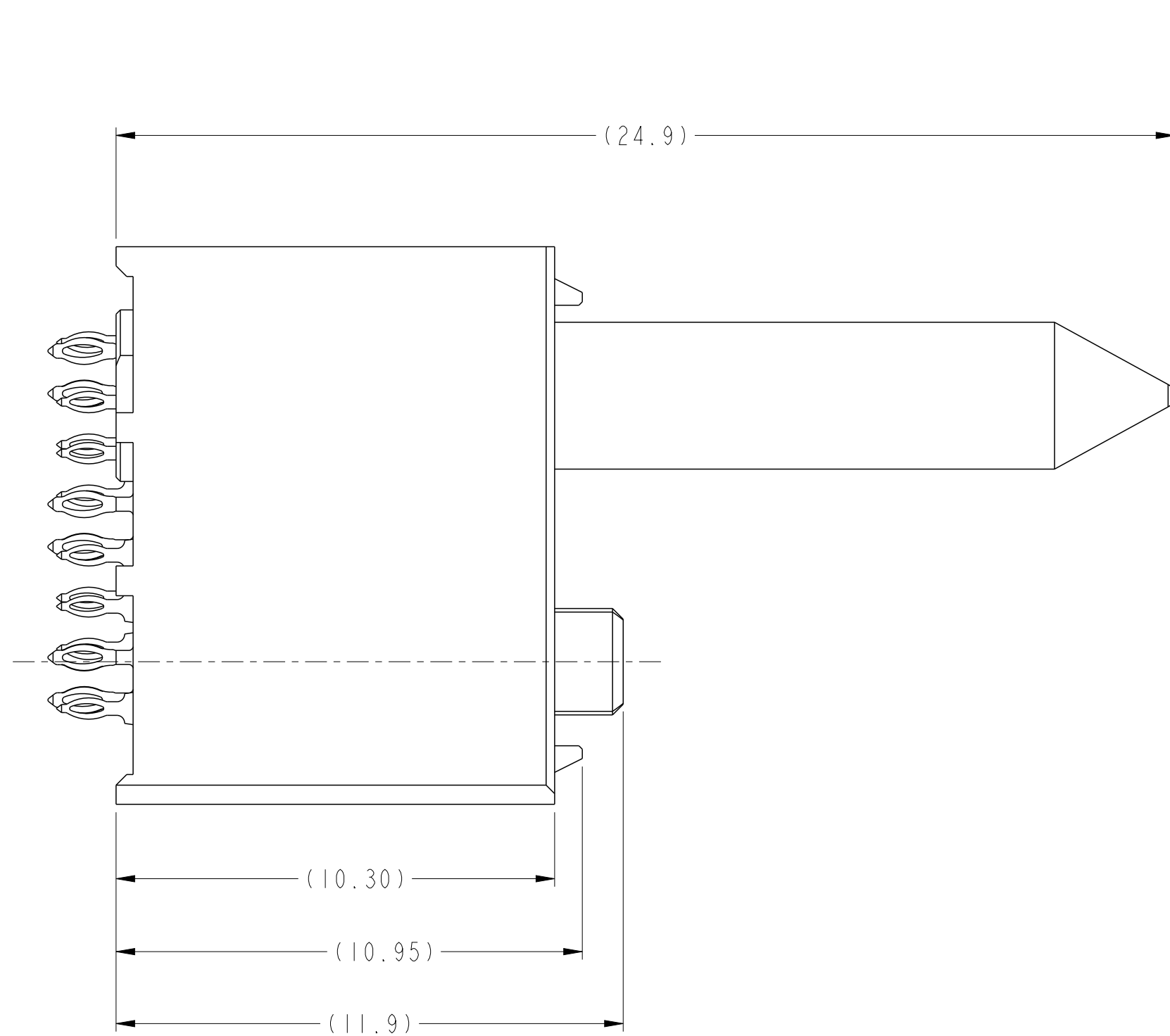
10124414-Y1ALF THRU -Y1JLF
RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref		---		dr		Daniel Xiao		2014/02/21		projection				size		A2		scale		10:1					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/07						ecn no		ELX-DG-28204-1									
ASME Y14.5M				chr		Justin Chen		2017/11/29						rel level		Released									
				appr		Heaven Cen		2017/11/30						product family		ExaMAX									
surface		linear		0.X		±.3		Amphenol FCI		title		ExaMAX VERTICAL HEADER		dwg no		10124414		rev		B					
																						0.XX		±.10	
																						0.XXX		±.050	
																						angular		0°	



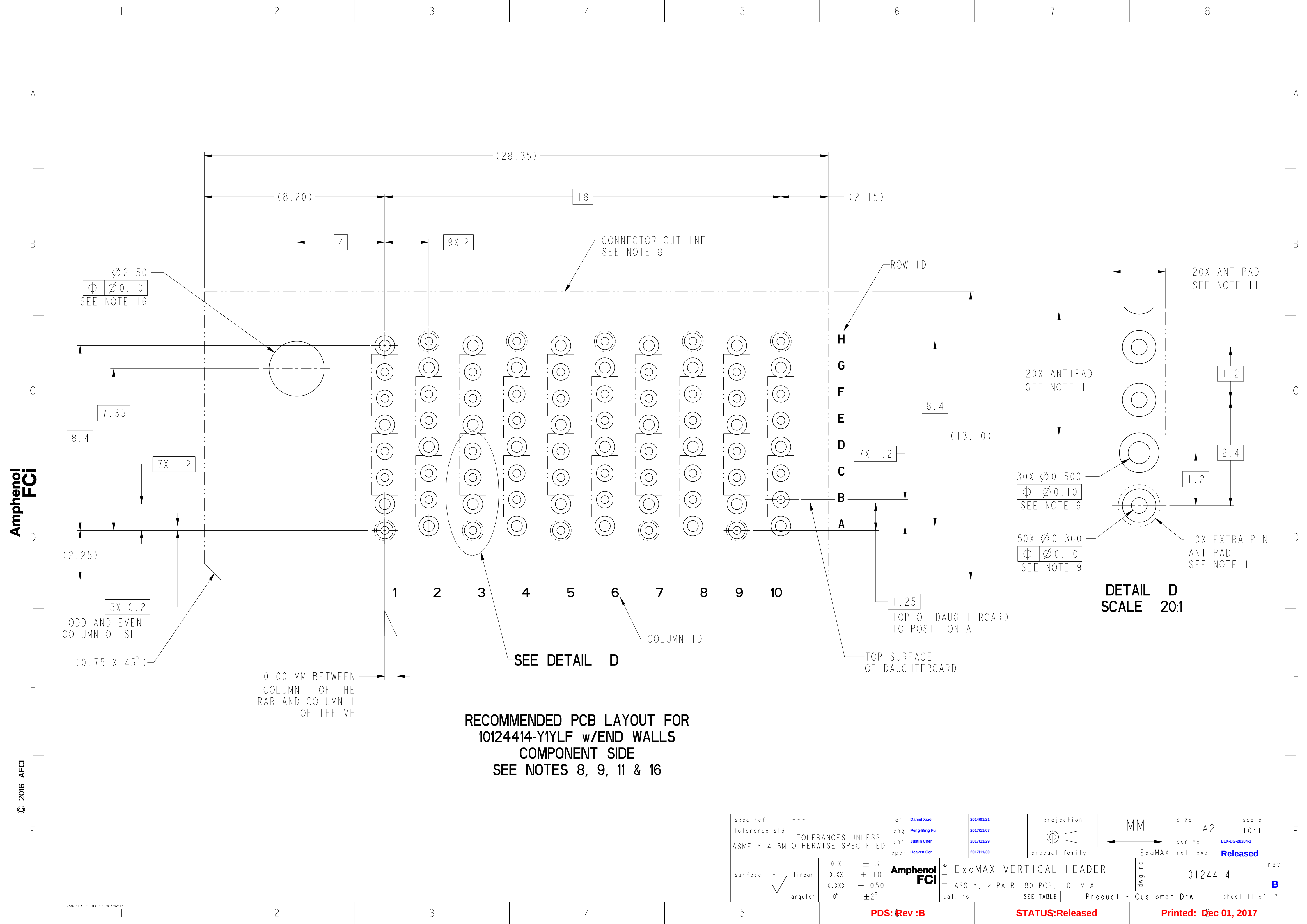
RECOMMENDED PCB LAYOUT FOR
10124414-Y1YLF w/o END WALLS
COMPONENT SIDE
SEE NOTES 8, 9, 11 & 16

spec ref				---		dr		Daniel Xiao		2014/02/21		projection				size		A2		scale		10:1							
tolerance std				ASME Y14.5M		eng		PENG-BING FU		2017/11/07						ecn no		ELX-DG-28204-1											
TOLERANCES UNLESS OTHERWISE SPECIFIED				chr		JUSTIN CHEN		2017/11/29		product family						ExaMAX		rel level		Released									
				appr		Heaven Cen		2017/11/30																					
surface				linear		0.X ±.3		0.XX ±.10		0.XXX ±.050		angular		0° ±2°				title		ExaMAX VERTICAL HEADER		dwg no		10124414		rev		B	



10124414-Y1LLF THRU -Y1WLF
RIGHT GUIDANCE CONNECTOR w/END WALLS (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref		---		dr		Daniel Xiao		2014/01/21		projection		MM		size		A2		scale		101:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/07						ecn no		ELX-DG-28204-1					
chr				Justin Chen		2017/11/29		product family						ExaMAX							
appr				Heaven Cen		2017/11/30															
ASME Y14.5M				Amphenol FCI		title		ExaMAX VERTICAL HEADER										rev		B	
surface -		linear		0.X ±.3 0.XX ±.10 0.XXX ±.050		cat. no.		SEE TABLE		Product - Customer Drw		dwg no		10124414		sheet 10 of 17					
																		ASS'Y, 2 PAIR, 80 POS, 10 IMLA			
																		angular		0° ±2°	



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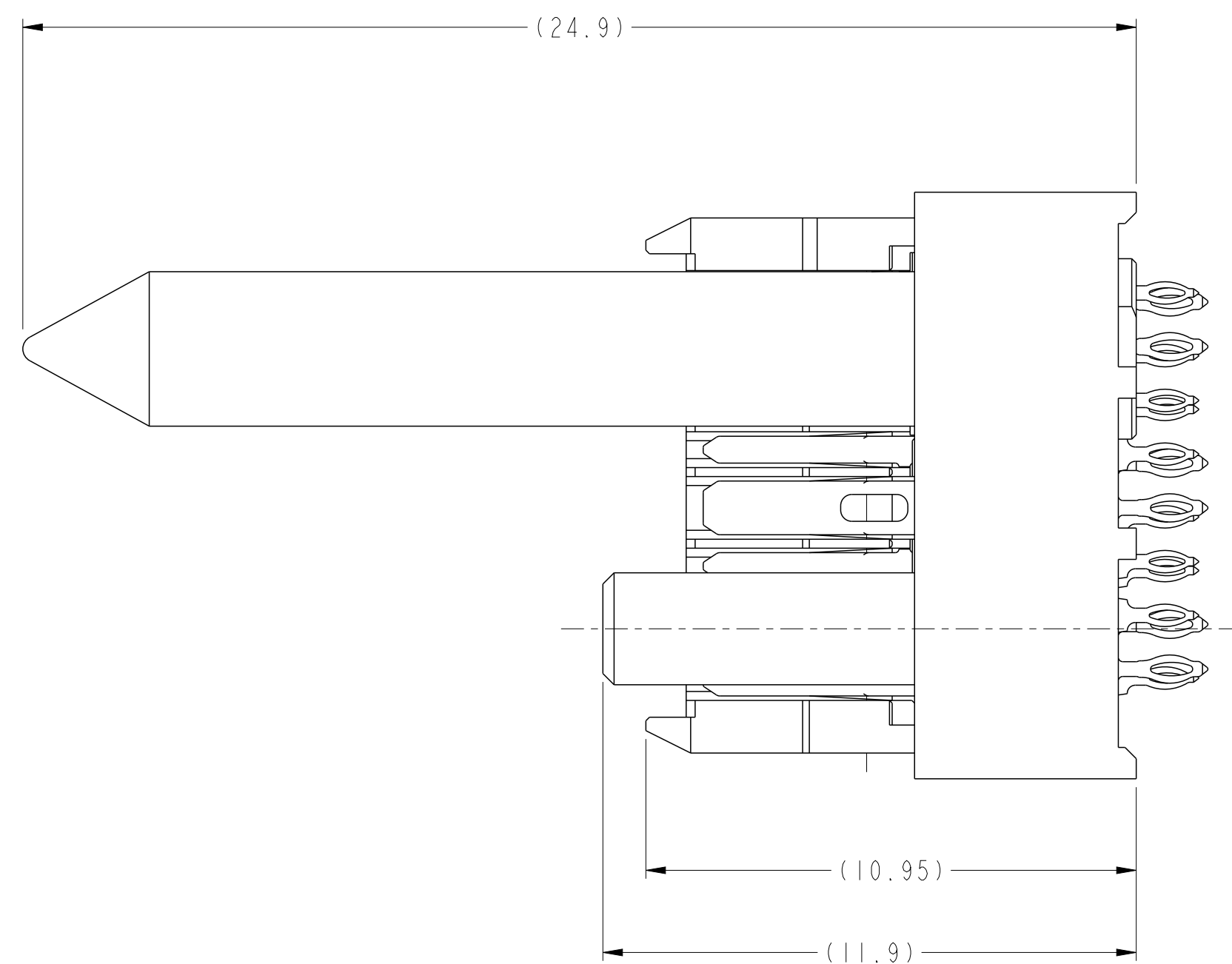
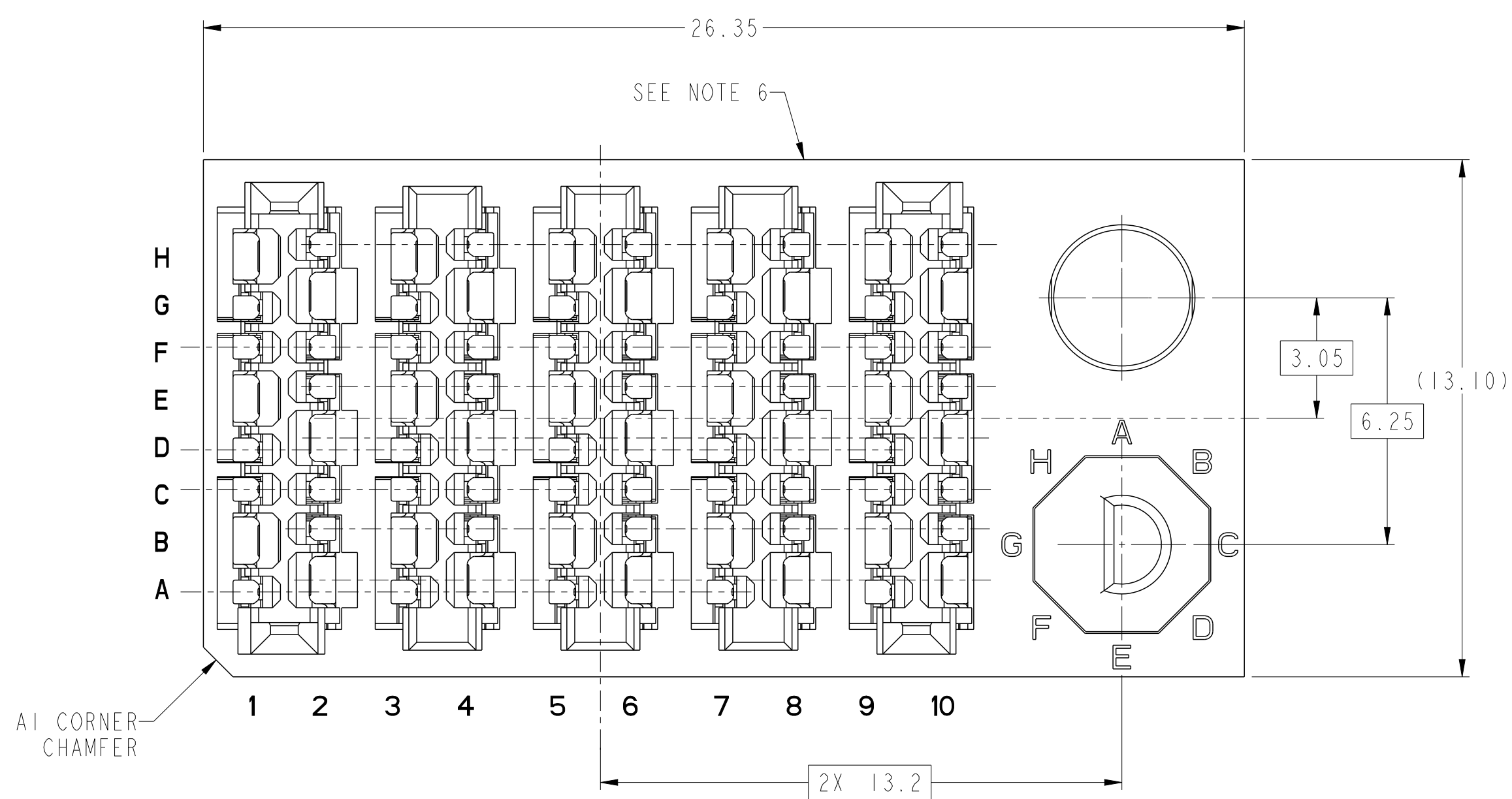
RECOMMENDED PCB LAYOUT FOR
10124414-Y1YLF w/END WALLS
COMPONENT SIDE
SEE NOTES 8, 9, 11 & 16

spec ref	---	dr	Daniel Xiao	2014/02/21	projection	MM	size	A2	scale	10:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/07	chr	Justin Chen	2017/11/29	ecn no	ELX-DG-28204-1	
		appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level	Released		
surface	-	linear	0.X	±.3	Amphenol FCi	title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA		dwg no	10124414	
			0.XX	±.10						
			0.XXX	±.050						
		angular	0°	±2°		cat. no.	SEE TABLE	Product - Customer Drw	sheet 11 of 17	rev

PDS: Rev :B

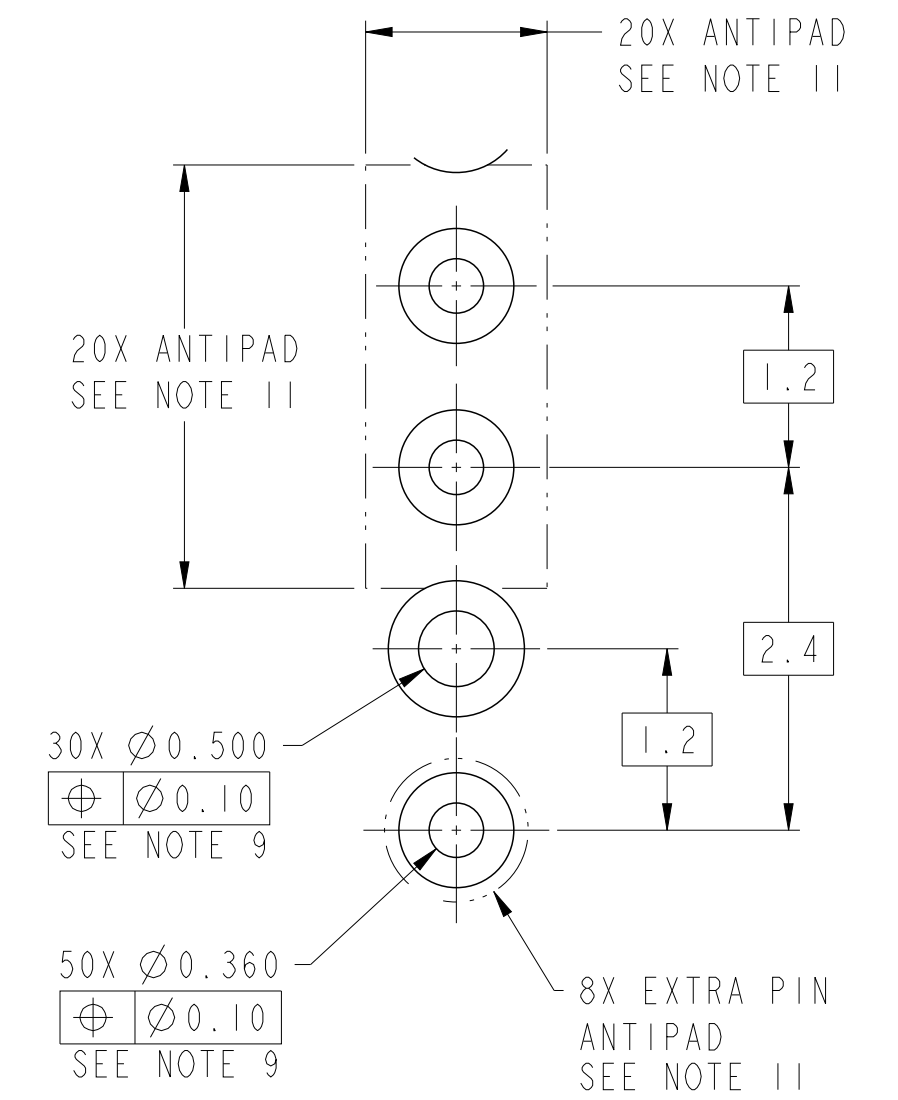
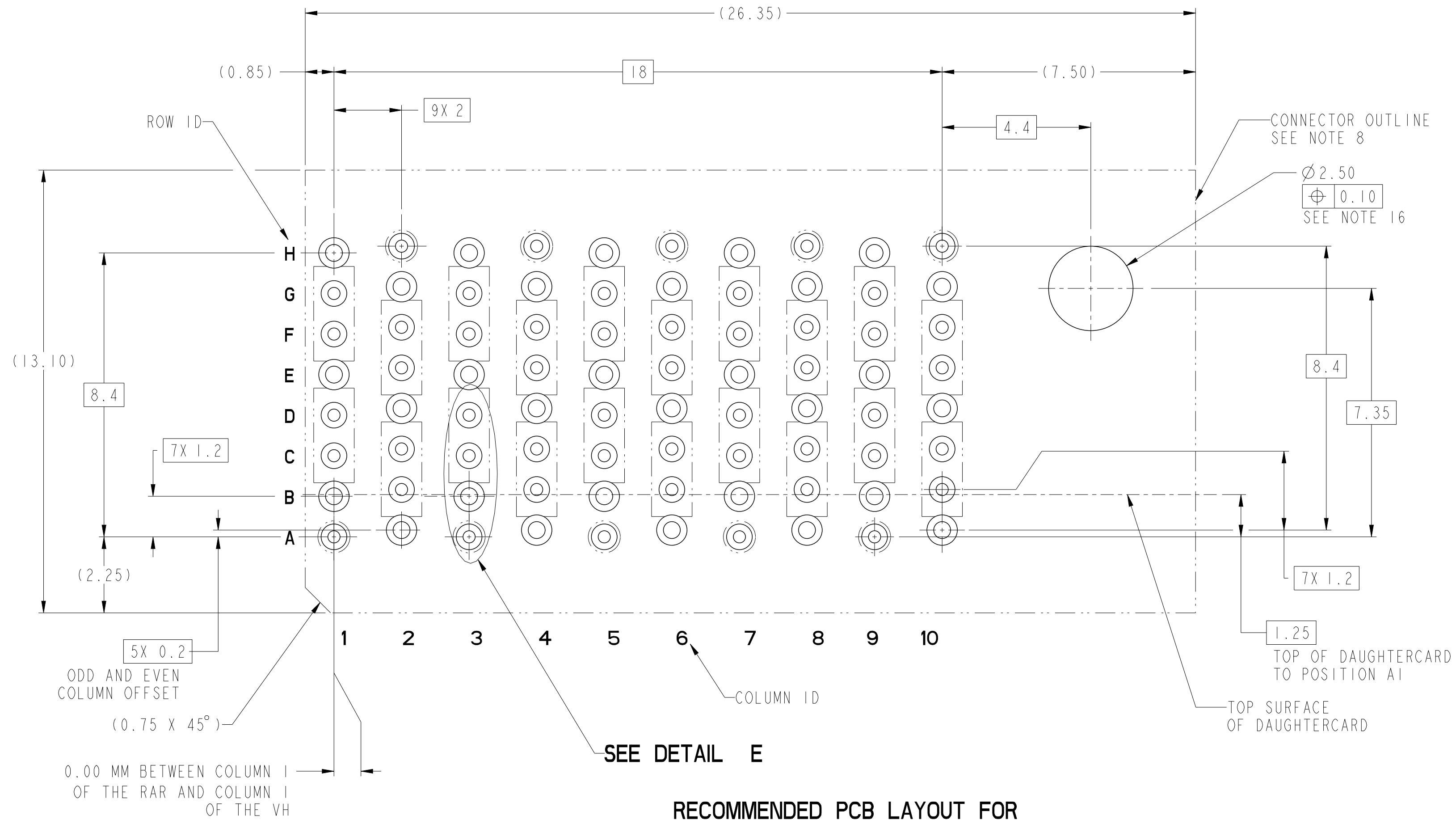
STATUS:Released

Printed: Dec 01, 2017



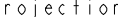
10124414-Y2ALF THRU -Y2JLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL DIMENSIONS SEE SHEET 1

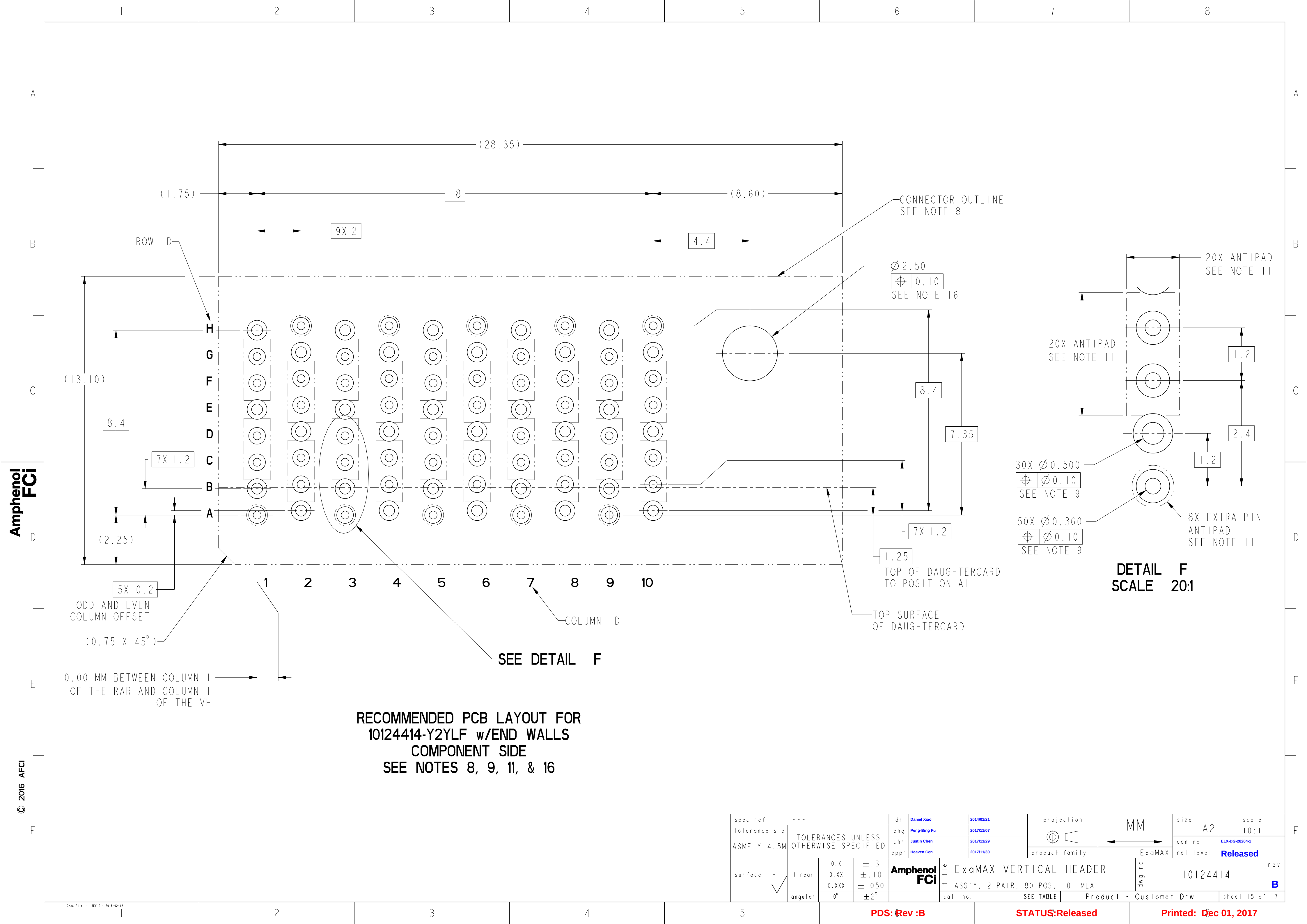
spec ref	---	dr	Daniel Xiao	2014/02/21	projection	MM	size	A2	scale	10:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/07	chr	Justin Chen	ecm no	ELX-DG-28204-1	rel level	Released
surface	-	appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level	Released	rev	B
linear	0.X ±.3	Amphenol FCI	title	ExaMAX VERTICAL HEADER	dwg no	10124414	cat. no.	SEE TABLE	Product - Customer Drw	sheet 12 of 17
angular	0° ±2°									



DETAIL E
SCALE 20:1

RECOMMENDED PCB LAYOUT FOR
10124414-Y2YLF w/o END WALLS
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		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/07				ecn no		ELX-DG-28204-1		rel level		Released															
ASME Y14.5M				chr		Justin Chen		2017/11/29						product family												ExaMAX							
surface 		linear		0.X ± .3 0.XX ± .10 0.XXX ± .050		Amphenol FCI		title		ExaMAX VERTICAL HEADER		dwg no		10124414		rev		B		cat. no.		SEE TABLE		Product-		Customer Drw		sheet 13 of 17					
																														angular		0° ± 2°	



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RECOMMENDED PCB LAYOUT FOR
10124414-Y2YLF w/END WALLS
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		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Peng-Bing Fu		2017/11/07						ecn no ELX-DG-28204-1							
chr Justin Chen				2017/11/29		rel level Released													
appr Heaven Cen				2017/11/30		product family ExaMAX													
surface -				linear		0.X ±.3						Amphenol FCI		title ExaMAX VERTICAL HEADER		dwg no 10124414		rev B	
		0.XX ±.10		cat. no.		SEE TABLE		Product- Customer Drw		sheet 15 of 17									
		0.XXX ±.050																	
		angular 0° ±2°																	

PDS: Rev :B

STATUS:Released

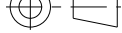
Printed: Dec 01, 2017

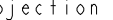
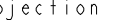
10124414 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10124414-1YYLF	STANDARD MATE
10124414-2YYLF	ADVANCED MATE
10124414-3YYLF	SHORT DETECT
10124414-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER									BASE MODULE
WITHOUT END WALLS (SEE SHEET 1)	01									
WITH END WALLS (SEE SHEET 6)	02									
RIGHT GUIDANCE MODULE, WITHOUT END WALLS (SEE SHEET 8)	1A	1B	1C	1D	1E	1F	1G	1H	1J (NO KEY)	
RIGHT GUIDANCE MODULE, WITH END WALLS (SEE SHEET 10)	1L	1M	1N	1P	1R	1T	1U	1V	1W (NO KEY)	
LEFT GUIDANCE MODULE, WITHOUT END WALLS (SEE SHEET 12)	2A	2B	2C	2D	2E	2F	2G	2H	2J (NO KEY)	
LEFT GUIDANCE MODULE, WITH END WALLS (SEE SHEET 14)	2L	2M	2N	2P	2R	2T	2U	2V	2W (NO KEY)	

spec ref			---		dr		Daniel Xiao		2014/01/21		projection				size		A2		scale		5:1														
tolerance std			ASME Y14.5M			eng		Peng-Bing Fu		2017/11/07						ecn no		ELX-DG-28204-1																	
TOLERANCES UNLESS OTHERWISE SPECIFIED			chr		Justin Chen		2017/11/29		product family		ExaMAX					rel level		Released																	
			appr		Heaven Cen		2017/11/30																												
surface		- ✓		linear		0.X		±.3		Amphenol FCI		title		ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA						dwg no		10124414		rev		B									
																												0.XX		±.10					
																																0.XXX		±.050	
				angular		0°		±2°		cat. no.		SEE TABLE		Product - Customer Drw						sheet 16 of 17															

		1		2		3		4		5		6		7		8			
		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: 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 CENTERLINE SPACING BETWEEN ADJACENT MODULES IS 20.0 mm FOR 10124414-101LF AND 22.0 mm FOR 10124414-102LF. 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, 10124414-2XXLF, WHEN MATED WITH AN ADVANCED MATE RIGHT ANGLE RECEPTACLE, 10124413-2XXLF, 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, 10124414-3XXLF, WHEN MATED WITH A RIGHT ANGLE RECEPTACLE, 10124413-1XXLF, 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, 10124414-4YYLF, WHEN MATED WITH AN ADVANCED MATE RECEPTACLE, 10124413-2YYLF, 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 INTERGRATED GUIDE ORIENTATION IS DETERMINED BY THE LACATION 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 --- tolerance std ASME Y14.5M surface - linear 0.X ±.3 0.XX ±.10 0.XXX ±.050 angular 0° ±2° dr Daniel Xiao 2014/02/21 eng Peng-Bing Fu 2017/11/07 chr Justin Chen 2017/11/29 appr Heaven Cen 2017/11/30 projection  MM size A2 scale 2:1 ecn no ELX-DG-28204-1 rel level Released product family ExaMAX title ExaMAX VERTICAL HEADER ASS'Y, 2 PAIR, 80 POS, 10 IMLA cat. no. SEE TABLE Product - Customer Drw sheet 17 of 17 rev B																	
		1 2 3 4 5 PDS: Rev :B STATUS:Released Printed: Dec 01, 2017																	

spec ref		---		dr		Daniel Xiao		2014/02/21		projection				MM		size		A2		scale		2:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/07						ecn no		ELX-DG-28204-1									
chr				Justin Chen		2017/11/29																			
appr				Heaven Cen		2017/11/30																			
ASME Y14.5M				product family		ExaMAX		rel level										Released							
surface - 		linear		0.X		±.3		Amphenol FCI		title		ExaMAX VERTICAL HEADER		dwg no		10124414		rev		B					
																						0.XX		±.10	
																						0.XXX		±.050	
																						angular		0°	
										cat. no.		SEE TABLE		Product - Customer Drw		sheet 17 of 17									