

PRODUCT NUMBER
SEE SHEET 10

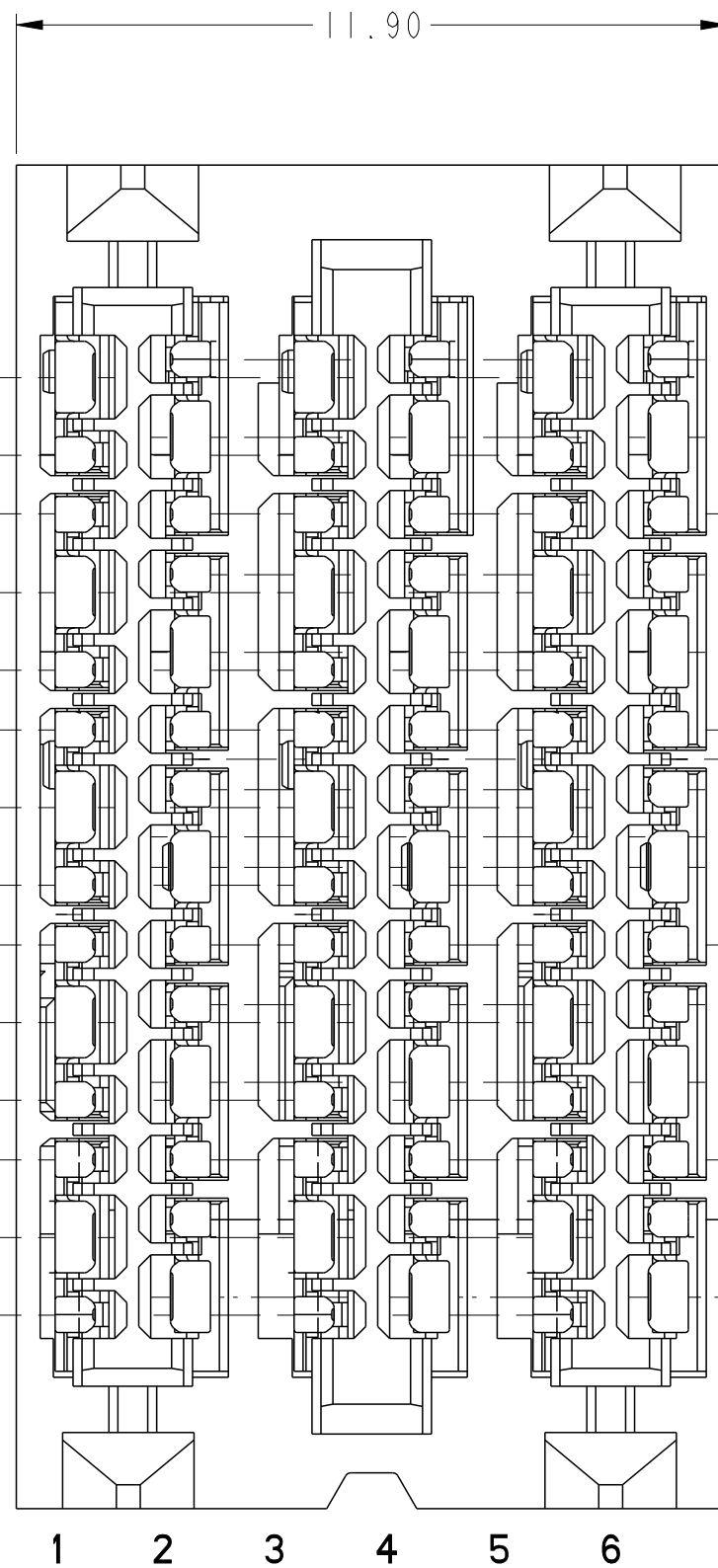
ODD COLUMN
CONTACT ROW ID
ODD AND EVEN
COLUMNS ARE
OFFSET

4X 3.6
GROUND
CENTERS

4X 1.0
SIGNAL PAIR
CENTERS

4X 3.6
SIGNAL
CENTERS
ROW A TO
FIRST GROUND

1.3



EVEN COLUMN
CONTACT ROW ID

4X 3.6
SIGNAL CENTERS

4X 3.6
GROUND CENTERS

4X 1.0
SIGNAL PAIR
CENTERS

1.3
ROW A TO
FIRST GROUND

COLUMN ID

CONNECTOR MATING FACE

HOUSING

SEE NOTE 6

IMLA

ORGANIZER

(17.90)

(4.60)

TOP SURFACE
OF DCARD

CL OF ODD COLUMNS

CL OF EVEN COLUMNS

3.9

4.1

13X 1.20

30X 1.60±0.20
GROUNDS
SEE NOTE 18

54X 1.40±0.20
SIGNALS

10125287-101LF
STANDARD MATE CONNECTOR

spec ref		---		dr		N Eppley		2013/04/24		projection		size		scale	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/08				MM		A2 1:1	
ASME Y14.5M				chr		Justin Chen		2017/11/29							
				appr		Heaven Cen		2017/11/30							
										product family		ExaMAX		ecn no ELX-DG-28221-1	
														rel level Released	
surface - 		linear		Amphenol FCI		title ExaMAX R.A. HEADER		ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM		dwg no 10125287		rev B			
														0.X ±.3	
														0.XX ±.10	
		0.XXX ±.050													
		angular				cat. no.		SEE TABLE		Product - Customer Drw		sheet 1 of 11			

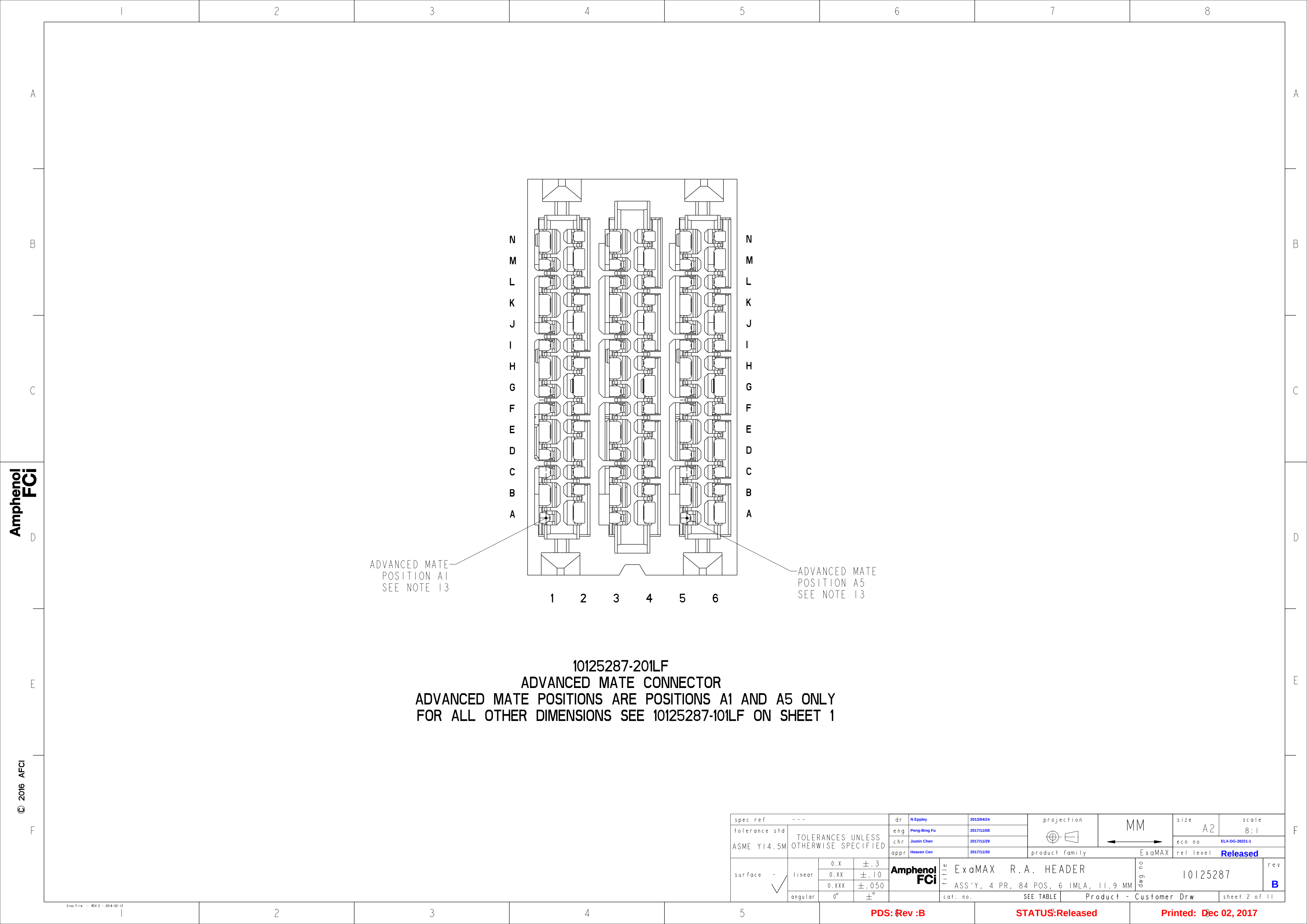
PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

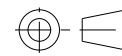
Amphenol
FCI

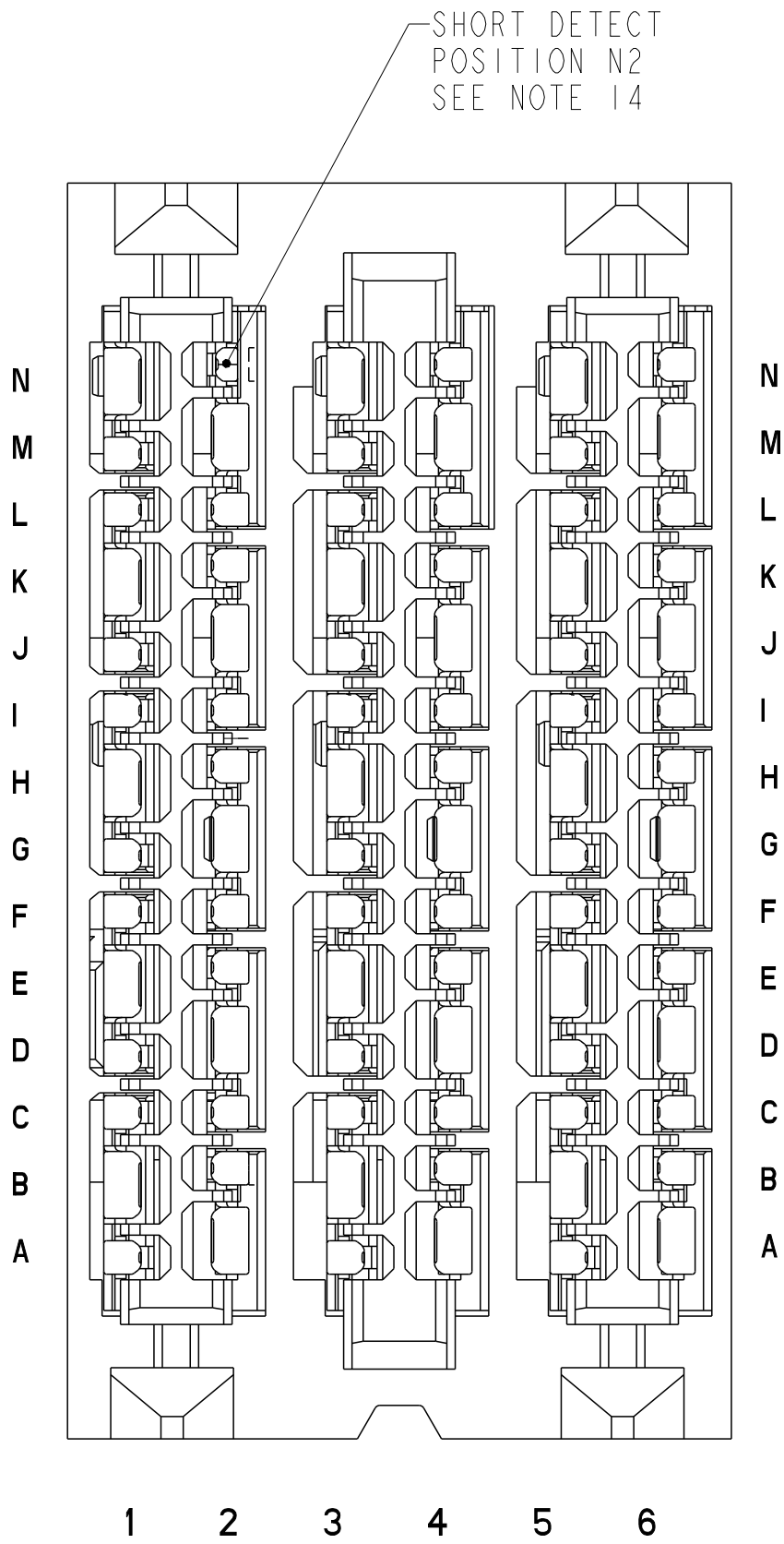
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Amphenol
FCi

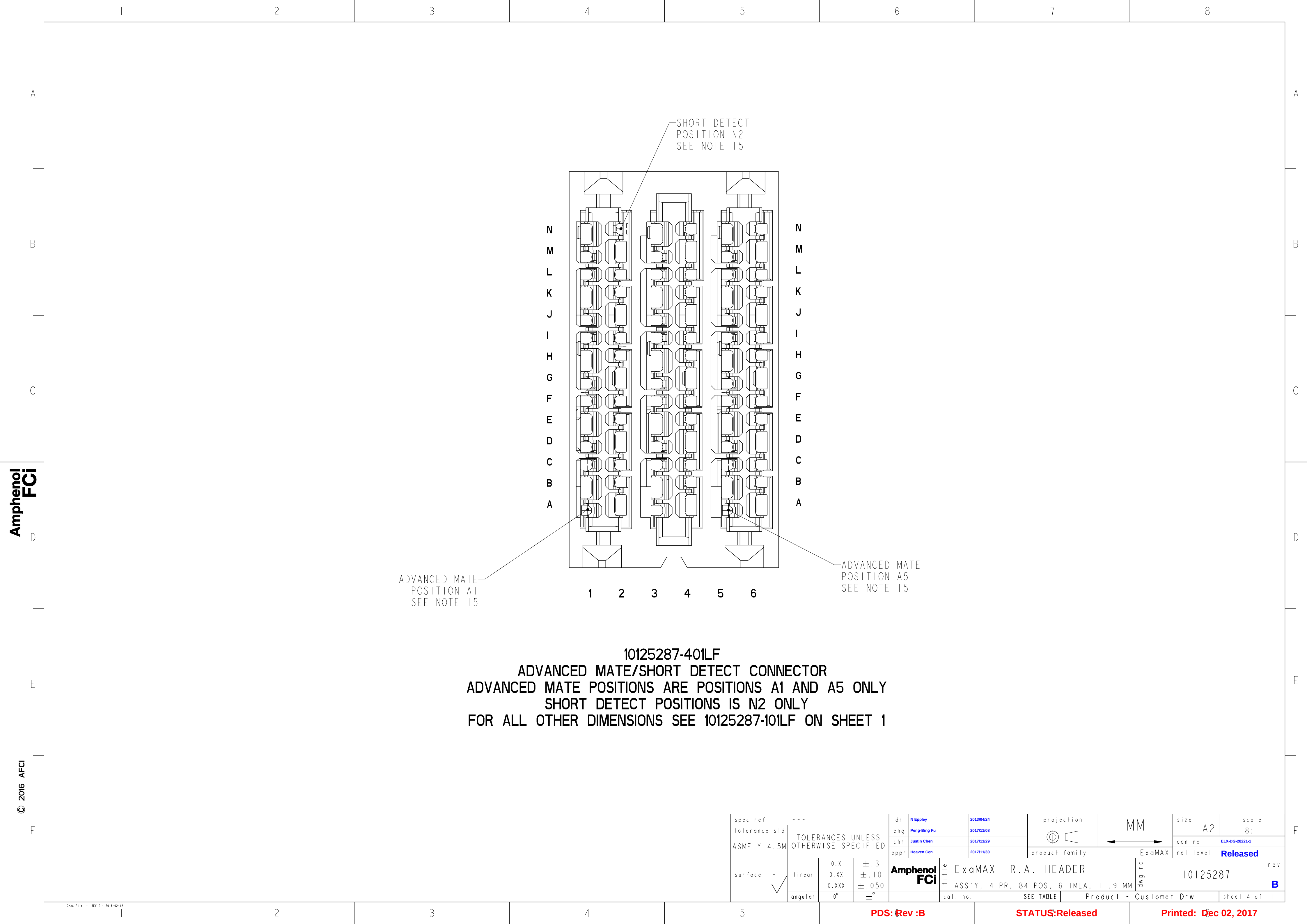
© 2016 APCI

spec ref				---		dr		N Eppley		2013/04/24		projection		MM		size		A2		scale		8:1	
tolerance std				ASME Y14.5M		eng		Peng-Bing Fu		2017/11/08						ecn no		ELX-DG-28221-1					
				TOLERANCES UNLESS OTHERWISE SPECIFIED		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 R.A. HEADER		dwg no		10125287		rev		B			
				0.XX		±.10																	
				0.XXX		±.050																	
		angular		0°		±°																	
										cat. no.		SEE TABLE		Product - Customer Drw				sheet 2 of 11					



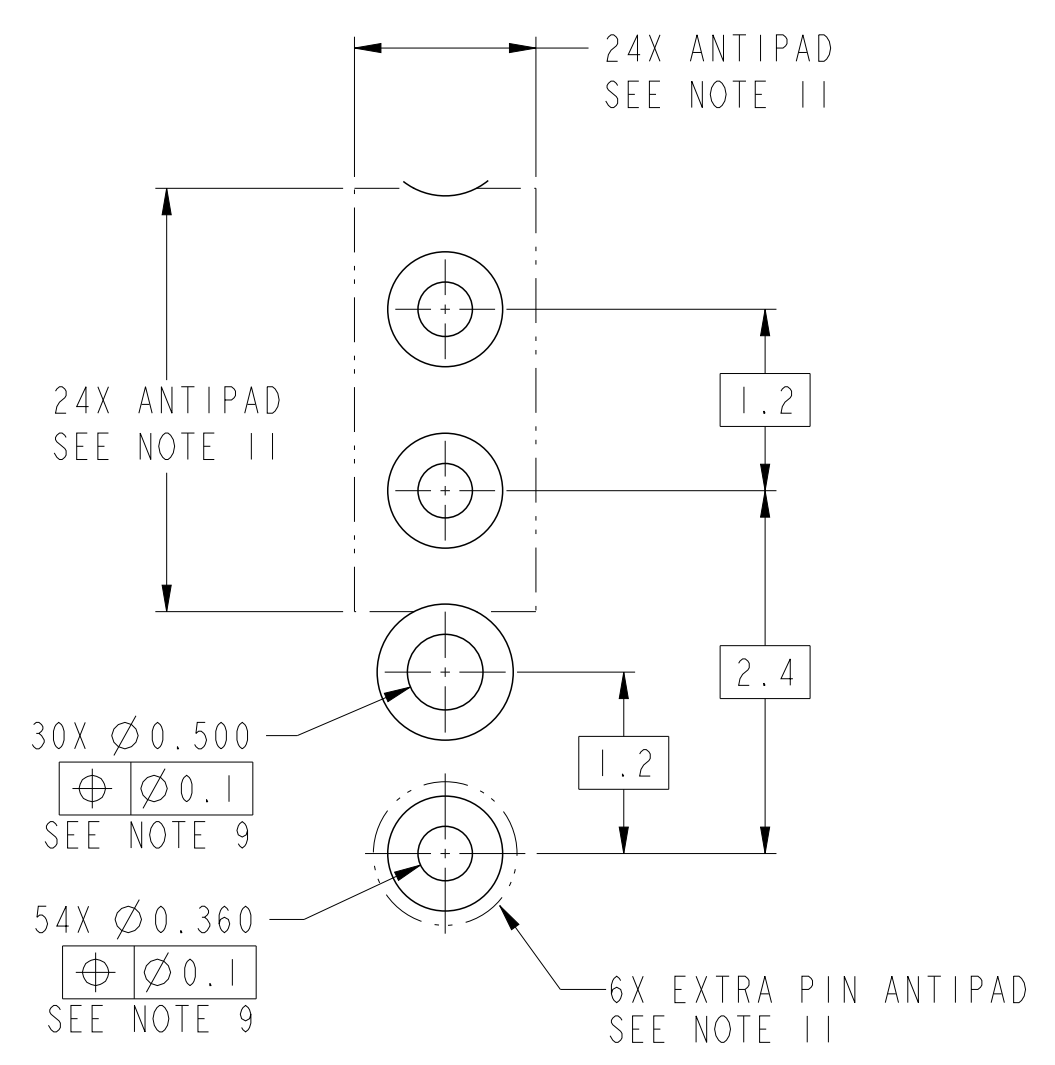
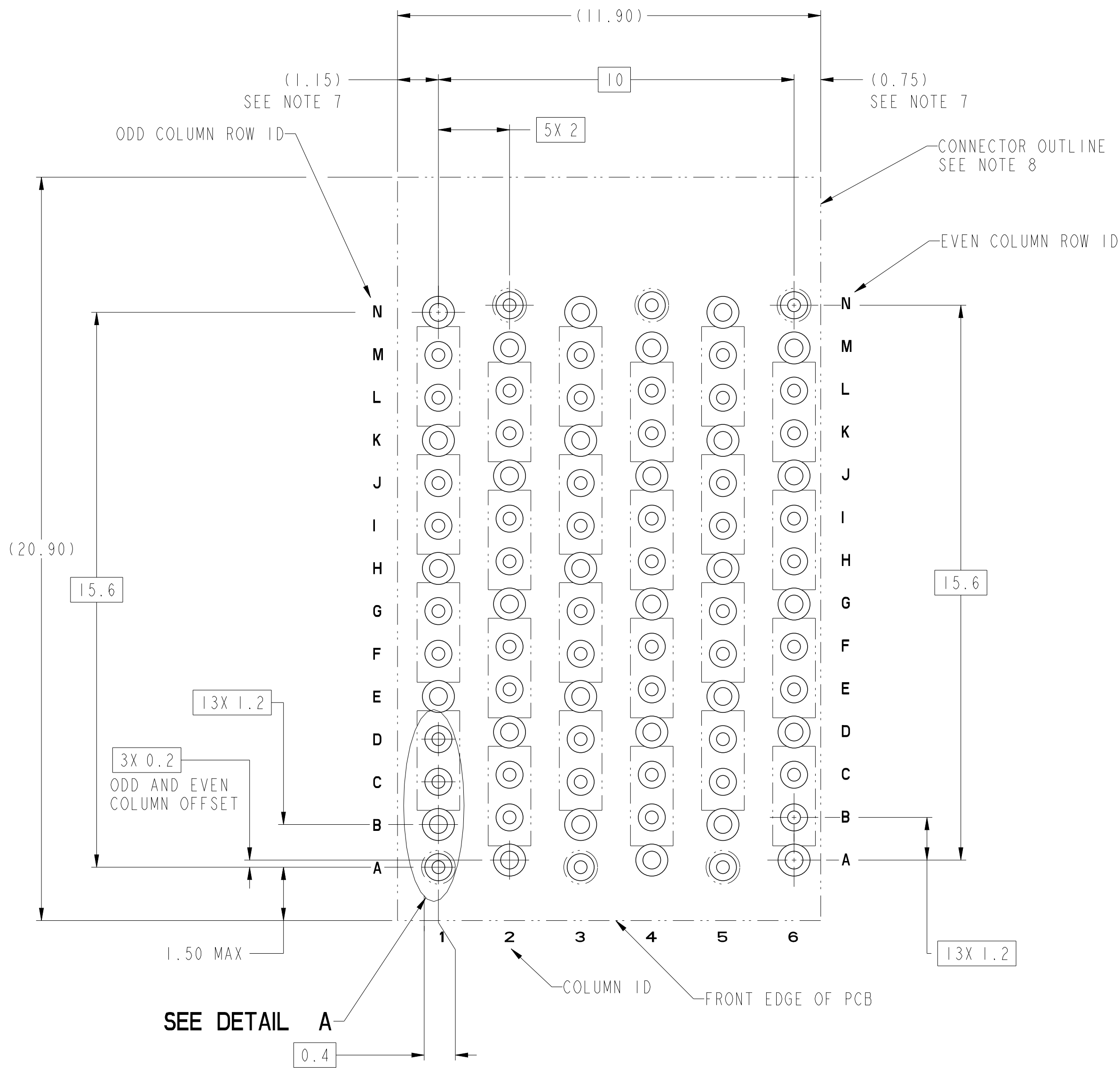
10125287-301LF
SHORT DETECT CONNECTOR
SHORT DETECT POSITIONS IS N2 ONLY
FOR ALL OTHER DIMENSIONS SEE 10125287-101LF ON SHEET 1

spec ref ---				dr N Eppley2013/04/24		projection		MM		size A2		scale 8:1							
tolerance std				eng Peng-Bing Fu2017/11/08						ecn no ELX-DG-28221-1									
ASME Y14.5M				chr Justin Chen2017/11/29						rel level Released									
				appr Heaven Cen2017/11/30						product family ExaMAX									
TOLERANCES UNLESS OTHERWISE SPECIFIED				Amphenol FCI		title ExaMAX R.A. HEADER						dwg no 10125287		rev B					
surface -				linear		0.X ±.3		0.XX ±.10		0.XXX ±.050		angular 0° ±°		cat. no. SEE TABLE		Product - Customer Drw		sheet 3 of 11	



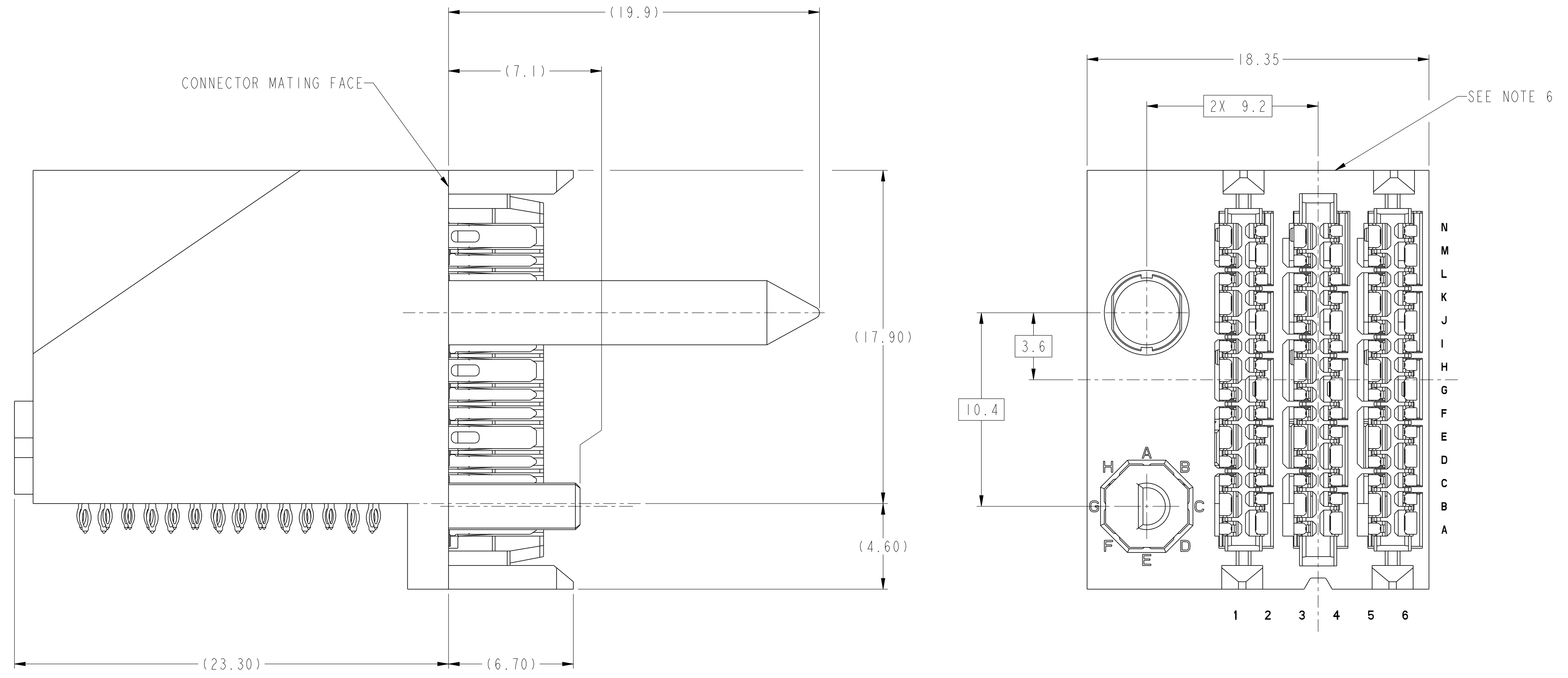
10125287-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
SHORT DETECT POSITIONS IS N2 ONLY
FOR ALL OTHER DIMENSIONS SEE 10125287-101LF ON SHEET 1

spec ref		---		dr	N Eppley	2013/04/24			size	A2	scale	8:1			
tolerance std		eng				Peng-Bing Fu							2017/11/08		
ASME Y14.5M		chr				Justin Chen							2017/11/23		
		appr				Heaven Cen	2017/11/30	product family		ExaMAX		rel level	Released		
surface	-	linear	0.X	±.3	Amphenol FCI	title	ExaMAX R.A. HEADER				dwg no	10125287		rev	B
			0.XX	±.10											
			0.XXX	±.050			ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM								
		angular	0°	±°								cat. no.	SEE TABLE		



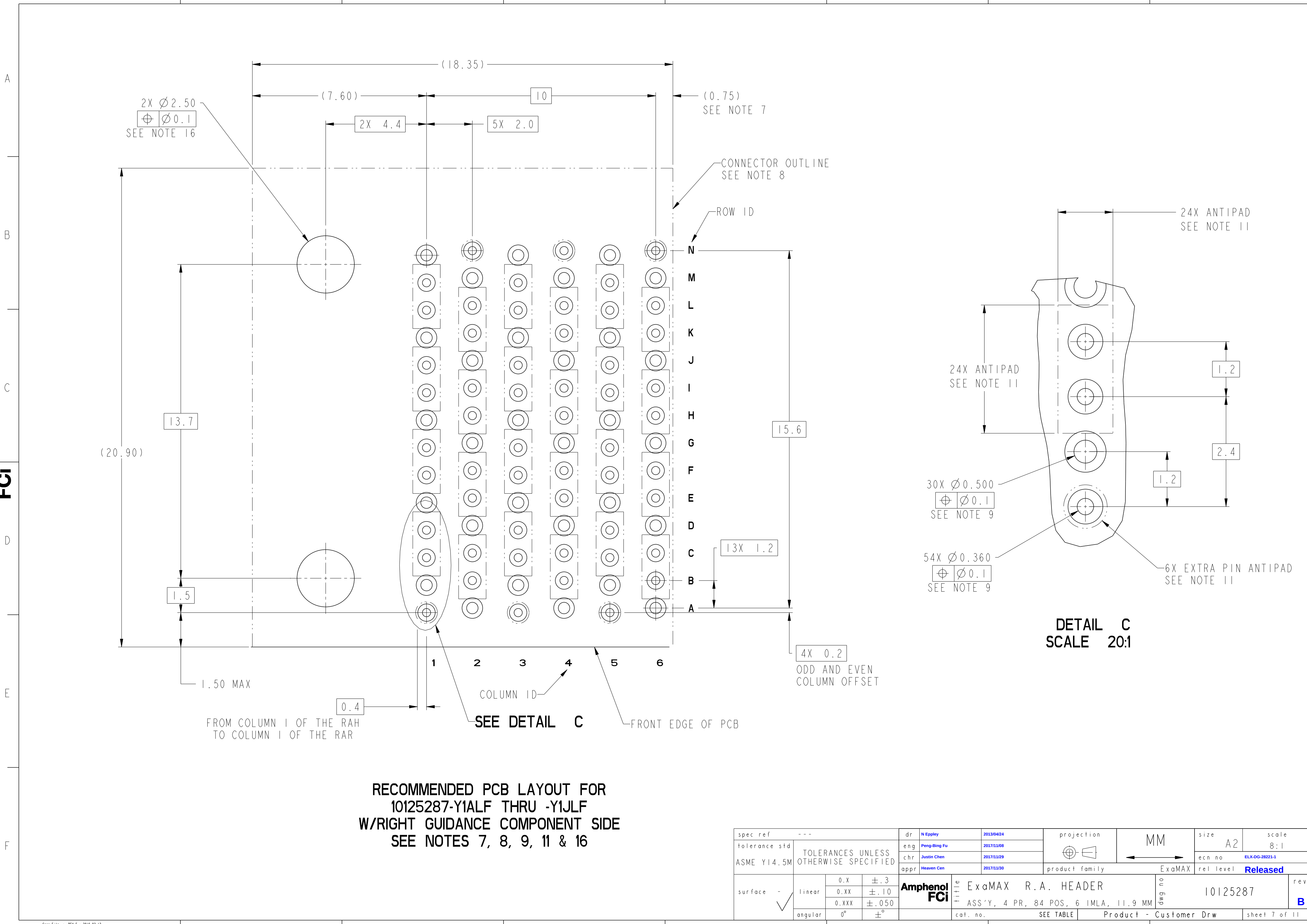
RECOMMENDED PCB LAYOUT
10125287-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9 & 11
SCALE 10:1

spec ref	---	dr	N Eppley	2013/04/24	projection	MM	size	A2	scale	1:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/08	chr	Justin Chen	2017/11/29	ecn no	ELX-DG-28221-1	
surface	-	appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level	Released		
linear	0.X ±.3 0.XX ±.10 0.XXX ±.050	Amphenol FCi	title	ExaMAX R.A. HEADER ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM	ang no	10125287	rev	B		
angular	0° ±°		cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 11				



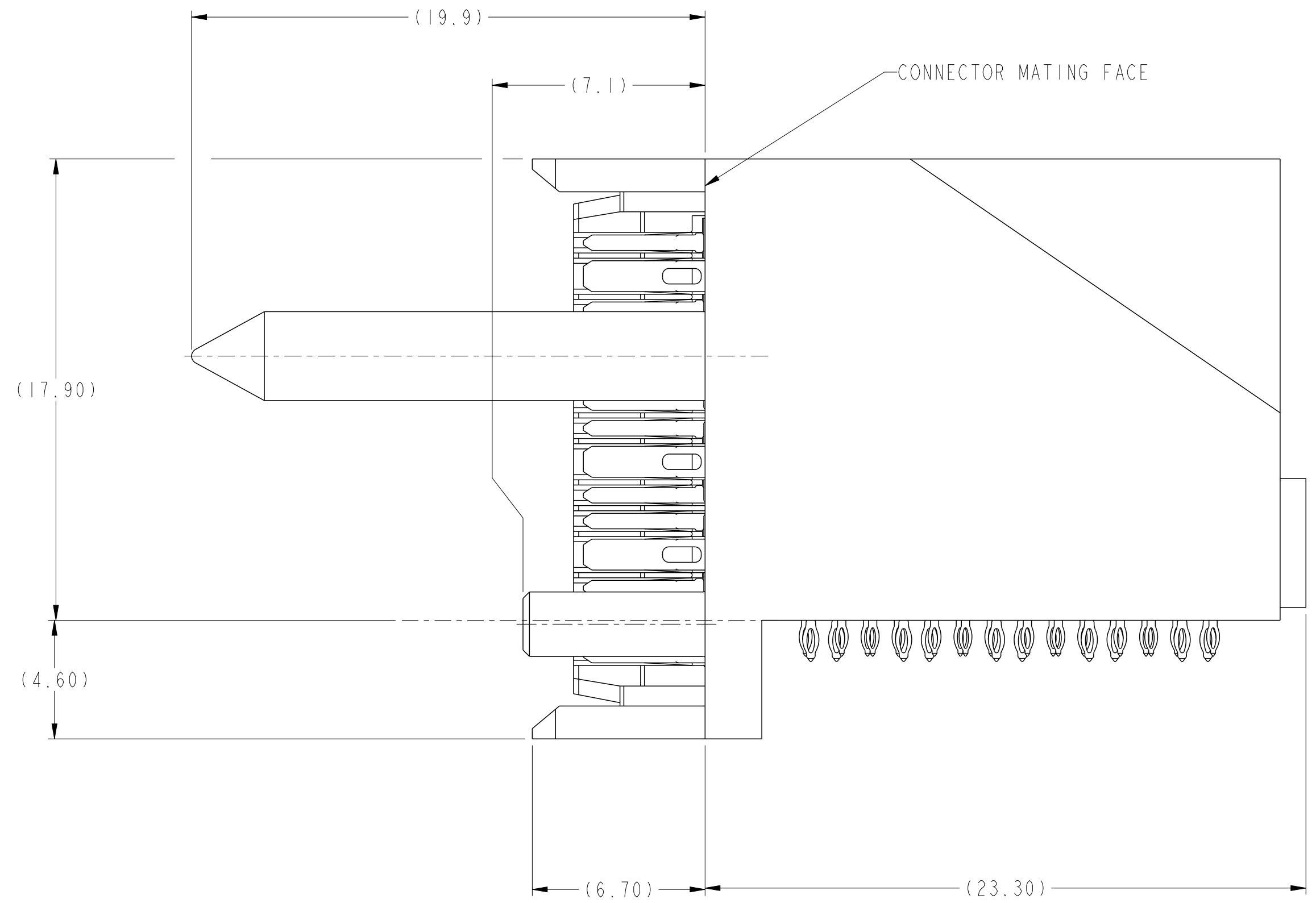
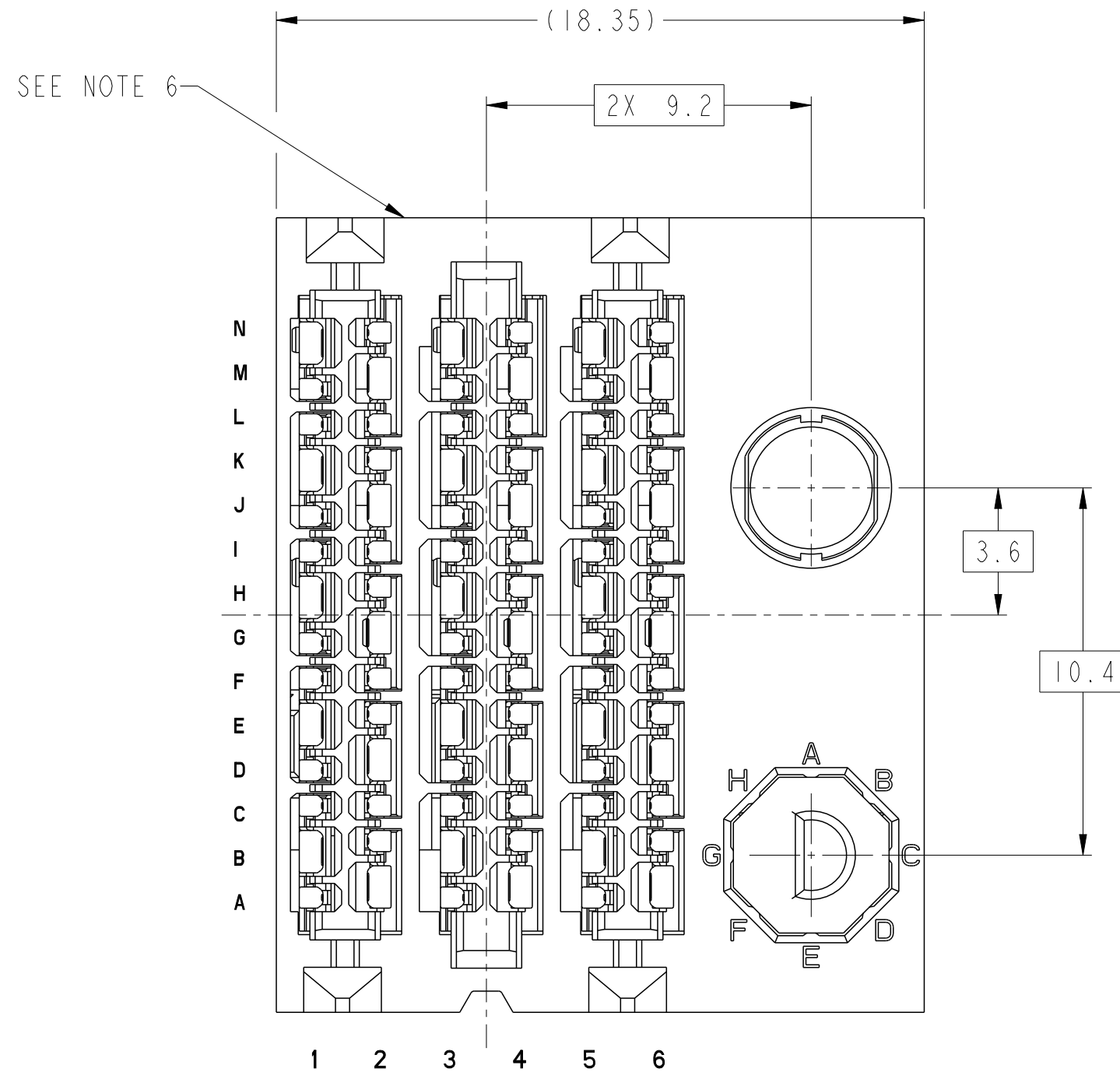
10125287-Y1ALF THRU -Y1JLF
RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref		---		dr		N Eppley		2013/04/24		projection		MM		size		A2		scale		8:1							
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/08						ecn no		ELX-DG-28221-1											
chr				Justin Chen		2017/11/29		rel level						Released													
ASME Y14.5M				appr		Heaven Cen		2017/11/30						product family		ExaMAX											
surface		-				Amphenol FCI		title		ExaMAX R.A. HEADER		dwg no		10125287		rev		B									
																				cat. no.		SEE TABLE		Product - Customer Drw		sheet 6 of 11	
																				ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM							
linear		0.X		±.3																							
		0.XX		±.10																							
		0.XXX		±.050																							
angular		0°		±°																							



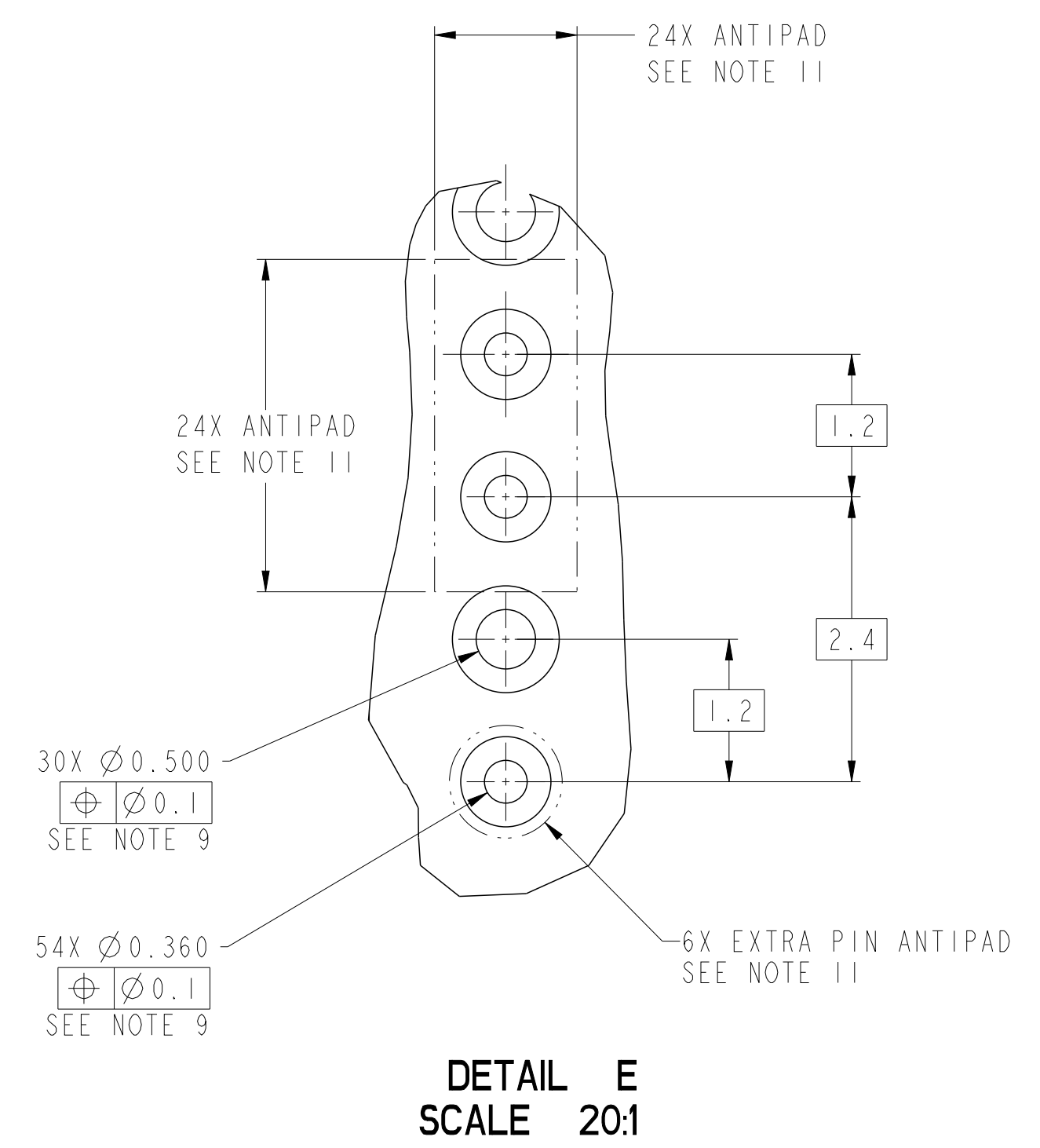
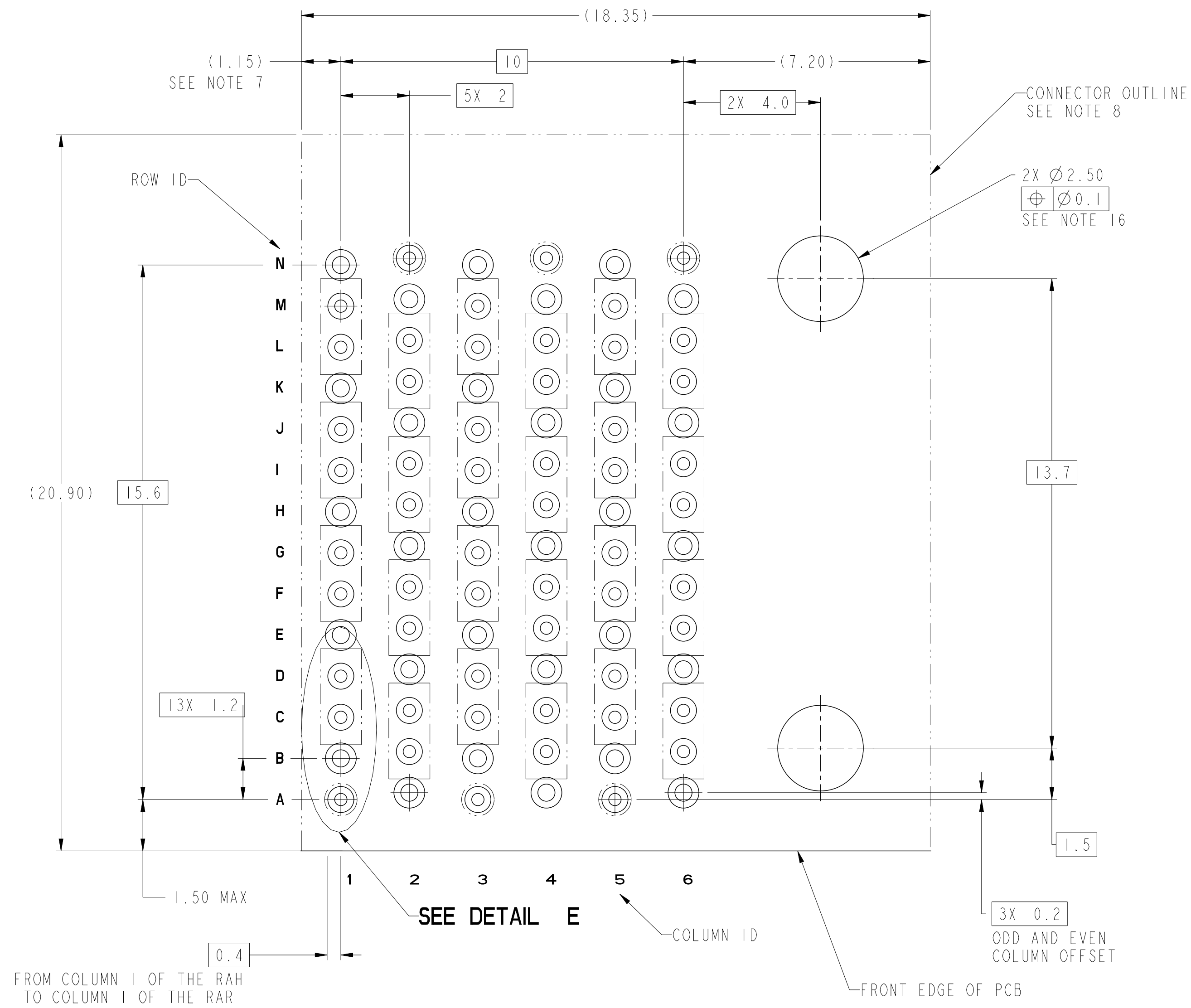
RECOMMENDED PCB LAYOUT FOR
10125287-Y1ALF THRU -Y1JLF
W/RIGHT GUIDANCE COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16

spec ref		---		dr		N Eppley		2013/04/24		projection		MM		size		scale									
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/08						A2		8:1									
ASME Y14.5M				chr		Justin Chen		2017/11/29						ecn no		ELX-DG-28221-1									
				appr		Heaven Cen		2017/11/30						product family		ExaMAX		rel level		Released					
surface		- 		linear		0.X		±.3		Amphenol FCI		title		ExaMAX R.A. HEADER		dwg no		10125287		rev					
																						0.XX		±.10	
																						0.XXX		±.050	
		angular		0°		±°				cat. no.		SEE TABLE		Product - Customer Drw		sheet 7 of 11									



10125287-Y2ALF THRU -Y2JLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref	---	dr	N'Eppley	2013/04/24	projection	MM	size	A2	scale	8:1
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/08	chr	Justin Chen	2017/11/29	ecn no	ELX-DG-28221-1	
		appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level	Released		
surface	-	linear	0.X	±.3	Amphenol FCi	title	ExaMAX R.A. HEADER	dwg no	10125287	rev
			0.XX	±.10			ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM			B
		angular	0°	±°		cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11	

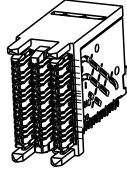
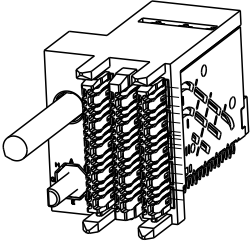
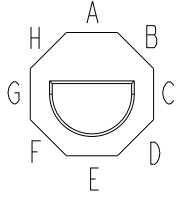
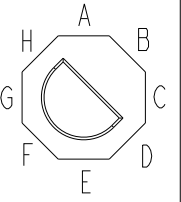
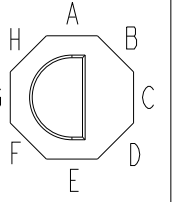
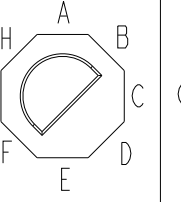
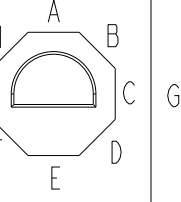
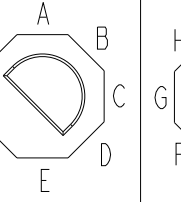
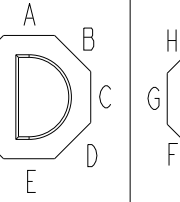
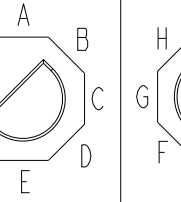
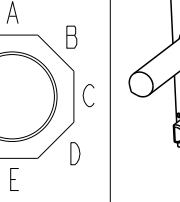
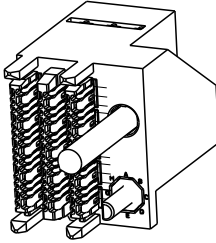
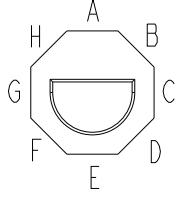
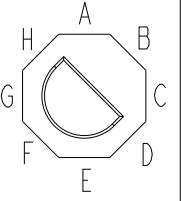
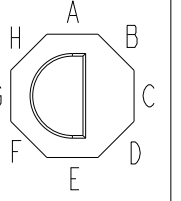
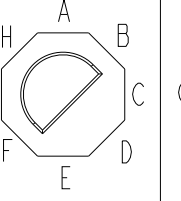
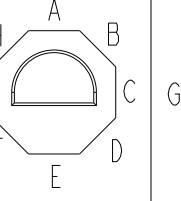
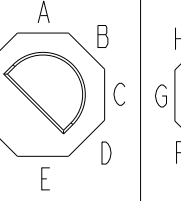
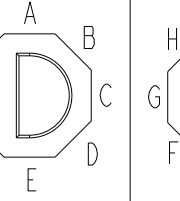
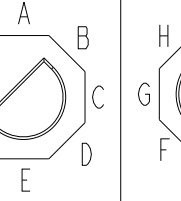
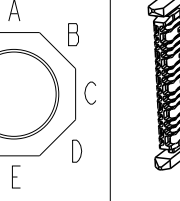


RECOMMENDED PCB LAYOUT FOR
10125287-Y2ALF THRU -Y2JLF
W/LEFT GUIDANCE COMPONENT SIDE
SEE NOTES 7, 8, 9, 11 & 16

spec ref				---		dr		N Eppley		2013/04/24		projection		MM		size		scale									
tolerance std				ASME Y14.5M		eng		Peng-Bing Fu		2017/11/08						A2		8:1									
TOLERANCES UNLESS OTHERWISE SPECIFIED						chr		Justin Chen		2017/11/29						ecn no				ELX-DG-28221-1							
						appr		Heaven Cen		2017/11/30						product family				ExaMAX				rel level		Released	
surface		- 		linear		0.X 0.XX 0.XXX		±.3 ±.10 ±.050		Amphenol FCI		title		ExaMAX R.A. HEADER ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM						dwg no		10125287		rev		B	
												cat. no.				SEE TABLE				Product - Customer Drw				sheet 9 of 11			

10125287 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10125287-1YYLF	STANDARD MATE
10125287-2YYLF	ADVANCED MATE
10125287-3YYLF	SHORT DETECT
10125287-4YYLF	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		---		dr		N Eppley		2013/04/24		projection				size		A2		scale		1:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Peng-Bing Fu		2017/11/08						ecn no		ELX-DG-28221-1					
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 0.XX ±.10 0.XXX ±.050				title		ExaMAX R.A. HEADER ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM		dwg no		10125287		rev		B			
		angular		0° ±°																	
										cat. no.		SEE TABLE		Product - Customer Drw		sheet 10 of 11					

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NOTES:

1

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

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 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 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, 10125287-2YYLF, 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, 10125287-3YYLF, WHEN MATED
WITH A STANDARD MATE RECEPTACLE WILL PROVIDE 1 PAIR
OF MATING CONTACTS THAT MATE 1.00 MM AFTER THE
REMAINDER OF THE SIGNAL AND GROUND CONTACTS.

15

THE ADVANCED MATE/SHORT DETECT HEADER, 10125287-4YYLF, WHEN MATED
WITH AN ADVANCED MATE RECEPTACLE WILL PROVIDE 2 PAIRS OF MATING
CONTACTS THAT MATE 0.75 MM BEFORE THE REMAINDER OF THE SIGNAL AND
GROUND CONTACTS AND 1 PAIR OF MATING CONTACTS THAT MATE 1.00 MM
AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.

16

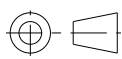
FOR CONNECTORS WITH EITHER A RIGHT OR LEFT GUIDE MODULE, TWO PHILLIPS PAN HEAD M2
HOLD-DOWN SCREWS MUST BE USED TO SECURE THE CONNECTOR TO THE PCB. THE SCREW LENGTH
SHALL BE 2.0-6.0MM PLUS THE THICKNESS OF THE PCB. SCREWS ARE NOT PROVIDED WITH CONNECTOR.

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 RIGHT ANGEL HEADER MATES WITH A RIGHT ANGEL RECEPTACLE.)

18

ALL GROUND CONTACTS ARE COMMONED WITHIN A COLUMN.

spec ref	---	dr	N'Eppley	2013/04/24	projection		size	A2	scale	1:1		
tolerance std	ASME Y14.5M	eng	Peng-Bing Fu	2017/11/08	chr	Justin Chen	ecn no	ELX-DG-28221-1				
		appr	Heaven Cen	2017/11/30	product family	ExaMAX		rel level	Released			
surface	- 	linear	0.X	±.3	Amphenol FCi	title	ExaMAX R.A. HEADER		dwg no	10125287	rev	B
			0.XX	±.10			ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM					
		angular	0°	±°								
		cat. no.		SEE TABLE	Product - Customer Drw		sheet 11 of 11					

PDS: Rev :B

STATUS:Released

Printed: Dec 02, 2017

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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