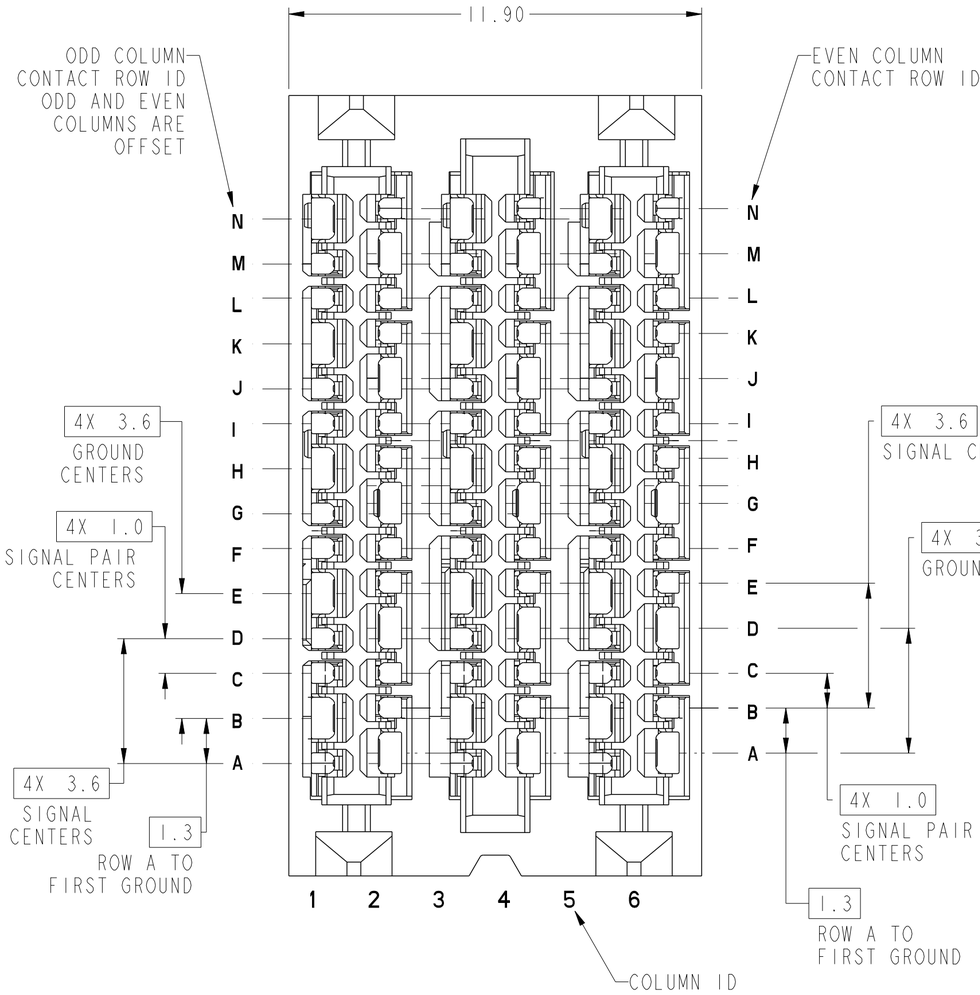
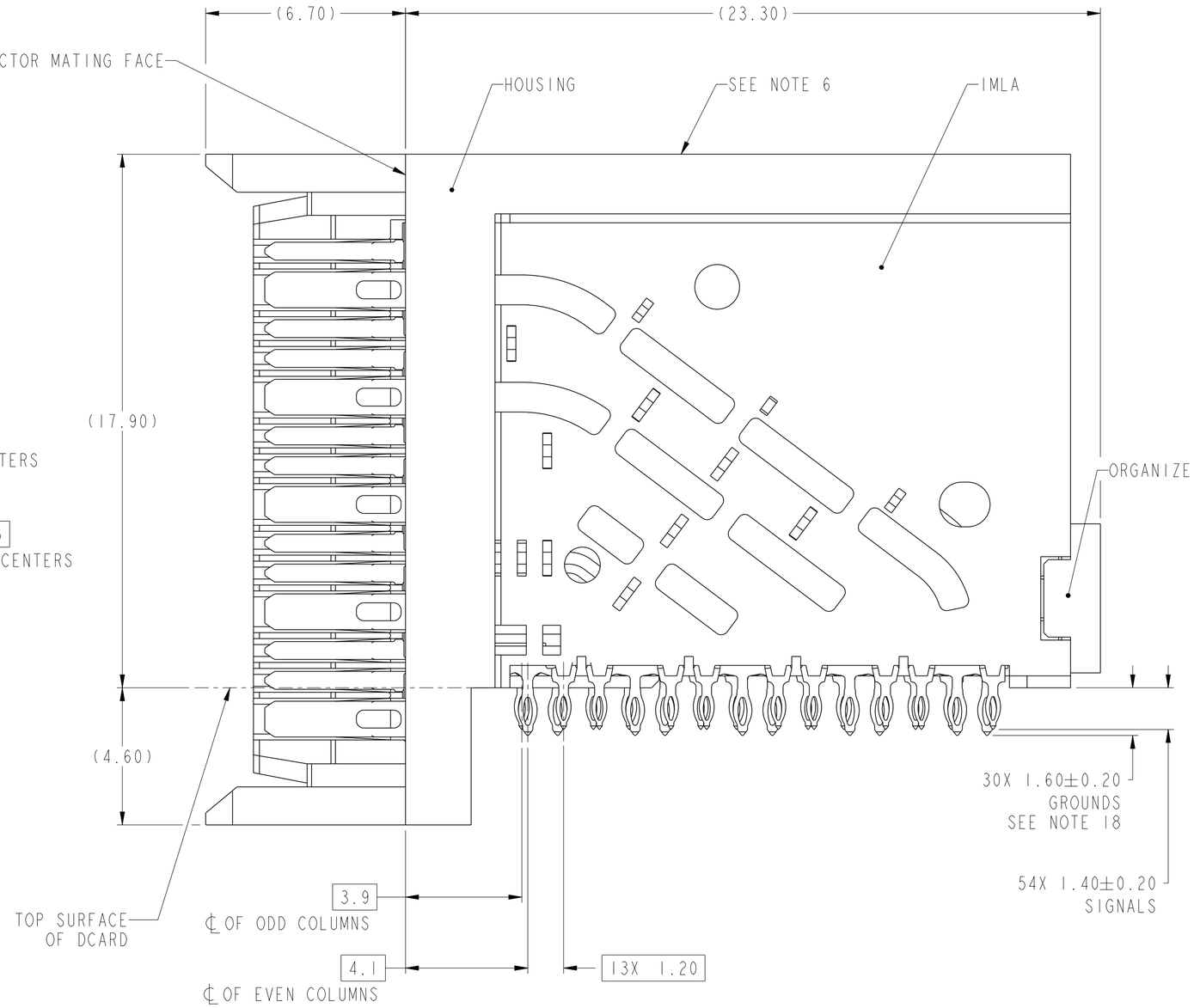
PRODUCT NUMBER
SEE SHEET 10





10125287-101LF
STANDARD MATE CONNECTOR

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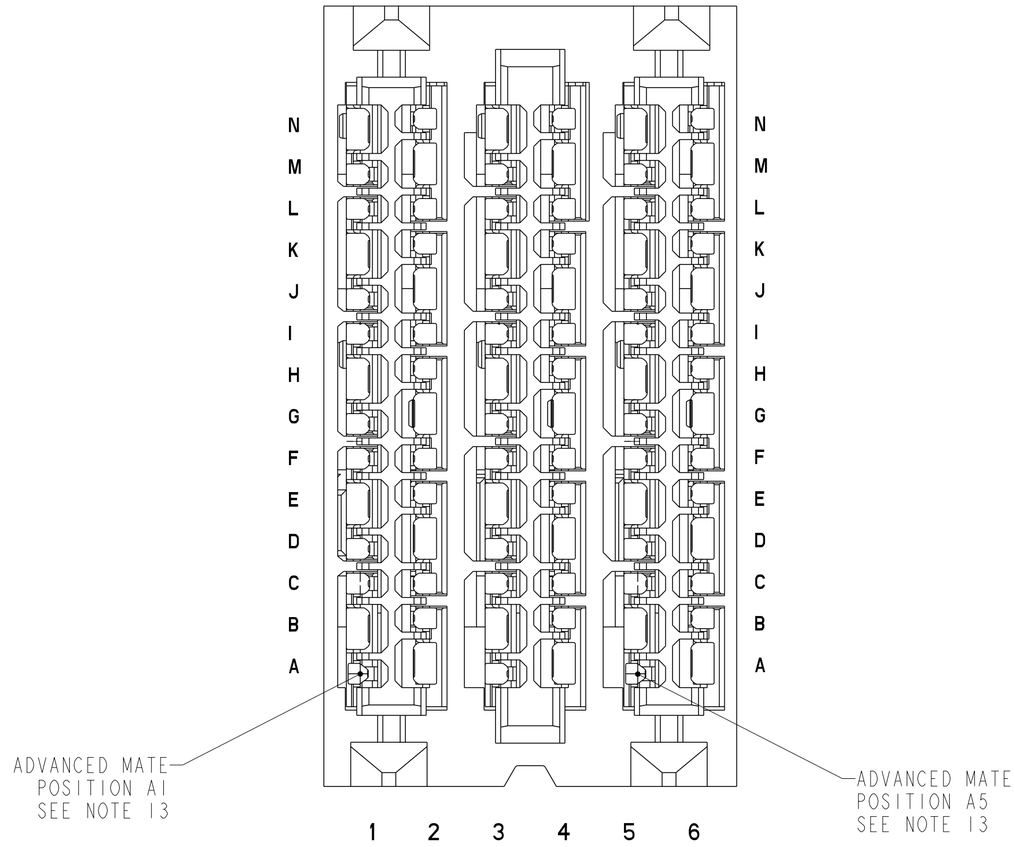
spec ref	---		dr	N Eppley	2013/04/24	projection	MM
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2017/11/08	size A2	scale 1:1
			chr	Justin Chen	2017/11/29	ecn no	ELX-DG-28221-1
			appr	Heaven Cen	2017/11/30	product family	ExaMAX
surface -	linear	0.X ±.3	Amphenol FCI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



10125287-201LF
ADVANCED MATE CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
FOR ALL OTHER DIMENSIONS SEE 10125287-101LF ON SHEET 1

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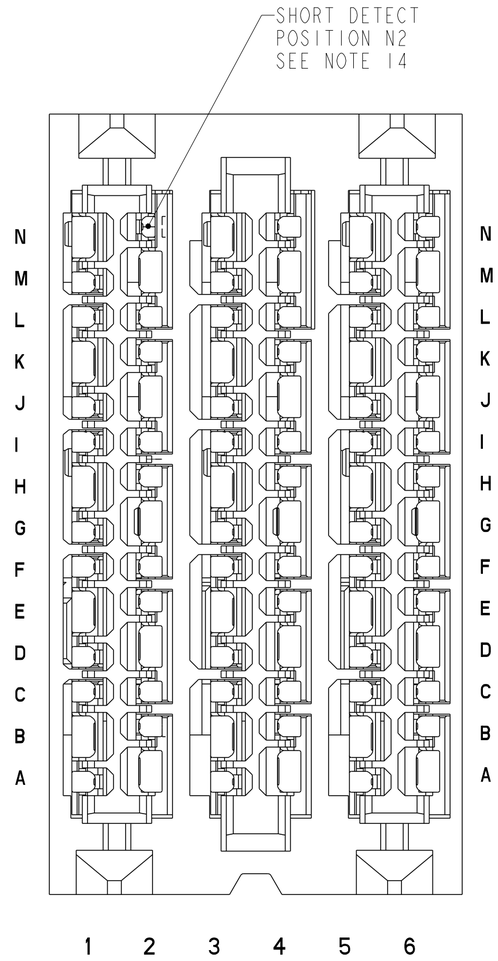
spec ref	---		dr	N Eppley	2013/04/24	projection	MM	size A2 / scale 8:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2017/11/08			
			chr	Justin Chen	2017/11/29			ecn no ELX-DG-28221-1
			appr	Heaven Cen	2017/11/30	product family ExaMAX		rel level Released
surface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

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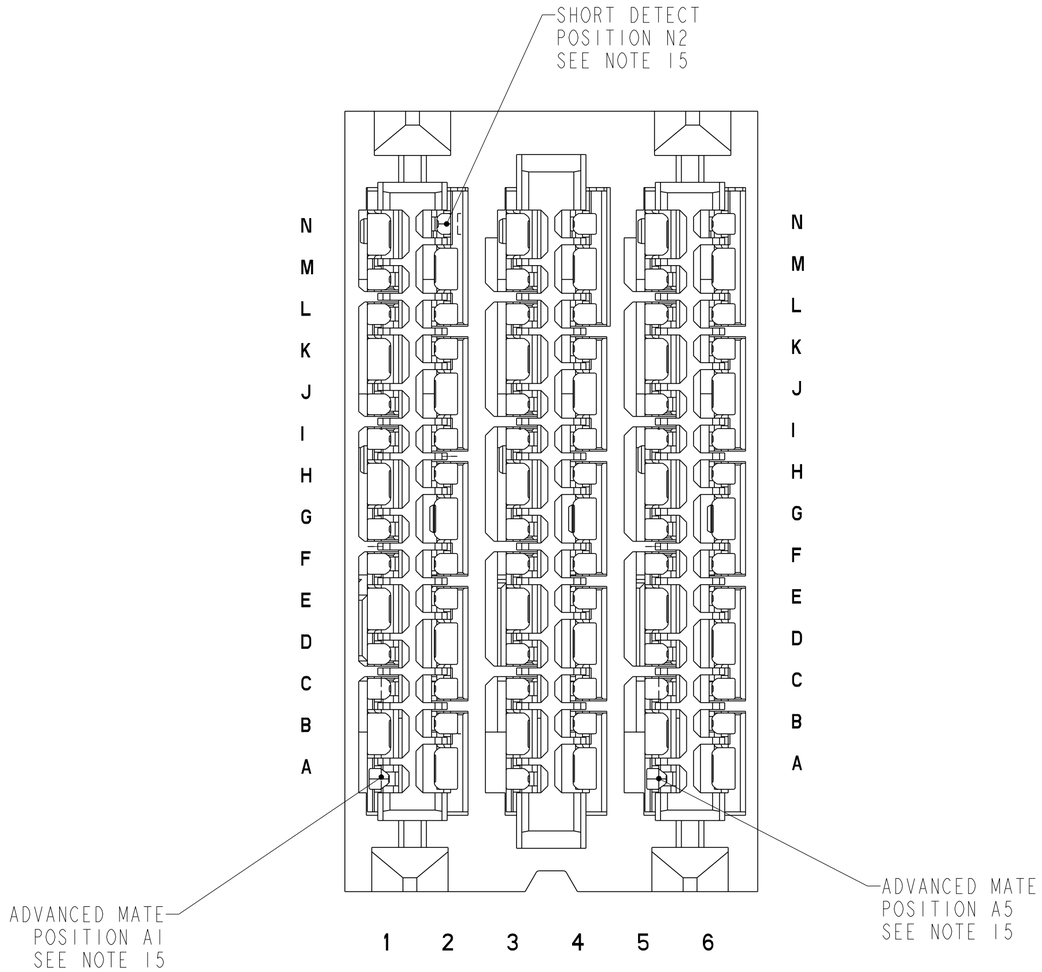
spec ref	- - -			dr	N Eppley	2013/04/24	projection	MM	size A2 / scale 8:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Peng-Bing Fu	2017/11/08			ecn no ELX-DG-28221-1
				chr	Justin Chen	2017/11/29			
				appr	Heaven Cen	2017/11/30	product family	ExaMAX	rel level Released
surface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

Amphenol FCi
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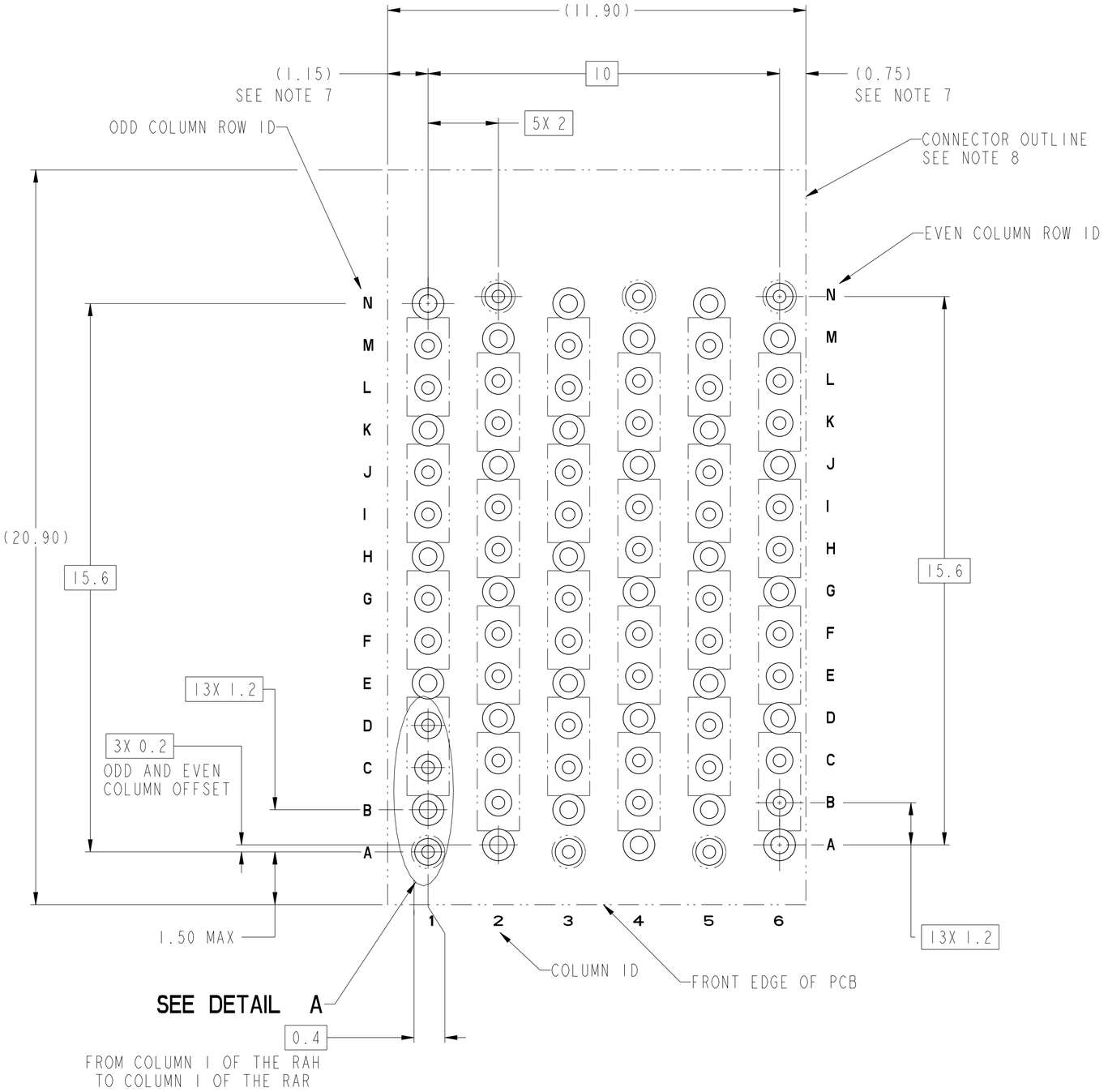

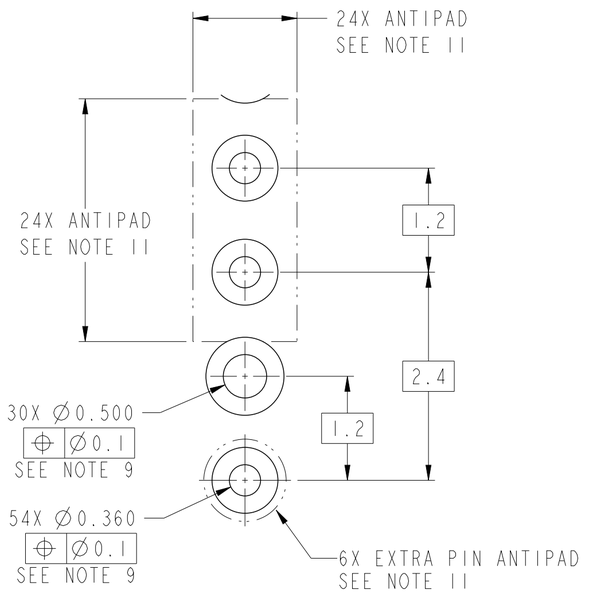

DETAIL A
SCALE 20:1

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

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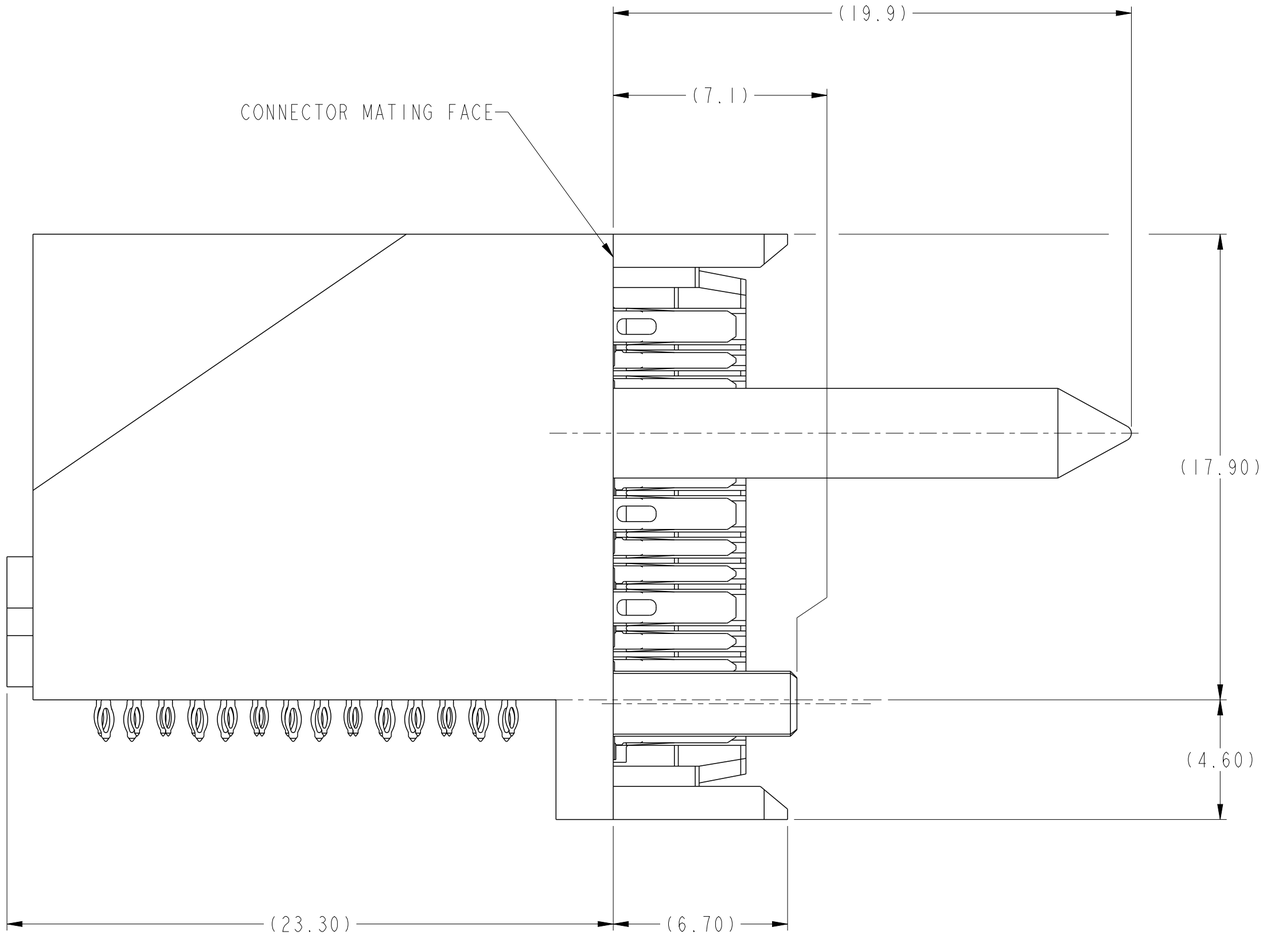
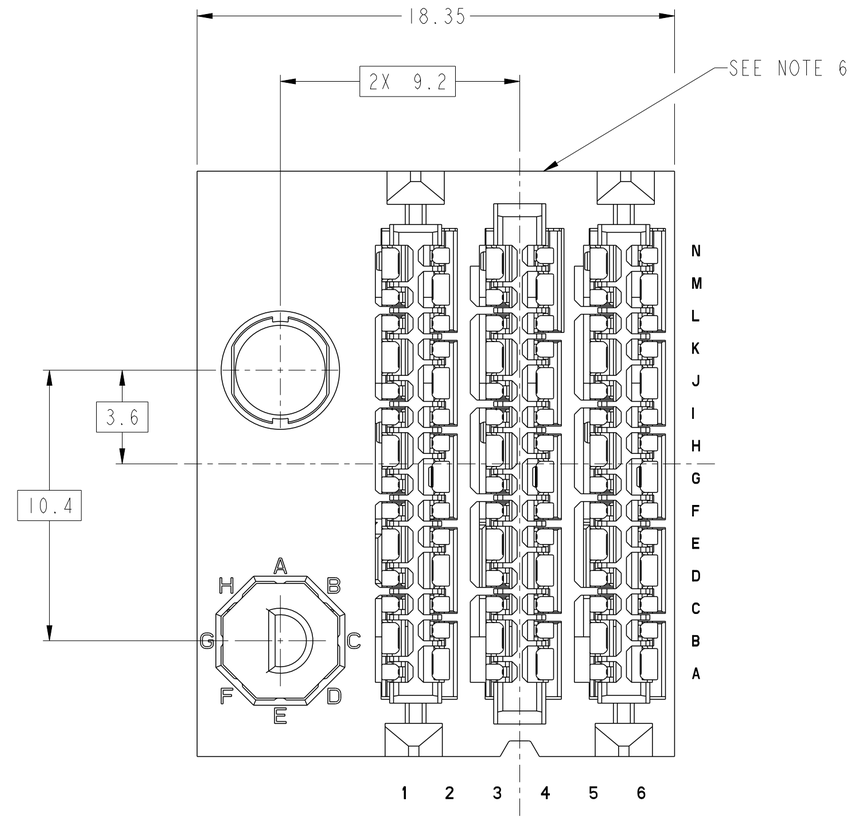
spec ref	---		dr	N Eppley	2013/04/24	projection	MM	size A2 / scale 1:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2017/11/08			
			chr	Justin Chen	2017/11/29			ecn no ELX-DG-28221-1
			appr	Heaven Cen	2017/11/30	product family ExaMAX		rel level Released
surface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





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

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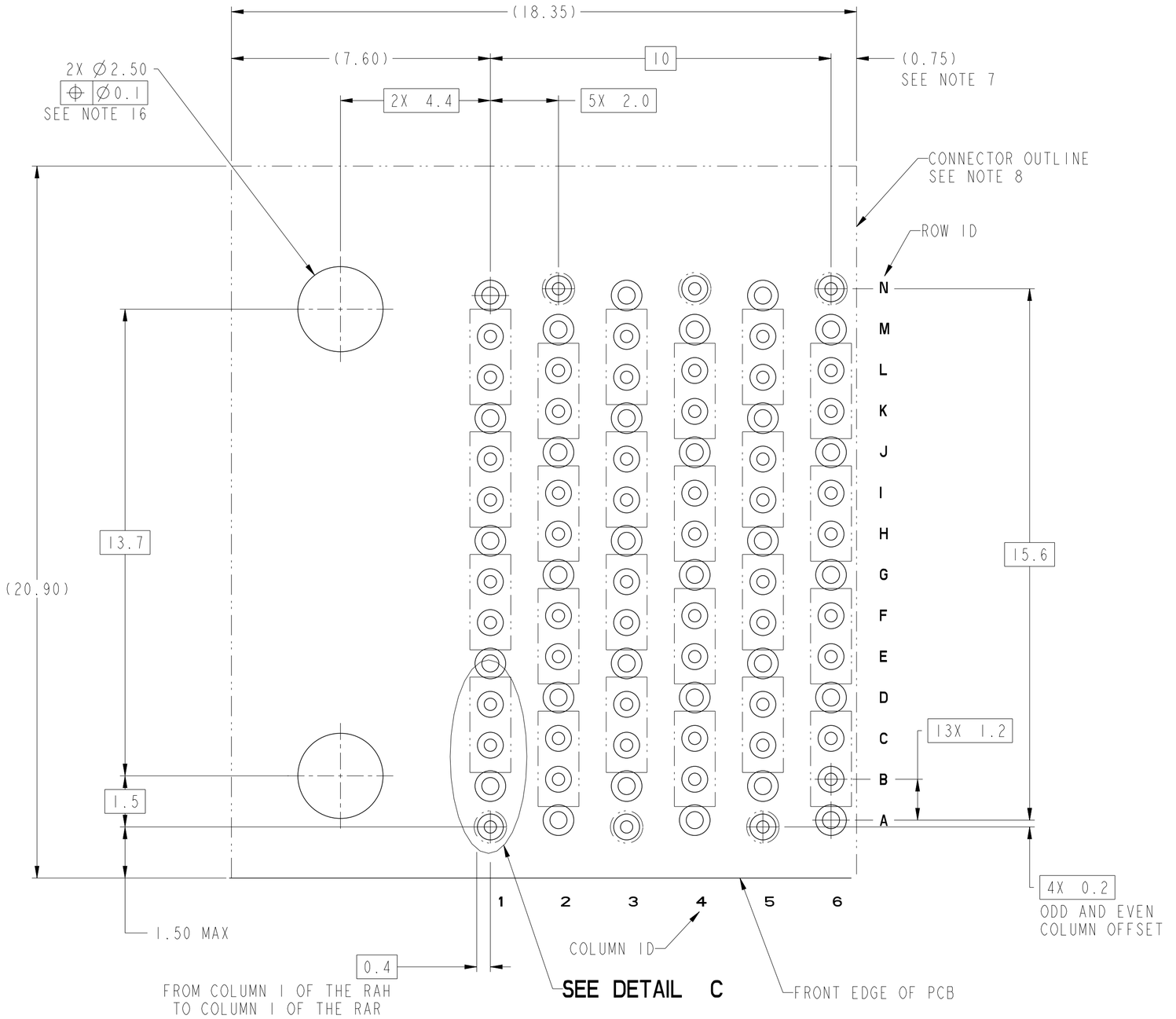
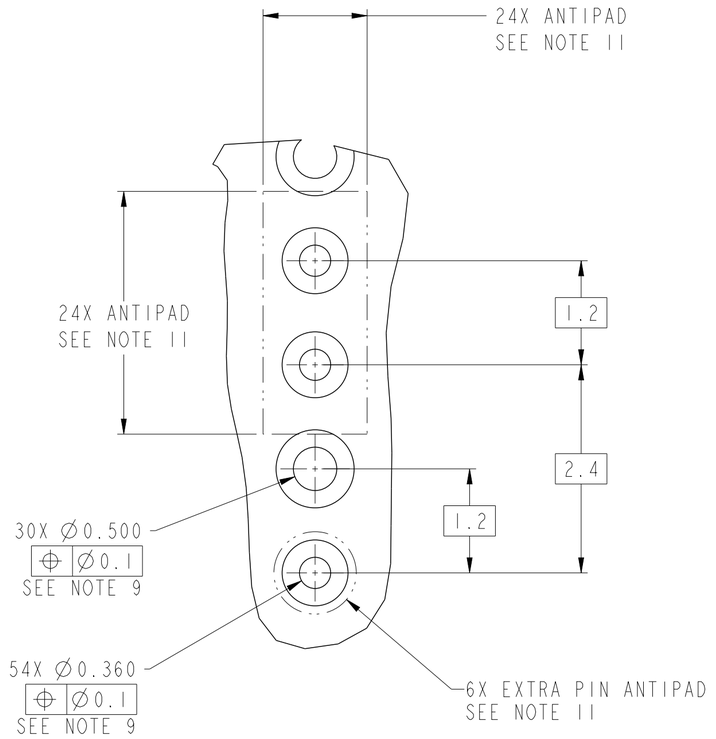
spec ref	---		dr	N Eppley	2013/04/24	projection	MM	size A2 / scale 8:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2017/11/08			
			chr	Justin Chen	2017/11/29			ecn no ELX-DG-28221-1
			appr	Heaven Cen	2017/11/30	product family ExaMAX		rel level Released
surface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





DETAIL C
SCALE 20:1

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 A2	scale 8:1
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		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 ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM			dwg no	10125287	rev B
		0.XX ±.10							
		0.XXX ±.050							
	angular	0° ±°		cat. no.	SEE TABLE	Product - Customer Drw		sheet 7 of 11	

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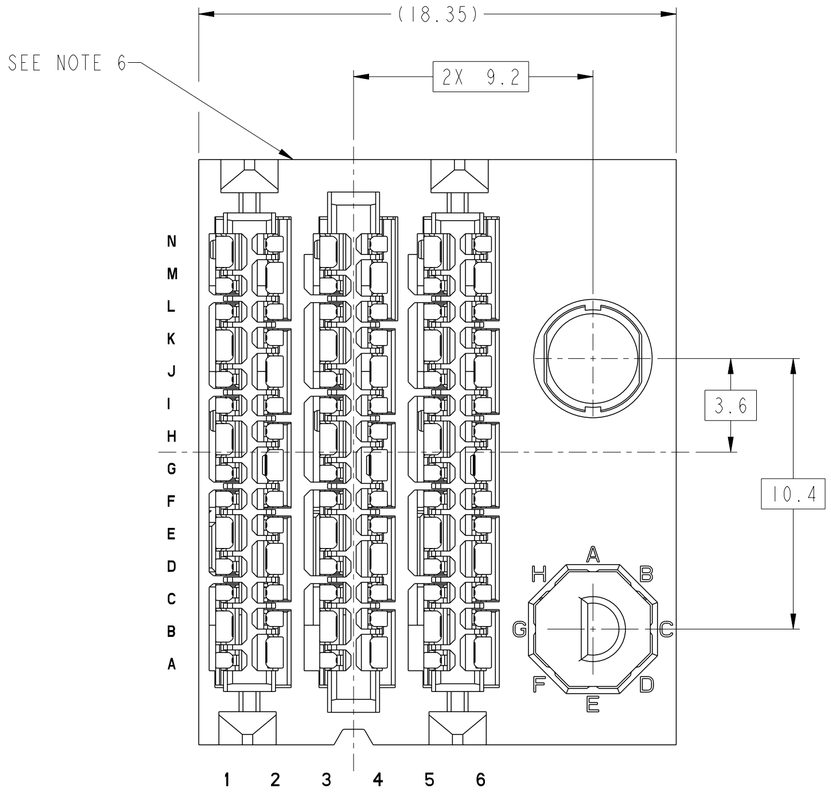

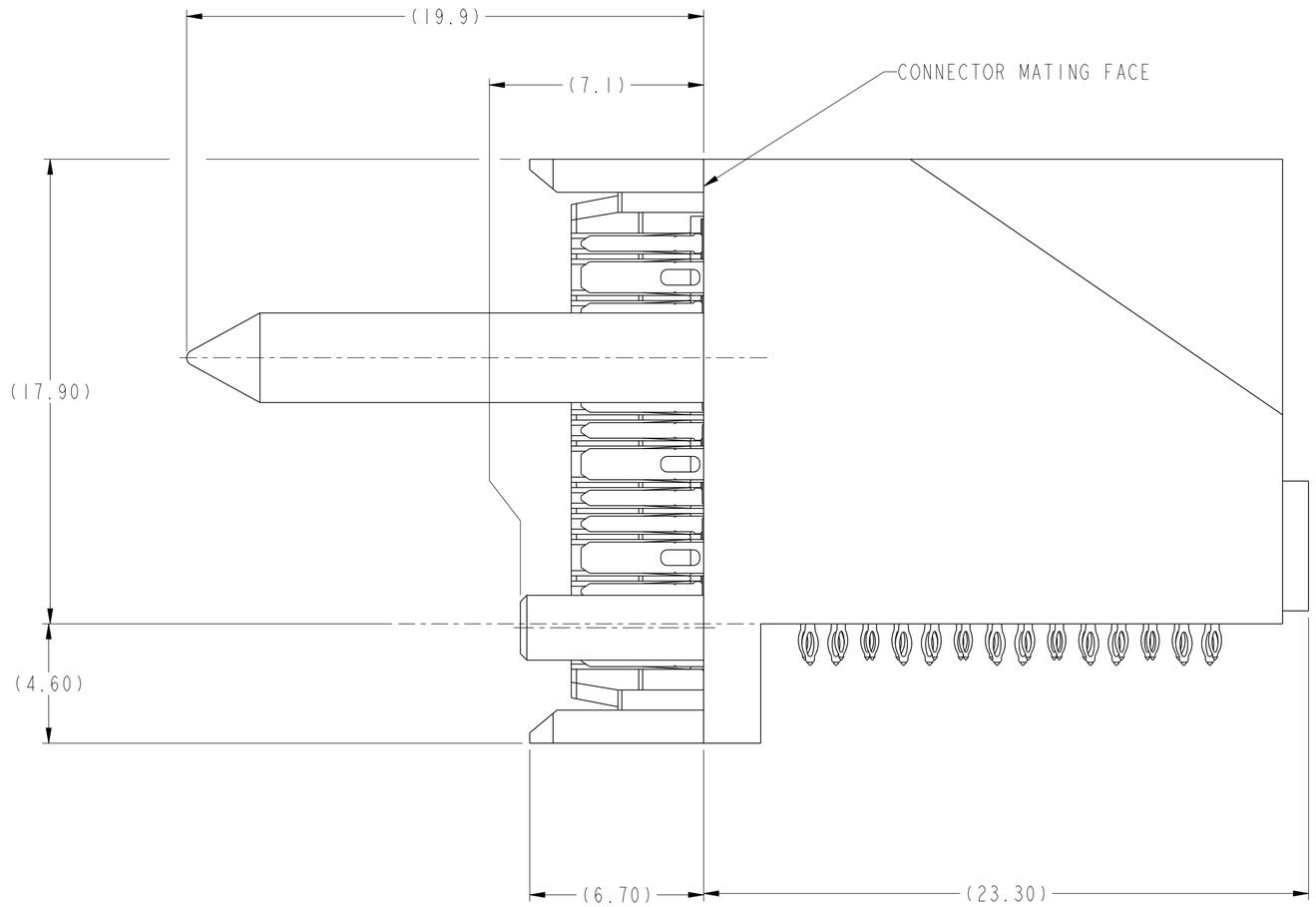

10125287-Y2ALF THRU -Y2JLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

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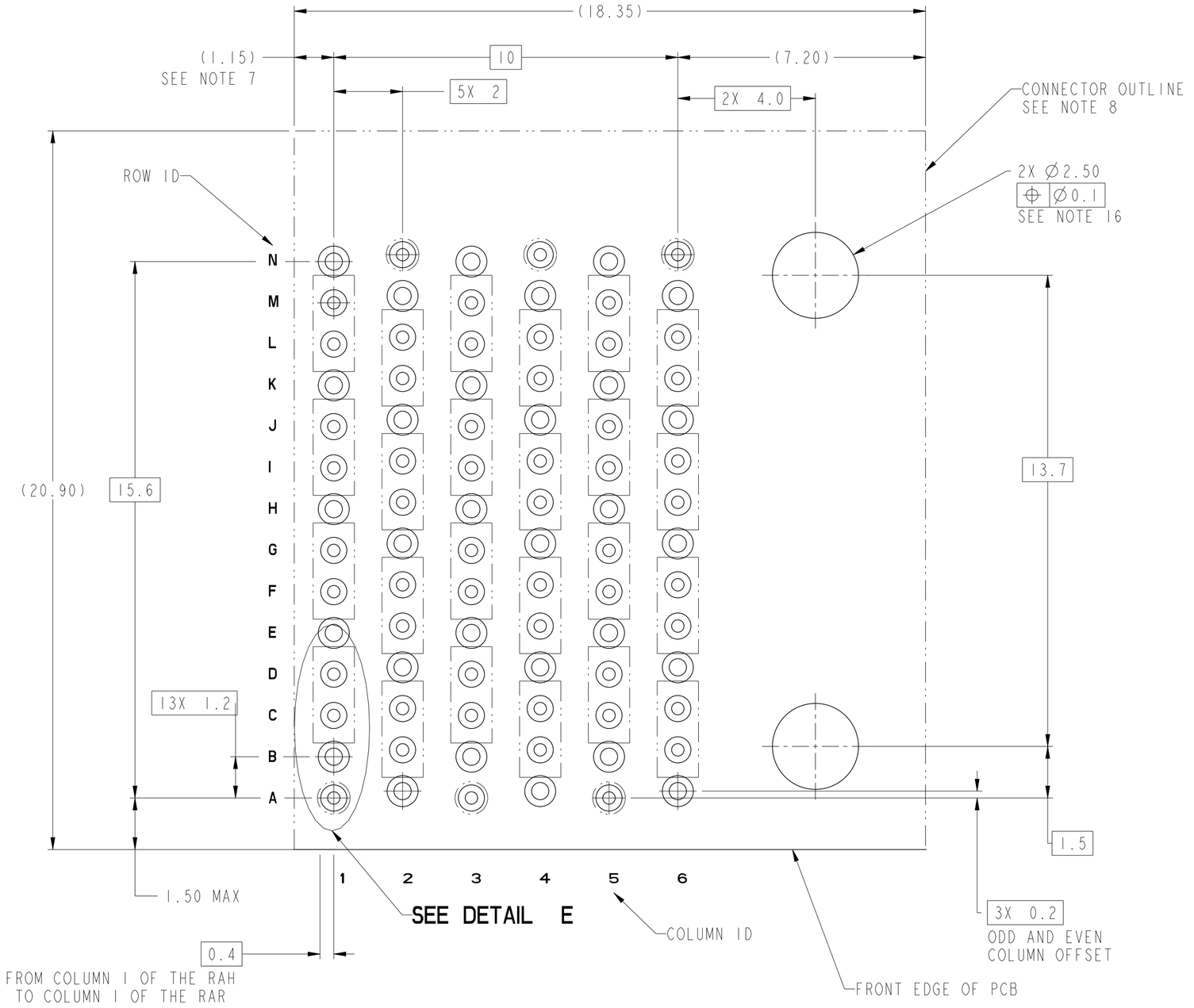
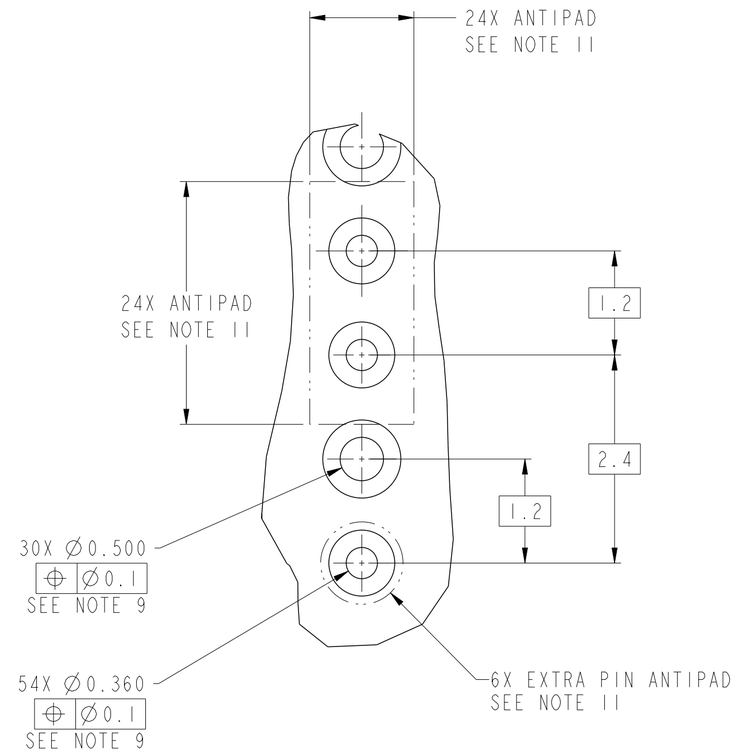
spec ref	- - -		dr	N Eppley	2013/04/24	projection	MM
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2017/11/08		
			chr	Justin Chen	2017/11/29		
			appr	Heaven Cen	2017/11/30		

size A2	scale 8:1						
ecn no ELX-DG-28221-1							
product family ExaMAX	rel level Released						
surface -	linear	0.X	±.3	Amphenol FCi	title	ExaMAX R.A. HEADER ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM	dwg no 10125287	rev B
		0.XX	±.10					
		0.XXX	±.050					
	angular	0°	± °		cat. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11





DETAIL E
SCALE 20:1

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

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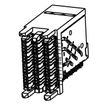
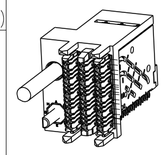
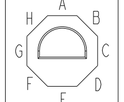
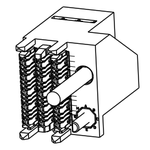
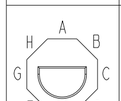
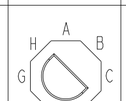
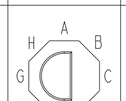
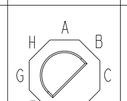
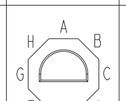
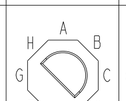
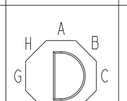
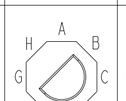
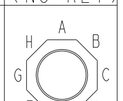
Creo File - REV E - 2016-02-12

PDS: Rev :B STATUS: Released Printed: Dec 02, 2017

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)	
										

Amphenol FCi

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

size	scale	rev
A2	1:1	B

ecn no ELX-DG-28221-1

rel level **Released**

sheet 10 of 11

Creo File - REV E - 2016-02-12

PDS: Rev :B STATUS: Released Printed: Dec 02, 2017

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 RECEPTACTLE 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 RECEPTACTLE 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.

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spec ref	---		dr	N Eppley	2013/04/24	projection	MM
tolerance std ASME Y14.5M	TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Peng-Bing Fu	2017/11/08		
			chr	Justin Chen	2017/11/29		
			appr	Heaven Cen	2017/11/30		

size A2	scale 1:1	product family ExaMAX						
ecn no ELX-DG-28221-1	rel level Released							
surface -	linear	0.X	±.3	Amphenol FCi	title ExaMAX R.A. HEADER ASS'Y, 4 PR, 84 POS, 6 IMLA, 11.9 MM	dwg no 10125287	rev B	
		0.XX	±.10					
		0.XXX	±.050					
	angular	0°	±°		cat. no. SEE TABLE	Product - Customer Drw	sheet 11 of 11	