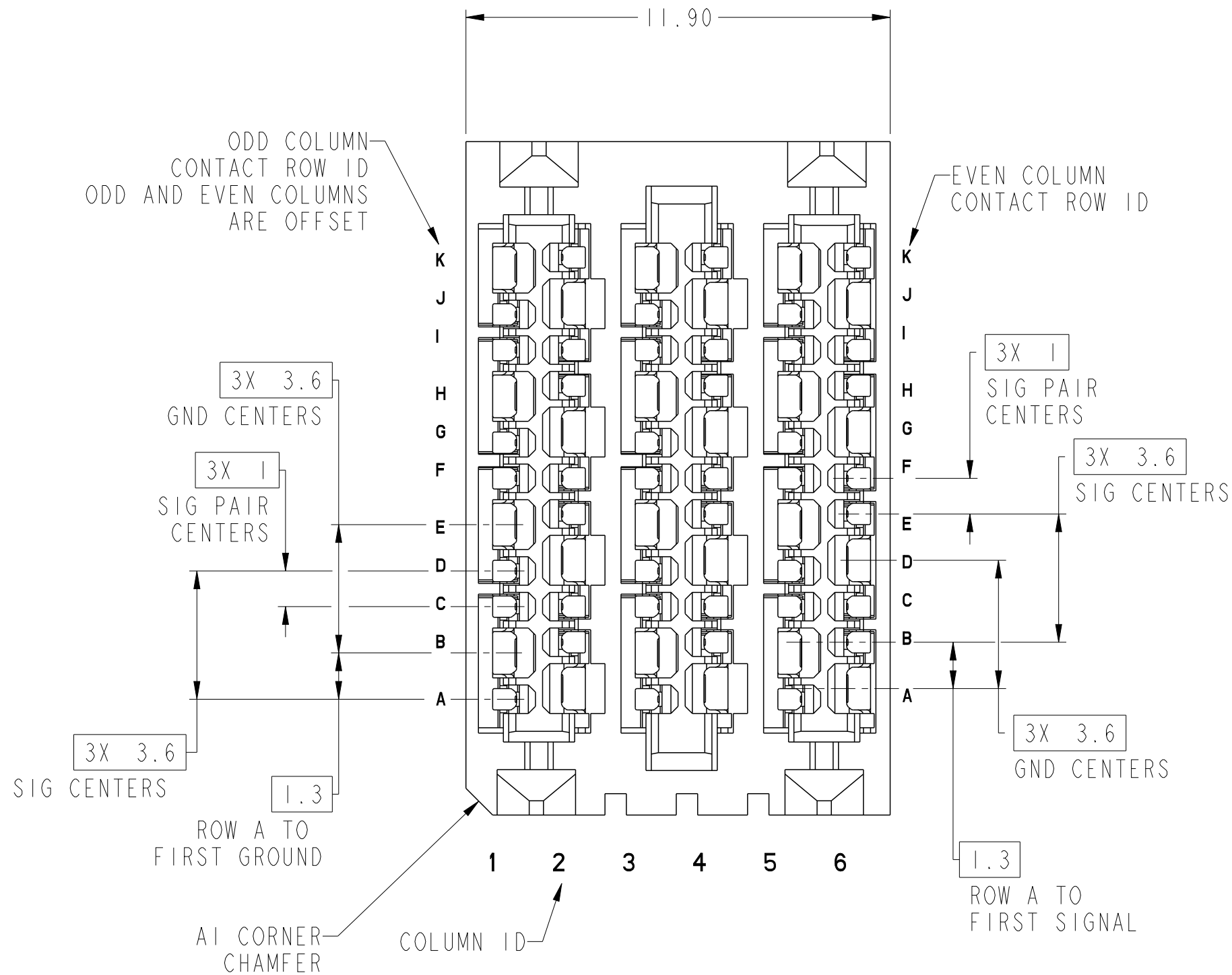
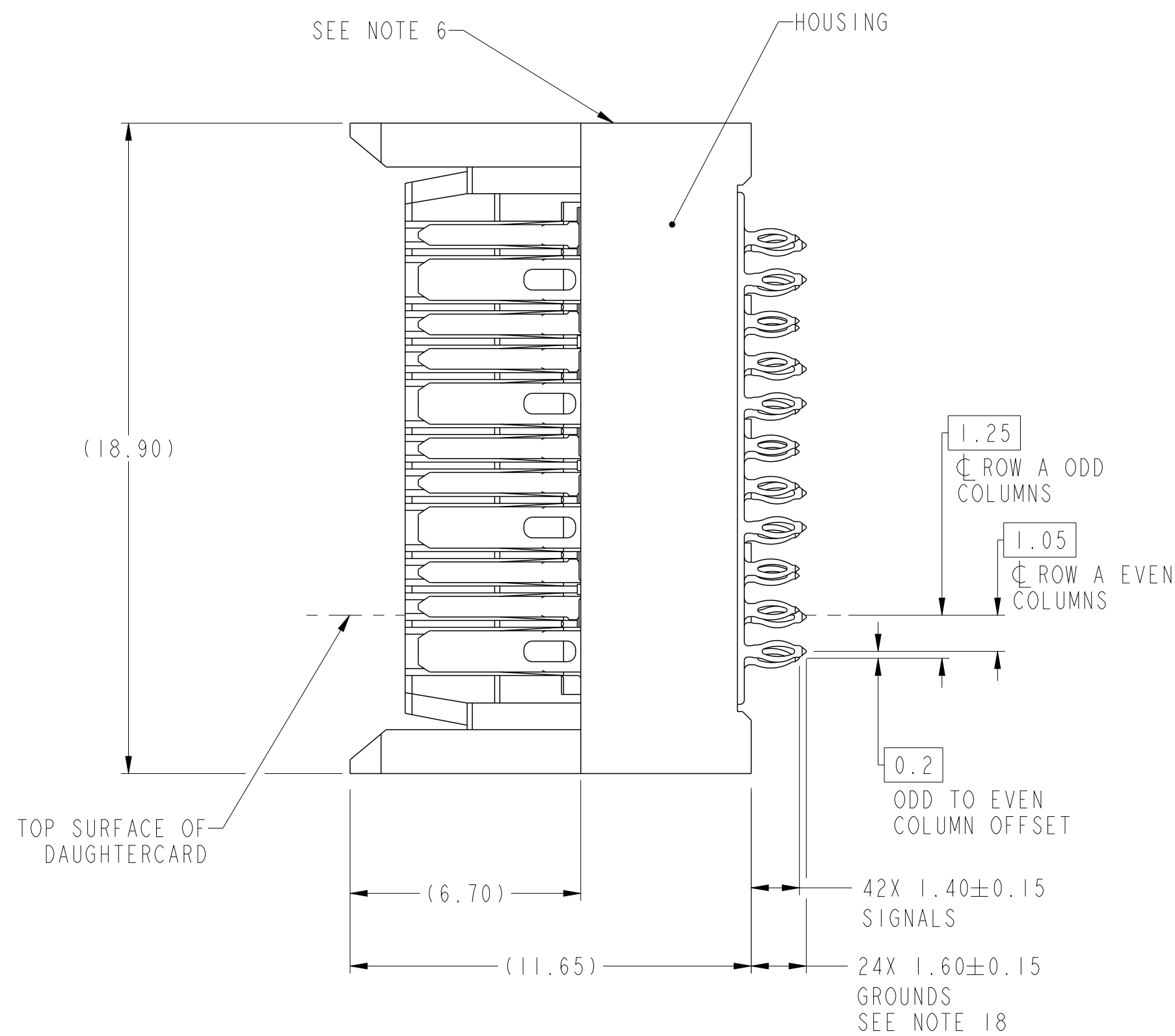


PRODUCT NUMBER
SEE SHEET 10



10137068-Y01LF
(10137068-101LF STANDARD MATE CONNECTOR SHOWN)
SCALE 7:1

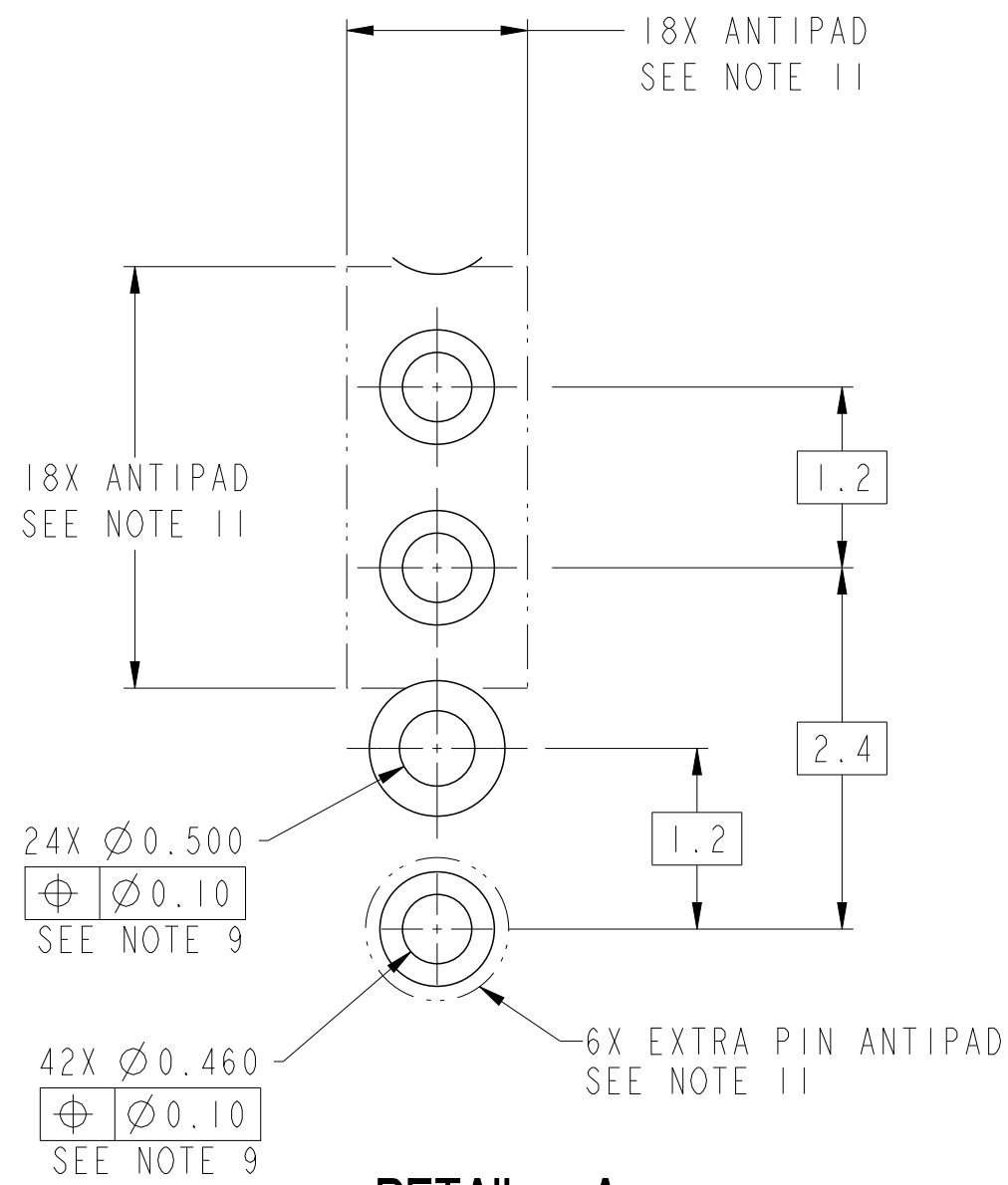


spec ref		SEE NOTES			dr	Terry Luo	2015/09/23	projection	MM	size	A2	scale	7:1		
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Terry Luo	2017/01/23			ecn no	-				
ASME Y14.5M					chr	Heaven Cen	2017/01/22								
		appr	Pei-Ming Zheng	2017/01/23	product family					ExaMAX			rel level	Released	
surface -		linear	0.X	±.3	Amphenol FCI	title	ExaMAX VERTICAL HEADER					dwg no	10137068	rev	A
			0.XX	±.10											
			0.XXX	±.050			ASS'Y, 3 PAIR, 66 POS, 6 IMLA 0.46mm PTH Sig EON								
		angular	0°	±2°	cat. no.			Product - Customer Drw					sheet 1 of 11		

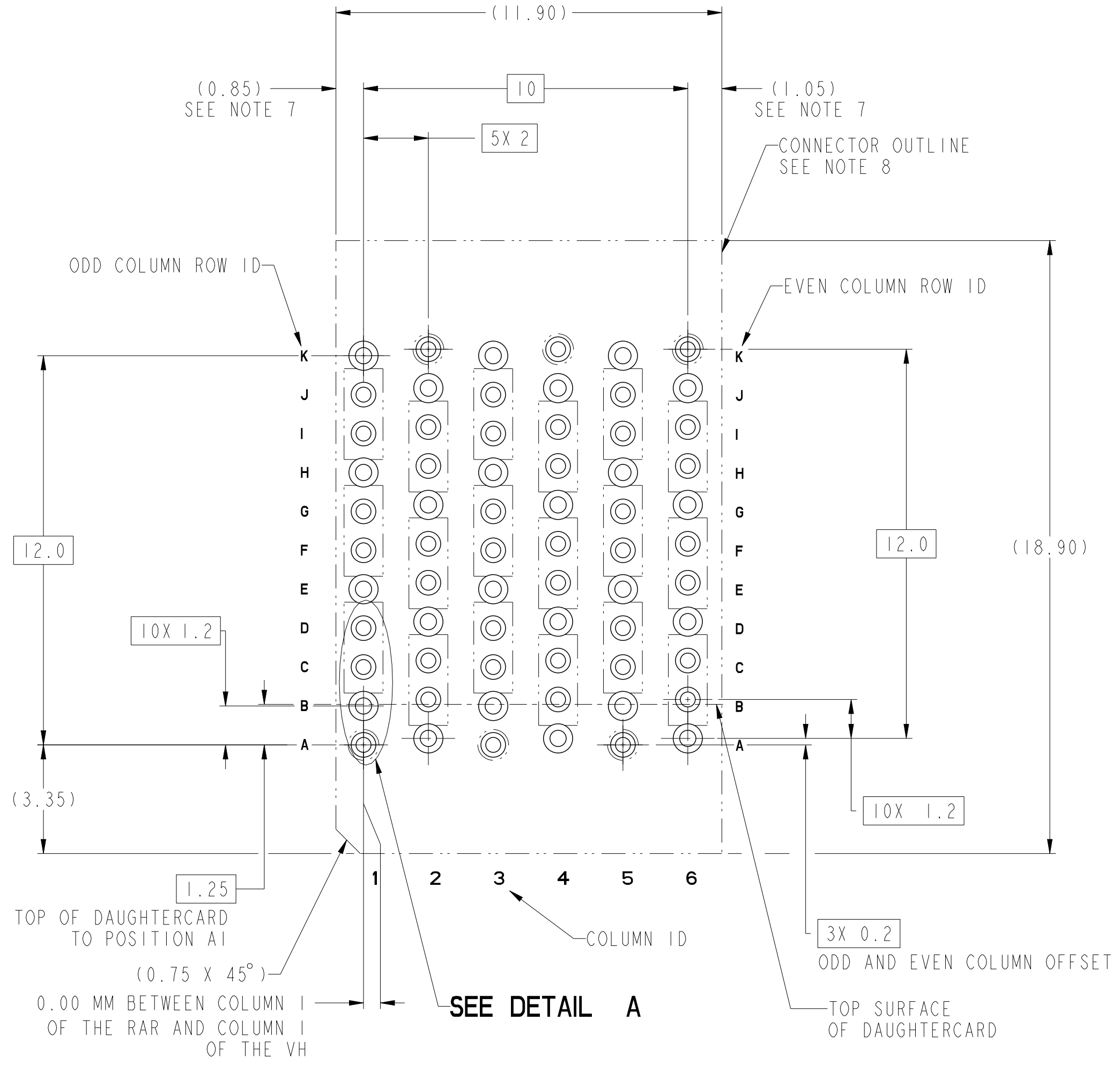
PDS: Rev :A

STATUS:Released

Printed: Jan 23, 2017

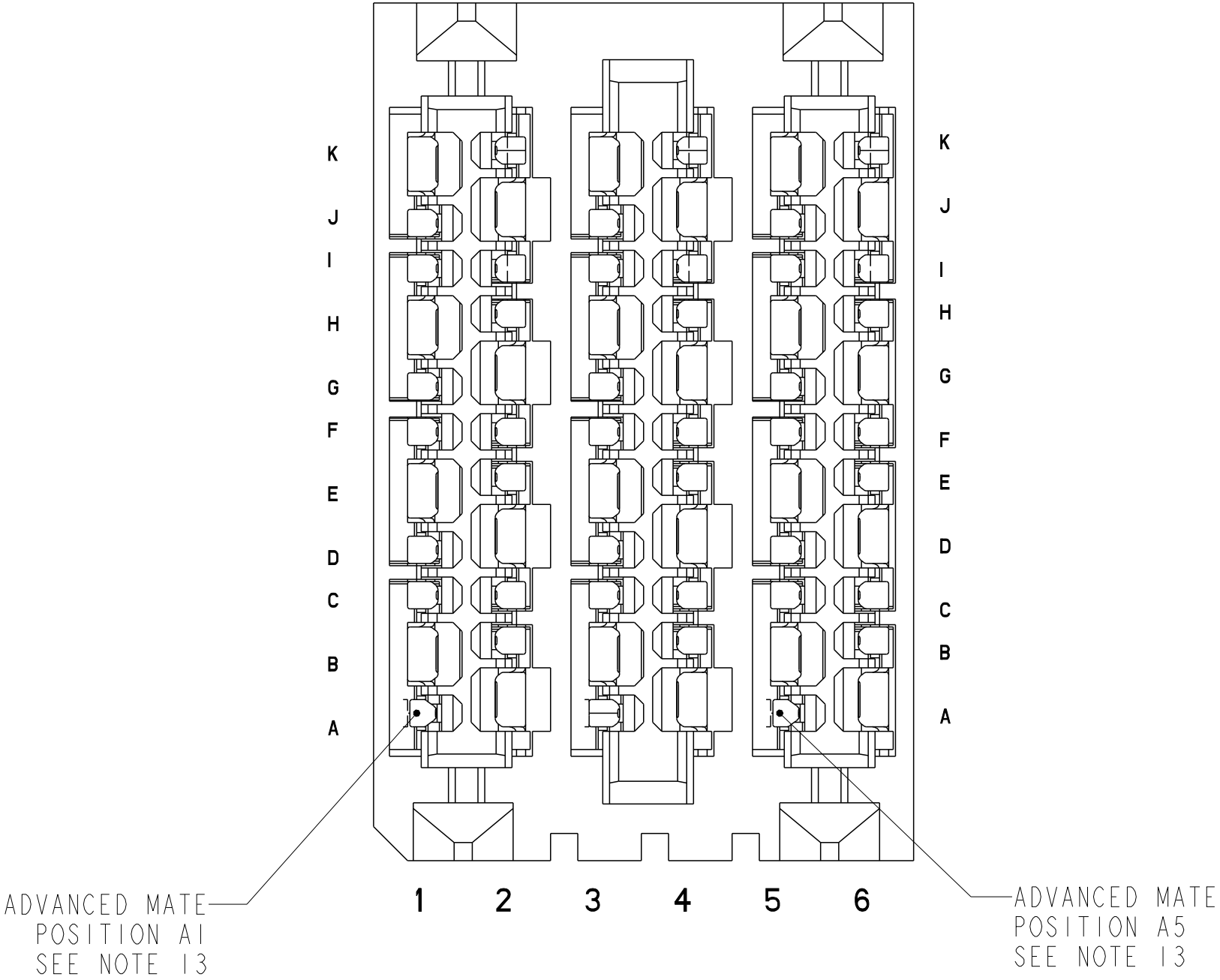


DETAIL A
SCALE 20:1



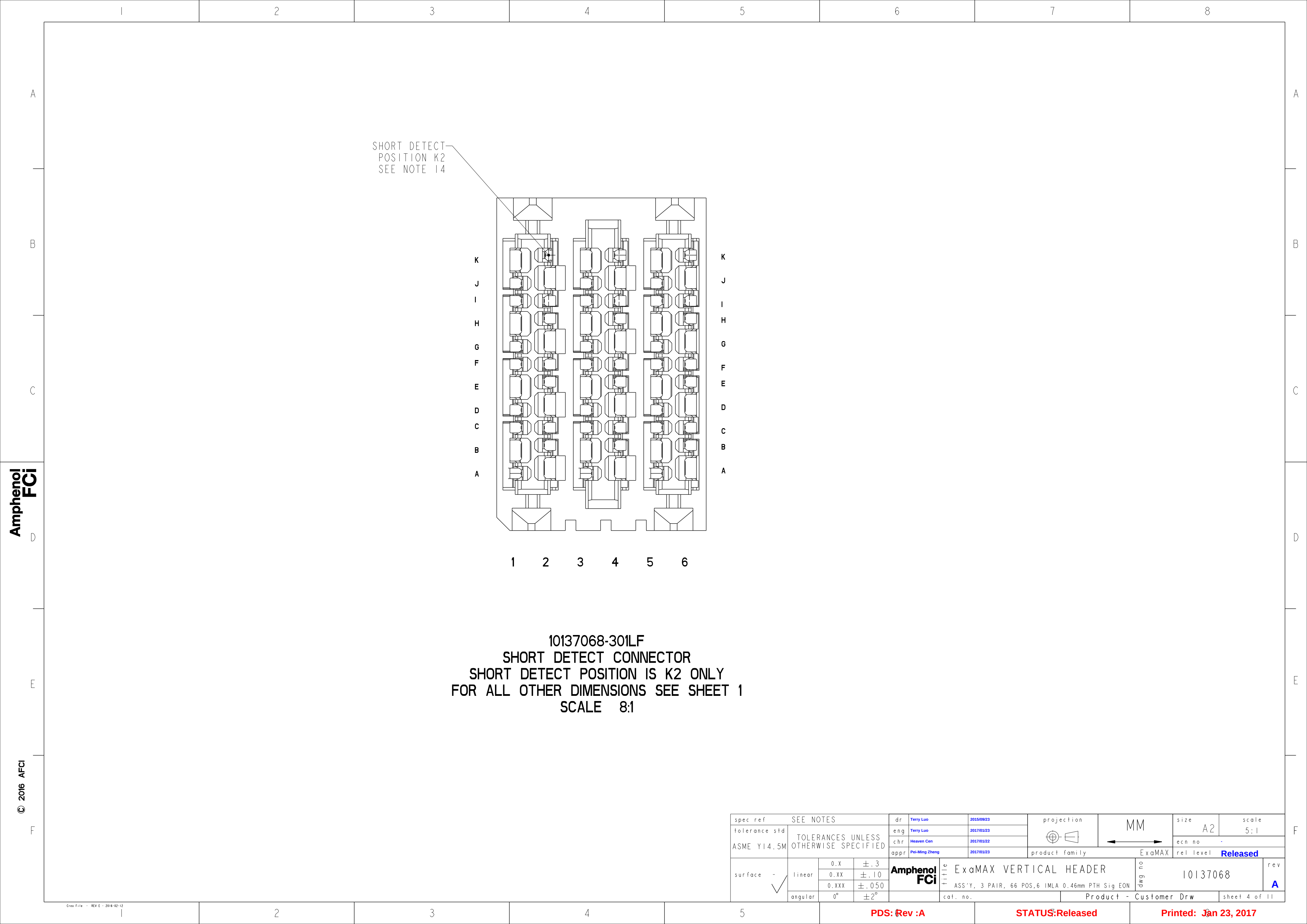
10137068-Y01LF COMPONENT SIDE
RECOMMENDED PCB LAYOUT
NOTES 7, 8, 9 & 11
SCALE 8:1

spec ref	SEE NOTES	dr	Terry Luo	2015/09/23	projection	MM	size	A2	scale	5:1
tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/23	chr	Heaven Cen	2017/01/22	ecn no	-	
surface	-	appr	Pei-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released		
linear	0.X ±.3 0.XX ±.10 0.XXX ±.050	Amphenol FCI	title	ExaMAX VERTICAL HEADER	ASS'Y, 3 PAIR, 66 POS, 6 IMLA 0.46mm PTH Sig EON	dwg no	10137068	rev	A	
angular	0° ±2°	cat. no.		Product - Customer Drw	sheet 2 of 11					



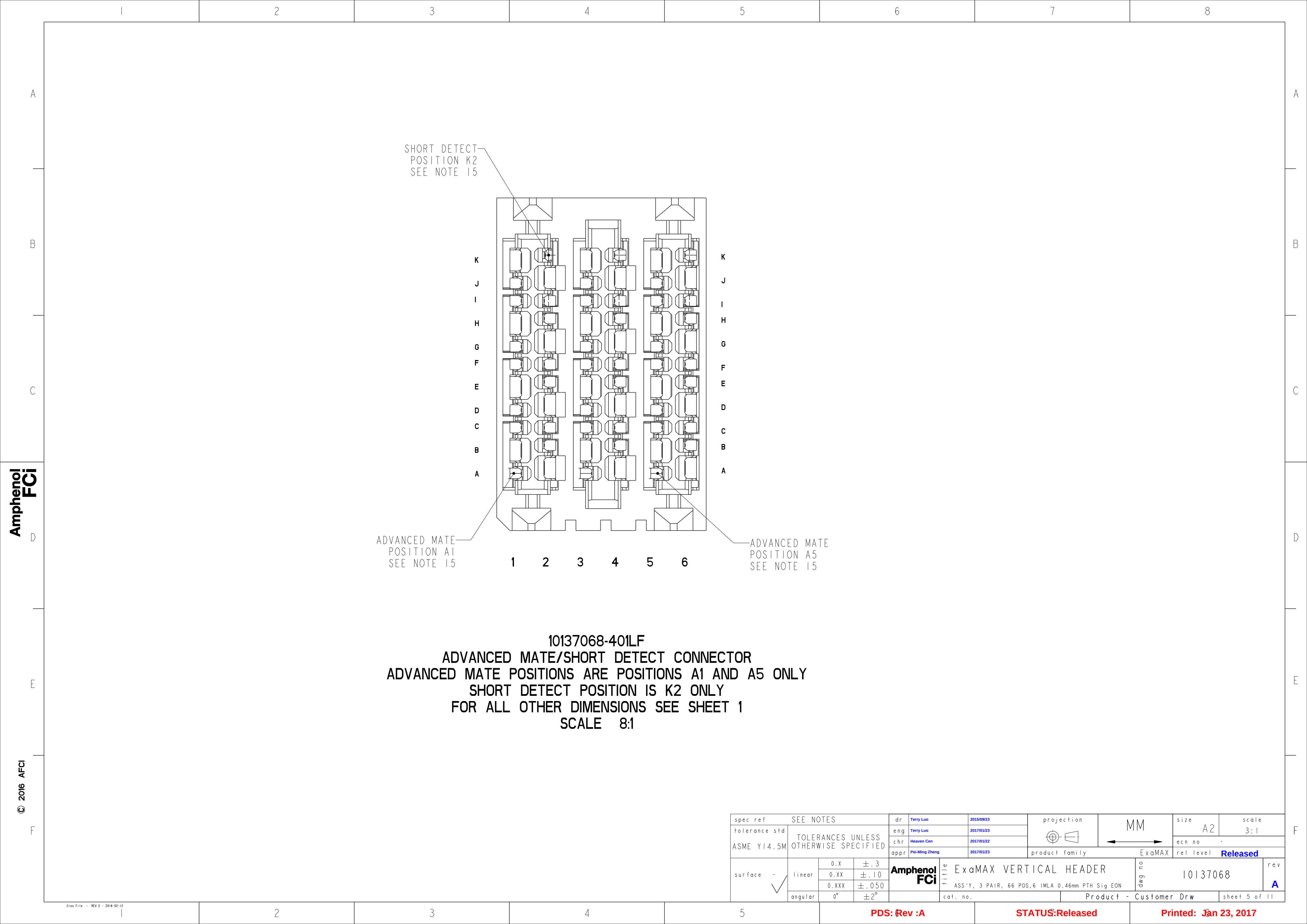
10137068-201LF
ADVANCED MATE CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEET 1
SCALE 8:1

spec ref		SEE NOTES			dr Terry Luo		2015/09/23		projection		MM		size A2		scale 5:1				
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Terry Luo		2017/01/23						ecn no -		rel level Released				
ASME Y14.5M					chr Heaven Cen		2017/01/22												
					appr Pei-Ming Zheng		2017/01/23												
								product family		ExaMAX									
surface - 		linear		0.X ±.3 0.XX ±.10 0.XXX ±.050		Amphenol FCi		title		ExaMAX VERTICAL HEADER		dwg no		10137068		rev A			
		angular		0° ±2°														cat. no.	



10137068-301LF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS K2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEET 1
SCALE 8:1

spec ref		SEE NOTES		dr Terry Luo		2015/09/23		projection		MM		size A2		scale 5:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Terry Luo		2017/01/23						ecn no		-			
ASME Y14.5M				chr Heaven Cen		2017/01/22						rel level		Released			
				appr Pei-Ming Zheng		2017/01/23						product family		ExaMAX			
surface - 		linear		Amphenol FCI		title		ExaMAX VERTICAL HEADER		dwg no		10137068		rev A			
																0.X ±.3	
																0.XX ±.10	
		0.XXX ±.050															
angular		0° ±2°		cat. no.		Product - Customer Drw		sheet 4 of 11									

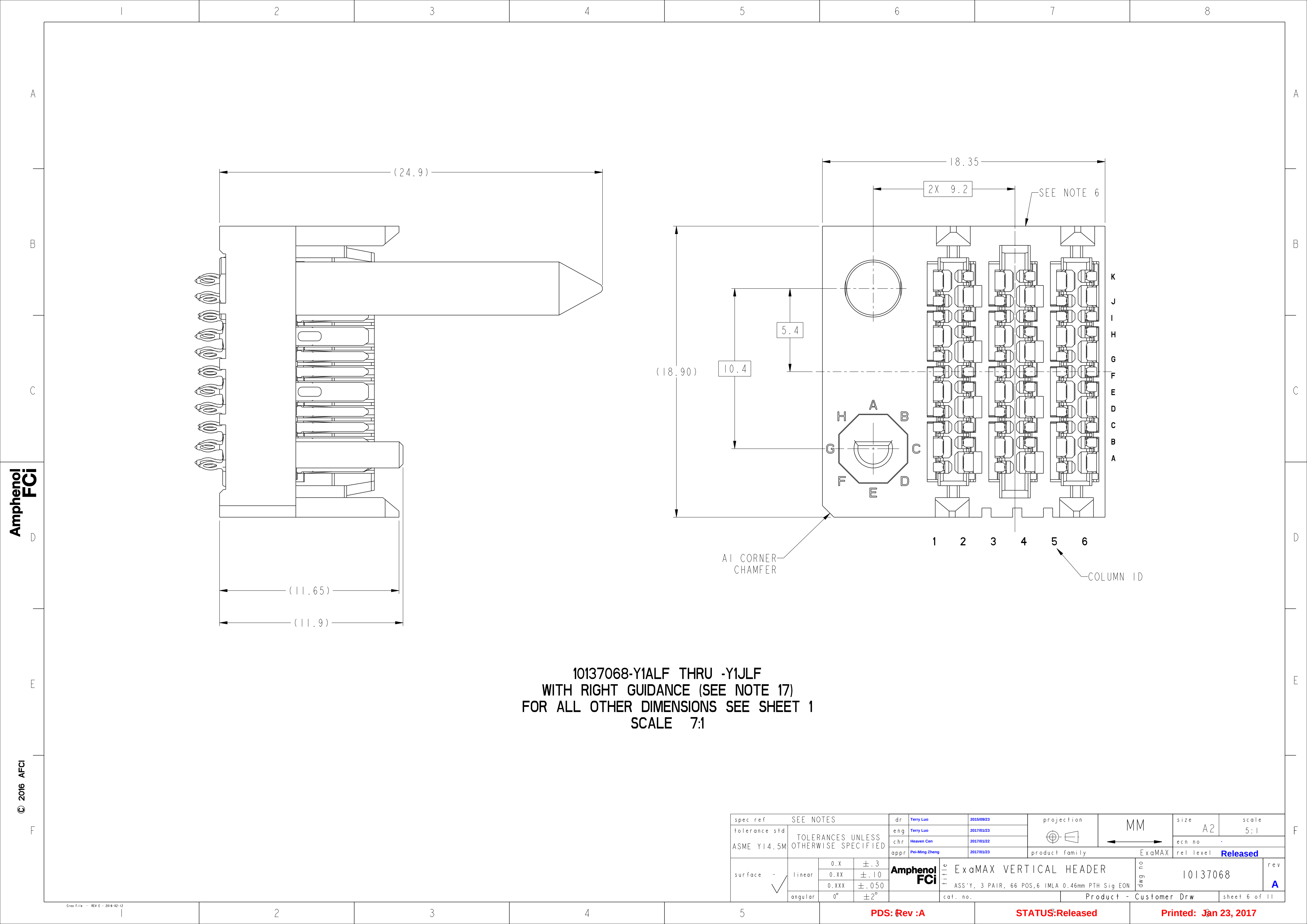


10137068-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY
SHORT DETECT POSITION IS K2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEET 1
SCALE 8:1

spec ref		SEE NOTES			dr Terry Luo		2015/09/23		projection MM		size A2		scale 3:1				
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Terry Luo		2017/01/23				ecn no -		rel level Released				
ASME Y14.5M					chr Heaven Cen		2017/01/22										
					appr Pei-Ming Zheng		2017/01/23		product family ExaMAX								
surface -		linear		0.X ±.3		0.XX ±.10		0.XXX ±.050		Amphenol FCI		title ExaMAX VERTICAL HEADER		dwg no 10137068		rev A	
				angular		0° ±2°		cat. no.		Product - Customer Drw		sheet 5 of 11					

Amphenol FCI

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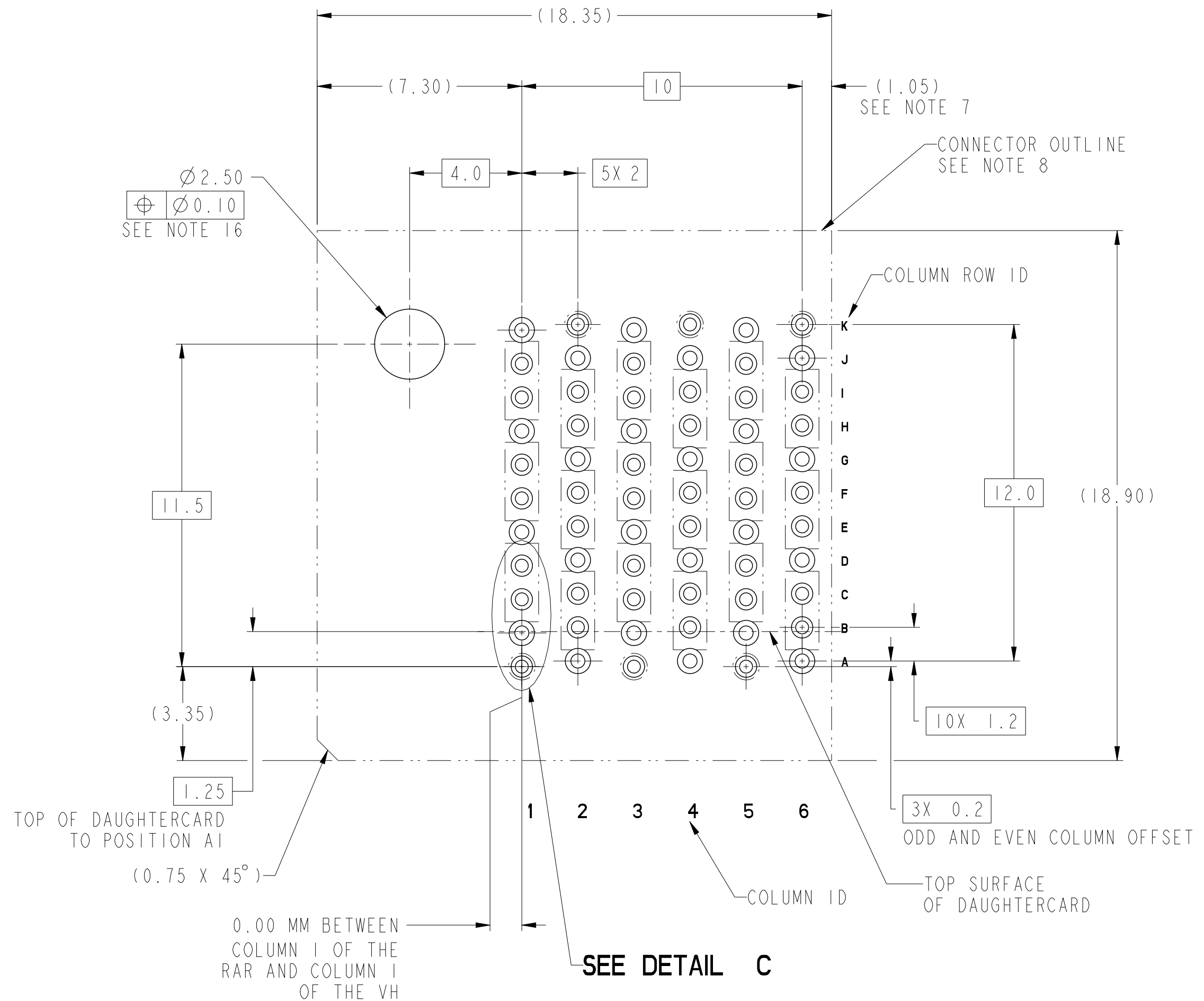
10137068-Y1ALF THRU -Y1JLF
WITH RIGHT GUIDANCE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1
SCALE 7:1

spec ref		SEE NOTES		dr Terry Luo		2015/09/23		projection		MM		size A2		scale 5:1			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Terry Luo		2017/01/23						ecn no		-			
ASME Y14.5M				chr Heaven Cen		2017/01/22						rel level		Released			
				appr Pei-Ming Zheng		2017/01/23						product family		ExaMAX			
surface -		linear				title						ExaMAX VERTICAL HEADER		dwg no		10137068	
✓		0.X ±.3						ASS'Y, 3 PAIR, 66 POS, 6 IMLA 0.46mm PTH Sig EON									
		0.XX ±.10						cat. no.		Product - Customer Drw							
		0.XXX ±.050															
		angular 0° ±2°															

PDS: Rev :A

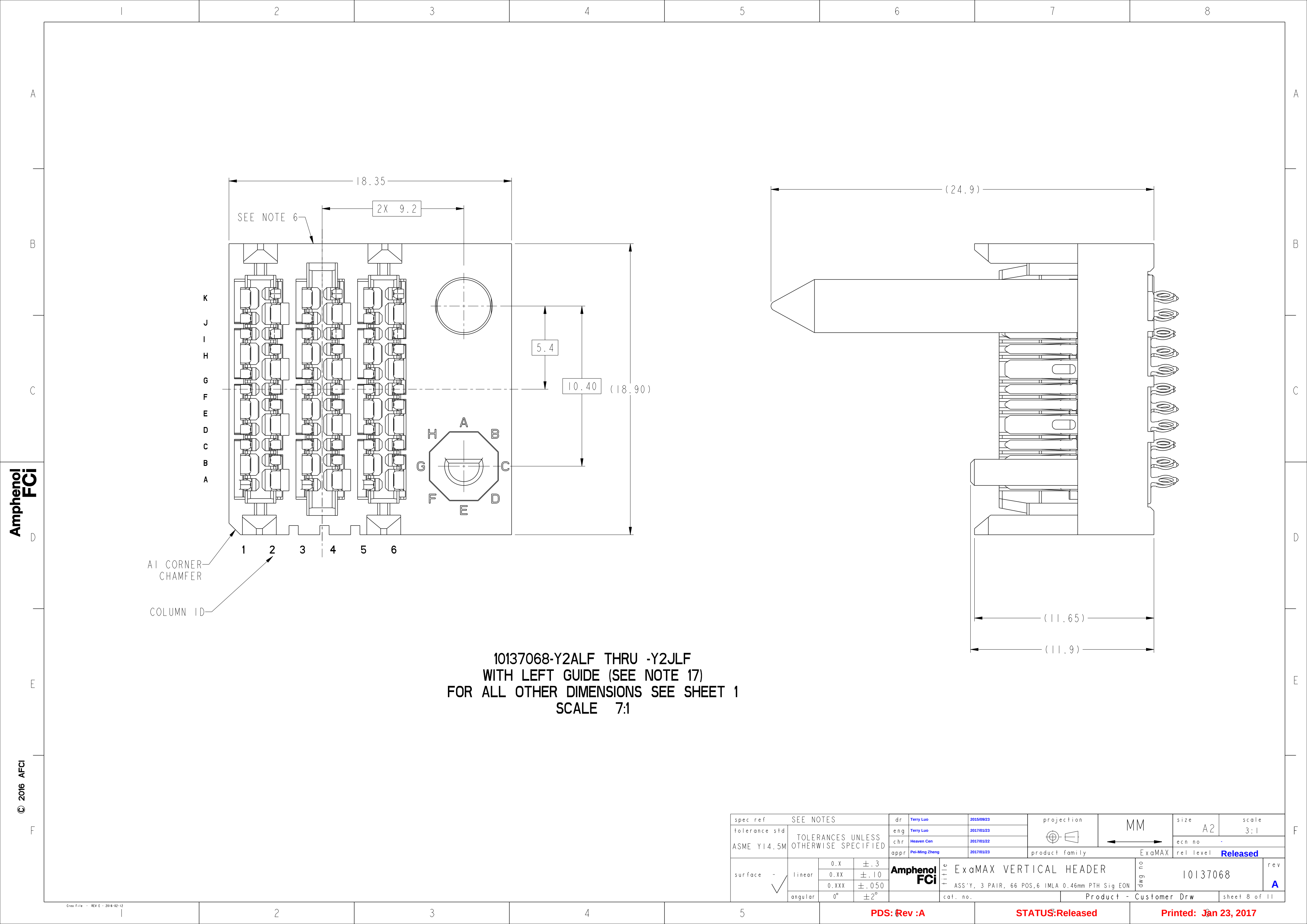
STATUS:Released

Printed: Jan 23, 2017



Printed: Jan 23, 2017

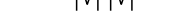
spec ref		SEE NOTES			dr Terry Luo		2015/09/23		projection		MM		size A2		scale 2:1				
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Terry Luo		2017/01/23						ecn no .		rel level Released				
ASME Y14.5M					chr Heaven Cen		2017/01/22												
					appr Pei-Ming Zheng		2017/01/23												
								product family		ExaMAX									
surface -		linear		0.X ±.3		0.XX ±.10		0.XXX ±.050		Amphenol FCI		title ExaMAX VERTICAL HEADER		dwg no 10137068		rev A			
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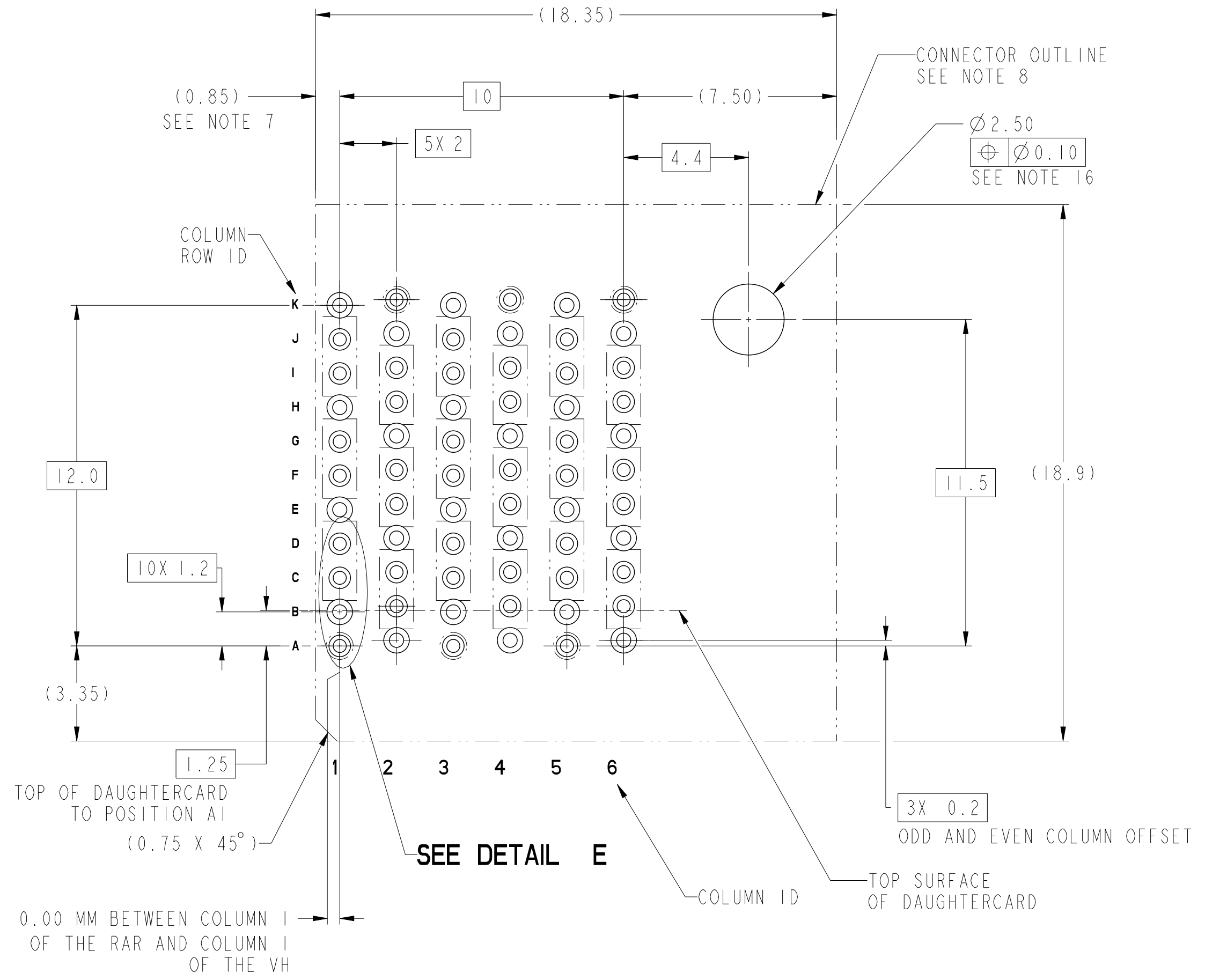
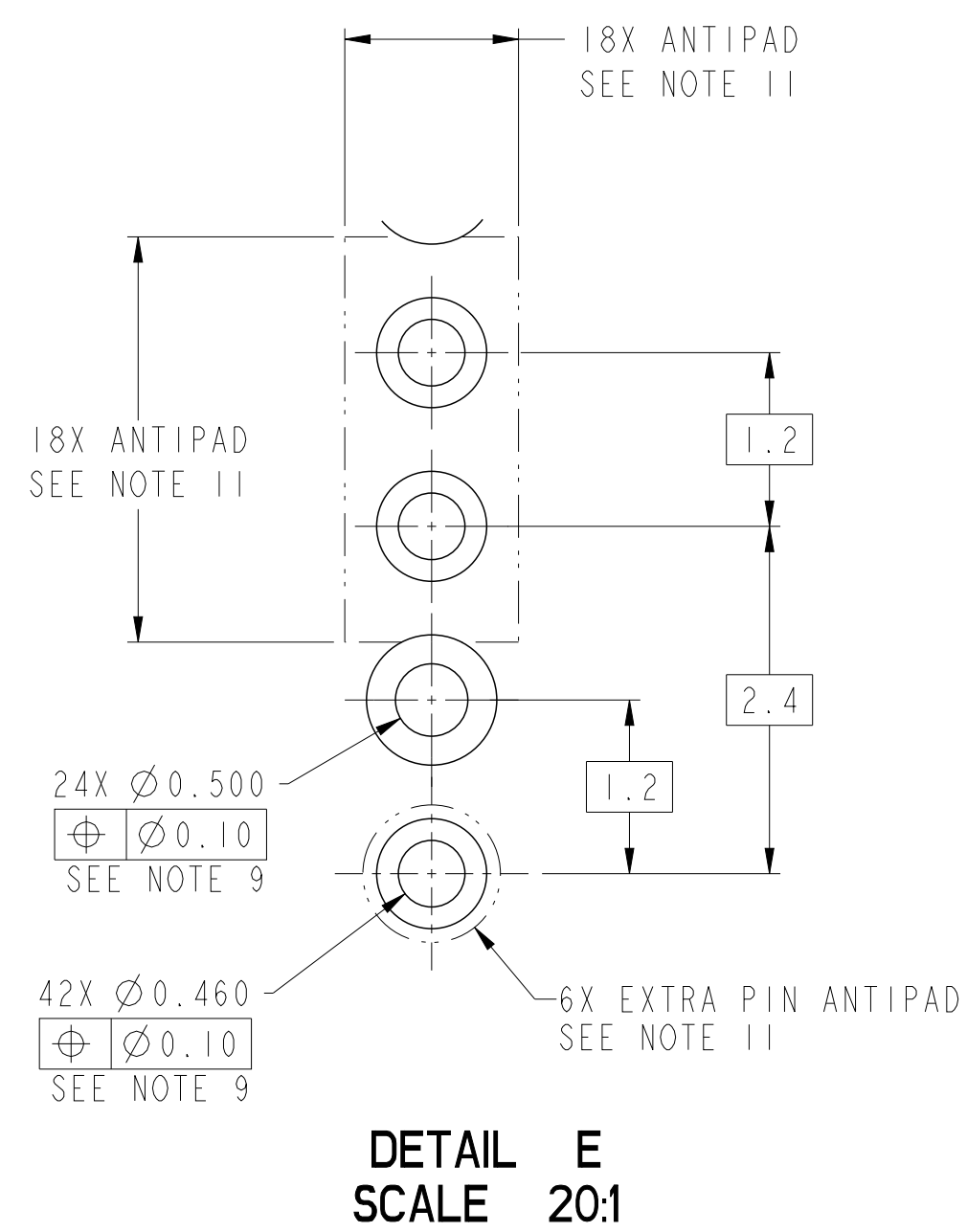
10137068-Y2ALF THRU -Y2JLF
WITH LEFT GUIDE (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1
SCALE 7:1

spec ref		SEE NOTES			dr Terry Luo		2015/09/23		projection		MM		size A2		scale 3:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Terry Luo		2017/01/23						ecn no -			
ASME Y14.5M					chr Heaven Cen		2017/01/22						rel level Released			
					appr Pei-Ming Zheng		2017/01/23						product family ExaMAX			
surface - 		linear		Amphenol FCI		title ExaMAX VERTICAL HEADER						dwg no 10137068		rev A		
		0.X ±.3														
		0.XX ±.10				cat. no.		Product - Customer Drw				sheet 8 of 11				
0.XXX ±.050		angular		0° ±2°												

PDS: Rev :A

STATUS:Released

Printed: Jan 23, 2017

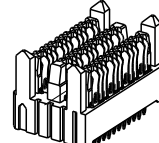
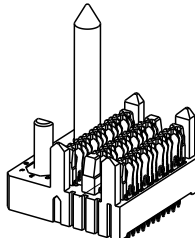
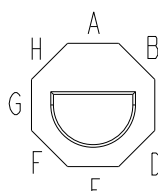
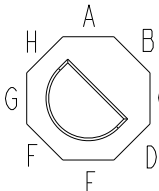
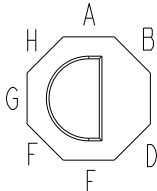
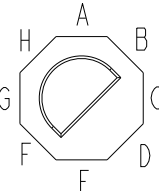
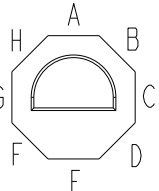
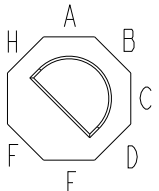
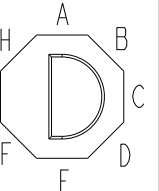
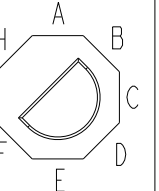
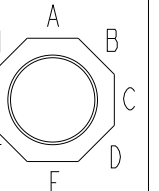
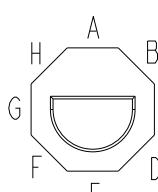
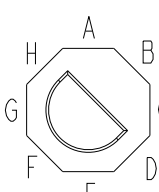
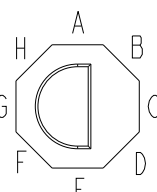
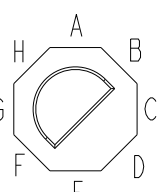
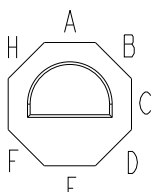
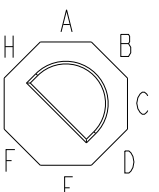
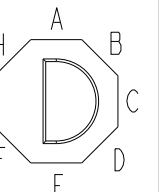
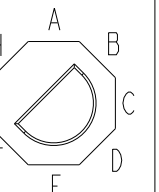
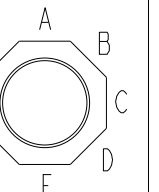
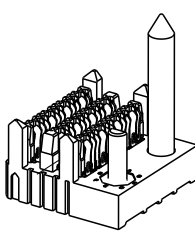
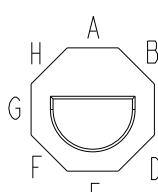
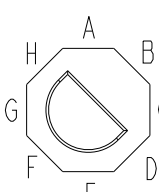
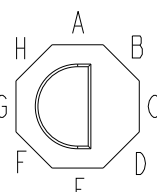
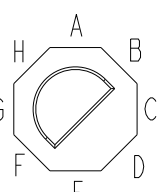
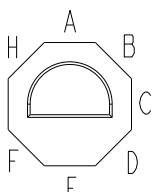
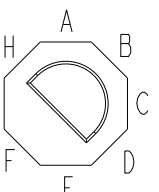
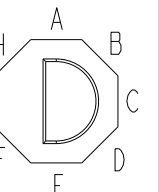
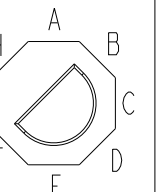
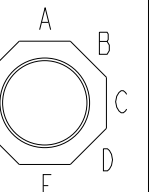


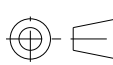
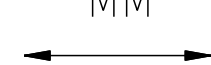
10137068-Y2YLF
COMPONENT SIDE
RECOMMENDED PCB LAYOUT
NOTES 7, 8, 9, 11 & 16
SCALE 7:1

spec ref	SEE NOTES	dr	Terry Luo	2015/09/23	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5M	eng	Terry Luo	2017/01/23	chr	Heaven Cen	2017/01/22	ecn no	-	
surface	-	appr	Pei-Ming Zheng	2017/01/23	product family	ExaMAX	rel level	Released		
linear	0.X ±.3 0.XX ±.10 0.XXX ±.050	Amphenol FCi	title	ExaMAX VERTICAL HEADER	ASS'Y, 3 PAIR, 66 POS, 6 IMLA 0.46mm PTH Sig EON	cat. no.	Product - Customer Drw	sheet 9 of 11	rev	A
angular	0° ±2°									

10137068 - Y Y Y L F

ASSEMBLY PART NUMBER	DESCRIPTION
10137068-1YYLF	STANDARD MATE
10137068-2YYLF	ADVANCED MATE
10137068-3YYLF	SHORT DETECT
10137068-4YYLF	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)		
											
	2A	2B	2C	2D	2E	2F	2G	2H	2J (NO KEY)		
											
LEFT GUIDANCE MODULE (SEE SHEET 8)	2A	2B	2C	2D	2E	2F	2G	2H	2J (NO KEY)		
											

spec ref	SEE NOTES				dr	Terry Luo	2015/09/23			size	A2	scale	5:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	Terry Luo	2017/01/23			ecn no	-			
ASME Y14.5M					chr	Heaven Cen	2017/01/22							
					appr	Pei-Ming Zheng	2017/01/23					product family		ExaMAX
	linear	0.X	±.3		title	ExaMAX VERTICAL HEADER				dwg no	10137068		rev	A
		0.XX	±.10											
		0.XXX	±.050											
	angular	0°	±2°		cat. no.	Product - Customer Drw					sheet 10 of 11			

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1

2

3

4

5

6

7

8

A

B

C

D

E

F

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
KEY 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 VIA SPACING BETWEEN STACKED CONNECTOR WILL BE 2.0mm OR 3.0mm
AS DEFINED BY NOTE 7 ON THE MATING RECEPTACLE CUSTOMER DRAWING.
REFER TO THE APPLICATION SPECIFICATION FOR DETIALS.

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 APPLICATION SPECIFICATION FOR TRACE ROUTING
EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE
WIDTH, TRACE SPACING, ETC.

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, 10137068-2YYLF, 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, 10137068-3YYLF, 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, 10137068-4YYLF, 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 1.00 MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.

16

- FOR CONNECTOR WITH EITHER A LEFT OR RIGHT GUIDE MODULE, ONE PHILLIPS PAN HEAD M2 HOLD DOWN
SCREW MUST BE USED TO SECURE GUIDE PIN/CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE
2.0 - 6.0mm PLUS THE THICKNESS OF THE BOARD. SCREW IS 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 THAI IT MATES
WITH (i. e. A RIGHT GUIDE VERTICAL HEADER MATES A RIGHT GUIDE RIGHT ANGEL RECEPTACLE.)

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- ALL GROUND CONTACTS WITHIN A COLUMN ARE COMMONED.

spec ref	SEE NOTES			dr	Terry Luo	2015/09/23	projection MM	size	A2	scale	2:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Terry Luo	2017/01/23		ecn no	-			
chr				Heaven Cen	2017/01/22							
appr				Pei-Ming Zheng	2017/01/23							
surface	- 	linear	0.X	±.3	Amphenol FCi	title	ExaMAX VERTICAL HEADER	cat. no.	product family	ExaMAX	rel level	Released
			0.XX	±.10								
			0.XXX	±.050								
		angular	0°	±2°								

PDS: Rev :A		STATUS:Released		Printed: Jan 23, 2017	
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