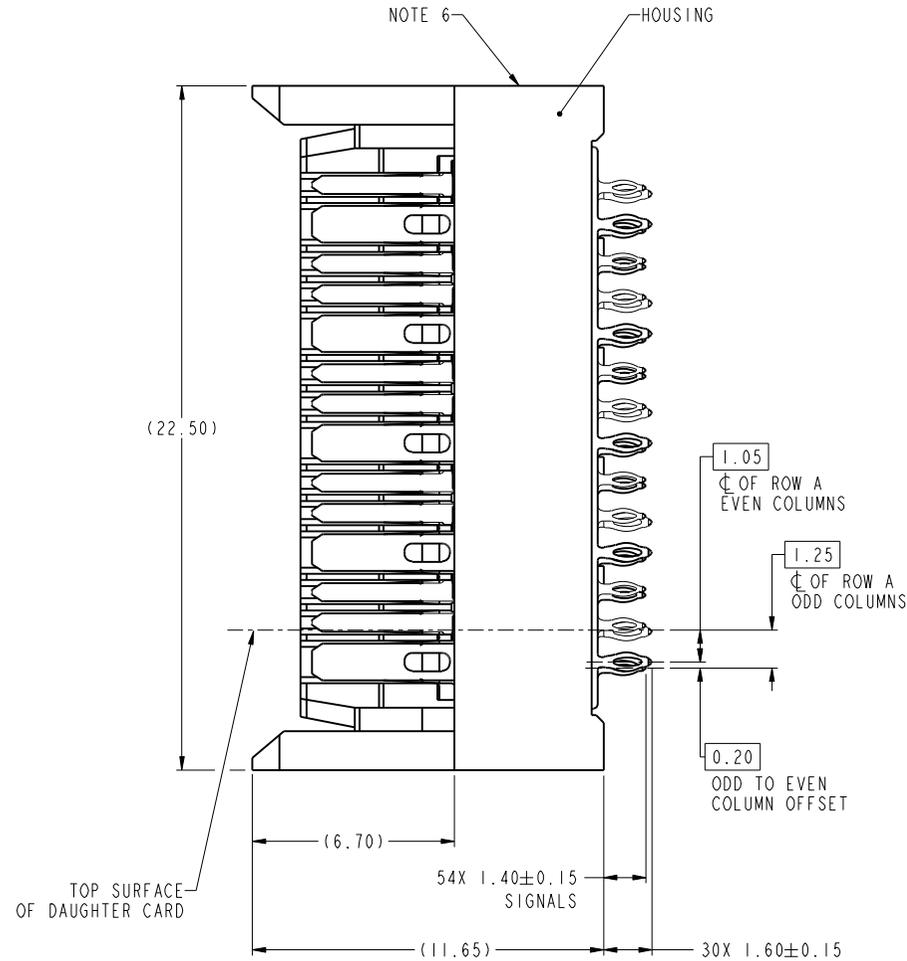
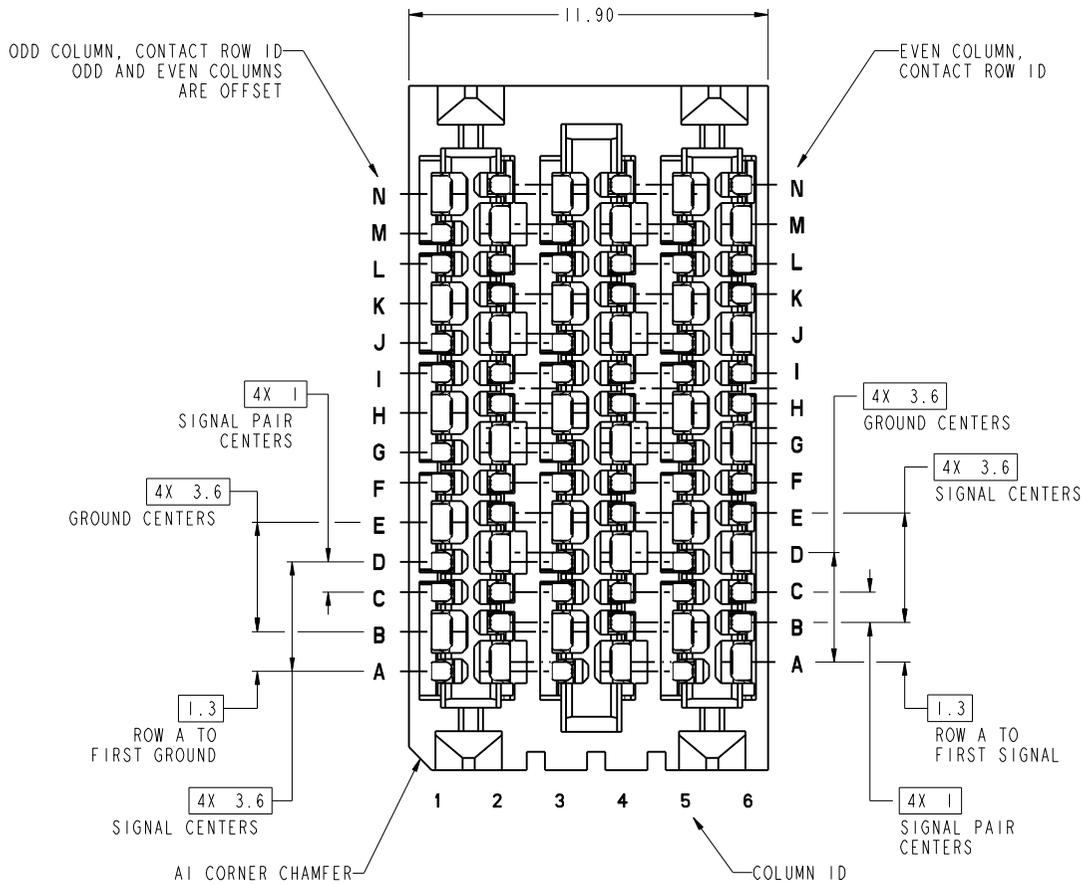


PRODUCT NUMBER  
SEE SHEET 16



10127896-Y01LF  
(10127896-101LF STANDARD MATE CON.)

Heaven Cen 2013/11/12  
Peng-Bing Fu 2016/04/06

SEE NOTE 6  
**Preliminary**

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear	0.x	±.3	<b>Amphenol FCI</b> ExaMAX VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA col. no. SEE TABLE	Product - Customer Draw	sheet 1 of 11	ang no	10127896
		0.xx	±.10				rev	4
	angular	0°	±°					

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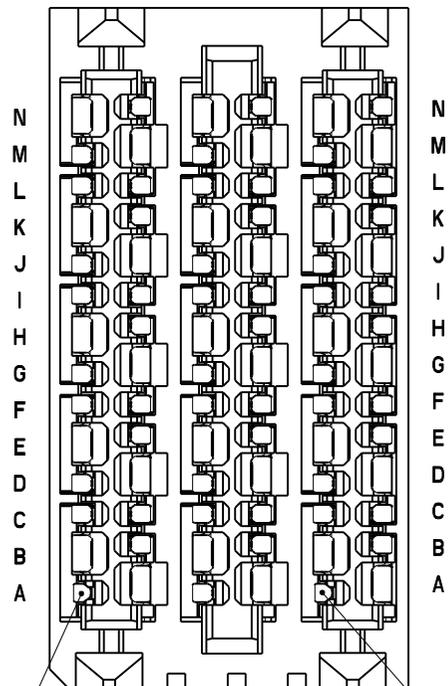
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1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

A  
B  
C  
D  
E  
F



ADVANCED MATE POSITION A1 SEE NOTE 13  
 1 2 3 4 5 6  
 ADVANCED MATE POSITION A5 SEE NOTE 13

**10127896-201LF**  
**ADVANCED MATE CONNECTOR**  
**ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY**  
 F Heaven Cen 2013/11/12 SHEETS 1 & 2  
 Peng-Bing Fu 2016/04/06

**Preliminary**

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear			ExaMAX VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA		ang no	10127896	rev
ISO 1302	angular			col. no.	SEE TABLE	Product - Customer Drw	sheet 3 of 11	4

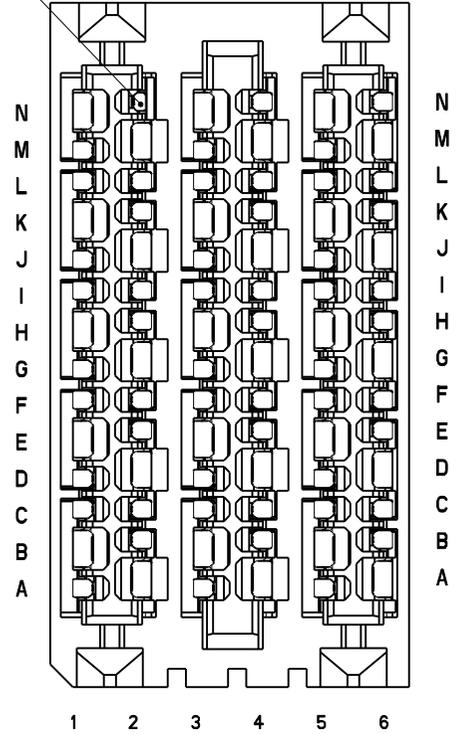
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1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

SHORT DETECT  
POSITION N2  
SEE NOTE 14



10127896-301LF  
SHORT DETECT CONNECTOR  
SHORT DETECT POSITION IS N2 ONLY

Heaven Cen 2013/11/12 SHEETS 1 & 2  
Peng-Bing Fu 2016/04/06

Preliminary

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear	0.X	±.3		ExaMAX VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA	ang no SEE TABLE	10127896	rev 4
		0.XX	±.10					
	angular	0°	±°	cat. no.	Product - Customer Drw	sheet 4 of 11		

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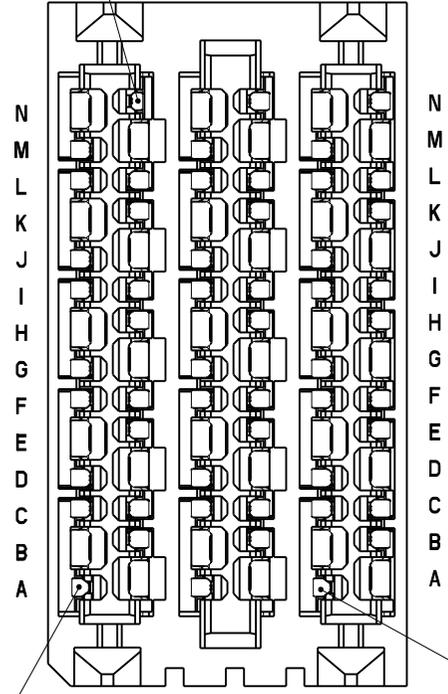
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FCI

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1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

SHORT DETECT  
POSITION N2  
SEE NOTE 15



ADVANCED MATE  
POSITION A1  
SEE NOTE 15

ADVANCED MATE  
POSITION A5  
SEE NOTE 15

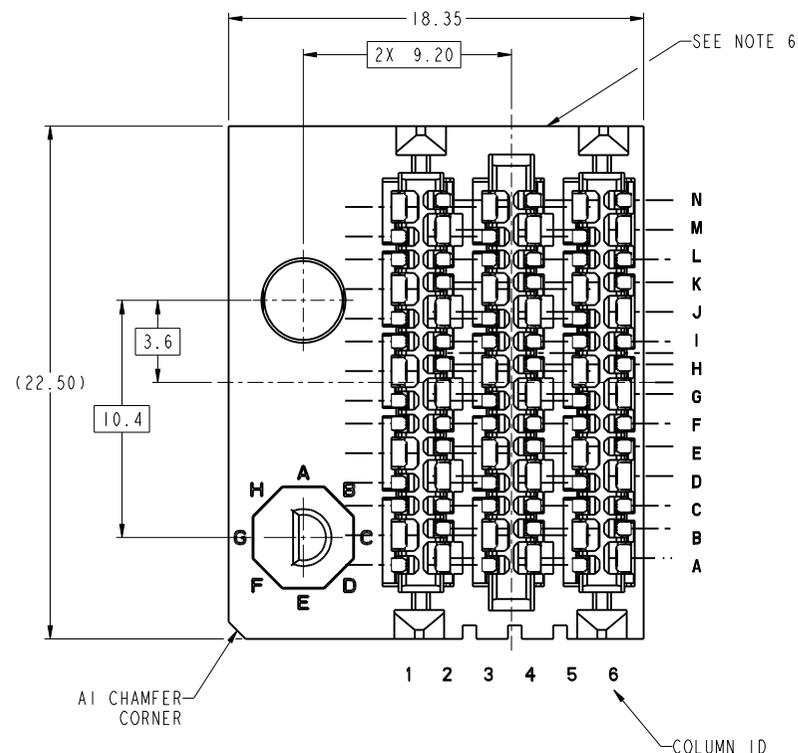
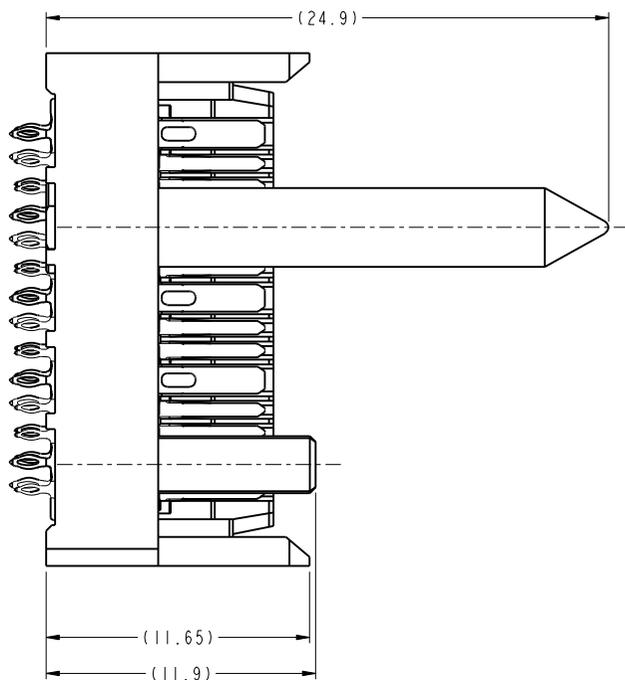
**10127896-401LF**  
**ADVANCED MATE/SHORT DETECT CONNECTOR**  
**ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A5 ONLY**  
 Heaven Cen 2013/11/12  
 F Peng-Bing Fu 2016/04/06  
**2 ONLY**  
**SHEETS 1 & 2**

**Preliminary**

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear	0.X	±.3		ExaMAX VERTICAL HEADER ASSY		10127896	rev 4
		0.XX	±.10		4 PR, 84 POS, 6 IMLA			
ISO 1302	angular	0°	±°	cat. no.	SEE TABLE	Product - Customer Drw	sheet 5 of 11	

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10127896-01A1 E TMD11 -Y1JLF  
 Heaven Cen 2013/11/12 (SEE NOTE 17)  
 Peng-Bing Fu 2016/04/06 SEE SHEET 1

Preliminary

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear	0.X	±.3	<b>Amphenol FCI</b> ExaMAX VERTICAL HEADER ASSY 4 PR, 84 POS, 6 IMLA col. no. SEE TABLE	ang no	10127896	rev	4
		0.XX	±.10		Product - Customer Drw	sheet	6 of 11	
ISO 1302	angular	0°	±°					

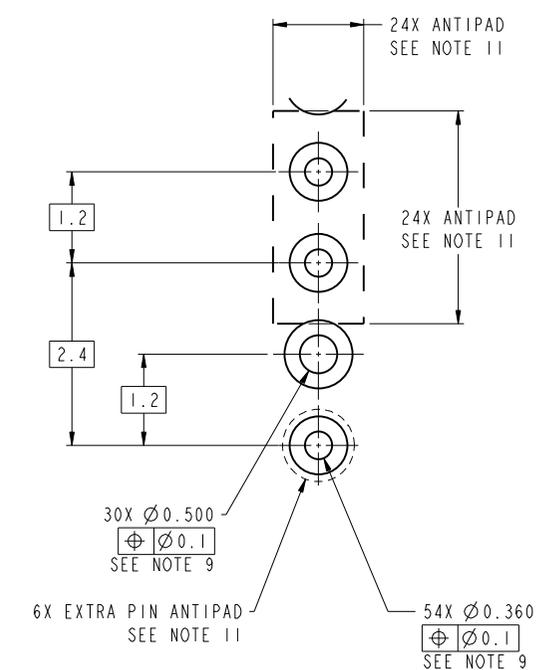
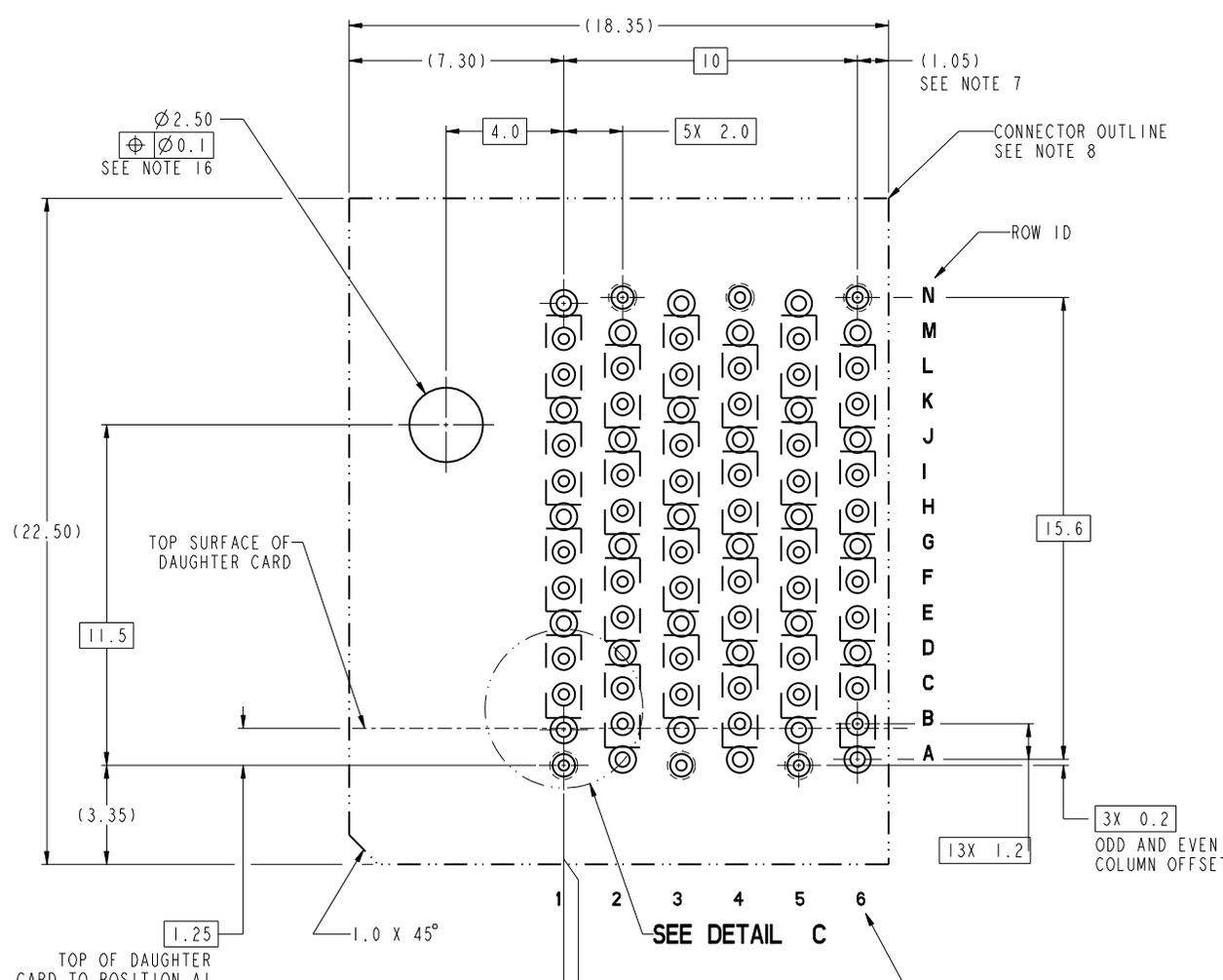
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DETAIL C  
SCALE 20:1

0.00MM BETWEEN COLUMN 1 OF THE RAR AND COLUMN 1 OF THE VH

Heaven Cen 2013/11/12

RECOM Peng-Bing Fu 2016/04/06

101278

SEE NOTES 7, 8, 9, 11 & 10

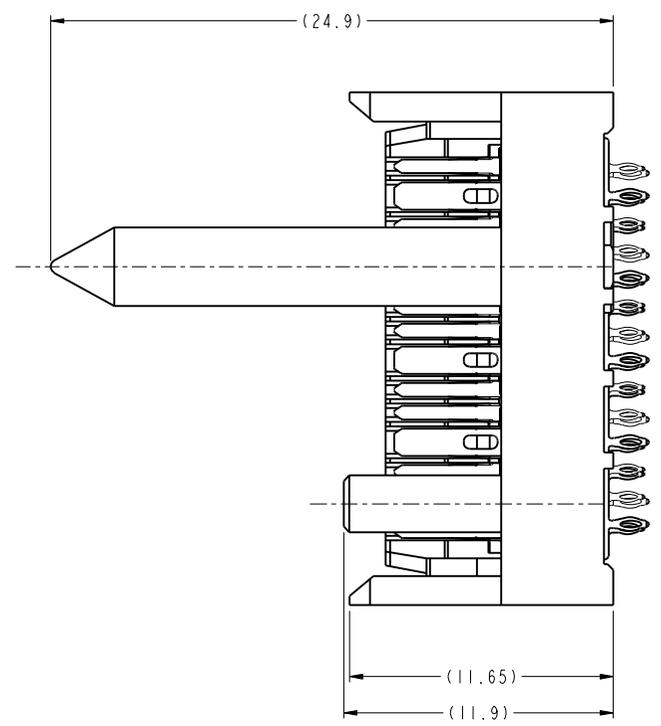
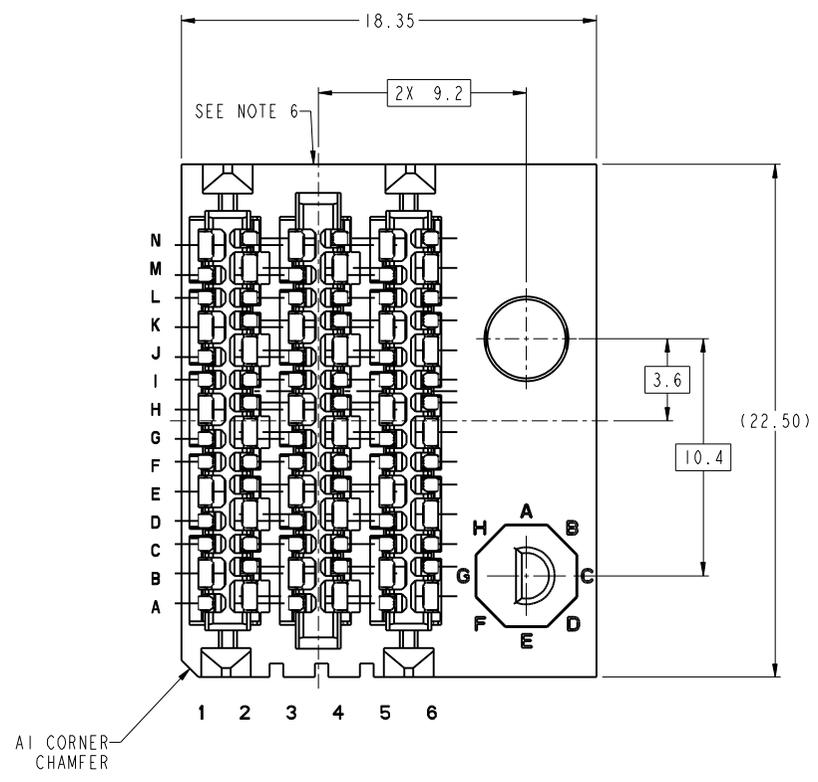
Preliminary

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear	0.X	±.3		<b>ExaMAX VERTICAL HEADER ASSY</b> 4 PR, 84 POS, 6 IMLA SEE TABLE	eng no 10127896	rev 4	
		0.XX	±.10					
		0.XXX	±.050					
ISO 1302	angular	0°	±°	col. no.	Product - Customer Drw	sheet 7 of 11		

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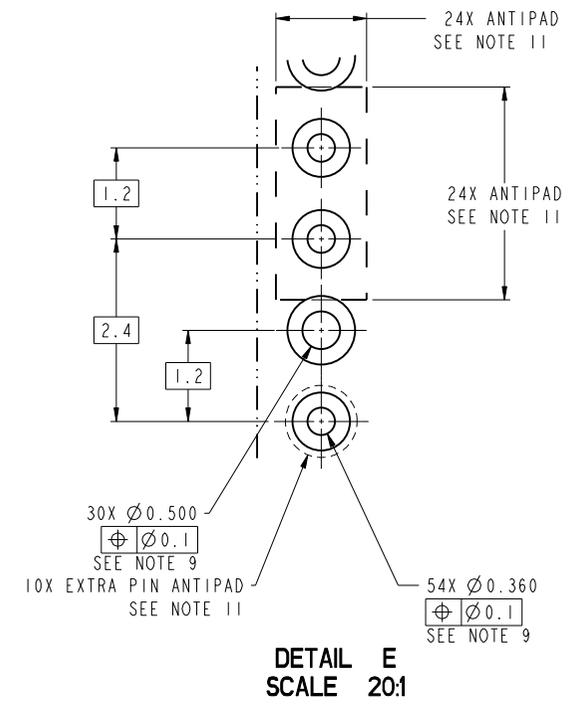
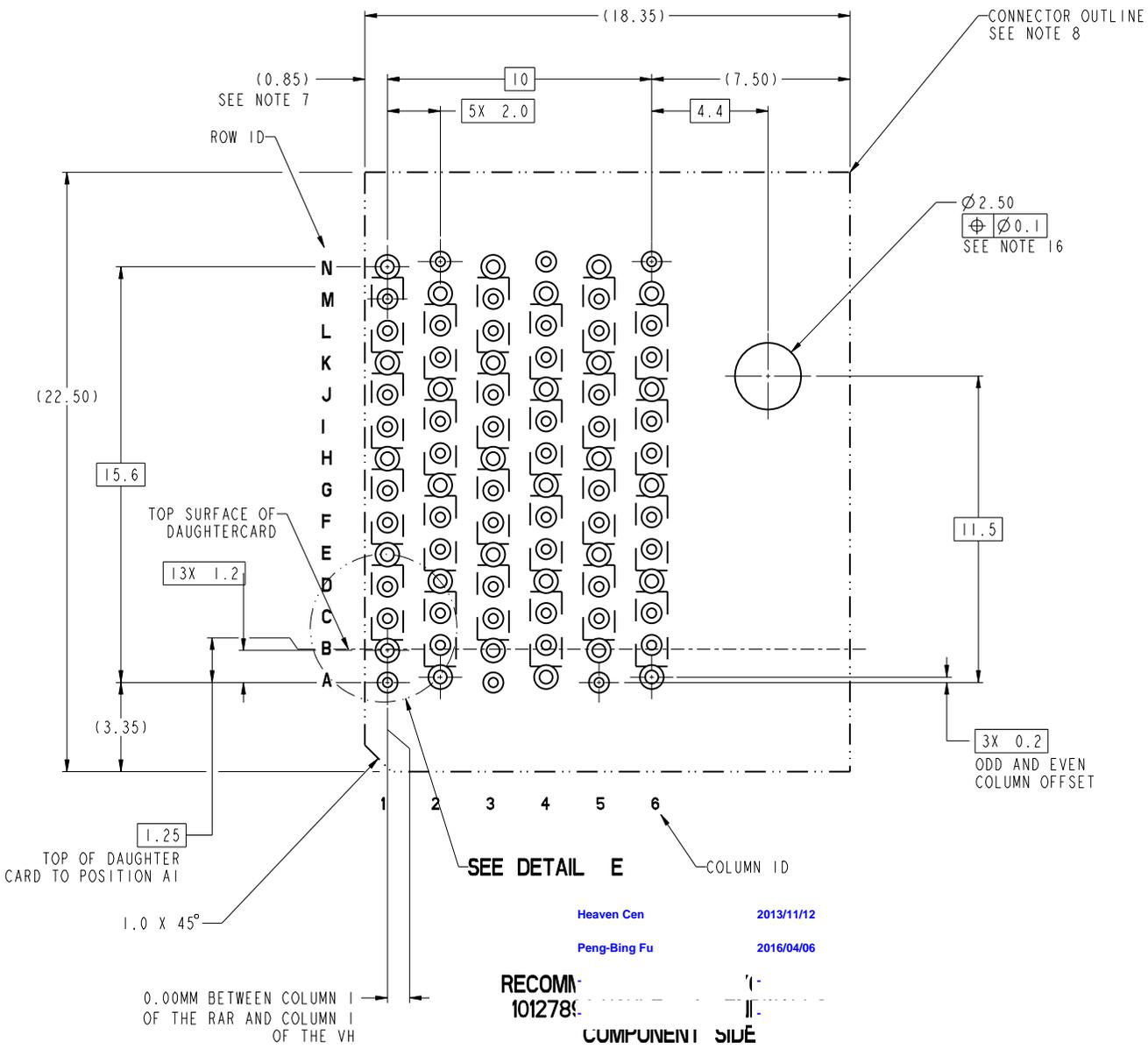
Heaven Cen 2013/11/12  
 Peng-Bing Fu 2016/04/06

SEE NOTE 17)  
 SHEET 1

Preliminary

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear	0.X	±.3		<b>ExaMAX VERTICAL HEADER ASSY</b>		ang no	10127896
		0.XX	±.10		4 PR, 84 POS, 6 IMLA	rev	4	
		0.XXX	±.050		col. no.	SEE TABLE	Product - Customer Drw	sheet 8 of 11
ISO 1302	angular	0°	±°					

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Heaven Cen 2013/11/12  
 Peng-Bing Fu 2016/04/06

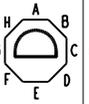
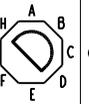
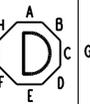
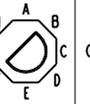
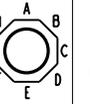
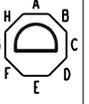
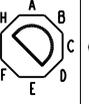
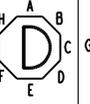
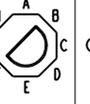
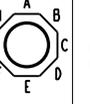
**RECOMMENDATION**  
 10127896

**COMPONENT SIDE**  
 SEE NOTES 7, 8, 9, 11 & 16

**Preliminary**

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr			product family	ExaMAX		
surface	linear	0.X	±.3		ExaMAX VERTICAL HEADER ASSY		eng no	10127896
		0.XX	±.10		4 PR, 84 POS, 6 IMLA		rev	4
		0.XXX	±.050		SEE TABLE		Product - Customer Drw	sheet 9 of 11
ISO 1302	angular	0°	±°	col. no.				

10127896 - Y Y Y L F

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)	
										

ASSEMBLY PART NUMBER	DESCRIPTION
10127896-1YYLF	STANDARD MATE
10127896-2YYLF	ADVANCED MATE
10127896-3YYLF	SHORT DETECT
10127896-4YYLF	ADVANCED MATE & SHORT DETECT

Heaven Cen 2013/11/12

Peng-Bing Fu 2016/04/06

Preliminary

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4	
ISO 406		chr	WILL LIU	2014-02-18					product family
ISO 1101		appr							
surface	linear	0.X	±.3		ExaMAX VERTICAL HEADER ASSY			ang no	10127896
		0.XX	±.10						
		0.XXX	±.050						
ISO 1302	angular	0°	±°	4 PR, 84 POS, 6 IMLA			rev	4	
		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;  
GUIDE PIN AND 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, (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 THE APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTHS, TRACE SPACING, ETC.
- 12- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED, OR VAPOR PHASE REFLOW OVEN.
- ⑬- THE ADVANCED MATE HEADER, 10127896-2YYLF, 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, 10127896-3YYLF, 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.
- ⑮- THE ADVANCED MATE/SHORT DETECT HEADER, 10127896-4YYLF, 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 OF MATING CONTACTS THAT MATE 1.00MM AFTER THE REMAINDER OF THE SIG
- ⑯- FOR CONNECTORS WITH EITHER A RIGHT OR LEFT GUIDE MODULE, ONE PHILL SCREW MUST BE USED TO SECURE GUIDE PIN/CONNECTOR TO THE PCB. THE S. 2.0 - 6.0mm PLUS THE THICKNESS OF THE BOARD. SCREW IS NOT PROVIDED
- 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 VERTICAL HEADER MATES A RIGHT GUIDE RIGHT ANGEL RECEPTACLE. )
- ⑱- ALL GROUND CONTACTS WITHIN A COLUMN ARE COMMONED.

Heaven Cen 2013/11/12

Peng-Bing Fu 2016/04/06

Preliminary

spec ref	SEE NOTES	dr	WILL LIU	2014-02-18	projection	MM	size	A2
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	WILL LIU	2014-02-18			ech no	4
ISO 406		chr	WILL LIU	2014-02-18			rel level	
ISO 1101		appr						
surface	linear	Amphenol FCI			Title		ExaMAX VERTICAL HEADER ASSY	
					4 PR, 84 POS, 6 IMLA		10127896	
	angular				SEE TABLE		rev 4	
ISO 1302					Product - Customer Drw		sheet 11 of 11	

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