

PRODUCT NUMBER
SEE SHEET 16

ODD COLUMN, CONTACT ROW ID
ODD AND EVEN COLUMNS
ARE OFFSET

23.90

EVEN COLUMN,
CONTACT ROW ID

NOTE 6

HOUSING

6X 1
SIGNAL PAIR
CENTER

6X 3.6
GROUND CENTERS

1.3
ROW A TO
FIRST GND

6X 3.6
SIGNAL
CENTERS

AI CORNER CHAMFER

T
S
R
Q
P
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9 10 11 12

COLUMN ID

T
S
R
Q
P
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A

6X 1
SIGNAL PAIR
CENTERS

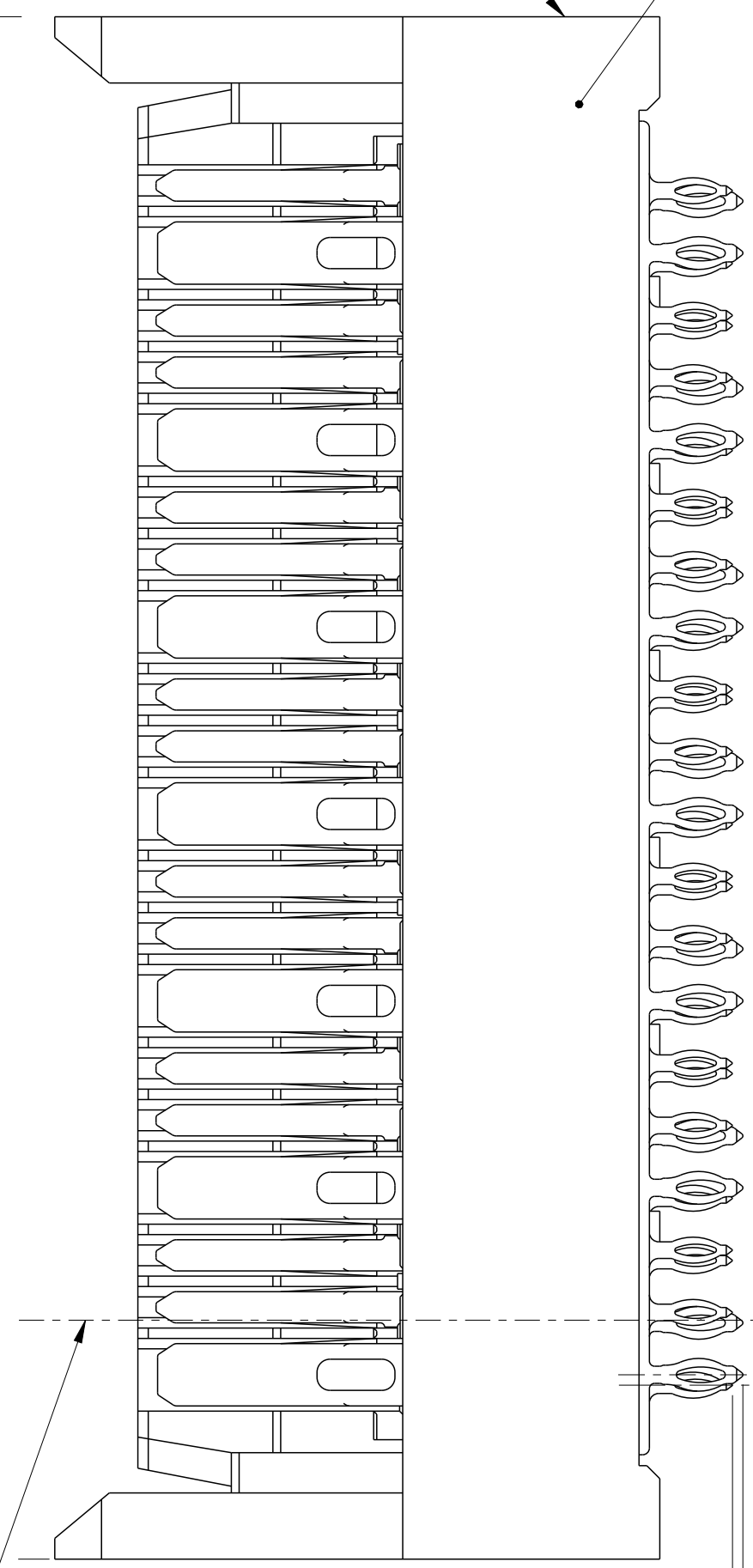
6X 3.6
SIGNAL
CENTERS

1.3
ROW A TO
FIRST SIG

6X 3.6
GROUND CENTERS

TOP SURFACE
OF DAUGHTER CARD

(29.70)



1.05
CL OF ROW A
EVEN COLUMNS

1.25
CL OF ROW A
ODD COLUMNS

0.20
ODD TO EVEN
COLUMN OFFSET

156X 1.40±0.15
SIGNALS

84X 1.60±0.15
GROUNDS
SEE NOTE 18

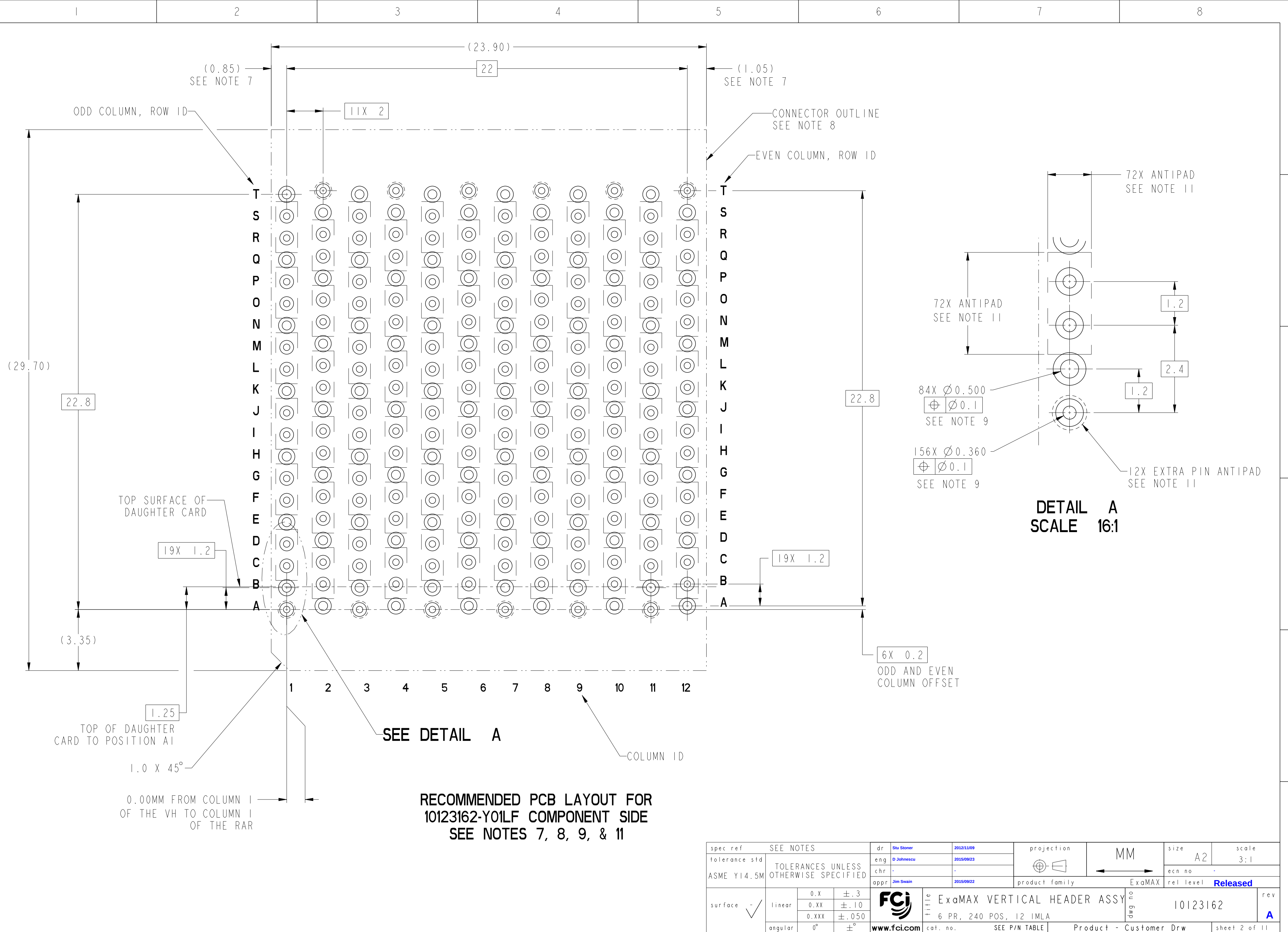
10123162-Y01LF
(10123162-101LF STANDARD MATE CONNECTOR SHOWN)

spec ref		SEE NOTES		dr	Stu Stoner	2012/11/09	projection 	MM 	size	A2	scale	8:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	D Johnescu	2015/09/23			ecn no	-			
ASME Y14.5M				chr	-	-							
				appr	Jim Swain	2015/09/22	product family		ExaMAX				
									rel level		Released		
surface 	linear	0.X ±.3			title	ExaMAX VERTICAL HEADER ASSY				dwg no	10123162		rev
		0.XX ±.10											
		0.XXX ±.050											
	angular	0° ±°				www.fci.com		cat. no.			SEE P/N TABLE		

PDS: Rev :A

STATUS:Released

Printed: Sep 23, 2015



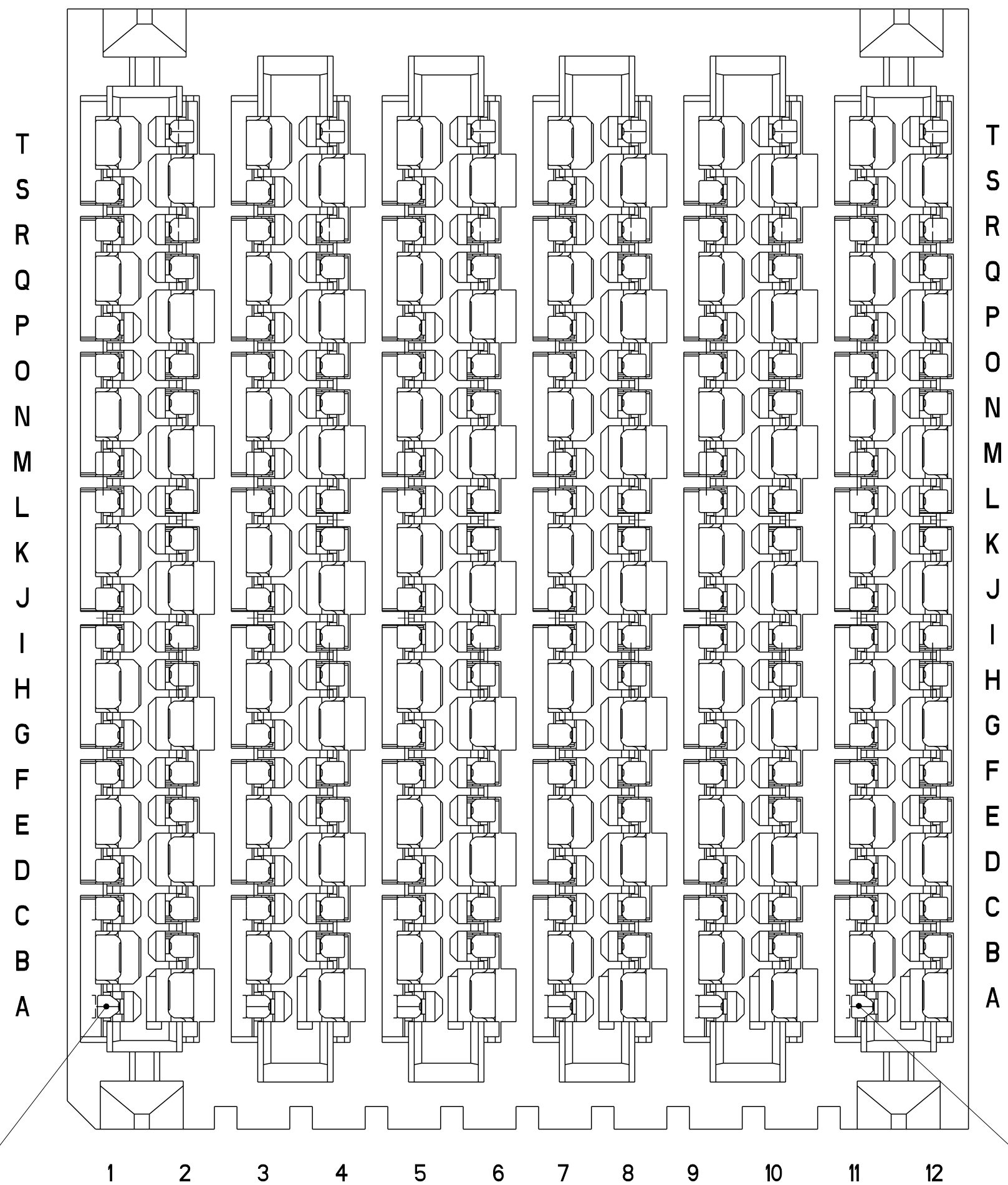
RECOMMENDED PCB LAYOUT FOR
10123162-Y01LF COMPONENT SIDE
SEE NOTES 7, 8, 9, & 11

spec ref	SEE NOTES	dr	Stu Stoner	2012/11/09	projection	MM	size	A2	scale	3:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	D Johnescu	2015/09/23			ecn no	-		
ASME Y14.5M		chr	-	-			rel level	Released		
		appr	Jim Swain	2015/09/22	product family	ExaMAX				
surface	linear	0.X	±.3		title	ExaMAX VERTICAL HEADER ASSY	dwg no	10123162	rev	A
		0.XX	±.10			6 PR, 240 POS, 12 IMLA				
		0.XXX	±.050							
	angular	0°	±°		www.fci.com	cat. no.	SEE P/N TABLE	Product - Customer Drw	sheet 2 of 11	

12345678

A
B
C
D
E
F

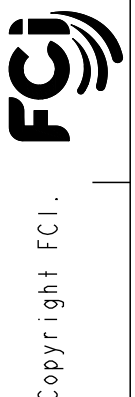
A
B
C
D
E
F



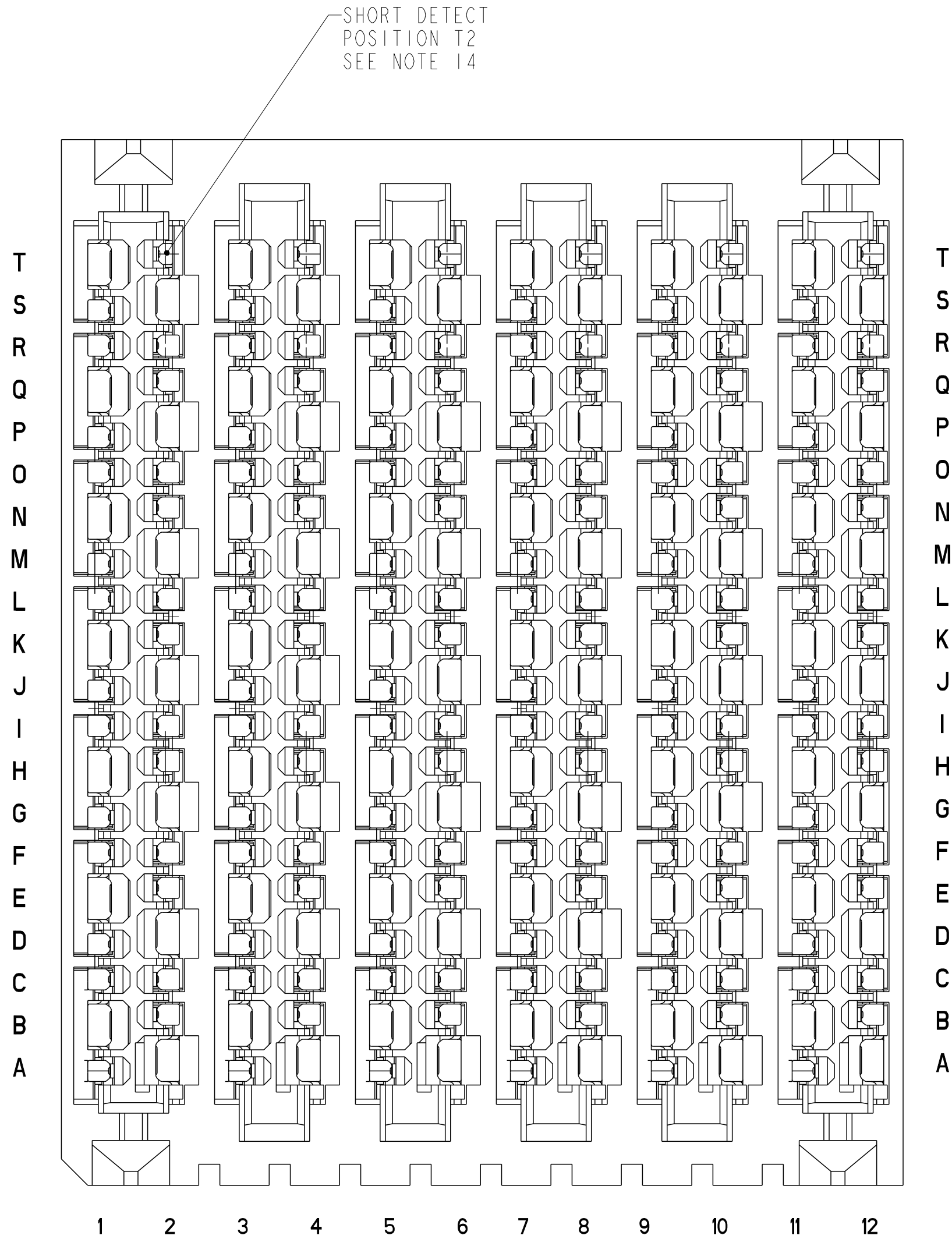
ADVANCED MATE
POSITION A1
SEE NOTE 13

ADVANCED MATE
POSITION A11
SEE NOTE 13

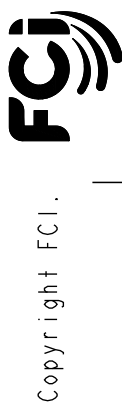
10123162-201LF
ADVANCED MATE CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2



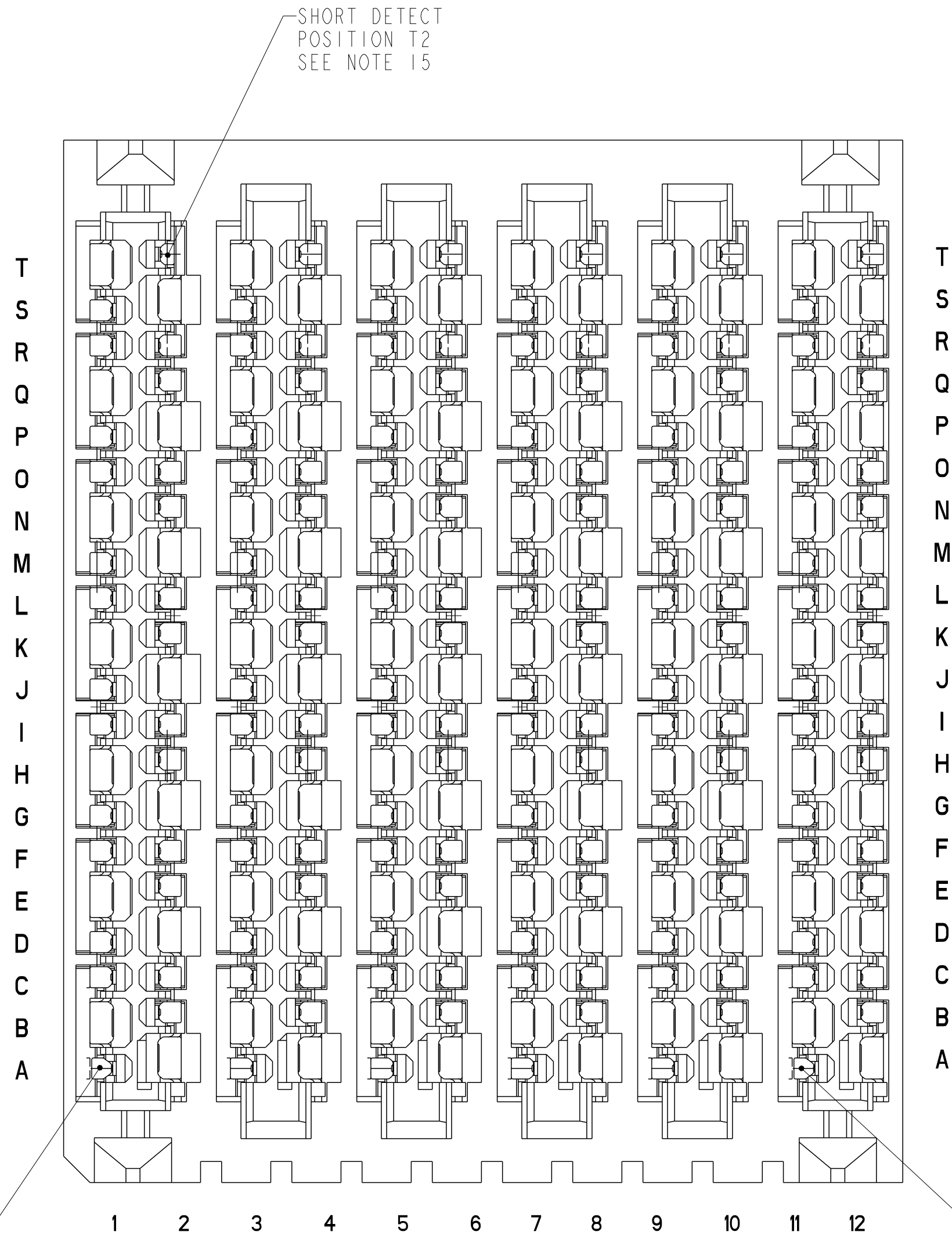
spec ref		SEE NOTES		dr	Stu Stoner	2012/11/09	projection		MM		size	A2	scale	6:1					
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	D Johnescu	2015/09/23					ecn no		-						
ASME Y14.5M				chr	-	-													
		appr	Jim Swain	2015/09/22			product family		ExaMAX		rel level		Released						
surface		linear	0.X		±.3			title		ExaMAX VERTICAL HEADER ASSY		dwg no		10123162		rev		A	
			0.XX		±.10														
			0.XXX		±.050														
		angular		0°		±°													
				www.fci.com		cat. no.		SEE P/N TABLE		Product- Customer Drw		sheet 3 of 11							



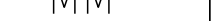
10123162-301LF
SHORT DETECT CONNECTOR
SHORT DETECT POSITION IS T2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

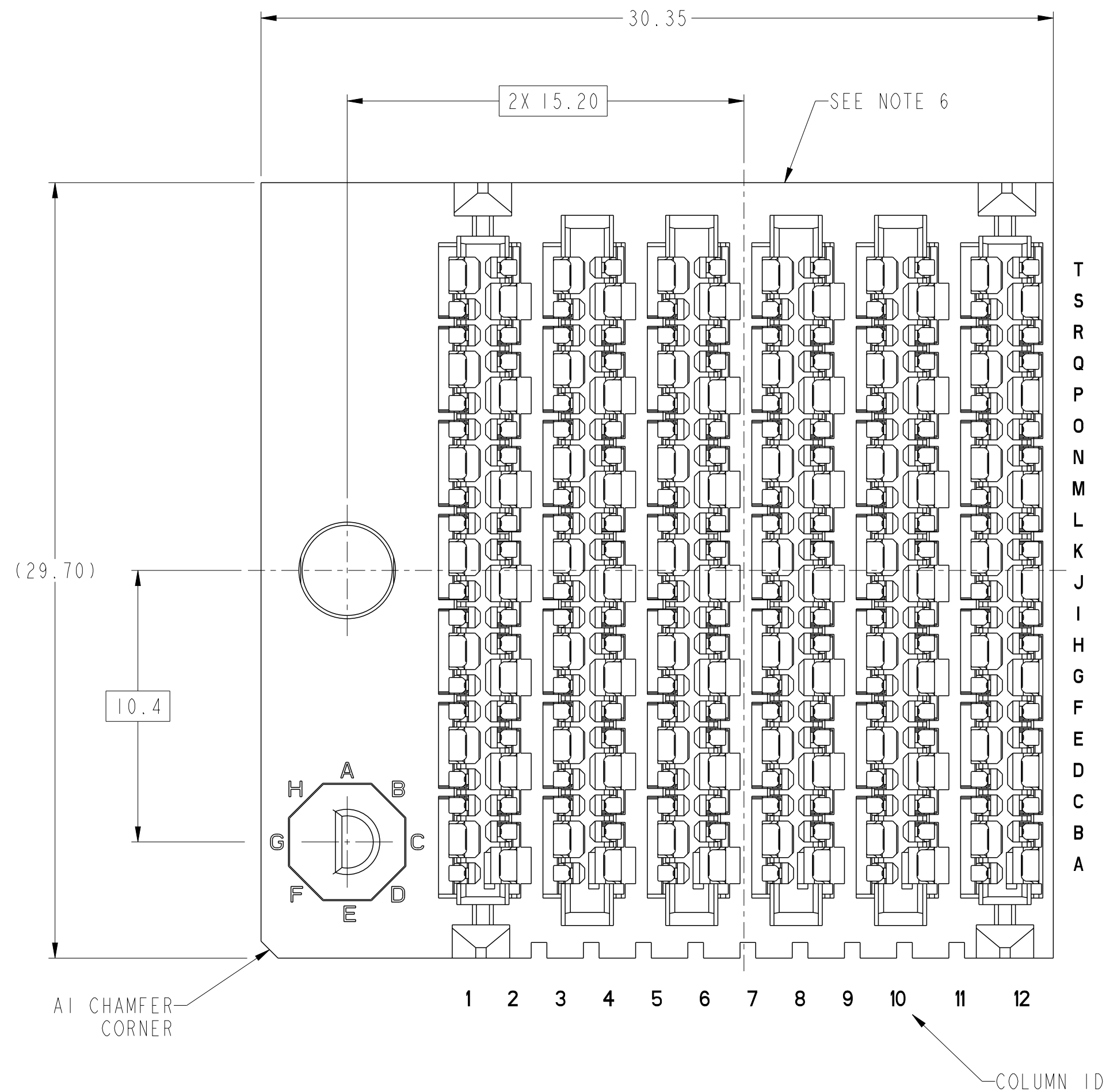
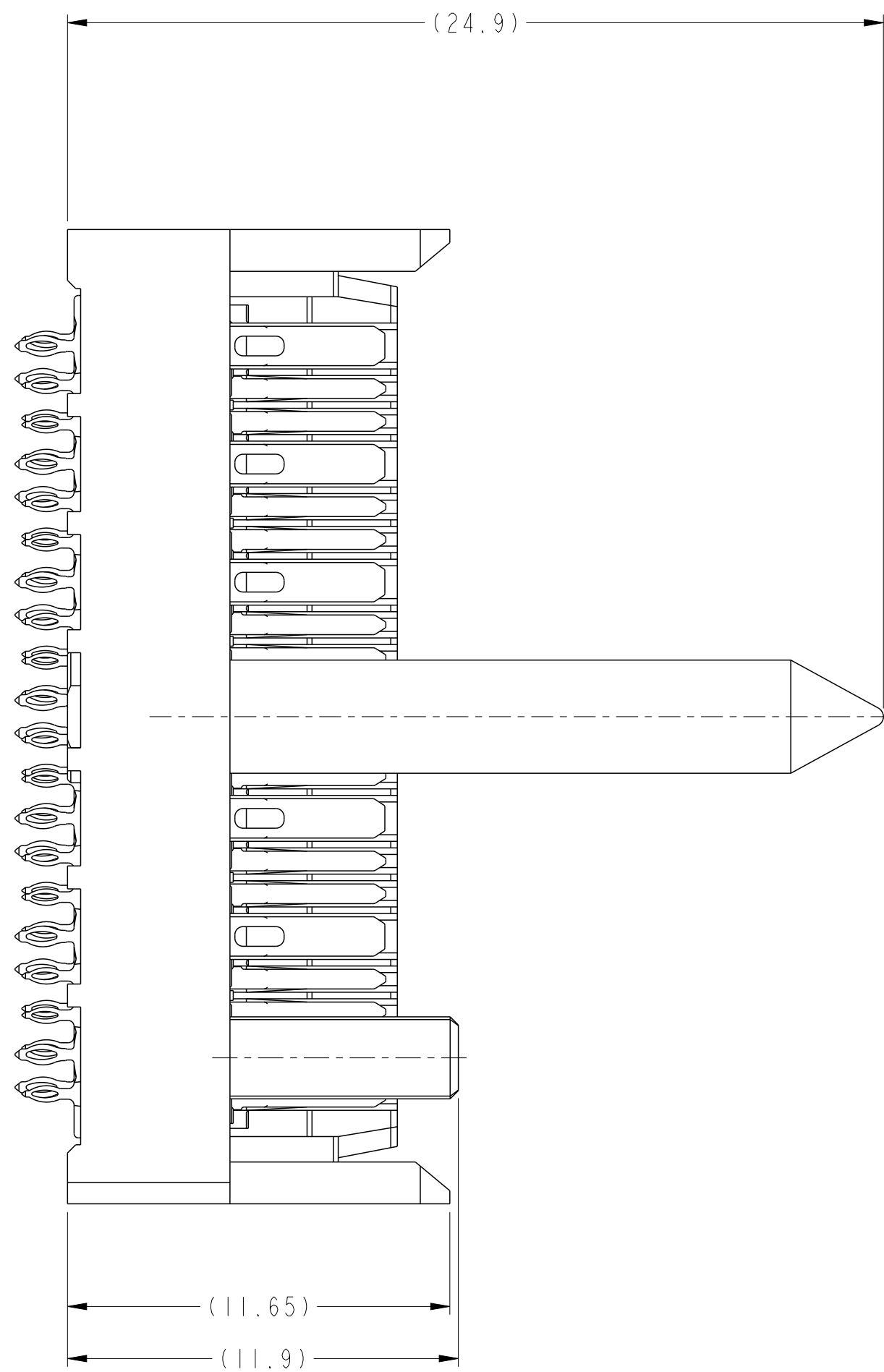


spec ref	SEE NOTES				dr	Stu Stoner	2012/11/09			MM	size	A2	scale	6:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED				eng	D Johnescu	2015/09/23				ecn no	-		
ASME Y14.5M					chr	-	-				rel level			Released
					appr	Jim Swain	2015/09/22				product family		ExaMAX	
surface	linear	0.X	±.3		title	ExaMAX VERTICAL HEADER ASSY				dwg no	10123162	rev	A	
		0.XX	±.10											
		0.XXX	±.050											
	angular	0°	±°	www.fci.com	cat. no.	SEE P/N TABLE	Product - Customer Drw		sheet 4 of 11					



10123162-401LF
ADVANCED MATE/SHORT DETECT CONNECTOR
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A11 ONLY
SHORT DETECT POSTION IS T2 ONLY
FOR ALL OTHER DIMENSIONS SEE SHEETS 1 & 2

spec ref		SEE NOTES		dr		Stu Stoner		2012/11/09		projection		MM		size		A2		scale		1:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		D Johnescu		2015/09/23						ecn no		-					
ASME Y14.5M				chr		-		-													
				appr		Jim Swain		2015/09/22		product family		ExaMAX		rel level		Released					
surface 		linear		0.X		±.3				title		ExaMAX VERTICAL HEADER ASSY		dwg no		10123162		rev		A	
				0.XX		±.10															
				0.XXX		±.050															
		angular		0°		±°		www.fci.com		cat. no.		SEE P/N TABLE		Product - Customer Drw		sheet 5 of 11					



10123162-Y1ALF THRU -Y1JLF
RIGHT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref		SEE NOTES		dr		Stu Stoner		2012/11/09		projection		size		scale			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		D Johnescu		2015/09/23				A2		6:1			
ASME Y14.5M				chr		-		-				ecn no		-			
				appr		Jim Swain		2015/09/22		product family		ExaMAX		rel level			
surface - ✓		linear				title		ExaMAX VERTICAL HEADER ASSY				dwg no		10123162		rev	



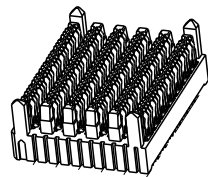
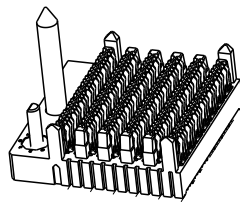
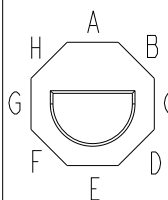
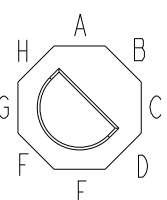
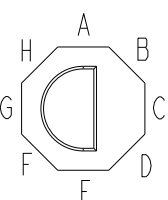
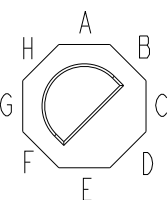
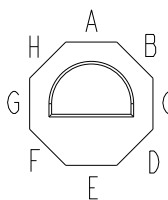
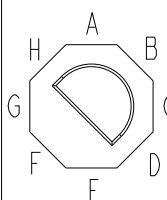
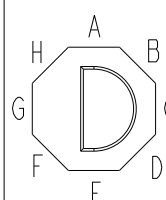
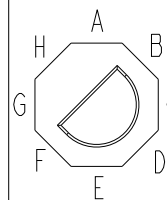
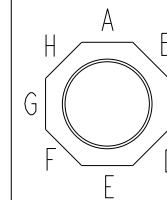
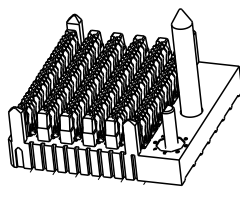
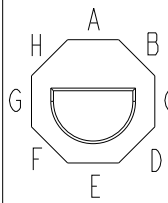
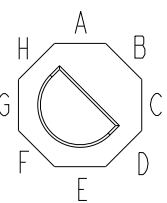
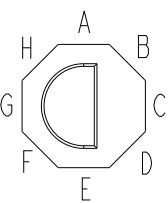
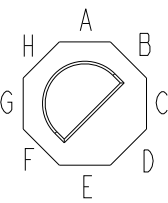
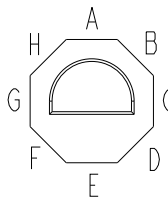
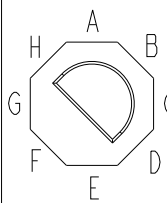
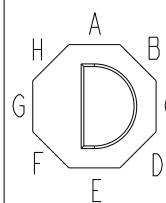
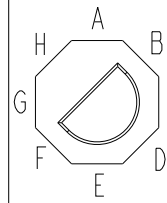
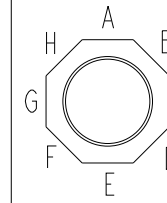
Copyright FCI.

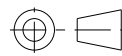
10123162-Y2ALF THRU -Y2JLF
LEFT GUIDANCE CONNECTOR (SEE NOTE 17)
FOR ALL OTHER DIMENSIONS SEE SHEET 1

spec ref		SEE NOTES		dr		Stu Stoner		2012/11/09		projection		MM		size		A2		scale		6:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		D Johnescu		2015/09/23						ecn no		-		rel level		Released	
ASME Y14.5M				chr		-		-						-							
		appr		Jim Swain		2015/09/22		product family						ExaMAX							
surface		linear		0.X		±.3				title		ExaMAX VERTICAL HEADER ASSY		dwg no		10123162		rev		A	
				0.XX		±.10															
				0.XXX		±.050															
		angular		0°		±°		www.fci.com		cat. no.		SEE P/N TABLE		Product - Customer Drw		sheet 8 of 11					

10123162 - Y Y Y L F

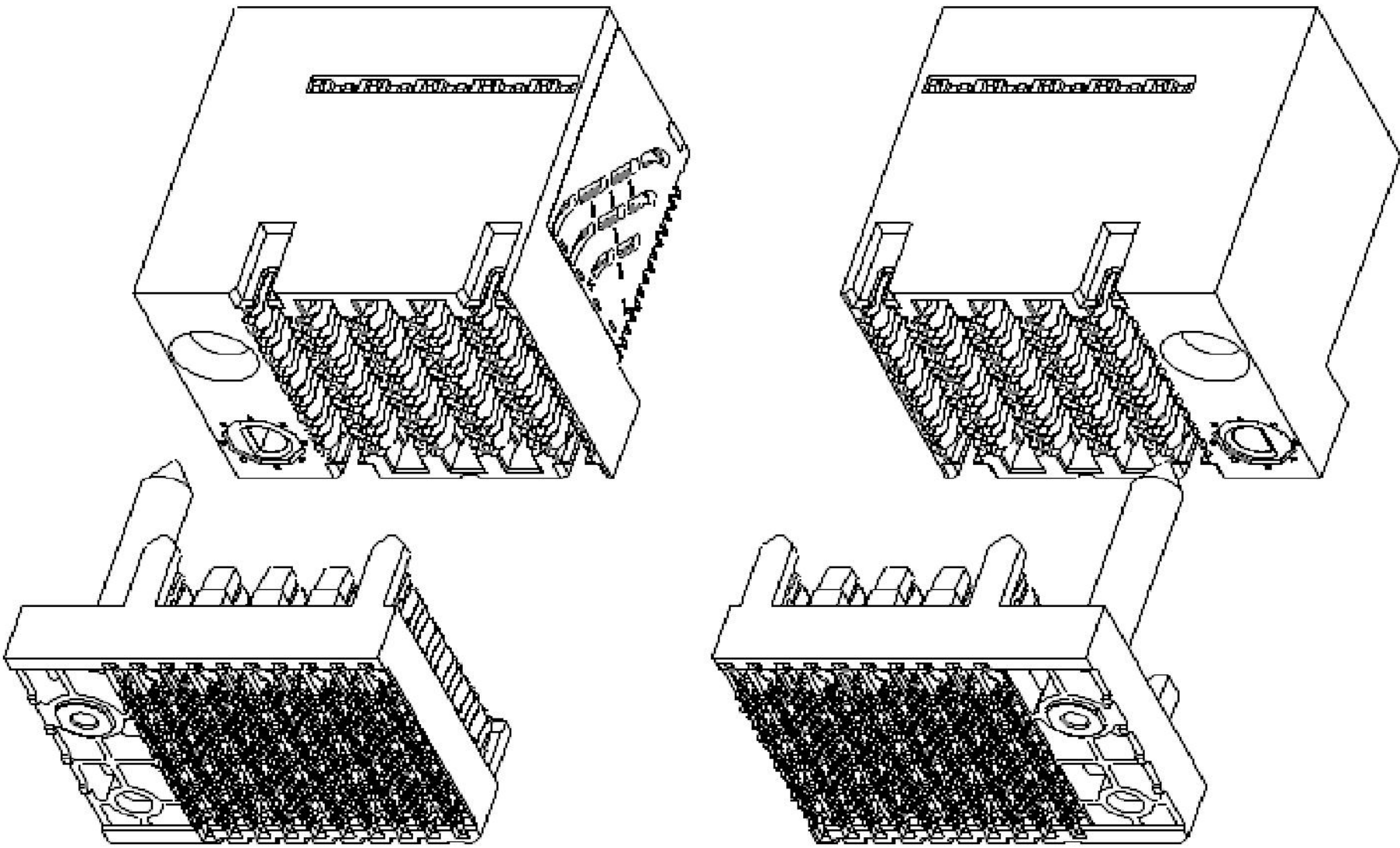
ASSEMBLY PART NUMBER	DESCRIPTION
10123162-1YYLF	STANDARD MATE
10123162-2YYLF	ADVANCED MATE
10123162-3YYLF	SHORT DETECT
10123162-4YYLF	ADVANCED MATE & SHORT DETECT

MODULE DESCRIPTION	DESIGNATION REPRESENTED IN DASH NUMBER									BASE MODULE
STANDARD NO GUIDANCE (SEE SHEET 1)	01									
RIGHT GUIDANCE MODULE (SEE SHEET 8)	1A	1B	1C	1D	1E	1F	1G	1H	1J (NO KEY)	
										
LEFT GUIDANCE MODULE (SEE SHEET 12)	2A	2B	2C	2D	2E	2F	2G	2H	2J (NO KEY)	
										

spec ref		SEE NOTES		dr		Stu Stoner		2012/11/09		projection		MM		size		A2		scale		1:1									
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		D Johnescu		2015/09/23						ecn no		-		rel level		Released									
ASME Y14.5M				chr		-		-																					
				appr		Jim Swain		2015/09/22		product family				ExaMAX															
surface - / ✓		linear		0.X		±.3				title		ExaMAX VERTICAL HEADER ASSY						dwg no		10123162						rev		A	
				0.XX		±.10																							
				0.XXX		±.050																							
		angular		0°		±°		www.fci.com		cat. no.		SEE P/N TABLE		Product - Customer Drw				sheet 10 of 11											

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, (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, 10123162-2YYLF, 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, 10123162-3YYLF, 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, 10123162-4YYLF, 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 1.00MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- 16 - FOR CONNECTORS WITH EITHER A RIGHT OR LEFT 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 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 WITHIN A COLUMN ARE COMMONED.



LEFT GUIDE

RIGHT GUIDE

ExaMAX INTEGRATED GUIDE ORIENTATION
4-PAIR 10-IMLA CONNECTORS SHOWN FOR REFERENCE ONLY
SEE NOTE 17



Copyright FCI.

spec ref	SEE NOTES			dr	Stu Stoner	2012/11/09	projection		size	A2	scale	2:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	D Johnescu	2015/09/23			ecn no	-	rel level	Released			
ASME Y14.5M				chr	-	-									
surface	linear	0.X	±.3		title	ExaMAX VERTICAL HEADER ASSY 6 PR, 240 POS, 12 IMLA			dwg no	10123162			rev	A	
		0.XX	±.10												
		0.XXX	±.050												
	angular	0°	±°	www.fci.com	cat. no.	SEE P/N TABLE	Product - Customer Drw			sheet 11 of 11					

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[FCI / Amphenol:](#)

[10123162-11JLF](#) [10123162-12ELF](#) [10123162-12ALF](#)