

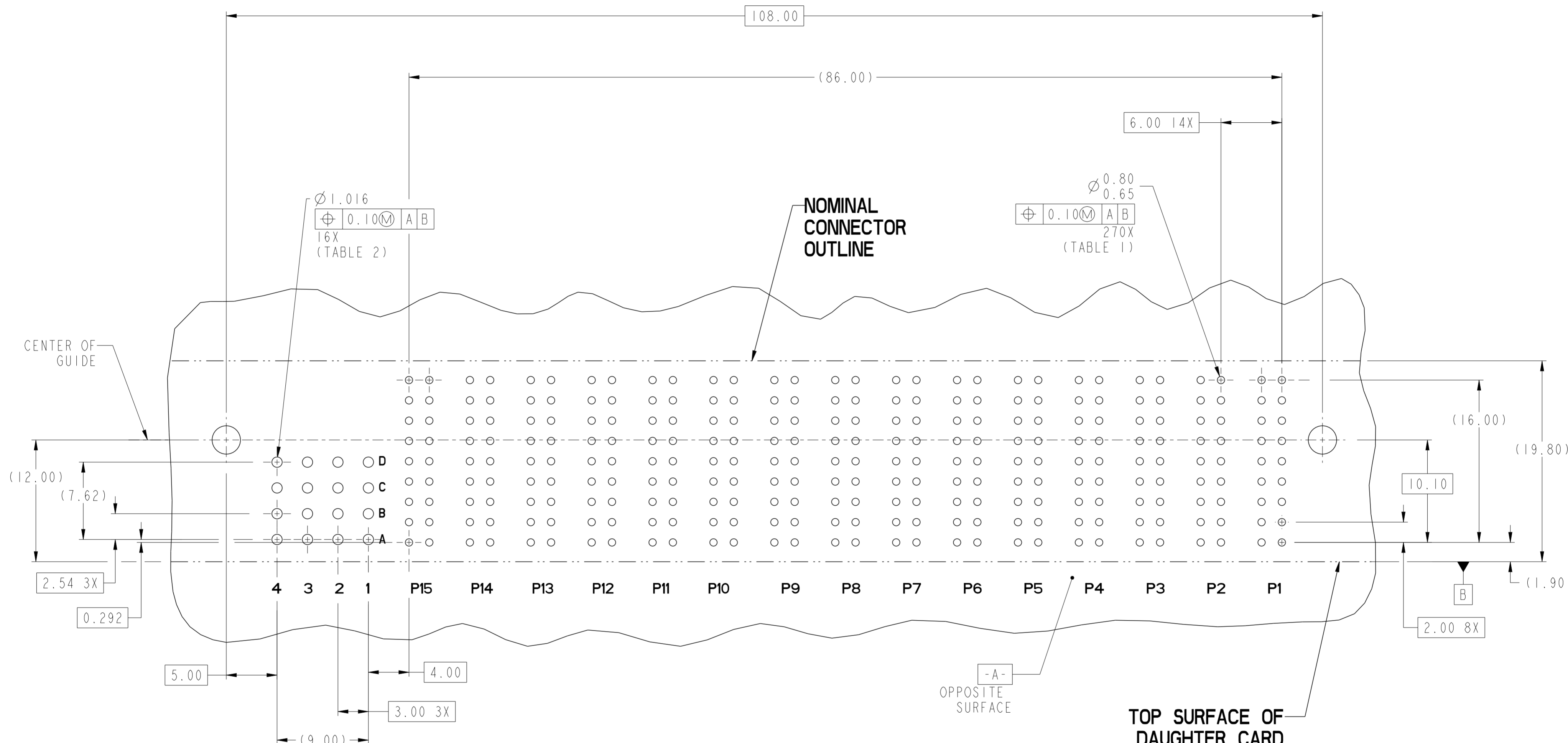
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spec ref	*	dr	DuWa	2010/04/28	projection	MM	size	A2	scale	3:1
tolerance std	ASME Y14.5	eng	Helen Zhang	2012/07/23	chr	-	ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		appr	Pei-Ming Zheng	2012/07/23	product family	-	rel level	-	Product - Customer Drw	sheet 1 of 4
surface	ASME Y14.5	linear	0.X	$\pm .5$	FCI	VERT RECP ASSY 15DC-16S	10107012	A	rev	A
			0.XX	$\pm .25$						
			0.XXX	$\pm .10$						
angular	0°	$\pm 2^\circ$	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 1 of 4	rev	A	

PDS: Rev :A

STATUS:Released

Printed: Jul 23, 2012



**RECOMMENDED PCB LAYOUT  
COMPONENT SIDE**

NOTE 6

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spec ref	*	dr	DuWa	2010/04/28	projection	MM	size	A2	scale	3:1	
tolerance std	ASME Y14.5	eng	Helen Zhang	2012/07/23	chr	-	ecn no	-	rel level	Released	
surface	✓	appr	Pei-Ming Zheng	2012/07/23	product family	-	rel level	-	rel level	Released	
ASME Y14.5	linear	0.X	±.5	0.XX	±.25	0.XXX	±.10	angular	0°	±2°	
		FCI		VERT RECP ASSY 15DC-16S		HCI POWER CONNECTOR		cat. no.	10107012	rev	A
		www.fci.com		Product - Customer Drw		sheet 2 of 4					

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A

A

B

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E

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F

F

TOP LAYER DESCRIPTION

TABLE 1 (HCI POWER)  
PLATED THROUGH-HOLE REQUIREMENTS

TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	--	--	--	--	0.65 - 0.80
IMMERSION TIN	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	0.9 - 1.5um	--	0.70 - 0.80
IMMERSION SILVER	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	0.15 - 0.65um	0.70 - 0.80
COPPER (SEE NOTE 9)	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	--	--	--	--	0.70 - 0.80
GOLD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	--	0.003 - 0.007	FLASH UP TO 0.0002	--	--	0.69 - 0.80

TOP LAYER DESCRIPTION

TABLE 2 (HPC SIGNALS)  
PLATED THROUGH-HOLE REQUIREMENTS

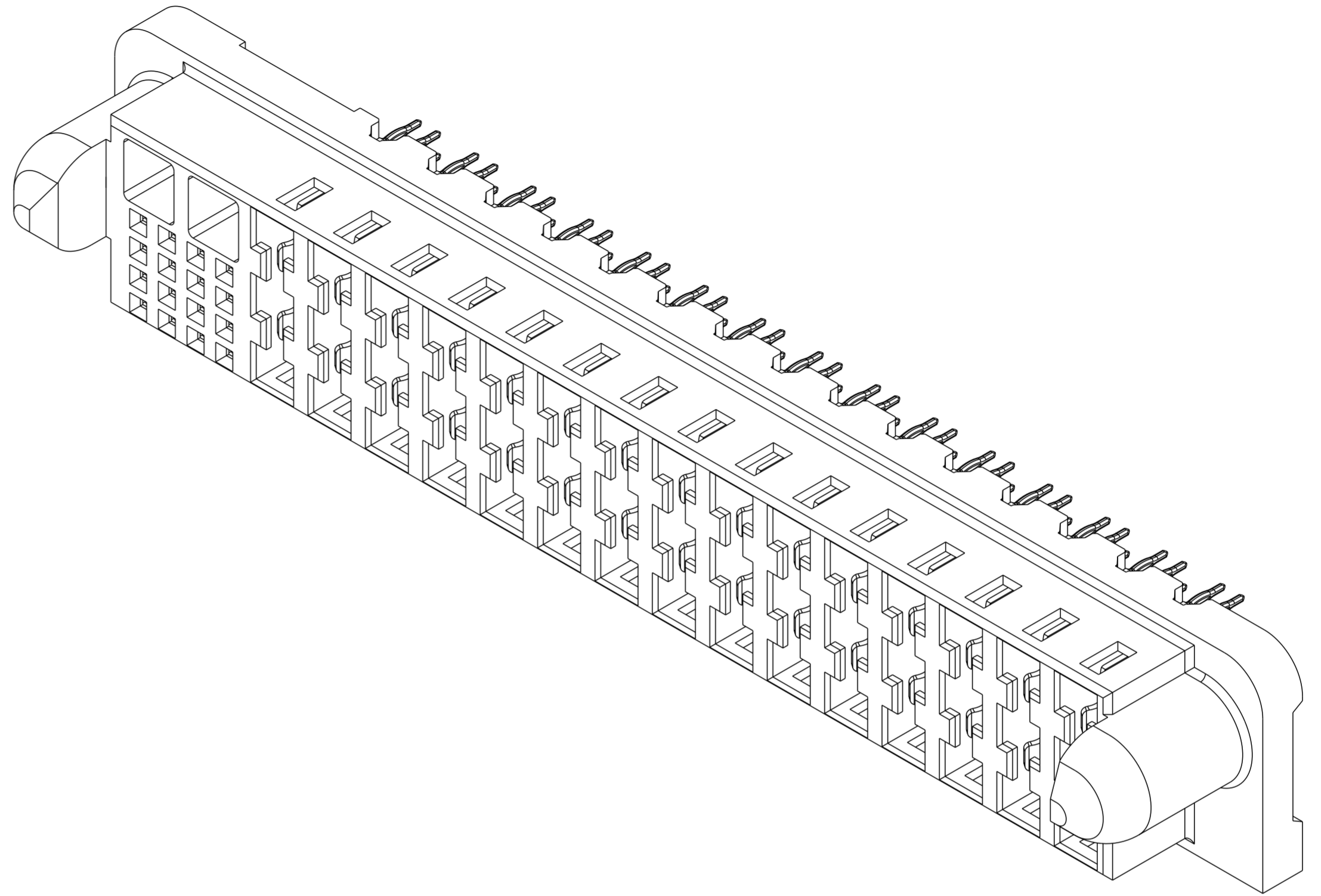
TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	1.125-1.175 ( $\varnothing .0453 \pm .0010$ )	0.025-0.050	0.005-0.015	0.94 - 1.10 ( $\varnothing .040 \pm .003$ )



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ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-	apppr							Pai-Ming Zheng	2012/07/23	product family	-						
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.5</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.25</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.10</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>	linear	0.X	±.5								0.XX	±.25		0.XXX	±.10	angular	0°	±2°	www.fci.com
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	0.XX	±.25																		
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angular	0°	±2°																		
ASME Y14.5	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.5</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.25</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.10</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>	linear	0.X	±.5		0.XX	±.25		0.XXX	±.10	angular	0°	±2°	FCI	title	VERT RECP ASSY 15DC-16S	cat. no.	10107012	rev	A
linear	0.X	±.5																		
	0.XX	±.25																		
	0.XXX	±.10																		
angular	0°	±2°																		

PART NUMBER	M2.5 SCREW NOTE 11	TAIL PLATING	TAIL TYPE
10107012-001	OPTIONAL	SnPb	PRESS-FIT
10107012-001LF	OPTIONAL	Sn	PRESS-FIT



NOTES:

1. CONNECTOR MATERIALS:  
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK  
UL 94V-0 COMPLIANT  
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
2. CONTACT FINISH (ref GS-12-380 SECTION 5.2)
3. PRODUCT SPECIFICATION: GS-12-380.
4. APPLICATION SPECIFICATION: GS-20-070.
5. PRODUCT MARKING (PRODUCT NUMBER & DATE CODE) ON HOUSING IN AREA SHOWN.
6. MINIMUM NOMINAL PCB THICKNESS: 1.6mm
7. PACKAGING MEETS FCI SPECIFICATION GS-14-1073.
8. HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C  
PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,  
OR VAPOR PHASE REFLOW OVEN.
9. COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE  
NO MORE THAN 0.003 LESS THAN OTHER AREAS.
10. ALL HOLE SIZES ARE FINISHED HOLE SIZES.
11. RECOMMENDED RETENTION TO PCB:  
Ø0.110[2.79] THRU HOLE (UNPLATED) FOR M2.5 SELF THREADING SCREW, MAX  
HEAD Ø0.177[4.50].  
RECOMMENDED SCREW LENGTH 0.276[7.00] + PCB THICKNESS.  
RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).

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		www.fci.com		cat. no.	-	Product - Customer Drw	sheet 4 of 4	rev	A	