

spec ref	*	dr	De-Ming Lu	2014/06/30	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5	eng	De-Ming Lu	2014/09/09	chr	-	ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		appr	Pei-Ming Zheng	2014/09/09	product family					
surface	✓	linear	0.X	±0.5		R/A REC ASSY 16S + 12DCP HCI POWER CONNECTOR	dwg no 10130748	rev A	Product - Customer Drw	
		linear	0.XX	±0.25					sheet 1 of 4	
		linear	0.XXX	±0.100						
		angular	0°	±2°	www.fci.com					



2x $\varnothing 3.683 \pm 0.050$
 $\oplus 0.10 \text{ (M) } X | Y | Z$
 REQUIRED FOR
 #4 MOUNTING SCREWS
 AND PEM NUT
 (SEE P/N TABLE
 AND NOTE 11)

2x 9.80

8x 2.00

6.50 TYP

2x 5.00

2.00 TYP

1.00 TYP

DATUM Y ϕ

$\varnothing 0.725 \pm 0.075$ TYP
 (SEE TABLE 1)

$\varnothing 1.016 \pm 0.080$ TYP
 $\oplus 0.10 \text{ (M) } X | Y | Z$
 (SEE TABLE 2)

2x $\varnothing 2.49 \pm 0.08$
 $\oplus 0.10 \text{ (M) } X | Y | Z$
 REQUIRED ONLY FOR
 -003LF & -004LF
 (SEE P/N TABLE
 AND NOTE 11)

RECOMMENDED PCB LAYOUT
 COMPONENT SIDE
 NOTE 6

spec ref	*	dr	De-Ming Lu	2014/06/30	projection	MM	size	A2	scale	2:1
tolerance std	ASME Y14.5	eng	De-Ming Lu	2014/09/09			ecn no	rel level	Released	rev
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	apppr						
surface	ASME Y14.5	linear	0.X	± 0.5			R/A REC ASSY 16S + 12DCP HCI POWER CONNECTOR		dwg no 10130748	rev A
		angular	0°	$\pm 2^\circ$	www.fci.com		cat. no.		Product - Customer Drw sheet 2 of 4	

A
B
C
D
E
F

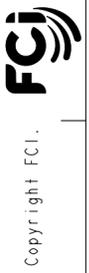
A
B
C
D
E
F

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
COLD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	-	0.003 - 0.007	FLASH UP TO 0.0002	-	-	0.69 - 0.80

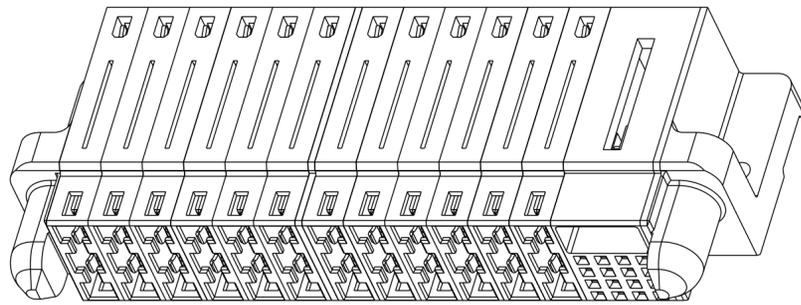
TABLE 2 (HCI SIGNAL)
PLATED THROUGH-HOLE REQUIREMENTS

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 ($\varnothing .040 \pm .003$)



spec ref	*	dr	De-Ming Lu	2014/06/30	projection	MM	size	A2	scale	2:1							
tolerance std	ASME Y14.5	eng	De-Ming Lu	2014/09/09			ecn no	-	rel level								
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	product family			Released										
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±0.5</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±0.25</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±0.100</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>	linear	0.X	±0.5		0.XX	±0.25		0.XXX	±0.100	angular	0°	±2°		title R/A REC ASSY 16S + 12DCP HCI POWER CONNECTOR	dwg no 10130748	rev A
linear	0.X	±0.5															
	0.XX	±0.25															
	0.XXX	±0.100															
angular	0°	±2°															
ASME Y14.5	www.fci.com	cat. no.	Product - Customer Drw		sheet 3 of 4												

PART NUMBER	RETENTION CLIPS	#4 SCREWS	DIM A (TAIL LENGTH)	TAIL TYPE
10130748-001LF	NO	YES	3.43	SOLDER TAIL
10130748-002LF	NO	YES	4.70	SOLDER TAIL
10130748-003LF	YES	NO	3.43	SOLDER TAIL
10130748-004LF	YES	NO	4.70	SOLDER TAIL



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. MOUNTING HOLES ARE UNPLATED.

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TOLERANCES UNLESS OTHERWISE SPECIFIED		appr	Pei-Ming Zheng	2014/09/09	product family					
surface	linear	0.X	±0.5	FCI	R/A REC ASSY 16S + 12DCP	www.fci.com	cat. no.	Product - Customer Drw	sheet 4 of 4	rev
		0.XX	±0.25							
		0.XXX	±0.100							
ASME Y14.5	angular	0°	±2°	HCI POWER CONNECTOR		10130748		A		