

spec ref	*	dr	DuWa	2010/04/27	projection	MM	size	A2	scale	1:1
tolerance std	ASME Y14.5	eng	Helen Zhang	2012/07/23			ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	cat. no.			-	Product - Customer Drw	sheet 1 of 4	
surface	ASME Y14.5	appr	Pei-Ming Zheng	2012/07/23			product family	-	rel level	Released
linear	0.X ±0.5 0.XX ±0.25 0.XXX ±0.10	FCI	R/A RECPT ASSY 15DC-16S HCI POWER CONNECTOR		dwg no	10106031	rev	A		
angular	0° ±2°	www.fci.com	cat. no.		Product - Customer Drw		sheet 1 of 4			

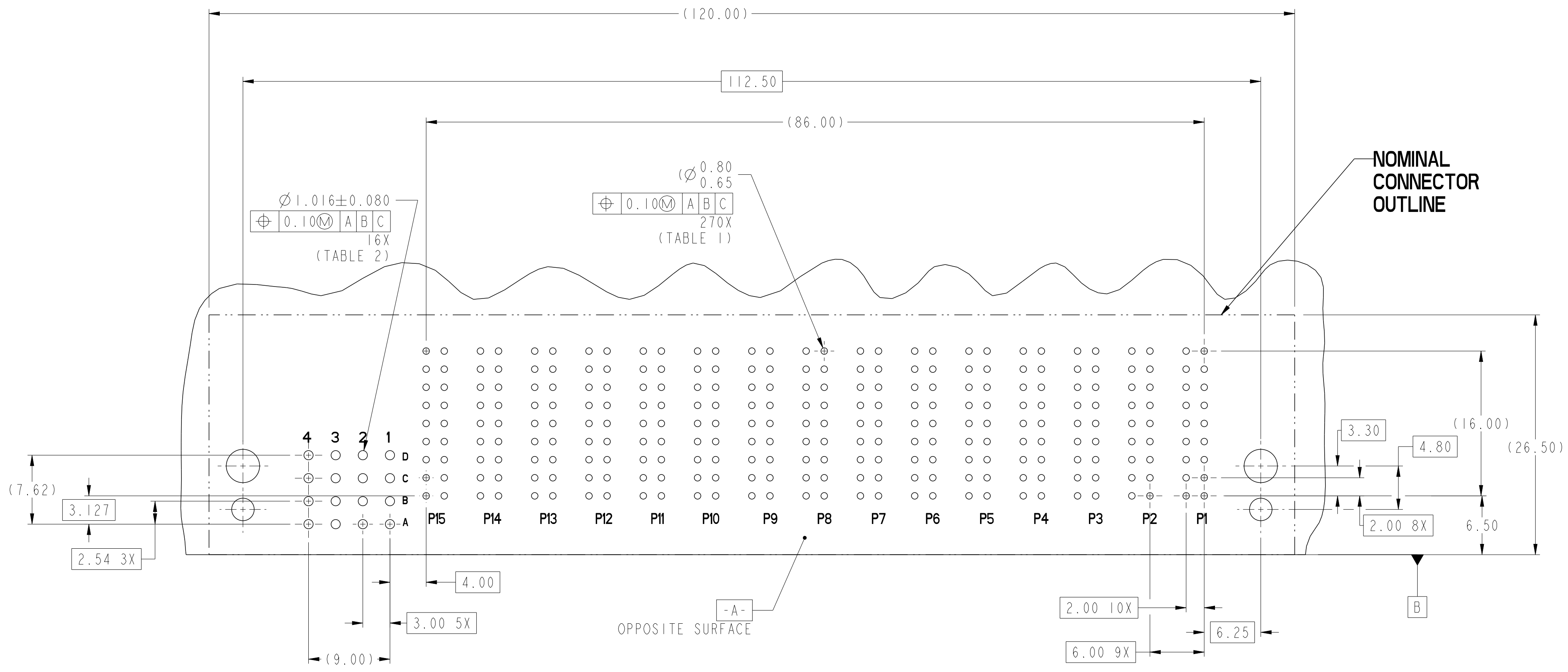
PDS: Rev :A

STATUS:Released

Printed: Jul 23, 2012



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**RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 6**



spec ref	*	dr	DuWa	2010/04/27	projection	MM	size	A2	scale	1:1
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surface	✓	appr	Pei-Ming Zheng	2012/07/23	product family	-	cat. no.	-	Product - Customer Drw	sheet 2 of 4
linear	0.X ±0.5 0.XX ±0.25 0.XXX ±0.10	angular	0° ±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 2 of 4	rev	A

A

B

C

D

E

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A

B

C

D

E

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

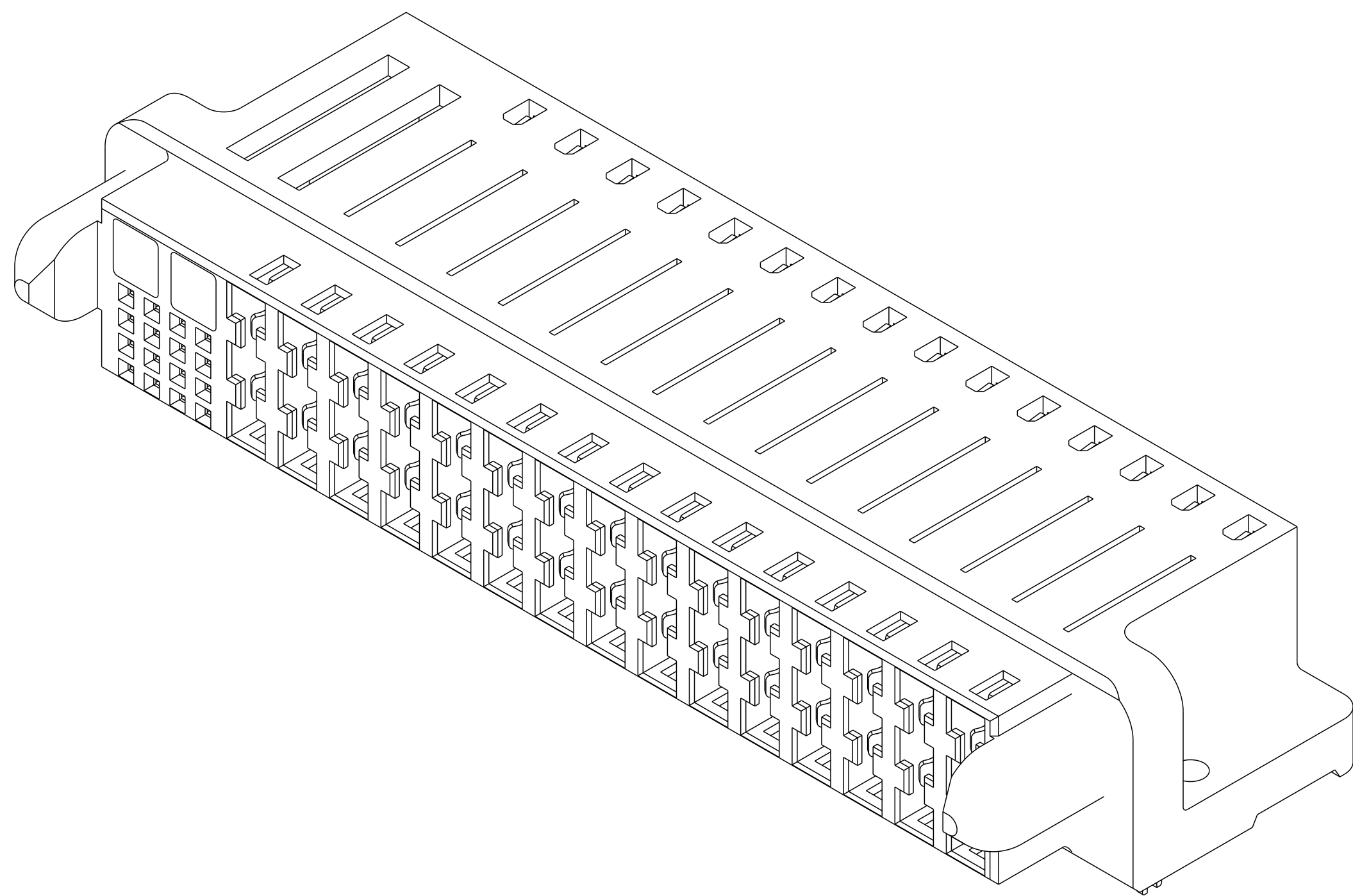
TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	1.125-1.175 ($\varnothing .0453 \pm .0010$)	0.025-0.050	0.005 - 0.015	0.94 - 1.10 ($\varnothing .040 \pm .003$)



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ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	-														
appr	Pei-Ming Zheng	2012/07/23	product family	-													
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>±0.10</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	±0.10	angular	0°	±2°		title R/A RECPT ASSY 15DC-16S HCI POWER CONNECTOR	dwg no 10106031	rev A
linear	0.X	±0.5															
	0.XX	±0.25															
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ASME Y14.5	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 4												

PART NUMBER	RETENTION CLIPS	#4 SCREW	DIM A (TAIL LENGTH)	TAIL TYPE
10106031-001LF	NO	YES	3.43	SOLDER TAIL
10106031-002LF	NO	YES	4.70	SOLDER TAIL
10106031-003LF	YES	NO	3.43	SOLDER TAIL
10106031-004LF	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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