

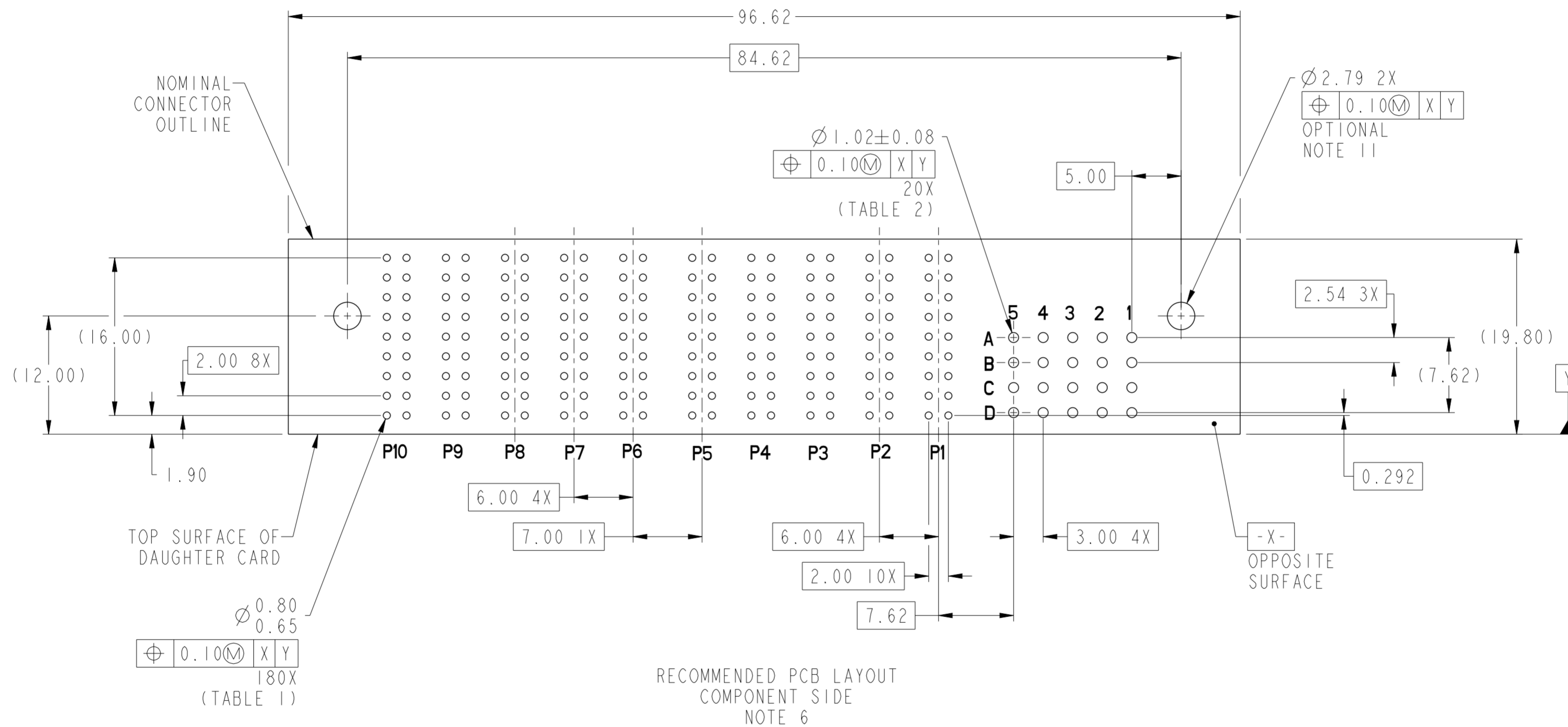
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rev		ecn no	dr	date	spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	2:1			
A		-	HZ	2012-06-26	tolerance std	ASME Y14.5	eng	Helen Zhang	2012/08/23			ecn no	-	rel level	Released			
-		-	-	-	TOLERANCES UNLESS OTHERWISE SPECIFIED surface <input checked="" type="checkbox"/>	linear <table border="1"> <tr> <td>0.X</td> <td>±0.5</td> </tr> <tr> <td>0.XX</td> <td>±0.25</td> </tr> <tr> <td>0.XXX</td> <td>±0.100</td> </tr> </table>	0.X	±0.5	0.XX							±0.25	0.XXX	±0.100
0.X	±0.5																	
0.XX	±0.25																	
0.XXX	±0.100																	
-		-	-	angular	0°	±2°	www.fci.com	Product - Customer Drw	sheet 1 of 4									
-		-	-	-	-	-	-	-	-	-	-	-	-	-	-			

PDS: Rev :A

STATUS:Released

Printed: Aug 24, 2012



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 6



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spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	2:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Helen Zhang	2012/08/23			ecn no	-	rel level	Released											
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		appr	Pei-Ming Zheng	2012/08/24			Product - Customer Drw		sheet 2 of 4												

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A

B

C

D

E

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A

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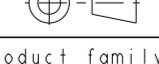


E

F

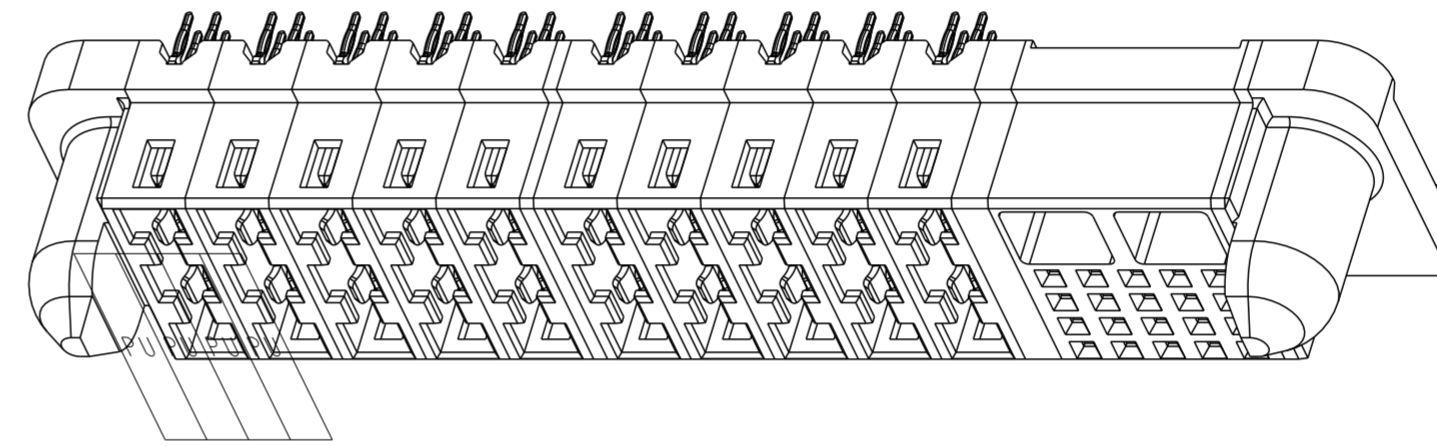
TOP LAYER DESCRIPTION	TABLE 1 (HCI POWER) PLATED THROUGH-HOLE REQUIREMENTS							
	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	-	-	-	-	0.65 - 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

TOP LAYER DESCRIPTION	TABLE 2 (HCI SIGNALS) PLATED THROUGH-HOLE REQUIREMENTS			
	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	1.15±0.025	0.025 - 0.050	0.005 - 0.015	1.02±0.08

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spec ref *	dr Helen Zhang	2012/06/26	projection	MM	size A2	scale 2:1
tolerance std	eng Helen Zhang	2012/08/23			ecn no	rel level
TOLERANCES UNLESS OTHERWISE SPECIFIED						
surface ✓	linear	0.X ±0.5		title VERT RECEPT ASSY 20S10DC HCI POWER CONNECTOR	dwg no 10121596	rev A
		0.XX ±0.25				
		0.XXX ±0.100				
	angular	0° ±2°	www.fci.com	cat. no.	Product - Customer Drw	sheet 3 of 4

PART NUMBER	M2.5 SCREW NOTE 11	TAIL TYPE
10121596-001LF	OPTIONAL	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 "FCI", PART NUMBER AND DATE CODE TO BE MARKED ON THIS SURFACE.
THE P/N CAN BE OMITTED IF THERE IS NOT ENOUGH SPACE ON THIS SURFACE.
- 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.
- ⑩ 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] + PCH THICKNESS.
RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).

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