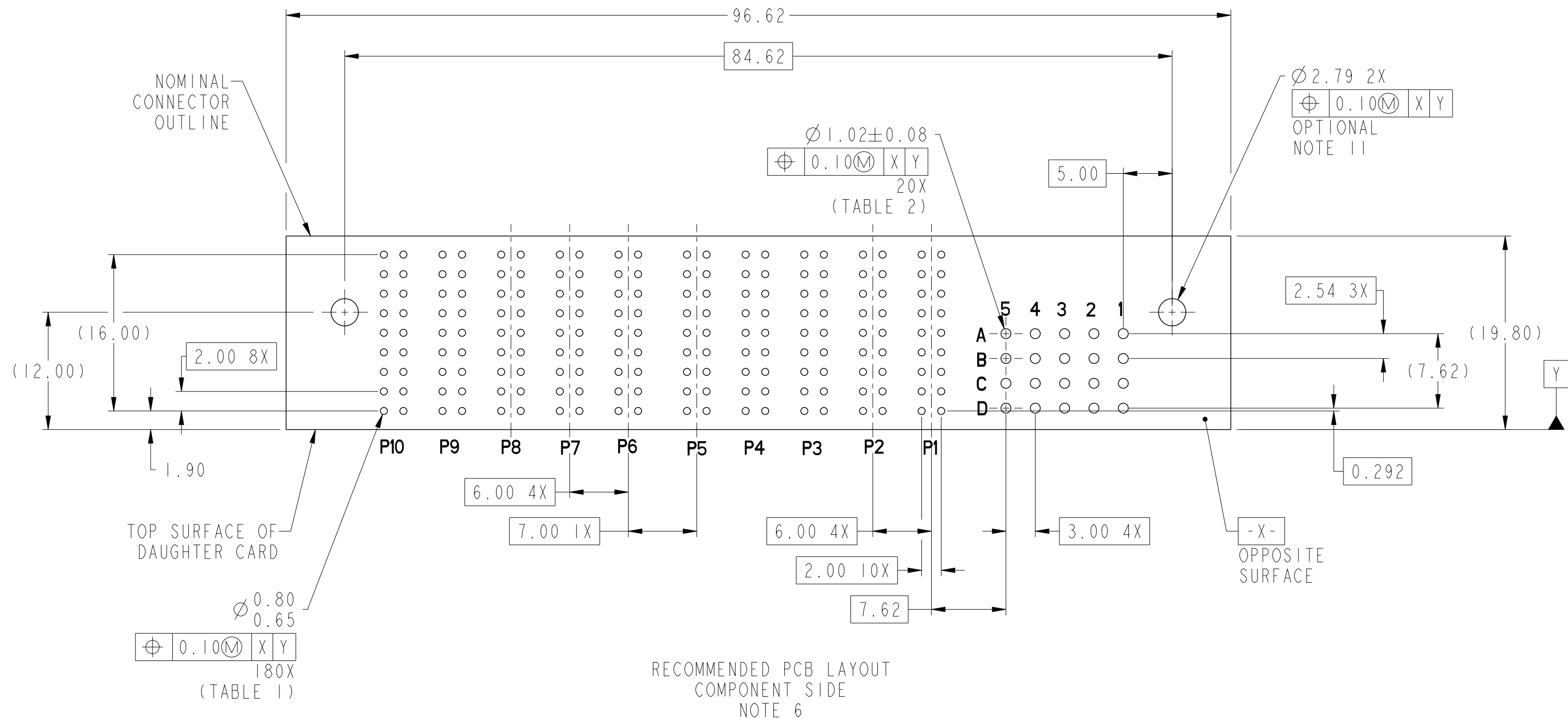


rev		ecn no	dr	date	spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	2:1
A		-	HZ	2012-06-26	tolerance std	ASME Y14.5	eng	Helen Zhang	2012/08/23			ecn no	-	rel level	
-		-	-	-	TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	product family			VERT RECEPT ASSY 20S10DC	rel level	Released	
-		-	-	-	surface		appr	Pei-Ming Zheng	2012/08/24		HCI POWER CONNECTOR	dwg no	10121596	rev	A
-		-	-	-			linear	0.X	±0.5			www.fci.com	cat. no.	Product - Customer Drw	sheet 1 of 4
-		-	-	-			0.XX	±0.25							
-		-	-	-			0.XXX	±0.100							
-		-	-	-	angular	0°	±2°	PDS: Rev :A		STATUS:Released		Printed: Aug 24, 2012			



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	
surface	linear: 0.X ±0.5, 0.XX ±0.25, 0.XXX ±0.100 angular: 0° ±2°	chr	-	product family			VERT RECEPT ASSY 20S10DC	cat. no.		10121596
		appr	Pei-Ming Zheng	2012/08/24	www.fci.com		Product - Customer Drw		sheet 2 of 4	

A
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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

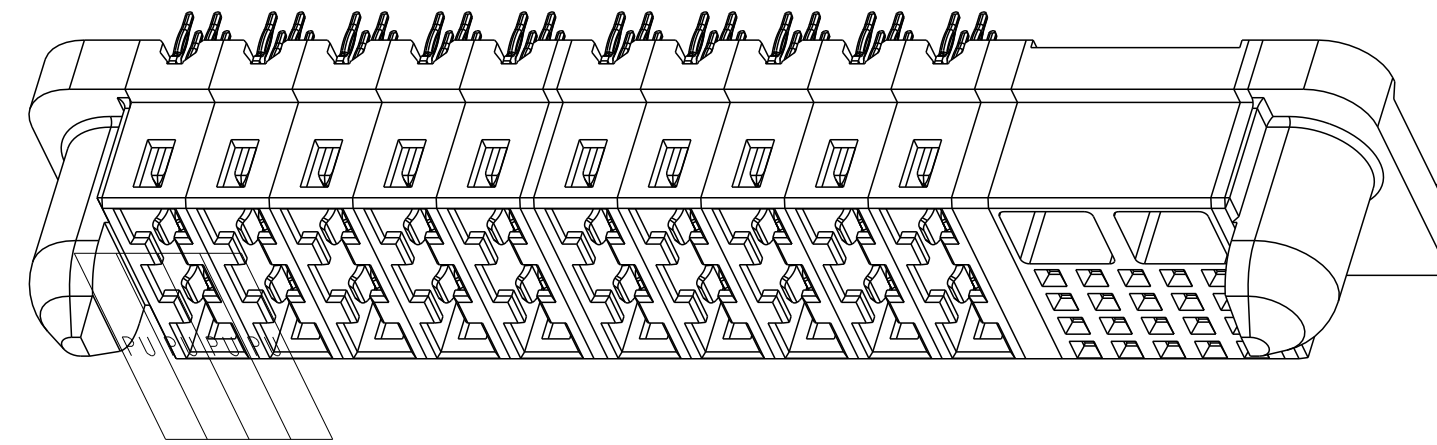
TABLE 2 (HCI SIGNALS)
PLATED THROUGH-HOLE REQUIREMENTS

TOP LAYER DESCRIPTION	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



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											
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°	chr	-	product family	VERT RECEPT ASSY 20S10DC	cat. no.
linear	0.X	±0.5																			
	0.XX	±0.25																			
	0.XXX	±0.100																			
angular	0°	±2°																			
		appr	Pai-Ming Zheng	2012/08/24			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.
- 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] + PCH THICKNESS.
RECOMMENDED SCREW SEATING TO PCB TORQUE: 2-5 lbf-in (2300-5760 gf-cm).

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
surface	linear	chr	-	product family			VERT RECEPT ASSY 20S10DC	cat. no.	10121596	rev	A
	angular	appr	Pai-Ming Zheng	2012/08/24			Product - Customer Drw	sheet 4 of 4			

PDS: Rev :A

STATUS:Released

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