

rev	ecn no	dr	date	spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	3:1
A	-	HZ	2012-06-26	tolerance std	ASME Y14.5	eng	Helen Zhang	2012/08/10	chr	-	ecn no	-	rel level	Released
-	-	-	-	surface	✓	appr	Pei-Ming Zheng	2012/08/13	product family	R/A HEADER ASSY 20S10DC	dwg no	10121594	rev	A
-	-	-	-	linear	0.X ±0.5	0.XX ±0.25	0.XXX ±0.100	angular	0° ±2°	www.fci.com	cat. no.	Product - Customer Drw	sheet 1 of 5	

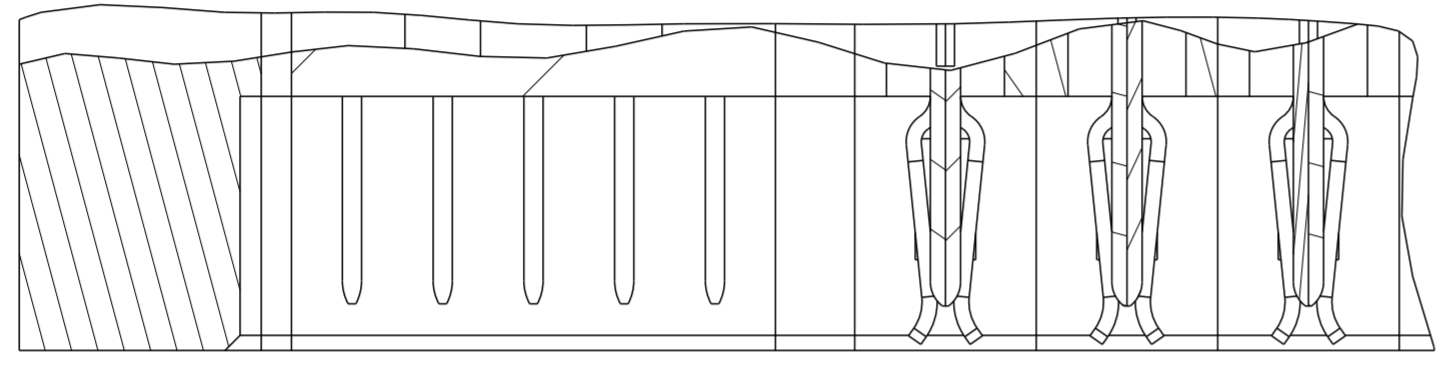
PDS: Rev :A

STATUS:Released

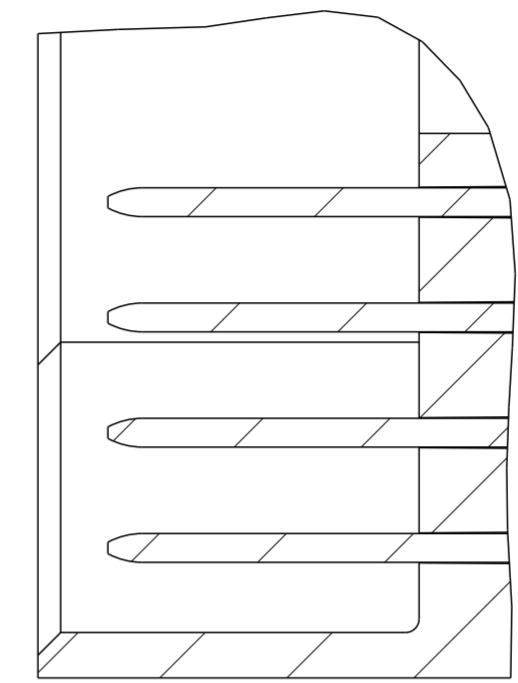
Printed: Aug 13, 2012



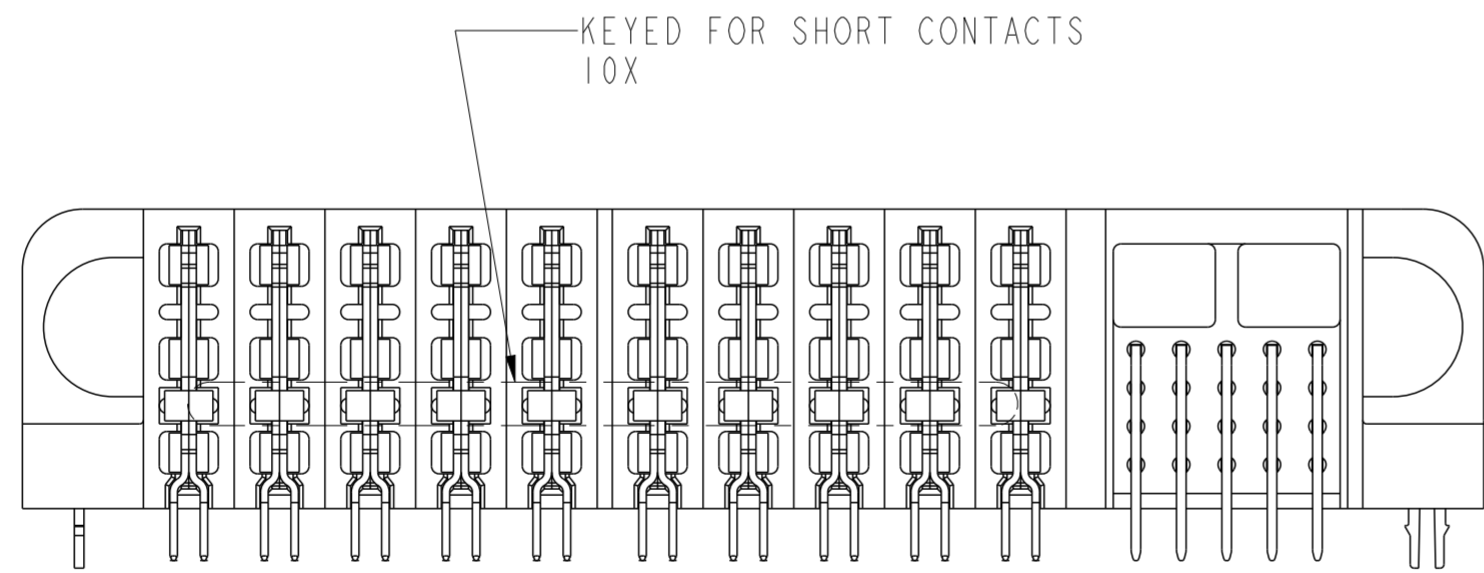
Copyright FCI.



DETAIL A
SCALE 4:1



SECTION W-W
SCALE 6:1
SIGNAL MATING
SEQUENCE

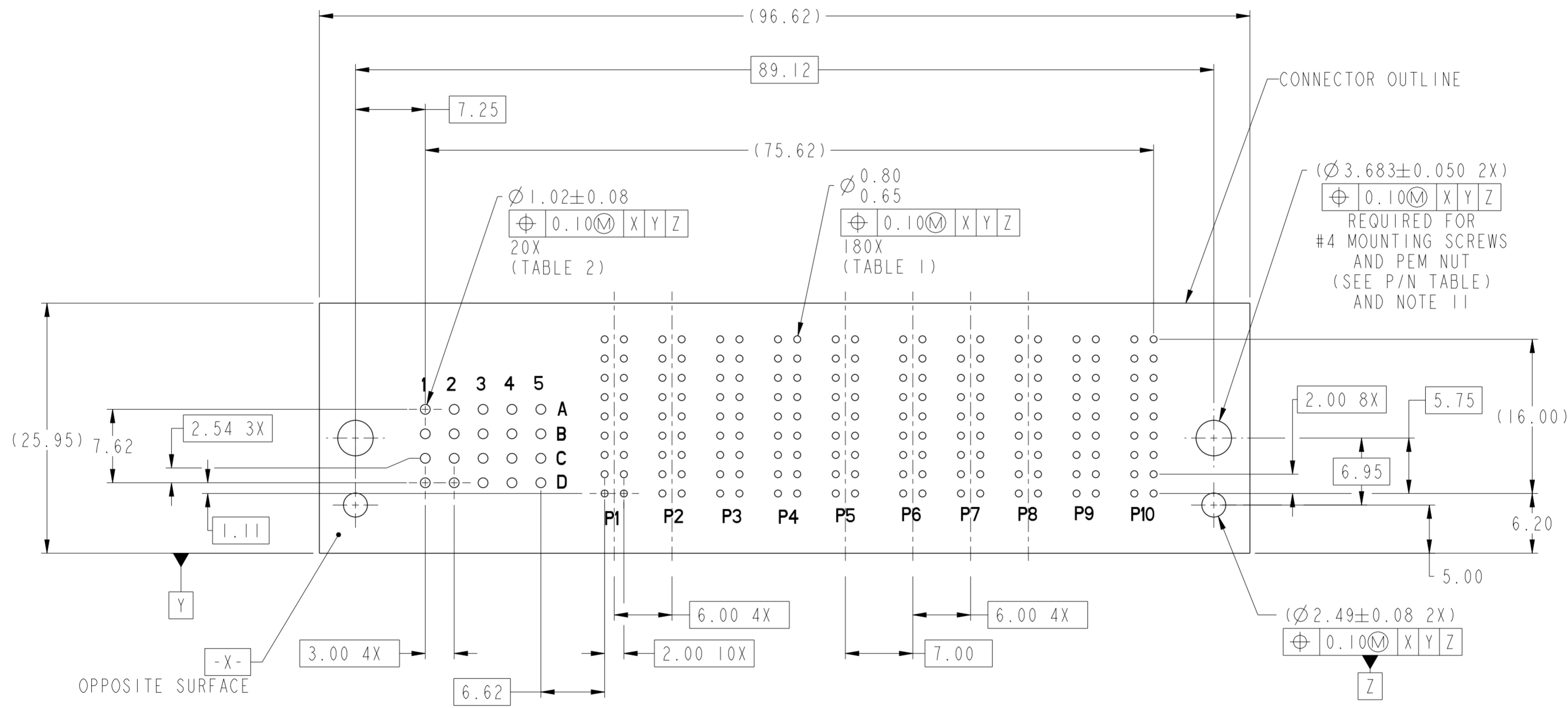


VIEW G-G

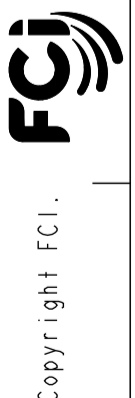


Copyright FCI.

spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	3:1												
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Helen Zhang	2012/08/10			ecn no	-	rel level													
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	Released	cat. no.	R/A HEADER ASSY 20S10DC	10121594
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	0.XX	±0.25																				
	0.XXX	±0.100																				
angular	0°	±2°																				
		appr	Pei-Ming Zheng	2012/08/13			Product - Customer Drw		sheet 2 of 5													



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 6



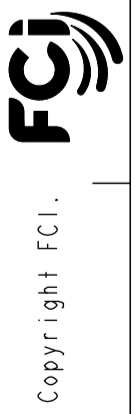
spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	3:1											
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Helen Zhang	2012/08/10			ecn no	-	rel level	Released											
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angular	0°	$\pm 2^\circ$																			
appr	Pei-Ming Zheng	2012/08/13			title R/A HEADER ASSY 20S10DC HCI POWER CONNECTOR	dwg no 10121594	rev A														

A
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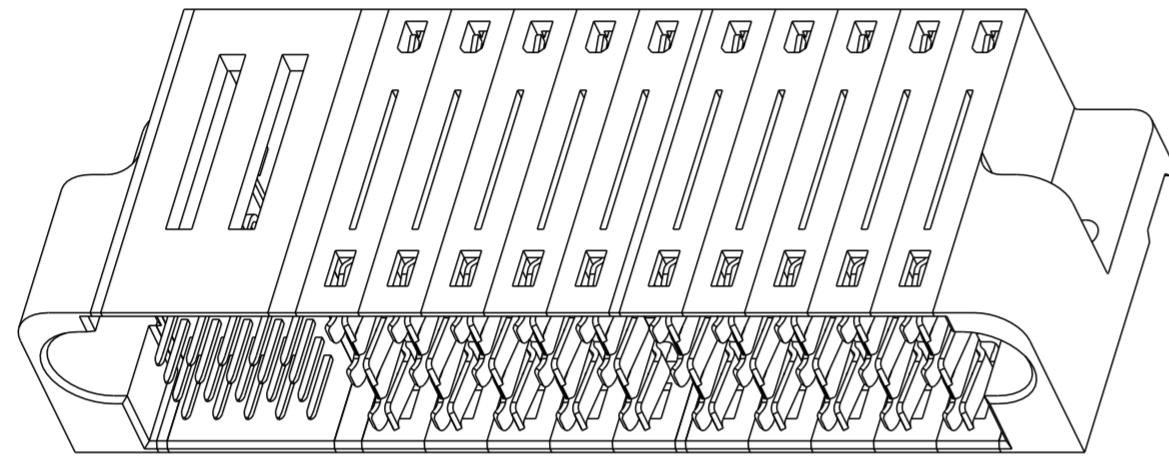
TOP LAYER DESCRIPTION	TABLE 1 (HCI POWER) PLATED THROUGH-HOLE REQUIREMENTS							
	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	NICKEL THICKNESS	GOLD THICKNESS	TIN THICKNESS	SILVER THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	0.81-0.86 (0.85 DRILL)	0.025 - 0.050	0.005 - 0.015	--	--	--	--	0.65 - 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
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			
	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	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	3:1									
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Helen Zhang	2012/08/10			ecn no	-	rel level										
chr	-	chr	-	product family			Released												
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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°	www.fci.com		Product - Customer Drw		sheet 4 of 5	
linear	0.X	±0.5																	
	0.XX	±0.25																	
	0.XXX	±0.100																	
angular	0°	±2°																	

PART NUMBER	RETENTION CLIPS	#4 SCREW	DIM A (TAIL LENGTH)	TAIL TYPE
10121594-001LF	NO	YES	3.43	SOLDER TAIL
10121594-002LF	NO	YES	4.70	SOLDER TAIL
10121594-003LF	YES	NO	3.43	SOLDER TAIL
10121594-004LF	YES	NO	4.70	SOLDER TAIL



NOTES:

- CONNECTOR MATERIALS:
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK
UL 94V-0 COMPLIANT
CONTACTS: HIGH PERFORMANCE COPPER ALLOY
- CONTACT FINISH (ref GS-12-380 SECTION 5.2)
- PRODUCT SPECIFICATION: GS-12-380.
- APPLICATION SPECIFICATION: GS-20-070.
- "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.
- MINIMUM NOMINAL PCB THICKNESS: 1.6mm
- PACKAGING MEETS FCI SPECIFICATION GS-14-1073.
- HOUSING COMPONENT WILL WITHSTAND EXPOSURE TO 260°C
PEAK TEMPERATURE FOR 60 SECONDS IN A CONVECTION, INFRA-RED,
OR VAPOR PHASE REFLOW OVEN.
- COPPER PLATING THICKNESS IN CENTER OF VIA-HOLE CAN BE
NO MORE THAN 0.003 LESS THAN OTHER AREAS.
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED.

spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	3:1																		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Helen Zhang	2012/08/10			ecn no	-	rel level		Released																	
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