

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	-					
-		-	-	-	TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	-	app	Pei-Ming Zheng	2012/08/13	product family	rel level	Released			
-		-	-	-	surface	✓	linear		0.X	±0.5	FCI		R/A HEADER ASSY 20S10DC		dwg no	10121594	rev	A
-		-	-	-			0.XX	±0.25	www.fci.com		cat. no.		Product - Customer Drw					
-		-	-	-			angular		0°	±2°	PDS: Rev :A		STATUS:Released		Printed: Aug 13, 2012			
-		-	-	-														

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1 2 3 4 5 6 7 8

A

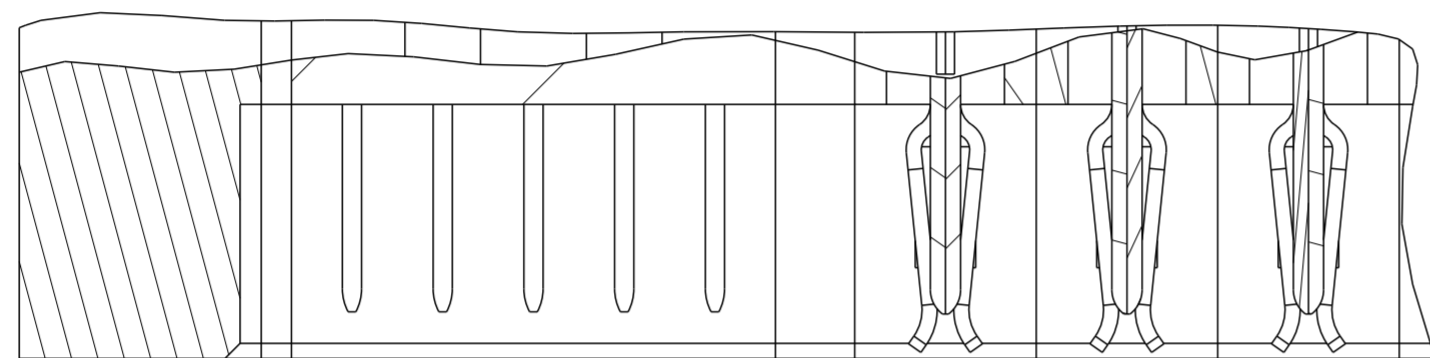
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C

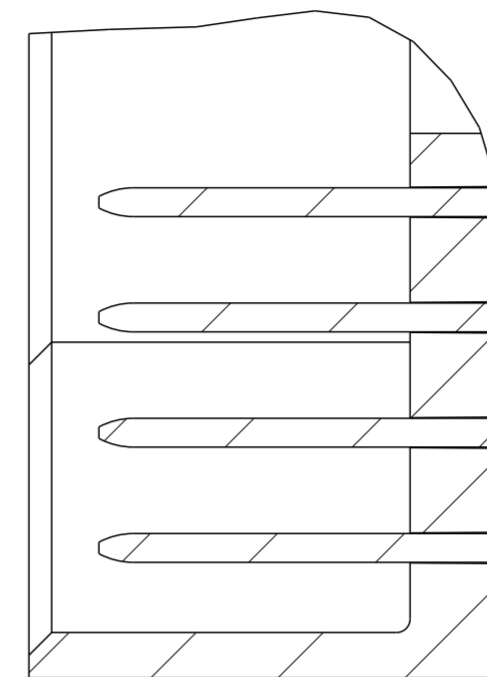
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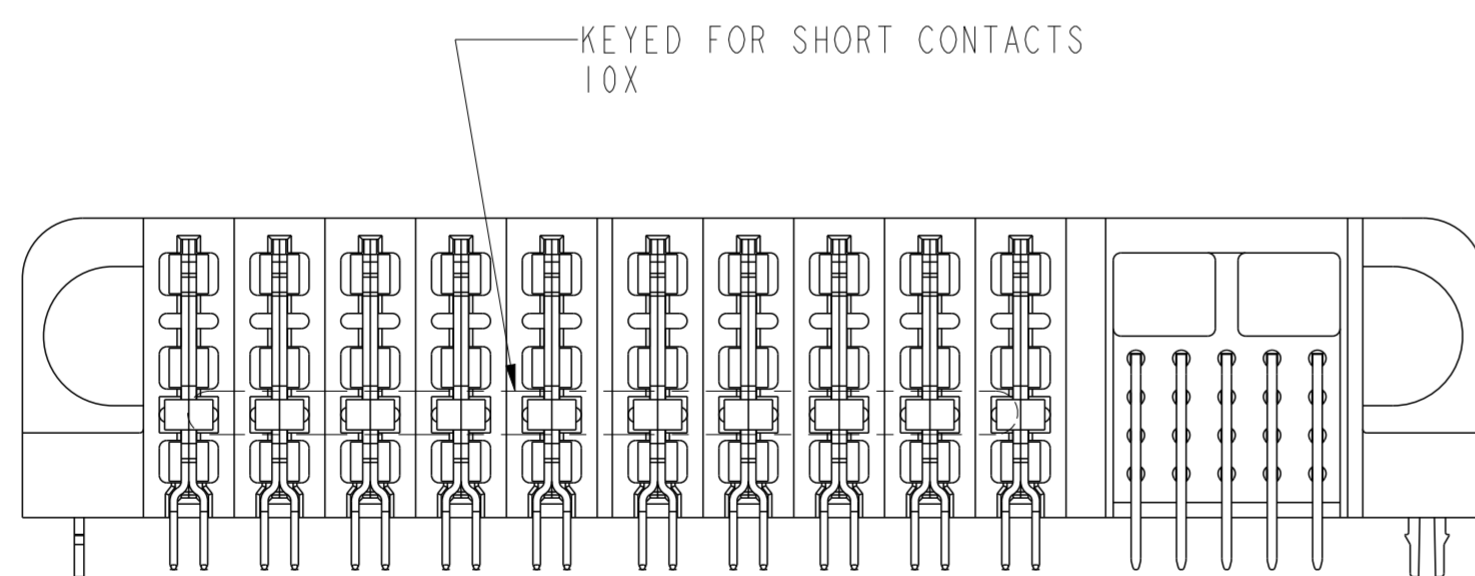
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DETAIL A  
SCALE 4:1



SECTION W-W  
SCALE 6:1  
SIGNAL MATING  
SEQUENCE

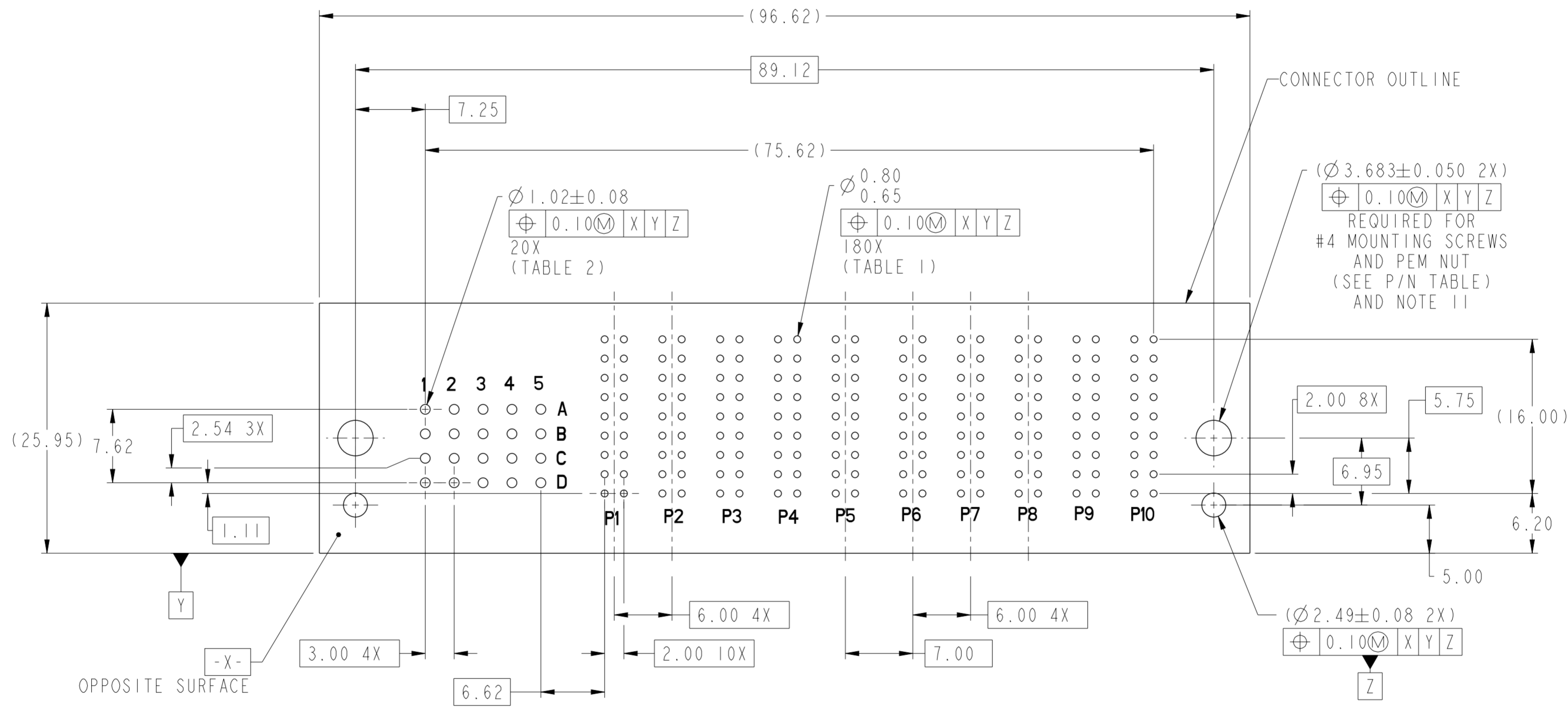


VIEW G-G

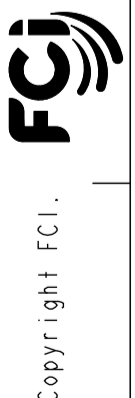


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surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±0.5</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±0.25</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±0.100</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±2°</td> </tr> </table>	linear	0.X	±0.5				0.XX	±0.25		0.XXX	±0.100	angular	0°	±2°	chr	-	product family	rel level	<table border="1"> <tr> <td>cat. no.</td> <td>R/A HEADER ASSY 20S10DC</td> <td>rev</td> <td>A</td> </tr> <tr> <td>www.fci.com</td> <td>HCI POWER CONNECTOR</td> <td>10121594</td> <td></td> </tr> </table>		cat. no.	R/A HEADER ASSY 20S10DC	rev	A	www.fci.com	HCI POWER CONNECTOR	10121594
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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									
surface	<table border="1"> <tr> <td>linear</td> <td>0.X</td> <td><math>\pm 0.5</math></td> </tr> <tr> <td></td> <td>0.XX</td> <td><math>\pm 0.25</math></td> </tr> <tr> <td></td> <td>0.XXX</td> <td><math>\pm 0.100</math></td> </tr> <tr> <td>angular</td> <td>0°</td> <td><math>\pm 2^\circ</math></td> </tr> </table>	linear	0.X	$\pm 0.5$								0.XX	$\pm 0.25$		0.XXX	$\pm 0.100$	angular	0°	$\pm 2^\circ$
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A  
B  
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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
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

TABLE 2 (HPC SIGNALS)  
PLATED THROUGH-HOLE REQUIREMENTS

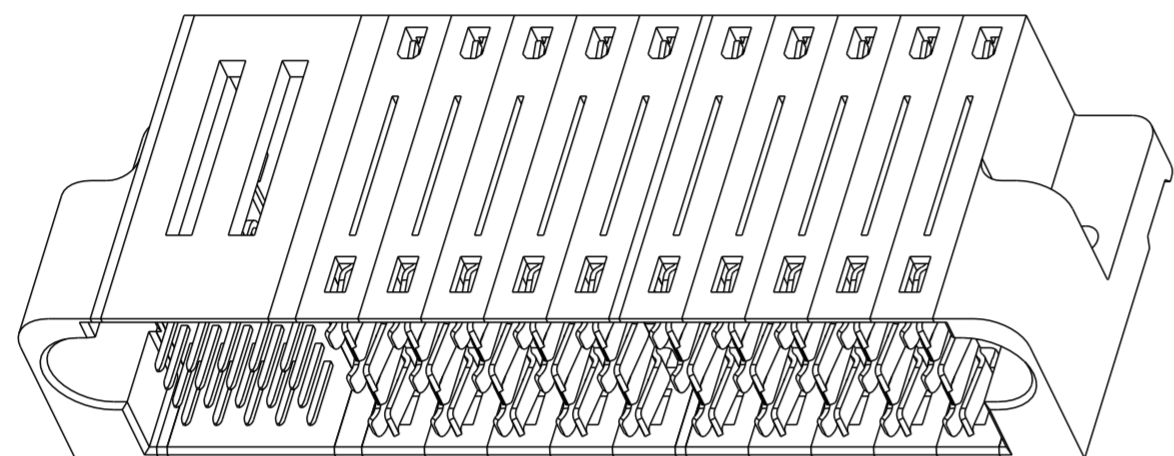
TOP LAYER DESCRIPTION	DRILLED HOLE DIAMETER	COPPER THICKNESS	TIN-LEAD THICKNESS	FINISHED HOLE DIAMETER
TIN-LEAD	1.125-1.175 ( $\varnothing .0453 \pm .0010$ )	0.025-0.050	0.005-0.015	0.94 - 1.10 ( $\varnothing .040 \pm .003$ )



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spec ref	*	dr	Helen Zhang	2012/06/26	projection	MM	size	A2	scale	3:1																
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rev	A	Product - Customer Drw	sheet 4 of 5																							

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																	
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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)