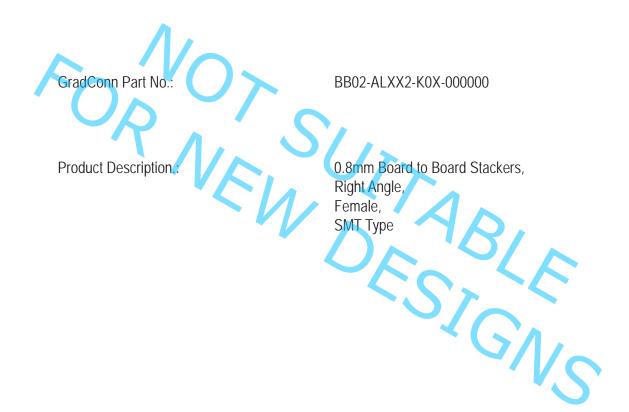


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# PRODUCT SPECIFICATION





# **PRODUCT SPECIFICATION**

## 1.Scope

## This specification covers the 0.8mm Board To Board Female Plug Right Angle

## 2.Product name and part number

Product Name	Part Number
0.8mm Board To Board Plug Right Angle Female Plug	BB02-AK, BB02-AL

## 3.Material/Finish

Name	Material	Finish	Color
Plastic	Nylon 46 (UL94V-0)		
Terminal	Phosphor Bronze	Gold Plated	
Shell			

# \*Refer to the drawing.

## 4.Rating

Item		Standard				
		Standard				
Rated Voltage (MAX.)	100 V	AC/DC				
Rated Current (MAX.)	0.5 A	AC/DC				
Ambient Temperature	-40℃~+105℃	,				
Range		17.				

# \*1: Including terminal temperature rise.

## 5. Performance

## **5-1. Electrical Performance**

	•	temperature rise.	
5. Perfor 5-1.Electri	rmance cal Performa	nce	
	ltem	Test Condition	Requirement
5-1-1	Contact Resistance	Mate connectors the 0.8mm Board To Board Plug Right Angle 4.70mm Height and measure by dry circuit, 20mV MAX.10mA. (JIS C5402 5.4)	
5-1-2	Insulation Resistance	Mate connectors the 0.8mm Board To Board Plug Right Angle 4.70mm Height and apply 500V DC between adjacent terminal or ground. (JIS C5402 5.2/MIL-STD-202 Method 302)	
5-1-3	Dielectric Strength	Mate connectors the 0.8mm Board To Board Plug Right Angle 4.70mm Height and apply 500V AC (rms) for 1 minute between adjacent terminal or ground. (JIS C5402 5.1/MIL-STD-202 Method 301)	No Breakdown

# **5-2 Mechanical Performance**

ltem		Test Condition	Requirement	
5-2-1	Insertion and	Insert and withdraw connectors at the	Insertion	
5-2-1	Withdrawal	speed rate of 25±3mm/minute.	Force	Kgf/Pin(Max)

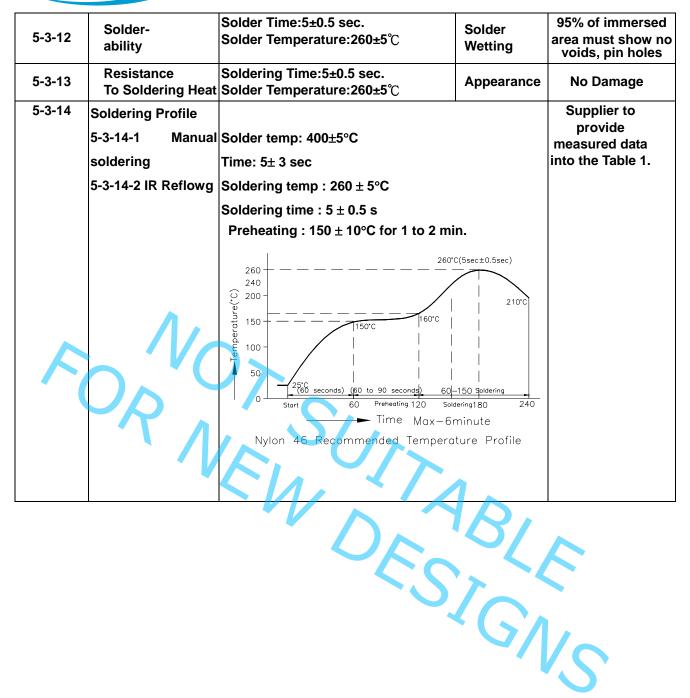


	Force		Withdrawal Force	kgf/Pin(Min)	
5-2-2	Terminal	Apply axial pull out force at the speed rate	kgf MIN		
J-2-2	5-2-2 Retention Force 25±3mm per minute.				

# 5-3. Environmental Performance and Others

Item	T	Test Condition	Requi	rement
5-3-1	RepeatedWhen mated up to 30 cyclesInsertion andrepeatedly by the rate of 10 cycleWithdrawalper minute.		Contact Resistance	40 mΩ MAX
5-3-2	Temperature Rise	Carrying rated current load. (UL 498)	Temperature rise	30 ℃ MAX
		Amplitude:1.5mm P-P	Appearance	No Damage
5-3-3	Vibration	Sweep time:10-55-10 Hz In 1 minute Duration: 2 hours in each of	Contact Resistance	40 mΩ MAX
	V	X.Y .Z .axes (MIL-STD-202 Method 201)	Discontinuity	1µsec. MAX
		490m/S <sup>2</sup> (50G),3 strokes in each X, Y,	Appearance	No Damage
5-3-4	Shock	Z axes. (JIS C0041/MIL-STD-202 Method 213)	Contact Resistance	40 mΩ MAX
			Discontinuity	1µsec. MAX.
		105±2℃ 96 hours	Appearance	No Damage
5-3-5	Heat Resistance	(JIS C0021/MIL-STD-202 Method 108)	Contact Resistance	40 mΩ MAX
	Cold	-40±3℃ 96 hours	Appearance	No Damage
5-3-6	Resistance	(JIS C0020)	Contact Resistance	40 mΩ MAX
		Temperature: 60±2℃ Relative Humidity:90~95% Duration: 96hours	Appearance	No Damage
			Contact Resistance	40 mΩ MAX
5-3-7	Humidity	(JIS C0022/MIL-STD-202 Method	Dielectric Strength	Must meet 4-1-3
		103)	Insulation Resistance	100MΩ MIN
	<b>-</b> ,	5 cycles of:	Appearance	No Damage
5-3-8	Temperature Cycling	a)-55℃ 30 minutes b)+105℃ 30 minutes (JIS C0025)	Contact Resistance	40 mΩ MAX
		12±4 hours exposure to a salt	Appearance	No Damage
5-3-9	Salt Spray	spray from the 5±1% solution at 35±2℃ (JIS C0023/MIL-STD-202 Method 101)	Contact Resistance	40 mΩ MAX
		24 hours exposure to 50±5ppm.	Appearance	No Damage
5-3-10	SO₂ Gas	SO₂ gas at 40±2℃	Contact Resistance	40 mΩ MAX
		40 minutes exposure to NH <sub>3</sub> gas	Appearance	No Damage
5-3-11	NH₃ Gas	evaporating from 28% Ammonia solution	Contact Resistance	40 mΩ MAX







# Datasheet TE250F6 - 00001

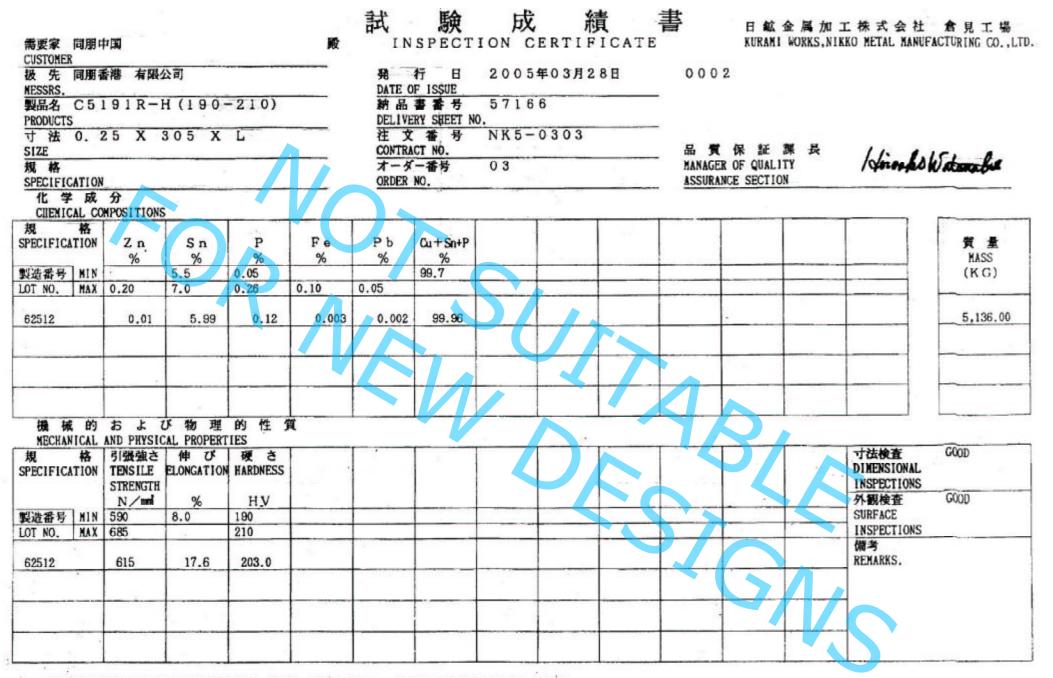
30% GF reinforced, flame retardant, heat stabilized, grade with good strength and toughness for E/E applications

Typical properties	Unit	ISO/IEC	DIN	Grade TE250F6
General properties				
Density	g/cm³	ISO 1183	53479	1,68
Melting temperature	°C	ISO 3146		295
Temperature properties				
HDT-A (1.8 MPa)	°C	ISO 75-1	53461	290
Peak temperature (1min.)	°C	UL 746B		-
Continuous use temperature	°C	IEC 60216		
- 5000 hrs				163
Coeff. linear thermal expansion	E-4/K	DIN 53752		
- // (23-55°C)				0,2
_ (23-55°C)				0,8
Electrical properties				
RTI electrical	°C,mm	UL 746B		140 (0.75)
Insulation class	- class(mm)	UL 1446 UL 94		H V-0 (0.35)
Flammability (at thickness) Comparative tracking index (CTI)	PLC	IEC 60112		v-0 (0.55) 2
				2
Electric strength - dry (23°C)	kV/mm	IEC 60243-1		30
- con (23°C/50%RH)		1 A		20
Volume resistivity	Ohm.cm	IEC 60093		20
- dry (23°C)	Onini.cin	IEC 00093		1E+15
- con (23°C/50%RH)		$\sim$		1E+10
Mechanical properties				
Izod impact strength (notched)	kJ/m²	ISO 180-1A		
- dry (23°C)				10
- con (23°C/50%RH)		<pre>~ (</pre>	51.	11
Tensile strength	MPa	ISO 527-1	53455	
- dry (23°C)			00400	180
- con (23°C/50%RH)				125
Tensile Modulus	MPa	ISO 527-1	53457	
- dry (23°C)				12500
- con (23°C/50%RH)				8000
Strain at break	%	ISO 527-1	53455	
- dry (23°C)				2,5
- con (23°C/50%RH)				3,5
Dimensional properties				
Moulding shrinkage	%	DSM		
- //				0,4
_				1,1
Humidity absorption (equi. 23°C/50%RH)	%	ISO 62		1,6

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测试报告

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以下测试之样晶是由申请者所提供及确认:高精度磷铜 C5191 客户参考信息: 高精度磷铜 C5191



Signed for and on behalf of SGS-CSTC Ltd.

Huang Fang, Sunny

Sr. Engineer

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# 测试报告

编号:GZ0709142822/CHEM

测试结果(单位: 毫克/千克):

测试项目	参考方法	No.1	MDL	RoHS 限值
뗾 (Cd)	(1)	N.D.	2	100
衍 (Pb)	(2)	18	2	1000
汞 (Hg)	(3)	N.D.	2	1000
沸水萃取法测六价铬(Cr VI)	(4)	Negative	参见 注释 <b>4</b>	#

#### 测试部件描述: No.1 铜色金属片

注释:1. 毫克/千克 = ppm 2. N.D.= 未检告 (< MDL)

- 3. MDL = 方法检测限
- 4. 点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;

(如果点测试结果不能确认,测试样晶将进一步由沸水萃取法进行测试)

沸水萃取法:

Negative = 未检测到六价铬 Positive = 检测到六价铬;每50cm<sup>2</sup>表面积的被测试样品的沸水萃取液中六价格的浓度等于或大于

### 0.02ma/ka

- 5. # Positive = 阳性,表示结果与 RoHS 要求相抵触 Negative = 阴性,表示结果与 RoHS 要求不相抵触
- 6. 本测试报告内容是参照报告编号为 GZ0709142821/CHEM 的中文译 英文版本如有歧异, 概以英文版为准。

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16 Au/Ni/P-Bronze			(U")02/03	STD	d Coll.	2 Abs.	1
			THICKNE	SS MEASU	REMENT		
MEAN TOP COAT (Au=Gold)	=	3.06u"					
STD, DEVIATION	=	0.543u"					
NO. LF HEAS.	=	10					
MEAN INT COAT (Nickel)	=	50.50u"					
STD, DEVIATION	=	2.118u"					
NO. LF HEAS.	=	10					
						Au	Ni
T meas	=	10 s	N=	1	THICKNESS		
LOCATE SPECIMEN	"	0 "	N=	2	THICKNESS		
TO MEASURE PRESS	" G	0 "	N= N=	3	THICKNESS THICKNESS		
				4			
Xt1= 2	Xt2=	=	N=	5	THICKNESS		50.15u" 06/10/14
		アドリ	SU V	T Es	181 IG	E Vs	

# SGS

# **Test Report**

No. CANEC0800111003 Date: 16 Jan 2008

Page 1 of 3

SHENZHEN HONGJUN HARDWARE CO., LTD. NO.3, DALANG INDUSTRY AREA, HONGXING VILLAGE SONGGANG TOWN, BAO'AN DISTRICT, SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : AU PLATING

SGS Job No. : SGS Internal Reference No. : Date of Sample Received : Testing Period : 10787280 - SZ 4.3 11 Jan 2008 11 Jan 2008 - 16 Jan 2008

Test Requested

Test Method

To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

With reference to IEC 62321 Ed.1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

1) Determination of Cadmium by ICP.

Determination of Lead by ICP.

- Determination of Mercury by ICP.
- (2) Determination of Hexavalent Chromium by Colorimetric Method.

**Test Results** 

Please refer to next page(s)

Signed for and on behalf of SGS-CSTC Ltd.

Huang Fang, Sunny Sr. Engineer

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# Test Report

Date: 16 Jan 2008 No. CANEC0800111003

Page 2 of 3

Test results by chemical method (Unit : mg/kg)

Test Item(s)	Method (Refer to)	<u>No.1</u>	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(1)	22	2
Mercury (Hg)	(1)	N.D.	2
Hexavalent Chromium (CrVI) by boiling water extraction	(2)	Negative	See Note 4

## Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

## 4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating; (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

- Boiling-water-extraction:
- Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is area. equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

## **Test Part Description**

Golden/silvery plated metal No. 1

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Test Report

No. CANEC0800111003 Date: 16 Jan 2008 Page 3 of 3

Sample photo:



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