

Customer:

DONG GUAN XINLONG SCIENCE & TECHNOLOGY CO., LTD 東莞新龍科技有限公司

√O: 5290

SPECIFICATION 承認書

Deserij	otien: PJ PHONI	EJACK	
Part No	o: PJ-3518-L	6G	
Custon	ner'S Part No:		
Revisio	on:		
APPROVED BY	CHECKED BY	REVIEWED BY	PREPARED BY
周威			
1-312			
CUSTOMER APP	ROVED:		
		H. D. D. → H. □	

地址: 中国广东省东莞市塘厦镇莆心湖浦龙工业区

ADD: Pu Long Industrial Estate, PuXinHu ,TangXia Town ,DongGuan City, GuangDong Province China

TEL:86-769-87819555 87811966 FAX:86-769-87813682

RIPT	TION	DATE	F 12 F		
_	DEL NO 518-L6G	日期: 2014年8	月 12 日	-	
RAT	NG (额定值):	DC 30V 0.5A			
PRA	CTICAL	-16∼65° C			
TEM RAN	IPERATURE	在-16° C~+65° C 温度内使用			
	-				
使用温度范围 UNLESS OTHERWISE SPECIFIED THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) BETWEEN BODY AND CONDUCTOR: 5°C TO 35℃ (2) BETWEEN CONDUCTORS NOT TO BE CONTACT: 45% TO 85% (3) PRESSURE: 86Kpa TO 106Kpa 在没有指定的情况下测试温度、湿度、气压如下: (1) 温度为 5℃~35℃ (2) 湿度为 45%~85%					
MEC	HANICAL(机械作	(3) 气压为 86 Kpa~106Kpa 生能)			
	ITEM 项目	TEST CONDITIONS 测试条件		PERFORMANCE 规格	
1	CONNECTION FORCE 插入力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES。			
	DISCONNECTI ON FORCE 拔出力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING DISCONNECTING USING STANDARD PLUG GAUGE 3 TIN 依据标准的 PLUG GAUGE 做第 3 次拔插后测定	3~30N		
2	TERMINAL STRENGTH 端子强度	THERE SHALL BE NO DAN TO THE TERMINAL SUCH CRACKS, LOOSENESS OR ELECTRICAL, AND MECHANI IN ANY DIRECTION CHARACTERISTICS SHALL SATISFIED 在排脚中没有裂开、松动等异常,于机械、电气性能			
ELE	CTRICAL(电气性	能)			
	ITEM 项目	TEST CONDITIONS 测试条件		PERFORMANCE 规格	
3.1	CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT (100m A OR LESS) 1000Hz 在微小电流(100 m A)以下测试		≤0.03 Ω	
3.2	INSULATION RESISTANCE 绝缘电阻	APPLY A VOLTAGE OF 500V DC FOR 1 MIN TO FOLLOWING PORTIONS AFTER WHICE MEASUREMENT SHALL BE MADE: (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACT (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUGINSERTED DC 500V 1 MIN 输入 500V DC 电压 1 分钟,按以下接触方法测试: (1) 插座体与排脚之间 (2) 不接触的排脚之间 (3) 插头插入时不接触排脚之间		≥100M Ω	

PJ-3518-L6G

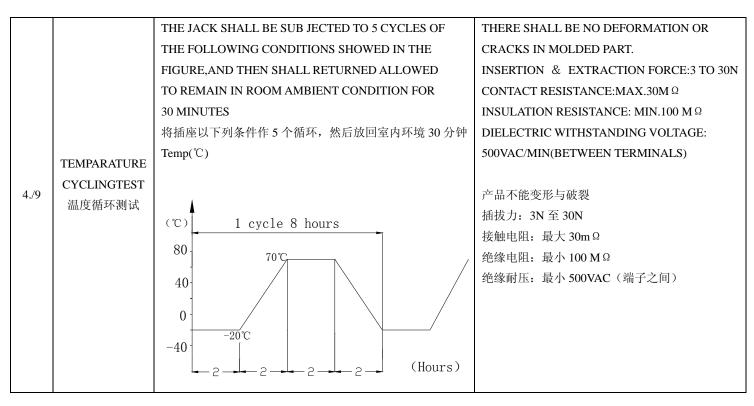
	1		T
3.3	DIELECTRIC STRENGTH 耐电压	AC 500V ims(50~60Hz)FOR 1 MIN TRIP CURRENT:0.5mA (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACL (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN 输入 AC 500V(50Hz)/min 电压 1 分钟感度电流为 0.5mA, 按以下接触方法测试: (1) 插座体与排脚之间 (2) 不接触的排脚之间 (3) 插头插入时不接触排脚之间	WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC 没有绝缘破坏等异常
URAB	ILITY (耐久性)		
	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
4. 1	SOLDERA- BILITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF 240±5℃ FOR 3±0.5 SECONDS 端子顶部被浸入锡池中 1mm 深,温度为 240±5℃,时间为 3±0.5 秒	(1) SOLDER WETTING TIME SHALL BE 3 SEC OR LESS 焊接时间应少于 3 秒 (2) THE AREA OF SOLDERING SHOULD BE OVER 95% 焊接面积应有 95%以上
4.2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	REFLOW SOLDERING CONDITIONS: PREHEAT:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH 180℃.120S AFTER THE P.C.B ENTERED INTO THE SOLDERING EQUIPMENT. TALLEST TEMPERATURE:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH THE PEAK TEMPERATURE OF 260±5℃WITH IN 20 SECONDS. 过回流焊条件: 预热:电镀层表面的温度应达到 180℃,120s 后电路板进入回流焊设备。 最高温度:电镀层表面温度最高为 260±5℃且停留不超过 20 秒。	WITHOUT DEFOR MATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 本体无变形,满足于机械、电气性能

MODEL NO: PJ-3518-L6G

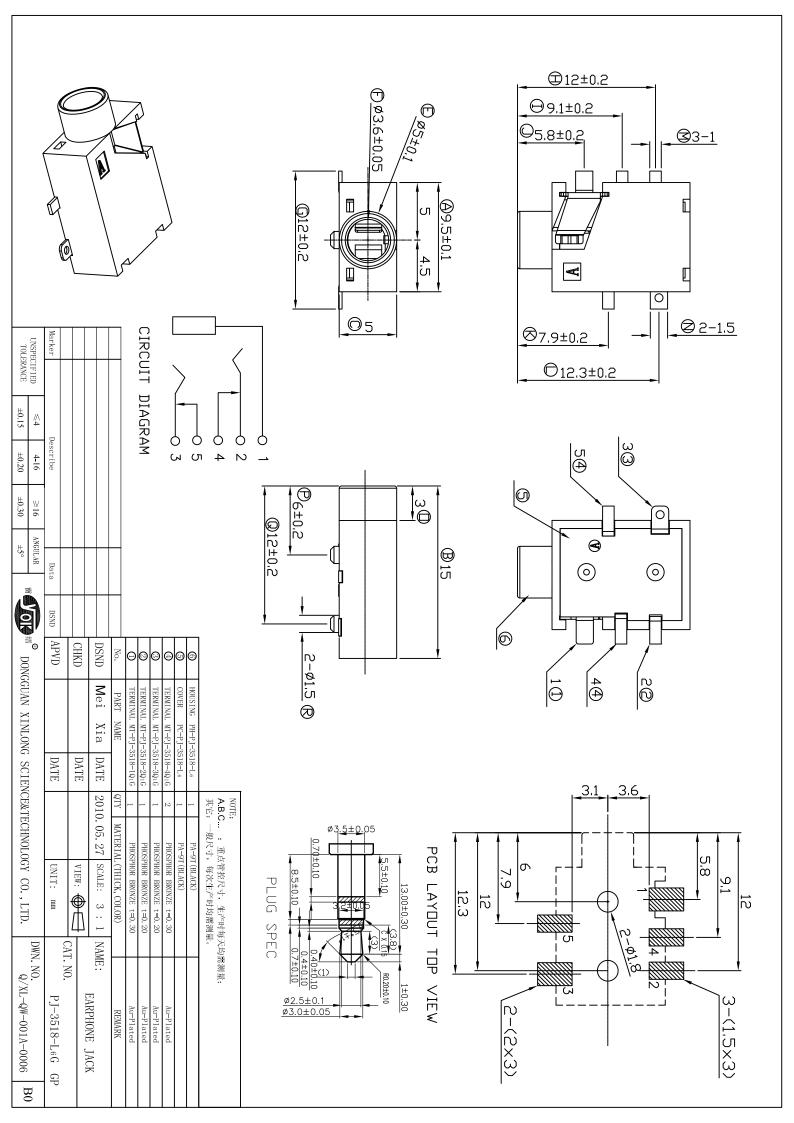
4. 3	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	SOLDERING IRON METHOD: BIT TEMPERATURE 330±5℃ APPLICATION TIME OF SOLDERING IRON3±0.5 SEC HOWEVER EXCESSIVE PRESSURE SHALL NOT BE APPLIED TO THE TERMINAL 手焊接的时候温度需控制在 330±5℃ ,时间 为 3±0.5 秒,但不能在排脚上施加异常压力。	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 本体无变形,满足于机械、电气性能
4. 4	HUMIDITY TEST 潮湿试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF 40±2℃ AND A HUMIDITY OF 90% TO 96% FOR 96 Hr,THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES 放置 40±2℃ 的相应湿度为 90~96% Hr 环境中 96 小时后, 再将样板放在正常环境中 1 小时后进行测试	THERE SHALL BE NO DAMAGE ON APPEARANCE。 MECHANICAL AND ELECTRICAL
4.5	HEAT TEST 耐热试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF70±2℃ FOR 96 HOURS, AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM 放置在温度 70±2℃中测试 96 小时后,再放置正常室温中 1 小时来测定	CHARACTERISTICS SHALL BE SATISFIED 外观无异常,满足于机械、电气性能。
4. 6	COLD TEST 耐寒试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF-25±3℃ FOR 96 HOURS AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH 放置在温度-25±3℃中 96 小时后,再放置常温常湿中 1 小时来测定	THERE SHALL BE NO DAMAGE ON APPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常,满足于机械、电气性能
4. 7	LIFE TEST 寿命试验	WITHOUT LOAD CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 5, 000 CYCLES AT A SPEED OF 10 TO 25 CYCLES/MIN 无负荷 将结合了的标准 Plug(尽量要近于中心的)在 1 分钟内以 10~25 的速度,进行 5,000 次 插入,拔出 LOAD: AT RATING CONDITION (NON-INDUCTIVE LOAD) CONNECTION AND DISCONNECTION SHALL BE MADE 1,000 CYCLES AT A SPEED 10 TO 20 CYCLES / MIN 负荷 以定格状态(无诱导负荷)在 1 分钟内以 10~20 次的速度进行 1,000 次插入、拔出	(1) CONTACT RESISTANCE SHALL BE ≤ 0.1 \(\Omega\$ (2) DISCONNECTION FORCE SHALL BE 3 TO 30N (3) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED (1) 接触电阻≤0.1 \(\Omega\$ (2) 拔出力是 3~30N (3) 其它:满足于机械,、电气性能

MODEL NO: PJ-3518-L6G

ENVIRONMENTAL (环境性能)					
	ITEM 项目 TEST CONDITIONS 测试条件		PERFORMANCE 规格		
4.8	SALT MIST TEST 盐雾测试	1. TESTING BATH: THE TEMPERATURE SHALL 35℃±2℃ IN THE AMBIENT OF THE SPECIMEN DURING THE TEST。 2. SPRAY APPARAUS: THE APPARATUS SHALL CAPABLE OF PRODUCING FINE DENSE MIST UNIFORMLY。 3. SALT WATER: THE CONCENTRATION OF THE SALT WATER SHALL ADJUSTED AT 5±1% WEIGHT RATIO AT 35℃±2℃。 4. TESTING TIME 24±0.5HOURS。 AFTER WASHED IN WATER。 THE SAMPLE SHALL LEFT ALONE FOR1OR2HOURS IN A ROOM AMBIENT。 1. 测试容器: 在测试过程中,产品周围环境温度 35℃±2℃。 2. 喷雾设备: 盐雾要均匀喷出。 3. 盐水: 盐水要在 35℃±2℃温度条件下,调整在 5±1% 比例范围内。 4. 测试时间: 24±0.5 小时 清洗后,样品在室内要单独放置 1 至 2 个小时。	APPEARANCE SHALL NOT EXTREMELY RUST.ANDCOMTACTING PORTIONS SHOULD SUCH THAT THEY WILL WORK WITHOUT HINDRANCE FOR PRACTICAL USE。表面不能有严重的腐蚀,接触部分要不防碍正常使用。		



	COLD&HEAT	THE FORE	MAIN IN ROOM AMBIENT CONDI NUTES 以下列条件作 5 个循环,然后放回	ED IN THE FURNED AND TION FOR	CRACKS IN MOINSERTION & CONTACT RESINSULATION R	BE NO DEFORMATION OR OLDED PART. EXTRACTION FORCE:3 TO 30N ISTANCE:MAX.30M Ω RESISTANCE: MIN.100 M Ω VITHSTANDING VOLTAGE: ETWEEN TERMINALS)
5.0	SHOCK TEST 冷热冲击测试	70 -20	1 cycle 1 hour -0.5-0.5-0.5-0.	5 — (Hours)	产品不能变形与插拔力: 3N至接触电阻:最大绝缘电阻:最小绝缘耐压:最小	30N Ξ 30m Ω
	制表		校 对	审	核	· 备注:
				周	威	共6页





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SHENZHEN BAO SHIDA PLASTIC PRODUCTS CO.,LTD.

NO.3 JIANG BIAN INDUSTRY PARK CENTRE ROAD, SONGGANG TOWN, BAOAN DISTRICT, SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PA9T

SGS Job No. : CP14-000376 - SZ

Date of Sample Received: 07 Jan 2014

Testing Period: 07 Jan 2014 - 13 Jan 2014

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Yan Lee

Approved Signatory





No. CANEC1400258802

Date: 14 Jan 2014

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN14-002588.002 Black plastic grains

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND





Test Report	No. CANEC1400258802		Date: 1	4 Jan 2014	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Hexabromocyclododecane (HBCDD)

Test Method: Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method: Determination of phthalates by GC-MS based on EN 14372:2004.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Dibutyl Phthalate (DBP)	84-74-2	%(W/W)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(W/W)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(W/W)	0.003	ND





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Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.





No. CANEC1400258802

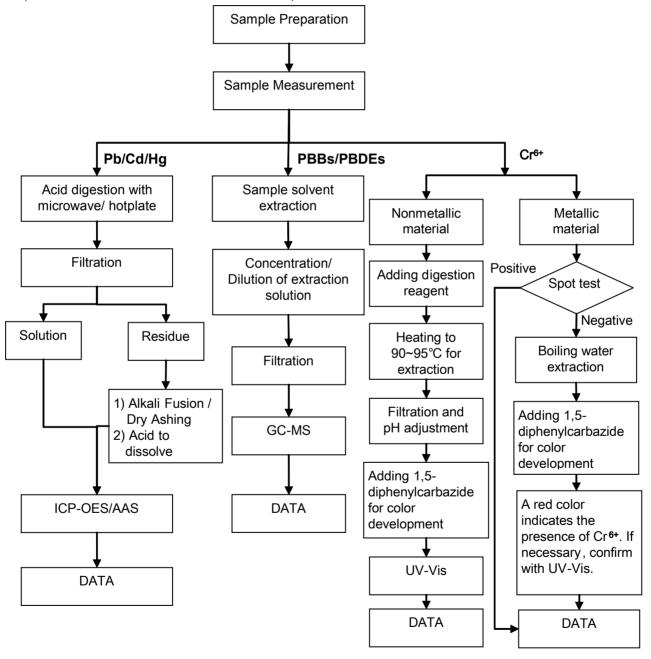
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Date: 14 Jan 2014

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).







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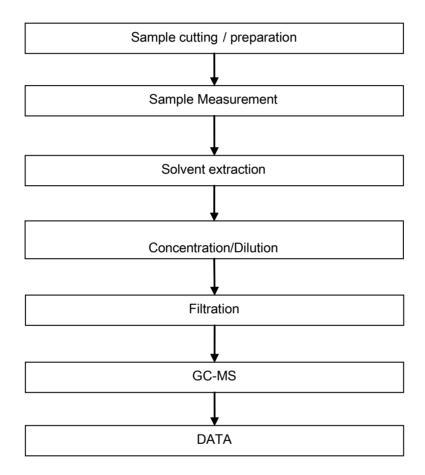
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Date: 14 Jan 2014

ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei







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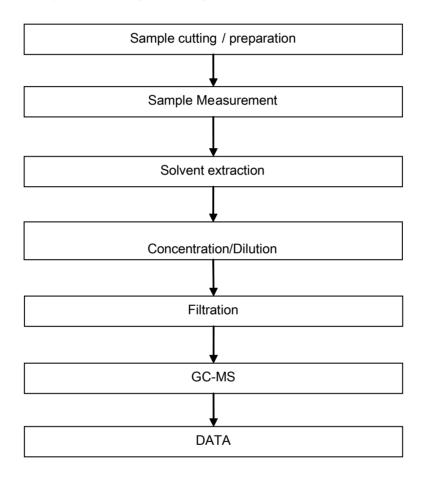
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Date: 14 Jan 2014

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Liu Qiong
- 2) Name of the person in charge of testing: Yolanda Wei





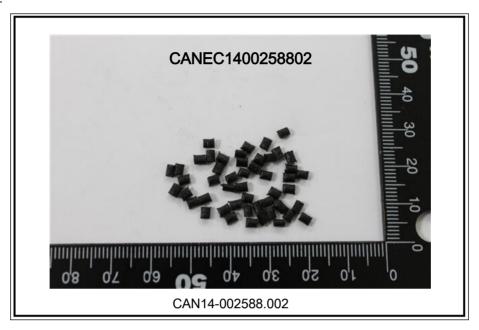


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Date: 14 Jan 2014

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***





测试报告 日期: 2014年07月03日 第1页,共4页 No. SHAEC1412283906

宁波兴业盛泰集团有限公司/宁波兴业鑫泰新型电子材料有限公司 浙江省蒸溪经济开发区杭州湾新区金溪路2-9号

以下测试之样品是由申请者所提供及确认:高锡磷青铜

SGS工作编号: SP14-020042 - SH

型号: C5210(QSn8.0-0.3) 5/3-111

成分: 铜基合金/Cu Sn P 样品接收日期: 2014年07月01日

测试周期: 2014年07月01日 - 2014年07月03日

测试要求: 根据客户要求测试 测试方法: 请参见下一页 测试结果: 请参见下一页

基于所送样品进行的测试,镉、铅、汞、六价铬的测试结果符合欧盟RoHS指 结论:

令2002/95/EC的重订指令2011/65/EU附录Ⅱ的限值要求.

通标标准技术服务有限公司 授权签名



Marry Ma马广媛 批准签署人

本报告是编号为SHAEC1412283905报告的中文版本.



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测试报告 No. SHAEC1412283906 日期: 2014年07月03日 第2页,共4页

测试结果:

测试样品描述:

描述 样品编号 SGS样品ID SHA14-122839.003 铜色金属 SN1

备注:

(1) 1 mg/kg = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU

测试方法: (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量

(2) 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量

(3) 参考IEC 62321-4:2013, 用ICP-OES测定汞的含量

(4) 参考IEC 62321:2008, 用点测试法/紫外-可见分光光度计比色法测定六价铬的含量

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>003</u>
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	14
汞 (Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	_	-	\Diamond	阴性

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◇点测试法:

阴性= 未检测到六价铬.阳性 = 检测到六价铬:

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬

阳性= 检测到六价铬; 表明50 cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02 mg/kg 由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态.



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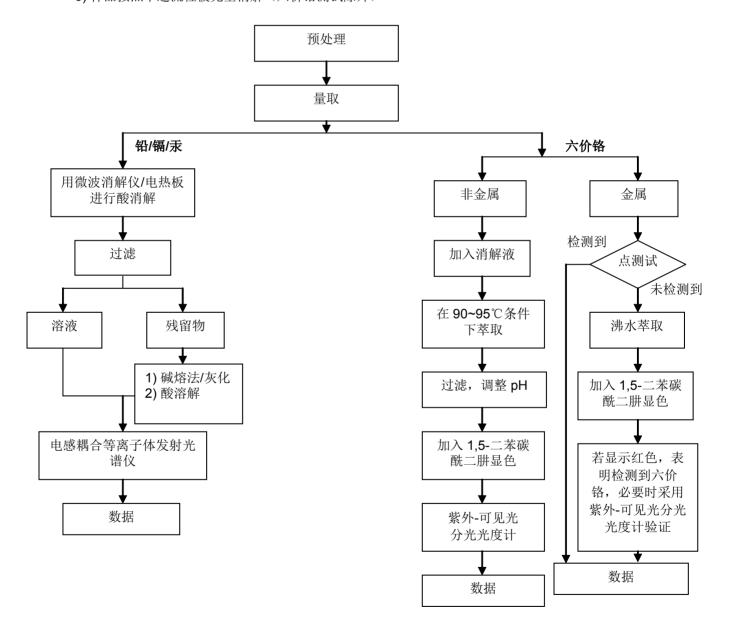
No. SHAEC1412283906

日期: 2014年07月03日 第3页,共4页

附件

RoHS 测试流程图

- 1) 分析人员: 施青/汪红新/王晓艳
- 2) 项目负责人: 张春华
- 3) 样品按照下述流程被完全消解(六价铬测试除外)





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样品照片:



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@ags.com

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No. CANEC1316336002

日期: 2013年10月28日 第1页,共4页

深圳市多鑫实业有限公司 深圳市宝安区松岗镇江边工业区

以下测试之样品是由申请者所提供及确认:金

SGS工作编号: CP13-054392 - GZ 样品接收日期: 2013年10月23日

测试周期: 2013年10月23日 - 2013年10月28日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 测试结果: 请参见下一页

结论: 基于所送样品进行的测试,镉、铅、汞、六价铬的测试结果符合欧盟RoHS指

令2002/95/EC的重订指令2011/65/EU附录II的限值要求。

通标标准技术服务有限公司 授权签名

名程凤

Merry Lv吕爱凤 批准签署人

备注: 根据客户申请, SGS出具了此中文报告, 英文版本可根据客户要求提供. (The Chinese test report is issued according to the applicant's request. The English version is available from SGS if further needed)

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测试报告 No. CANEC1316336002 日期: 2013年10月28日 第2页,共4页

测试结果:

测试样品描述:

样品编号 SGS样品ID 描述

1 CAN13-163360.002 带金色镀层的金属

备注:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU

测试方法: (1)参考IEC 62321-5:2013,用ICP-OES测定镉的含量

(2)参考IEC 62321-5:2013,用ICP-OES测定铅的含量 (3)参考IEC 62321-4:2013,用ICP-OES测定汞的含量

(4)参考IEC 62321:2008,用点测试法/紫外-可见分光光度计比色法测定六价铬的含量

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
镉 (Cd)	100	mg/kg	2	15
铅 (Pb)	1,000	mg/kg	2	89
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	-	-	\Diamond	阴性

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◇点测试法:

阴性= 未检测到六价铬, 阳性= 检测到六价铬;

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬

阳性= 检测到六价铬; 表明50 cm²表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于0.02 mg/kg

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

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No. CANEC1316336002

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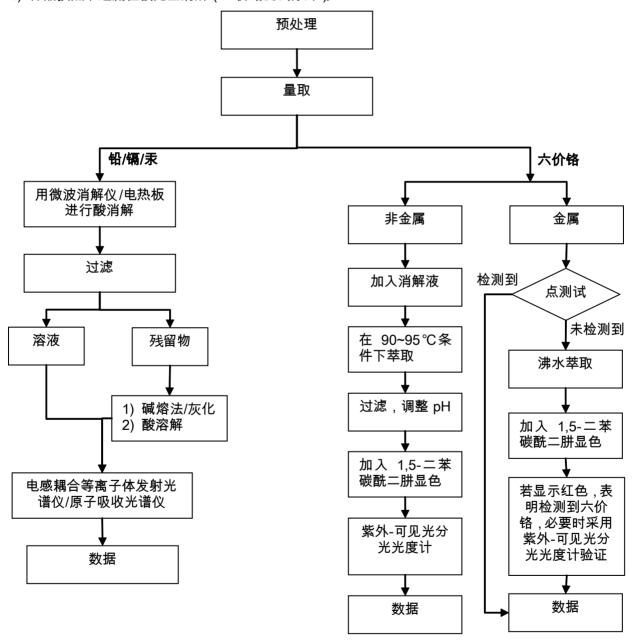
第3页,共4页

附件

RoHS 测试流程图

1) 分析人员:曹阳 2) 项目负责人:余奕东

3) 样品按照下述流程被完全消解(六价铬测试除外)。



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第4页,共4页

样品照片:



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