寶 號 CUSTOMER	IVENT	
HF OHS PLIANT SPEC	記 IFICATION FOR APPRO	書 VAL
品名 BSF PRODUCT NAME	F1004RHGS470MT	
客户料號 CUSTOMER PART NO. -	批號 SAMPL NO.	JE
日期 DATE. 2015/8/25		
Customer Approved	Status 客戶承認範圍	
FULLY APPROVED (全部承認)	PARTILLY APPROVED (部份承認)	REVISE APPROVED (修訂承認)
Drawn by	Checked by	Approved by
	E h 2	Varia Eh



KING CORE ELECTRONICS INC.

NO 269, Nanfong Rd., Pingjhen City, Taoyuan County Taiwan Tel: 886-3-4698855 Fax: 886-4691395 Website:http:// www.kingcore.com.tw E-mail: kc@mail.kingcore.com.tw

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製作 DRAWN BY: 陈雯 欣	確認 CHECKED BY: 美帕沃	承認 APPRO	DVED BY: 美炳鄭	

鈞寶電子工業股份有限公司 KING CORE ELECTRONICS INC

日期	版次	修言	丁目的	修訂內容	潮	備註
DATE	VERSION	PUI	RPOSE	REVISION DES	CRIPTION	REMARK
2015/8/25	А	首次送	漾			
		INITIAL	RELEASE			
製作 DRAWN	BY:	1	確認 CHEC	KED BY:	承認 APPROVED B	Y:
34	西西的			吴明珠	美力	雨動
12	T Z IK			,		

修訂履歷 REVISION RESUME

SPECIFICATION FOR APPROVAL

CUSTOMER: IVENT	CUST.P/N:
ORDERING CODE: BSF1004RHGS470MT	K.C.P/N:PM10N0AT
(1) SHAPE :	A 10.3 max. mm
A C	B 10.4 max. mm
	C 4.0 max. mm
	D 13.5 max. mm
	E 7.7±0.3 mm
	F 3.0±0.3 mm
D Land Pattern	
(2)ELECTRICAL REQUIREMENTS:	(3) TEST CONDITIONS:
L:47±20%uH(100KHz/1v)	1 L: HP4284A
RDC:0.128 Ω (max)	2. RDC:HIOKU 3540
Isat:2.1A(max)	3. IDC:HP4285A+HP42841A
Irms:1.9A(max)	4.WIRE:0.28 2UEWx21.5Ts(ref)
Inductance drop= 35% typ at Isat	
$\triangle T=40^{\circ}C$ rise at Irms	
(4)PACKING	(5) APPEARANCE
IN BULK VACUUM INSERTION	
PCS/BAGS* BAG/INNER BOX* BOXES/CARTON = PCS	
PCS/PLATE* PLATES/CARTON= PCS	
PCS/TRAY* TRAYS/CARTON= PCS	
1000 PCS/REEL *REELS/CARTON=PCS	
(6)REMARK:	Approved by 美炳整
	Checked by ^{美确详}
	Drawn by 陈雯
	DWG.NO. 20158001A

KING CORE ELECTRONICS INC.

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER		IVENT			CUST. P/N		
ORDERING CODE	BSF1	004RHGS4	70MT		K.C. P/N	PM10N0A	T
TEMP.	24 °C	RH	69	%	DWG.NO.	20158001A	1
WIRE		WINDING			O'TY	5PCS	
Test Instrument	.S						
Meas. Item.	<i>L</i> (<i>uH</i>)	$RDC(\Omega)$					
Specification	47±20%	0.128 max					
Test Freq.	100KHz/1v						
sample#1	43.88	0.114					
sample#2	44.58	0.115					
sample#3	44.47	0.115					
sample#4	44.86	0.115					
sample#5	45.30	0.115					
sample#6							
sample#7							
sample#8							
sample#9							
sample#10							
X	44.62	0.115					
R	1.42	0.001				1	
REMARK:				<u>.</u>		Approved by:	灸炳敷
						Checked by:	 吃明球
						Drawn by:	陈雯欣

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RELIABILITY TEST – BS / BSF SERIES

1-1 Mechanical Performance

No	Item	Specification	Test Method	
1-1-1	Vibration	Appearance: No damage	Test device shall be soldered on the substrate	
		L change: within±10%	Oscillation Frequency: 10 to 55 to 10Hz for 1min	
		Q change: within±30%	Amplitude: 1.5mm	
			Time: 2hrs for each axis (X, Y & Z), total 6hrs	
1-1-2	Resistance to Soldering	Appearance: No damage	Preheat:150°C,60 seconds	
	Heat		Solder:temperature:260±5℃	
			Flux: Rosin	
			Dip time:5±0.5 seconds	
			260°C Preheating Dipping Natural cooling 150°C 60 seconds 10±1 seconds	
1-1-3	Solderability	The electrodes shall be at least	Preheat:150°C,60 seconds	
		90% covered with new solder	Solder:temperature:245±5°C	
		coating	Flux: Rosin	
			Dip time:4±1 seconds	
			24 5°C 15 0°C 60 seconds 1 ± 1 seconds	

1-2 Environmental Performance

No	Item	Specification	Test Method				
1-2-1	Thermal Shock	Appearance: No damage	One	e cycle:			
		L change: within±10%		Step	Temperature (°C)	Time (min)	
		Q change: within±30%		1	-40±3	30	
				2	85±2	30	
			Tota	al: 100cyc	cles		
			Measured after exposure in the room condition for 24			24hrs	



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1-2-2	Humidity Resistance	Temperature: 40±2°C	
		Relative Humidity: 90 ~ 95%	
		Time: 1000hrs	
		Measured after exposure in the room condition for 24hrs	
1-2-3	High Temperature	Temperature: 85±3°C	
	Resistance	Time: 1000hrs	
		Measured after exposure in the room condition for 24hrs	
1-2-4	Low Temperature	Temperature: -25±3°C	
	Resistance	Relative Humidity: 0%	
		Time: 1000hrs	
		Measured after exposure in the room condition for 24hrs	

1-3 Recommended Reflow Soldering profile



Note

- 1. Operating Temperature Range:- 25° C to + 85° C
- 2. Storage Temperature Range:-40°C to +85°C (For products in unopened tape package 0°C to +40°C)



Page 1 of 7

申请单位 标旗磁电产品(佛冈)有限公司
 Applicant FLAG MAGNETIC PRODUCTS(FOGANG)CO.,LTD
 地 止 广东省清远市佛冈县龙山镇官路唇工业区
 Address GUANLUCHUN INDUSTRIAL ZONE, LONGSHAN FOGANG GUANGDONG

以下测试之样品及样品信息由申请者提供并确认 The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

样品名称	镍锌铁氧体磁材
Sample Name	NI-ZN Ferrite core
样品型号	FN121,FN301, FN381, FD501, FB251, FB301, FB401, FB451, FB501,
	FB651, FB701, FH301, FH361, FH401, FH501, FP122, FP161, FP192,
	FP202, FP212, FM600, FQ800, FQ401
Part No.	FN121,FN301, FN381, FD501, FB251, FB301, FB401, FB451, FB501,
	FB651, FB701, FH301, FH361, FH401, FH501, FP122, FP161, FP192,
	FP202, FP212, FM600, FQ800, FQ401
样品接收日期	2015.03.09
Sample Received Date	Mar. 9, 2015
样品检测日期	2015.03.09-2015.03.12
Testing Period	Mar. 9, 2015 to Mar. 12, 2015
检测要求	根据客户要求,对所提交样品中的铅(Pb),镉(Cd),汞(Hg),六价铬(Cr(VI)),
	多溴联苯(PBBs), 多溴二苯醚(PBDEs), 氟(F), 氯(Cl), 溴(Br), 碘(l)进行测
	试。
Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),
	Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs),
	Polybrominated Diphenyl Ethers(PBDEs), Fluorine(F), Chlorine(Cl),
	Bromine(Br), Iodine(I) in the submitted sample(s).

检测依据/检测结果 Test Method/Test Result(s)

华测检测

报告编号

Report No.

SCL01H015095001ER2

SCL01H015095001ER2

请参见下页。 Please refer to the following page(s).

主 宙 检 核 Cathy Tested Reviewed by bv 批 日 期 2015.05.25 Date Danny Liu Technical Manager No. R177732128 测技术股份有限公司 广东省深圳市宝安区70区鸿威工业园 rnational (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com

E-mail:info@cti-cert.com

报告编号 SCL01H015095001ER2 Report No. SCL01H015095001ER2

华测检测

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第2页 共7页 Page 2 of 7

检测依据 Test Method	(c ¹) (c ¹)	
测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s
铅 (Pb) Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
镉 (Cd) Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞 (Hg) Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六价铬 (Cr(VI)) Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
多溴联苯 (PBBs) Polybrominated Biphenyl(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
多溴二苯醚 (PBDEs) Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
氟 (F) Fluorine(F)	参考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
氯(CI) Chlorine(Cl)	参考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
溴 (Br) Bromine(Br)	参考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC
碘(I) Iodine(I)	参考 BS EN 14582:2007 Refer to BS EN 14582:2007	IC



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报告编号 SCL01H015095001ER2 Report No. SCL01H015095001ER2 检测结果 Test Result(s)

华测检测

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测试项目 Test Item(s)	结果 Result	方法检出限 MDI
铅 (Pb) Lead (Pb)	N.D.	2 mg/kg
镉 (Cd) Cadmium (Cd)	N.D.	2 mg/kg
汞 (Hg) Mercury (Hg)	N.D.	2 mg/kg
六价铬 (Cr(VI)) Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg
测试项目 Test Item(s)	结果 Result	方法检出限 MDI
多溴联苯(PBBs) Polybrominated Biphenyl(PBBs)	1	(i)
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg
测试项目 Test Item(s)	结果 Result	方法检出限 MD
多溴二苯醚(PBDEs) Polybrominated Diphenyl Ethe	rs(PBDEs)	(\mathcal{A}^{n})
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg

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报告编号 SCL01H015095001ER2 Report No. SCL01H015095001ER2

华测检测

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测试项目 Test Item(s)	结果 Result	方法检出限 MDL
卤素 Halogen(s)		e e
氟 (F) Fluorine(F)	N.D.	10 mg/kg
氯(CI) Chlorine(Cl)	N.D.	10 mg/kg
溴 (Br) Bromine(Br)	N.D.	10 mg/kg
碘(I) Iodine(I)	N.D.	10 mg/kg

深灰色固体 Deep gray solid

	From the first state	
备注:	对于检测铅,镉,汞之样品已完全溶解。	
	-N.D. = 未检出 (小于方法检出限)	
	-mg/kg= ppm = 百万分之一	
Remark:	The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.	
	-MDL = Method Detection Limit	
	-N.D. = Not Detected (<mdl)< td=""><td></td></mdl)<>	
	-mg/kg = ppm = parts per million	
注释:	本报告替换原报告 SCL01H015095001ER1, 自本报告签发之日起, 原报告	
	SCL01H015095001ER1 作废。本报告编号末尾中 R2 表示本次修改后的报告版本。	
Note:	This testing report displaces the original report of No.SCL01H015095001ER1 and	
	the original one No.SCL01H015095001ER1 was invalid since the date of this testing	
	report released. The end sign of report number R2 represents the revised version.	



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No. CANEC1503238403

Date: 18 Mar 2015

Page 1 of 8

DONGGUAN CITY SHIJIE LIANCHENG METALS MANUFACTORY LIUWU ZHOUTOU INDUSTRIAL AREA,SHIJIE TOWN,DONGGUAN,GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : SMD BASE(Plating Sn)

SGS Job No. :	CP15-010709 - GZ
Lot No. :	P150114-0028
Main Substance :	Cu Ni Sn
Date of Sample Received :	11 Mar 2015
Testing Period :	11 Mar 2015 - 17 Mar 2015
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 sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) 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 Standards Technical Services Co., Ltd. Guangzhou Branch

Zuguan

Zm guan Approved Signatory



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198 Kezhu Road,Sdentech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 8215555 f (86-20) 82075113 www.sgsg Page 9.5 中国 · 广州 · 经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 8215555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC1503238403

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN15-032384.002	Silvery / copper-colored plated metal

Remarks :

- (1) 1 mg/kg = 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 spot test / Colorimetric Method using UV-Vis. (5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

<u>Test Item(s)</u>	<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)	-	-	\diamond	Negative
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



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Test Report	No. CANEC15032384	03	Date: 1	8 Mar 2015	Page 3 of 8
<u>Test Item(s)</u>	<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 (2) 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 is Negative or 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 equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

<u>Halogen</u>

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	MDL	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

PFOS (Perfluorooctane Sulfonates)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.



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Test Report	No. CANEC150323840	Date: 18	Page 4 of 8		
<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Perfluorooctane Sulfonates (PFOS) and related Acid,Metal Salt and Amide	1763-23-1	µg/m²	1.0	ND	

Notes :

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004: (1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations. (2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished

products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m2 of the coated material.



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No. CANEC1503238403

Date: 18 Mar 2015

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 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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Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





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Date: 18 Mar 2015

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PFOA / PFOS Testing Flow Chart

1) Name of the person who made testing: Zhihong Wang

2) Name of the person in charge of testing: Cutey Yu





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Sample photo:



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ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA.

The following samples was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By	:	ELEKTRISOLA (MALAYSIA) SDN. BHD.
Sample Description	:	ELEKTRISOLA POLYURETHANE-BASED INSULATION VARNISH
Style/Item No.	:	P130, P155, P155b, P155p, Pg155, P180, Pv180, P190, P210, G155, G155p, G170, G180
Sample Receiving Date	:	2015/04/22
Testing Period	:	2015/04/22 TO 2015/04/27

Test Requested

(1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.

(2) Please refer to next pages for the other item(s).

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

2



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ELEKTRISOLA (MALAYSIA) SDN. BHD. JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA. Page : 2 of 12

Test Result(s)

PART NAME No.1 : DK.BROWN LUMP

Tast Itom(s)	Unit Mothod		МП	Result	
rest tiern(s)	Unit	Metrioù	WIDE	No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	
Beryllium (Be)	mg/kg	With reference to US EPA Method 3050B. Analysis was performed by ICP-AES.	2	n.d.	
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B. Analysis was performed by ICP-AES.	2	n.d.	
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194- 55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49- 1)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	

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ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA.

Result Unit Method MDL Test Item(s) No.1 DINP (Di-isononyl phthalate) % With reference to EN 14372. Analysis was 0.01 n.d. (CAS No.: 28553-12-0; 68515-48performed by GC/MS. 0) % DNOP (Di-n-octyl phthalate) With reference to EN 14372. Analysis was 0.003 n.d. (CAS No.: 117-84-0) performed by GC/MS. % DBP (Dibutyl phthalate) (CAS With reference to EN 14372. Analysis was 0.003 n.d. No.: 84-74-2) performed by GC/MS. DIBP (Di-isobutyl phthalate) (CAS % With reference to EN 14372. Analysis was 0.003 n.d. performed by GC/MS. No.: 84-69-5) Sum of PBBs n.d. mg/kg _ 5 n.d. Monobromobiphenyl mg/kg 5 Dibromobiphenyl mg/kg n.d. 5 Tribromobiphenyl mg/kg n.d. 5 Tetrabromobiphenyl mg/kg n.d. 5 n.d. Pentabromobiphenyl mg/kg 5 Hexabromobiphenyl mg/kg n.d. 5 Heptabromobiphenyl mg/kg n.d Octabromobiphenyl mg/kg 5 n.d. Nonabromobiphenyl 5 n.d. mg/kg 5 Decabromobiphenyl n.d. mg/kg With reference to IEC 62321: 2008 and performed by GC/MS. Sum of PBDEs mg/kg n.d. Monobromodiphenyl ether mg/kg 5 n.d. Dibromodiphenyl ether 5 n.d. mg/kg 5 n.d. Tribromodiphenyl ether mg/kg 5 n.d. Tetrabromodiphenyl ether mg/kg 5 Pentabromodiphenyl ether mg/kg n.d. Hexabromodiphenyl ether 5 n.d. mg/kg mg/kg 5 Heptabromodiphenyl ether n.d. 5 Octabromodiphenyl ether mg/kg n.d. 5 Nonabromodiphenyl ether mg/kg n.d. Decabromodiphenyl ether mg/kg 5 n.d.

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ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA.

Tost Itom(s)	Unit	Mathad	MDL	Result
rest ttern(s)	Onit	Metriod		No.1
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	Analysis was performed by IC.	50	n.d.
Halogen-lodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

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ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. $(Cr^{6+}$ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 $^\circ\!{\rm C}$.
- (2) For metallic material, add pure water and heat to boiling.

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Test Report No. : CE/2015/44583 Date : 2015/04/27

ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI
Others	Added appropriate reagent to total digestion

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ELEKTRISOLA (MALAYSIA) SDN. BHD.

JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA.

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PFOA/PFOS analytical flow chart of Ultrasonic extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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ELEKTRISOLA (MALAYSIA) SDN. BHD. JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA. Page : 8 of 12

HBCDD analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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ELEKTRISOLA (MALAYSIA) SDN. BHD. JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA.

Analytical flow chart of phthalate content

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

[Test method: EN 14372]



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ELEKTRISOLA (MALAYSIA) SDN. BHD. JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA. Page : 10 of 12

PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang



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ELEKTRISOLA (MALAYSIA) SDN. BHD. JALAN DAMAI SATU, JANDA BAIK, 28750 BENTONG, PAHANG, MALAYSIA. Page : 12 of 12

* The tested sample / part is marked by an arrow if it's shown on the photo. *



** End of Report **

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Date: 23 Oct 2014

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BOLUO SAMTONG ELECTRONIC MATERIAL CO., LTD.

LONGXI TOWN, BOLUO COUNTY, GUANGDONG PROVINCE CHINA

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

SGS Job No. :	CP14-054863 - GZ
Model No. :	EP-600-B5
Client Ref. Info. :	EP-600, EP-600-F, EP-600-H, EP-600-B, EP-600-SL, EP-600-SM, ST-500, ST-500-SL-1, ST-500-SH, ST-500-SH-1, ST-500-3
Date of Sample Received :	17 Oct 2014
Testing Period :	17 Oct 2014 - 23 Oct 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).

Signed for and on behalf of SGS-CSTC Ltd.

bene

Alkene_Liang Approved Signatory



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No. CANEC1416971801

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-169718.001	Black liquid

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Elementary Analysis & Flame Retardants

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.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND
Sum of PBBs	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	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</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	

Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Naphthalene(NAP)	mg/kg	0.1	ND
Acenaphthylene(ANY)	mg/kg	0.1	ND
Acenaphthene(ANA)	mg/kg	0.1	ND
Fluorene(FLU)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF) + Benzo(i)fluoranthene(BiF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND



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Test Report	No. CANEC1416971801	Date: 2	23 Oct 2014	Page 4 of 10
<u>Test Item(s)</u> Benzo(e)pyrene(BeP)	<u>Unit</u> mg/kg	<u>MDL</u> 0.1	<u>001</u> ND	
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND	
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND	
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND	
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND	
Sum of 18 PAHs	mg/kg	-	ND	

ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo(a)pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2**	10	200

Notes:

* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs ** = In case that the maximum values exceed the limits of category 1, but are within the limits of

category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

Hexabromocyclododecane (HBCDD)

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

 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.



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Phthalate

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

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</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

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.

Remark: The result(s) shown is/are of the total weight of wet sample.



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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 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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HBCDD Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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Phthalates Testing Flow Chart

1) Name of the person who made testing: Sunny Hu

2) Name of the person in charge of testing: Cutey Yu





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PAHs Testing Flow Chart

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2) Name of the person in charge of testing: Cutey Yu





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