

上海友邦电气(集团)股份有限公司

上海市松江区余山镇吉业路528号

以下测试之样品是由申请者所提供及确认: UKJ接线端子

SGS工作编号: SHIN1511050583PC - SH

产品规格: UKJ-2.5

客户参考信息:

UKJ-1.5, UKJ-2.5X,UKJ-2.5 , UKJ-2.5N,UKJ-2.5E , UKJ-2.5XE,UKJ-2.5EE,  
UKJ-2.5XEE,UKJ-2.5E2 , UKJ-2.5E(T),UKJ-4E,UKJ-4E(T),UKJ-4EE,UKJ-6EE,  
UKJ-10EE,UKJ-16EE,UKJ-35EE,UKJ-50EE,UKJ-4RDEE,UKJ-4RDXXE,  
  
UKJ-2.5XJDE,UKJ-2.5XJDEE,UKJ-2.5JDE,UKJ-2.5JDEE,UKJ-4JDE,UKJ-4JDEE,  
UKJ-6JDE,UKJ-6JDEE,UKJ-10JDE,UKJ-10JDEE,UKJ-16JDE,UKJ-16JDEE,  
UKJ-35JDE,UKJ-35JDEE,UKJ-35NJDE,UKJ-2.5/2-2EE,UKJ-4/2-2EE,UKJ-4/2-2LEE,  
UKJ-2.5/2×2EE,UKJ-4/2×2EE,UKJ-10/2×2EE,UKJ-4  
  
UKJ-4E,UKJ-6 , UKJ-10, UKJ-16, UKJ-35, UKJ-35N,UKJ-50 , UKJ-70,  
UKJ-95, UKJ-150, UKJ-240, UKJ-1.5JD,UKJ-2.5XJD,UKJ-2.5JD,UKJ-4JD,  
UKJ-6JD, UKJ-10JD, UKJ-16JD,UKJ-35JD,UKJ-35NJD,  
UKJ-50JD,UKJ-70JD ,  
  
UKJ-95JD,UKJ-6JD/N,UKJ-10JD/N,UKJ-16JD/N,UKJ-35JD/N,  
UKJ-35NJD/N,UKJ-50JD/N,UKJ-2.5/2-2 , UKJ-2.5/2-2L, UKJ-4/2-2,  
UKJ-4/2-2L,UKJ-4/2×2L,UKJ-2.5/1×2 , UKJ-4/1×2, UKJ-2.5/2×2, UKJ-4/2×2,  
  
UKJ-10/2×2,UKJ-4JD/L,L,UKJ-4JD/L-N,UKJ-2.5/1×2JD,UKJ-4/1×2JD,UKJ-4/2×2JD,  
UKJ-4/2×2NJD,UKJ-4/2×2LJD,UKJ-4C,UKJ-2.5SK,UKJ-4/2×2SK,UKJ-2.5V/5.08,  
UKJ-2.5V/5.08×24 , UKJ-6/3×6, UKJ-6/5×6,  
  
UKJ-6SB,UKJ-6S,UKS-6SE,UKJ-6SN,UKJ-4/2×2FDS,UKJ-4/2×2FDS1 ,  
UKJ-4FD-TG, UKJ-4SK-TG,  
UKJ-4/2-2S-TG,UKJ-2.5RD,UKJ-4RD,UKJ-4/2-2RD,UKJ-10RD,UKJ-32RD,  
UKJ-1.5MT,UKJ-1.5MT/1×2 ,  
  
UKJ-1.5MT/2×2 , UKJ-1.5MT/2-2 , UKJ-2.5M,UKJ-4M,UKJ-6M,  
UKJ-2.5M/2×2 , UKJ-2.5M/2-2 , UKJ-1.5MTJD, UKJ-1.5MT/1×2JD,  
UKJ-1.5MT/2×2JD,UJH-4MJD,UKJ-6MJD,UKJ-DK1.5 , UKJ-DK1.5X,  
UKJ-DKD1.5,  
  
UKJ-DKD1.5X,UKJ-DKD1.5-PV,UKJ-DKD1.5-TG,UKJ-DOK1.5 , UKJ-DOK1.5X,  
UKJ-DOK1.5-2D,UKJ-DOK1.5-TG,UKJ-DOKD1.5-TG , UKJ-VIOK1.5 ,  
  
UKJ-VIOK1.5X,UKJ-VIOK1.5-2D,UKJ-VIOK1.5-D/TG/D/JD,UKJ-VIOK1.5-3D/JD,  
UKJ-DLK2.5/JD,UKJ-DLKB2.5/JD,UKJ-DLK4/JD,  
UKJ-W2.5, UKJ-W4, UKJ-W2.5/2×2 , UKJ-W/2-2,



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UKJ-W2.5/TC,UKJ-W2.5JD,UKJ-W4JD,UKJ-W2.5/2×2JD,  
UKJ-W2.5/2-2D,UKJ-4/2-2D,UKJ-4/2-2LD,  
UKJ-W2.5/2-2D,UKJ-B1 , UKJ-B2, UKJ-BJ,UKJ-UD1,UKJ-UD2 , UKJ-MD,  
UKJ-UTD-D,UKJ-2G2 , UKJ-2G3, UKJ-2G4,

UKJ-1.5MT/1×2G , UKJ-1.5MT/2×2G,UKJ-1.5MT/2-2DG,UKJ-1.5MT/2-2G,  
UKJ-1.5MT/2-2ZG,UKJ-1.5MTG,UKJ-10/2×2G,UKJ-16G,UKJ-2.5/1×2G,UKJ-4/1×2G,  
UKJ-4/2×2G,

UKJ-2.5MG,UKJ-2.5MHDG,UKJ-2.5MHG,UKJ-2.5RDG,UKJ-2.5VG,UKJ-2.5XG,  
UKJ-4/1×2G,UKJ-4/2×2G,UKJ-4/2×2GOR,

UKJ-4/2-2DG,UKJ-4/2-2G,UKJ-4/2-2LDG,UKJ-4/2-2LG,UKJ-4/2-2LZG,  
UKJ-4/2-2RDG,UKJ-4/2-2ZG,UKJ-4CG,UKJ-6MG,UKJ-6SBG,UKJ-6SG,UKJ-6SNG,  
UKJ-DK1.5FG,UKJ-DKD1.5FG,UKJ-G(STP-UK),

UKJ-G(DUK),UKJ-G(DUK)2 , UKJ-MG,UKJ-W2.5/2-2G,UKJ-W2.5/10FG,  
UKJ-W2.5/2-2G,UKJ-W2.5~10FG,UKJ-W2.5~10G

样品接收日期: 2015年11月09日  
测试周期: 2015年11月09日 - 2015年11月17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、多溴联苯(PBBs)、多溴二苯醚(PBDEs)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(上海)有限公司  
授权签名

Shelly Li 黎珊  
批准签署人



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测试结果:

测试样品描述

样品编号	SGS样品ID	描述
SN1	SHA15-228374.001	灰色塑料件
SN2	SHA15-228374.002	银色金属螺丝

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, 用紫外-可见分光光度计比色法测定六价铬的含量
- (5) 参考IEC 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量

测试项目	限值	单位	MDL	001
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	1000	mg/kg	2	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND



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测试项目	限值	单位	MDL	001
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND

备注:

- (1) 最大允许极限值引用自指令2011/65/EU附录II.

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AAS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

测试项目	限值	单位	MDL	002.
镉 (Cd)	100	mg/kg	2	21
铅(Pb)	1000	mg/kg	2	27390▲
汞 (Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	-	-	◇	阴性

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II
- (2) ▲根据客户提供的声明, 编号002中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 6(c)] : 铜合金中的铅含量不得超过4%。
- (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 cm<sup>2</sup>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
- (3) ▲根据客户提供的声明, 编号002中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 6(c)] : 铜合金中的铅含量不得超过4%。



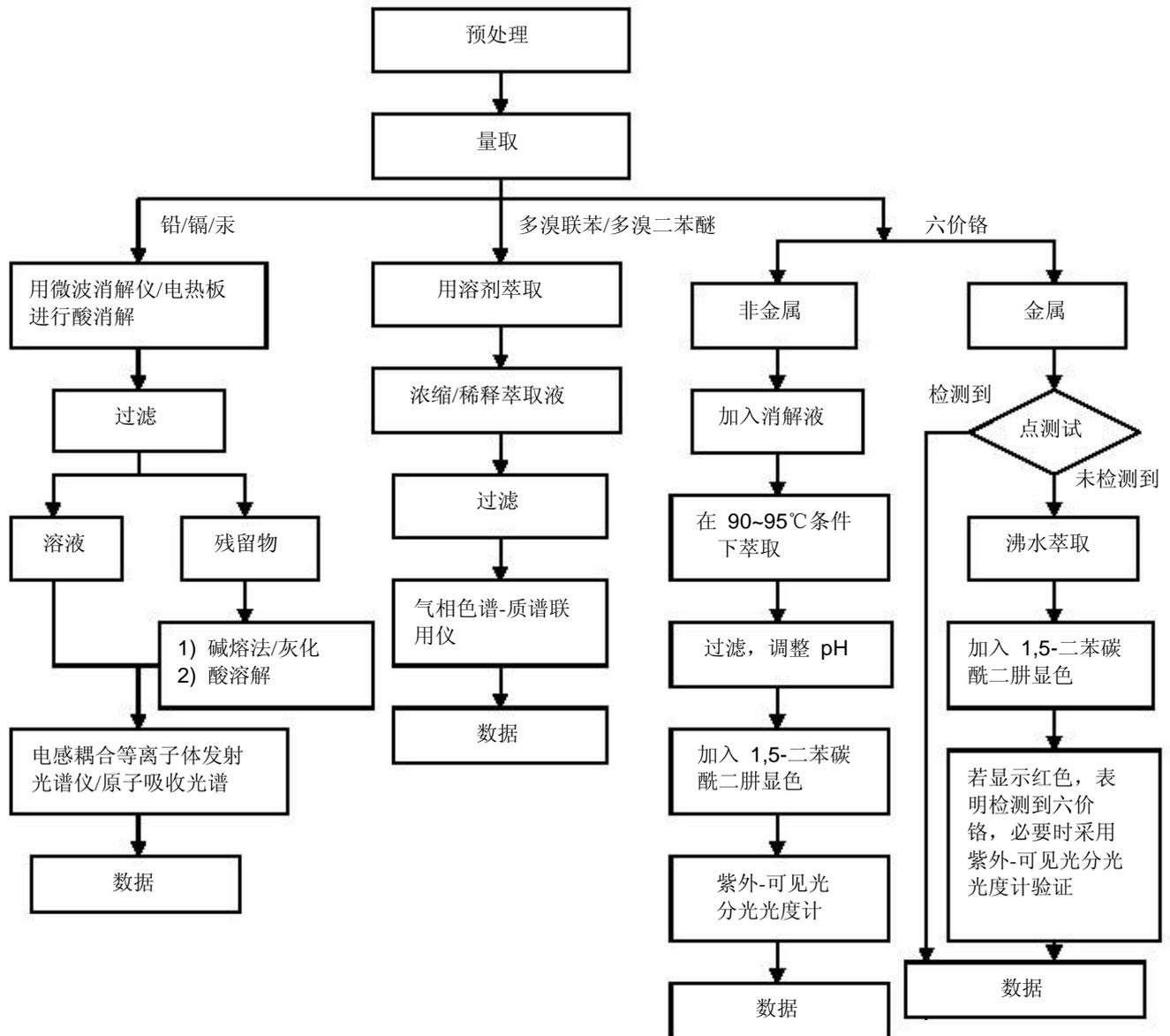
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附件

## RoHS 测试流程图

- 1) 分析人员: 李大锐/徐刚/朱增珍/秦兴章
- 2) 项目负责人: 施青/金黎霞/黄婷/陈怀磊
- 3) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚测试除外)。



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