

检测报告

编号: SHAEC24008910608

日期: 2024 年 06 月 03 日

第 1 页, 共 10 页

客户名称: 上海友邦电气(集团)股份有限公司
客户地址: 上海市松江区佘山镇吉业路 528 号

样品名称: 接线端子
型号: UDJ-1004
客户参考信息: 见附页

以上样品及信息由客户提供。

SGS 工作编号: TIC10202404301639079I6A
样品接收时间: 2024 年 05 月 06 日
检测周期: 2024 年 05 月 06 日 ~ 2024 年 06 月 03 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	符合

通标标准技术服务(上海)有限公司
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倪俊

Tom Ni 倪俊
批准签署人

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA24-0089106-0001.C001	黑色固体
SN2	A3	SHA24-0089106-0001.C003	银色金属
SN3	A6	SHA24-0089106-0001.C006	银色金属

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

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A1
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。
(2) IEC 62321 系列等同于 EN 62321 系列。
(3) 2021 年 7 月 22 号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES/AAS 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A3	A6
铅 (Pb)	1000	mg/kg	2	ND	26710 [▲]
汞 (Hg)	1000	mg/kg	2	ND	ND
镉 (Cd)	100	mg/kg	2	ND	39
六价铬 (Cr(VI)) [▼]	-	µg/cm ²	0.10	ND	ND

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
(2) IEC 62321 系列等同于 EN 62321 系列。
(3) [▼] =
a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅代表检测时样品含六价铬的状态。

- (4) [▲] 根据客户提供的声明, 编号A6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%。

更多豁免相关信息, 可以从以下链接获取:

<https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf>

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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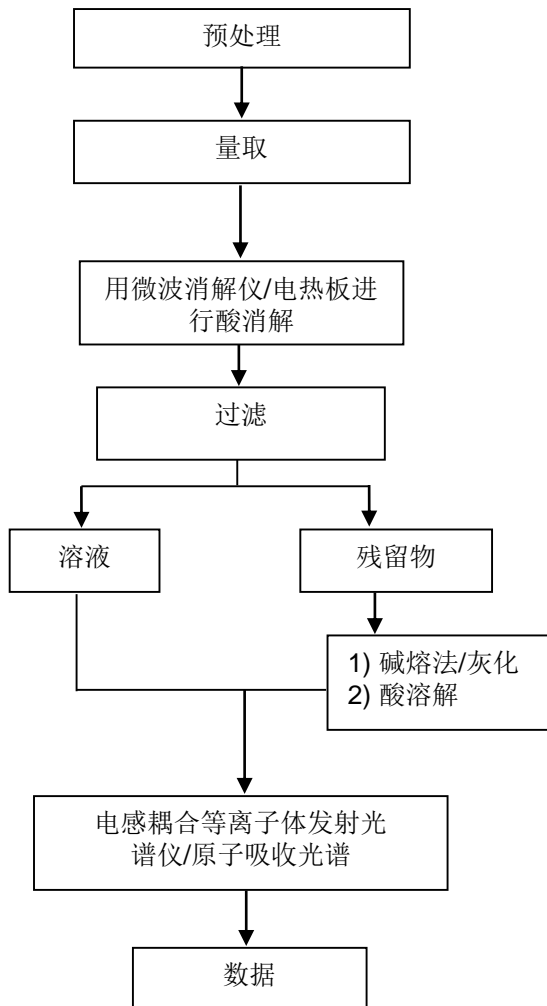
日期: 2024 年 06 月 03 日

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附件

元素检测流程图

样品按照下述流程被完全消解



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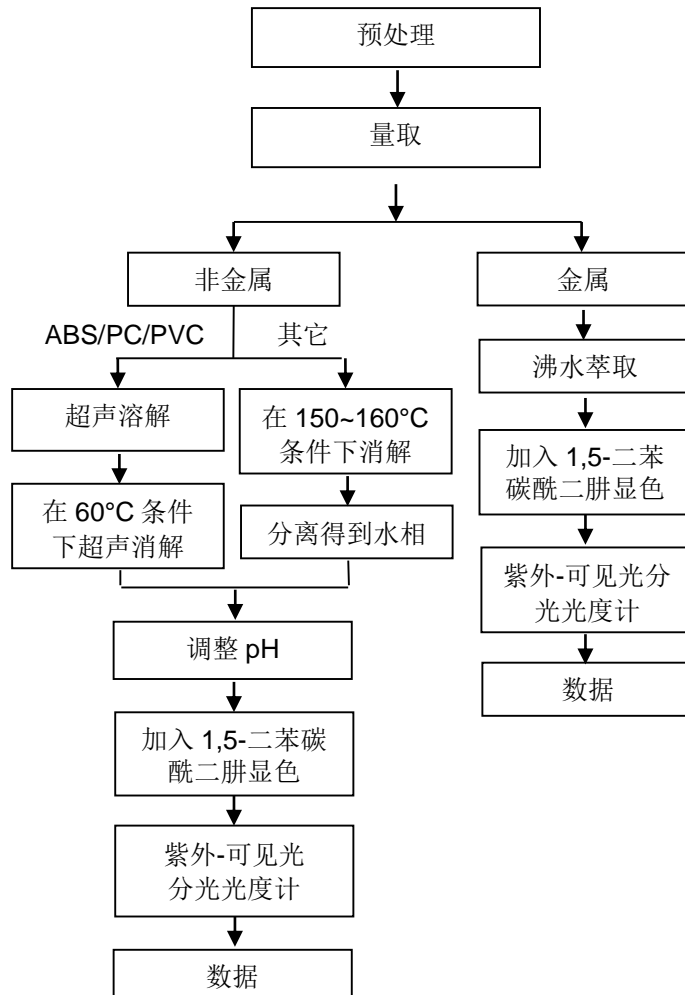
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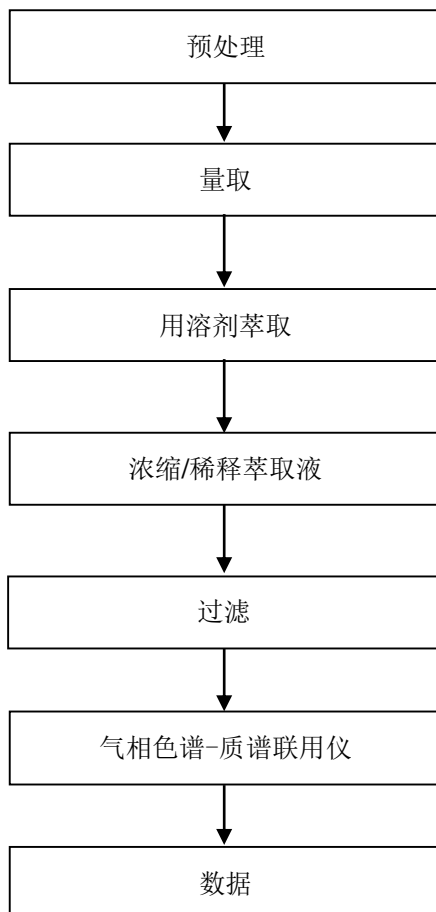
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六价铬检测流程图



PBB/PBDE 检测流程图



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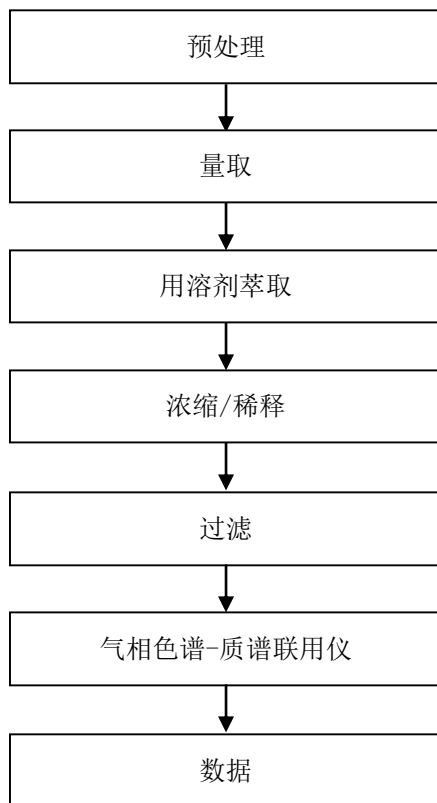
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Phthalates 检测流程图



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附件:

UDJ-603,UDJ-604,UDJ-605,UDJ-1003,UDJ-1004,UDJ-1005,UDJ-1503,UDJ-1504,UDJ-1504(M8),UDJ-1505,UDJ-2003,UDJ-2004,UDJ-2005,UDJ-3003,UDJ-3004,UDJ-3005,UDJ-4003,UDJ-4004,UDJ-4005,UDJ-6003,UDJ-6004,UDJ-6005,UDJ-505,UDJ-1003(M8),UDJ-603(M8/M6),UDJ-1003(M8/M6),UDJ-604(M8/M6),UDJ-1004(M8/M6),UDJ-2003/3×25,UDJ-2004/2×35,UDJ-2004/3×25,UDJ-2004/4×16,UDJ-2004/6×16,UDJ-2004/8×10,UDJ-2004/12×6,UDJ-2005/2×35,UDJ-2005/3×25,UDJ-2005/4×16,UDJ-2005/6×16,UDJ-2005/8×10,UDJ-2005/12×6,UDJ-3003/2×70,UDJ-3003/3×50,UDJ-3003/4×35,UDJ-3003/6×25,UDJ-3003/12×16,UDJ-3003/8×10,UDJ-3003/15×10,UDJ-3003/24×6,UDJ-3004/2×70,UDJ-3004/3×50,UDJ-3004/4×35,UDJ-3004/6×25,UDJ-3004/12×16,UDJ-3004/15×10,UDJ-3004/24×6,UDJ-3005/2×70,UDJ-3005/3×50,UDJ-3005/4×35,UDJ-3005/6×25,UDJ-3005/12×16,UDJ-3005/15×10,UDJ-3005/24×6,UDJ-6004/2×120,UDJ-6004/3×70,UDJ-6004/4×70,UDJ-6004/6×50,UDJ-6004/8×35,UDJ-6004/12×25,UDJ-6004/12×16,UDJ-4003/2×95,UDJ-4003/6×35,UDJ-2003(BK),UDJ-4003/12×16,UDJ-4003/15×10,UDJ-4004/2×95,UDJ-4004/6×35,UDJ-4004/8×25,UDJ-4004/12×16,UDJ-4004/15×10,UDJ-4005/2×95,UDJ-4005/6×35,UDJ-4005/8×25,UDJ-4005/12×16,UDJ-4005/15×10,UDJ-2003/4×16,UDJ-2003/6×16,UDJ-2003/8×10,UDJ-2003/12×6,UDJ-2003/2×35,UDJ-6003/12×16,UDJ-6003/12×25,UDJ-6003/2×120,UDJ-6003/3×70,UDJ-6003/4×70,UDJ-6003/6×50,UDJ-6003/8×35,UDJ-3003/95,UDJ-3004/9×10,UDJ-3004/12×10,UDJ-3004/4×10,UDJ-3004/8×10,UDJ-6005/12×25,UDJ-6005/12×16,UDJ-2004/3+12×6,UDJ-6005/2×120,UDJ-3003/4×10,UDJ-3003/9×10,UDJ-3003/12×10,UDJ-3005/4×10,UDJ-3005/8×10,UDJ-3005/9×10,UDJ-3005/12×10,UDJ-6005/3×70,UDJ-6005/4×70,UDJ-6005/6×50,UDJ-6005/8×35,UDJ-1004(M8),UDJ-4003/8×25,UDJ-4004/3+12×16,UDJ-1004/12×4,UDJ-604(L1 L2 L3 N)



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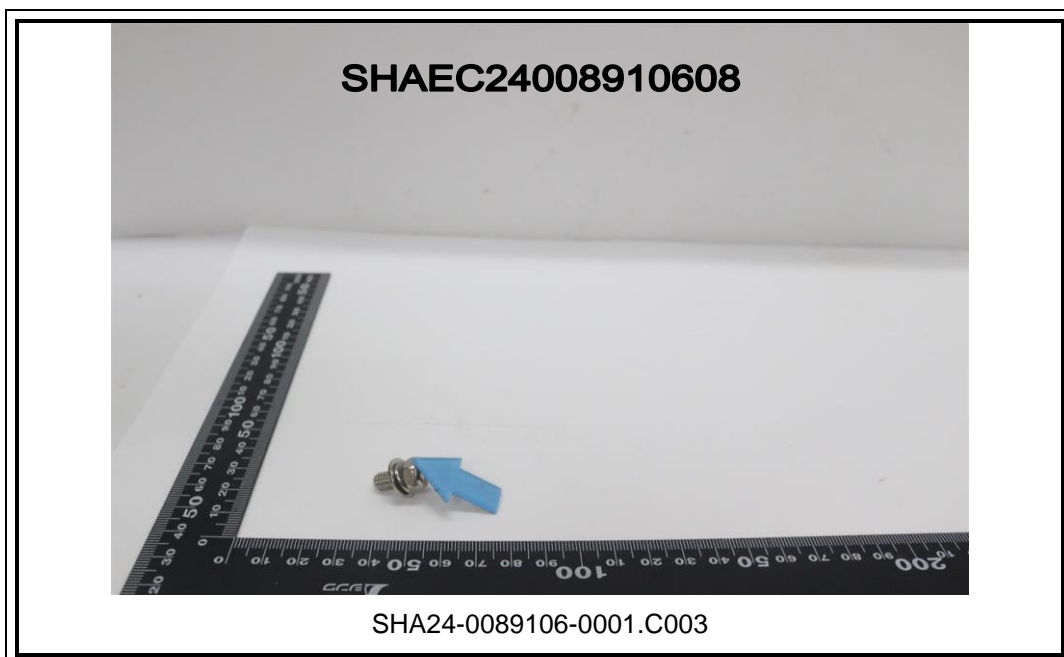
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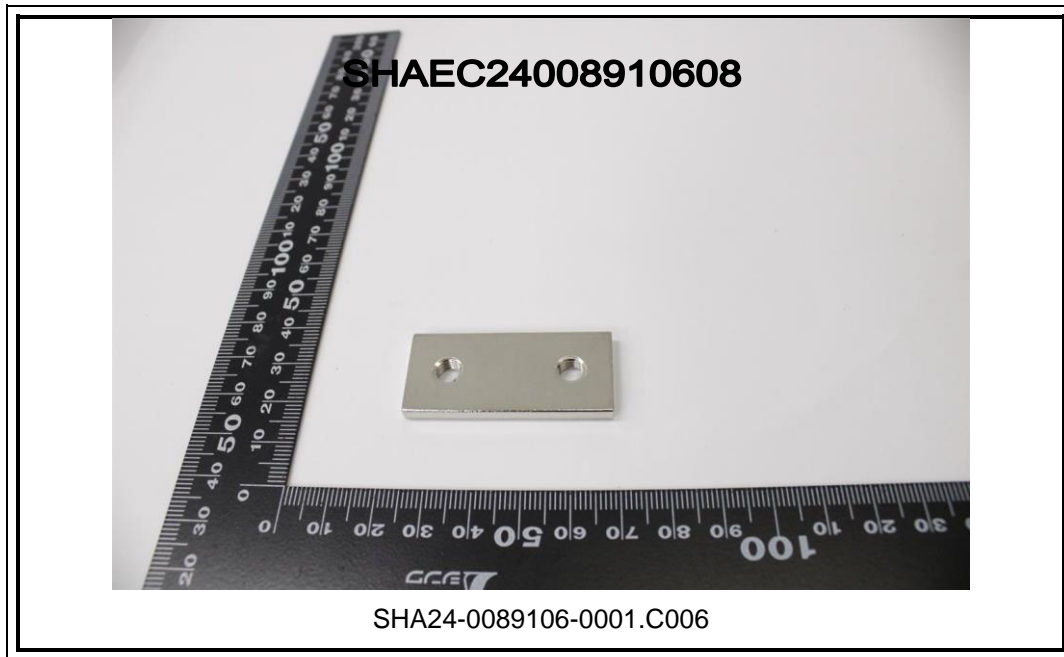
3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233 t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

检测报告

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SGS-CSTC (Shanghai) Technical Services (Shanghai) Co., Ltd.
Testing Center-Chemical Laboratory

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
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