

## 测试报告

No. SHAEC1518493202

日期: 2015年09月17日 第1页,共16页

宁波松乐继电器有限公司 (宁波松乐电器有限公司)

浙江省余姚市远东工业城A区CW7

以下测试之样品是由申请者所提供及确认: 继电器

SGS工作编号: SP15-030921 - SH

成分: 1.骨架 2.外壳 3.铁芯 4.衔铁 5.簧片 6.轭铁 7.动触点 8.静触点 9.B脚 10.A脚  
11.C脚 12.漆包线 13.油墨 14.焊锡 15.密封胶

型号: SRD

客户参考信息: SRS,SRSZ, SRC,SRB,SRE,SRA,SRI,SRG,SRU,SRSB,SRSC,SMK,SMI,SMIH,S  
LK,SRF,SLA,SLC,SLI,SLCH,SMBH,SMB,SLQ,SLE,SLB,SLG,SLH,SLJ,SLX,SLZ  
,SLD,SLDH,SLM,SRIH,SLR,SLDA,SLDB,SLDE,SLDC

样品接收日期: 2015年09月11日

测试周期: 2015年09月11日 - 2015年09月16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)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苯酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务(上海)有限公司  
授权签名

Marry Ma 马广媛  
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	SHA15-184932.001	白色固体
SN2	SHA15-184932.002	蓝色固体
SN3	SHA15-184932.003	银色金属
SN4	SHA15-184932.004	银色金属
SN5	SHA15-184932.005	铜色金属
SN6	SHA15-184932.006	银色金属
SN7	SHA15-184932.007	银色金属
SN8	SHA15-184932.008	银色铜色金属
SN9	SHA15-184932.009	金色金属
SN10	SHA15-184932.010	铜色金属
SN11	SHA15-184932.011	金色金属
SN12	SHA15-184932.012	铜色金属
SN13	SHA15-184932.013	银色金属
SN14	SHA15-184932.014	铜色漆包线
SN15	SHA15-184932.015	黑色液体
SN16	SHA15-184932.016	银色金属
SN17	SHA15-184932.017	白色液体

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附录II的修正指令(EU) 2015/863

- 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
  - (6) 参考EN 14372:2004, 用GC-MS测定邻苯二甲酸酯的含量



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## 测试报告

No. SHAEC1518493202

日期: 2015年09月17日

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测试项目	限值	单位	MDL	001	002	014
镉(Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	19	19	ND
汞(Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(CrVI)	1000	mg/kg	2	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	ND
六溴联苯	-	mg/kg	5	ND	ND	ND
七溴联苯	-	mg/kg	5	ND	ND	ND
八溴联苯	-	mg/kg	5	ND	ND	ND
九溴联苯	-	mg/kg	5	ND	ND	ND
十溴联苯	-	mg/kg	5	ND	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	30	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	30	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	30	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	30	ND	ND	ND

测试项目	限值	单位	MDL	015	017
镉(Cd)	100	mg/kg	2	ND	ND
铅(Pb)	1000	mg/kg	2	ND	ND
汞(Hg)	1000	mg/kg	2	ND	ND
六价铬(CrVI)	1000	mg/kg	2	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND
一溴联苯	-	mg/kg	5	ND	ND
二溴联苯	-	mg/kg	5	ND	ND



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测试项目	限值	单位	MDL	015	017
三溴联苯	-	mg/kg	5	ND	ND
四溴联苯	-	mg/kg	5	ND	ND
五溴联苯	-	mg/kg	5	ND	ND
六溴联苯	-	mg/kg	5	ND	ND
七溴联苯	-	mg/kg	5	ND	ND
八溴联苯	-	mg/kg	5	ND	ND
九溴联苯	-	mg/kg	5	ND	ND
十溴联苯	-	mg/kg	5	ND	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND	ND
一溴二苯醚	-	mg/kg	5	ND	ND
二溴二苯醚	-	mg/kg	5	ND	ND
三溴二苯醚	-	mg/kg	5	ND	ND
四溴二苯醚	-	mg/kg	5	ND	ND
五溴二苯醚	-	mg/kg	5	ND	ND
六溴二苯醚	-	mg/kg	5	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	30	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	30	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	30	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	30	ND	ND

备注:

(1) 最大允许限值引用自RoHS指令(EU) 2015/863。

### RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

- 测试方法:
- (1) 样品007:参考IEC 62321-5:2013, 用AAS测定镉的含量  
其他样品:参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
  - (2) 样品003,004,006,007,008,013: 参考IEC 62321-5:2013, 用AAS测定铅的含量  
其他样品: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



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## 测试报告

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日期: 2015年09月17日

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测试项目	限值	单位	MDL	003	004	005
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	ND	ND	20
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(CrVI)	-	-	◇	阴性	阴性	阴性

测试项目	限值	单位	MDL	006	007	008
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	ND	5	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(CrVI)	-	-	◇	阴性	阴性	阴性

测试项目	限值	单位	MDL	009	010	011
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	21	95	18
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(CrVI)	-	-	◇	阴性	阴性	阴性

测试项目	限值	单位	MDL	012	013	016
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	114	ND	12
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(CrVI)	-	-	◇	阴性	阴性	阴性

备注:

(1) 最大允许限值引用自RoHS指令(EU) 2015/863.

(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。

备注:

样品015,017: 所示结果为湿样品总重量中的含量.



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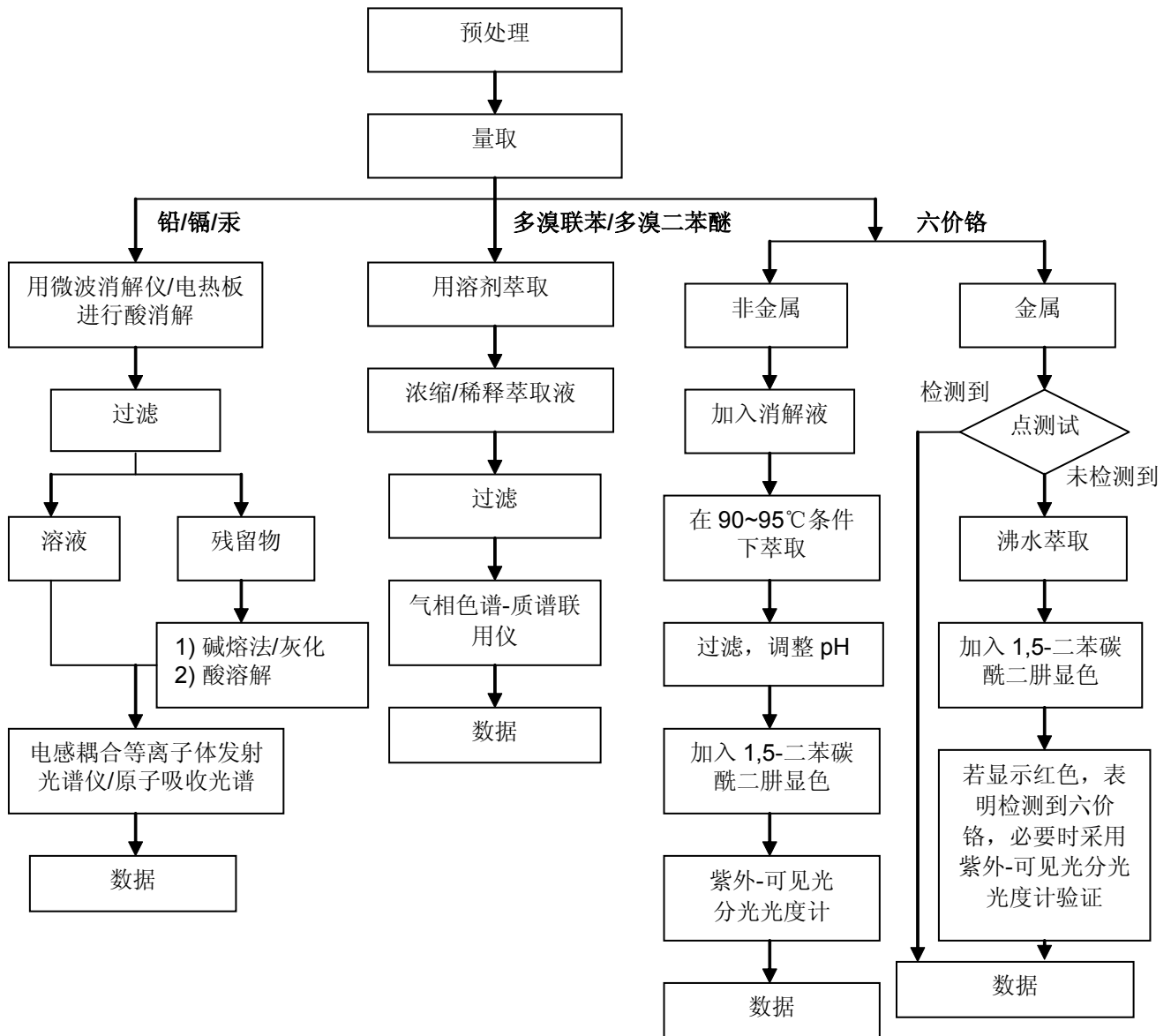
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附件

RoHS 测试流程图

- 1) 分析人员: 张小波/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)。



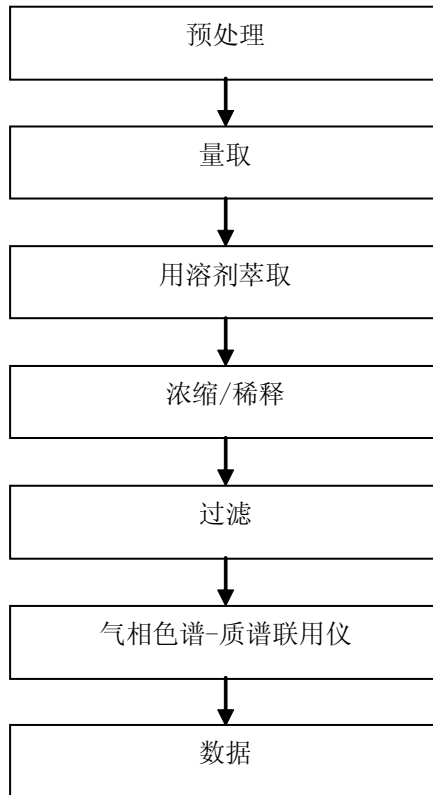
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附件

### Phthalates 测试流程图

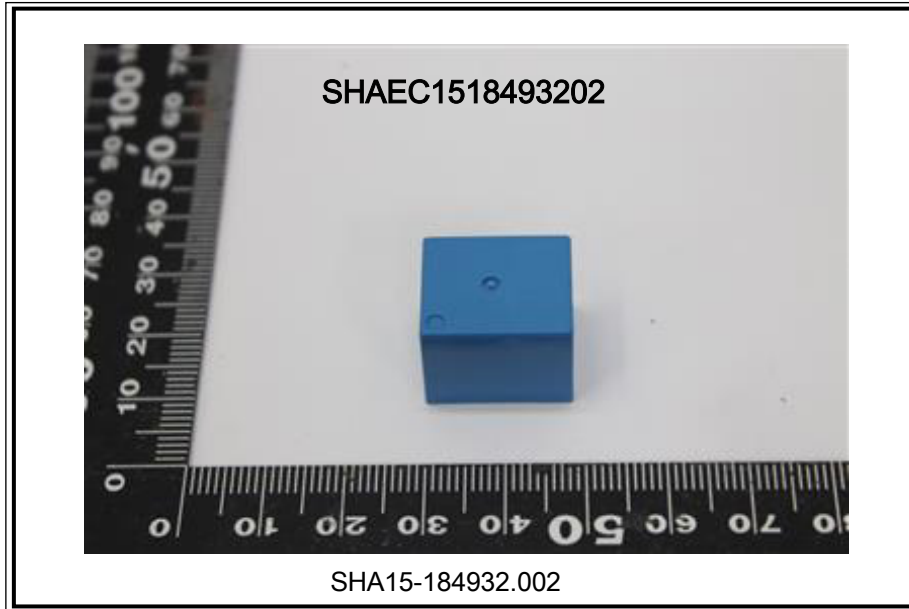
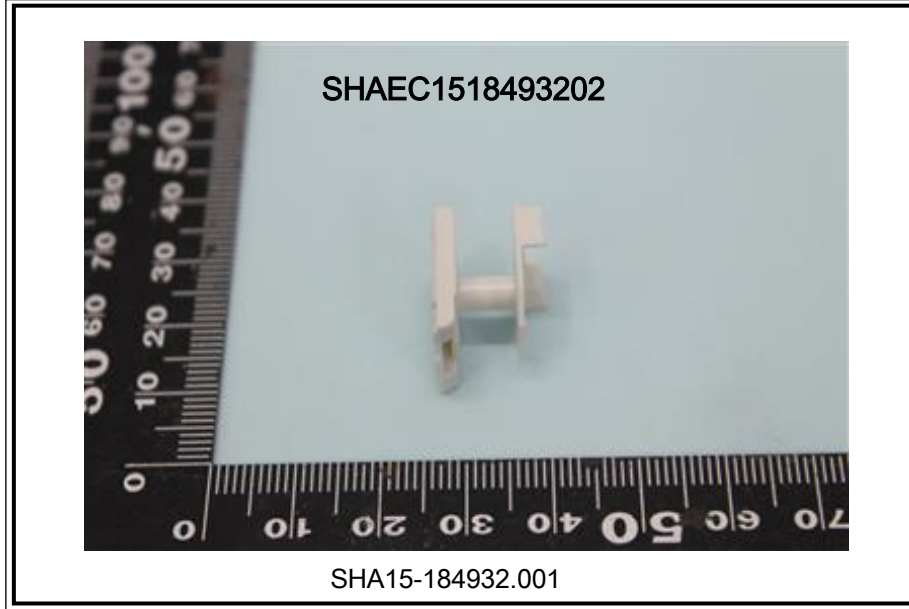
- 1) 分析人员: 高仰景
- 2) 项目负责人: 马永存



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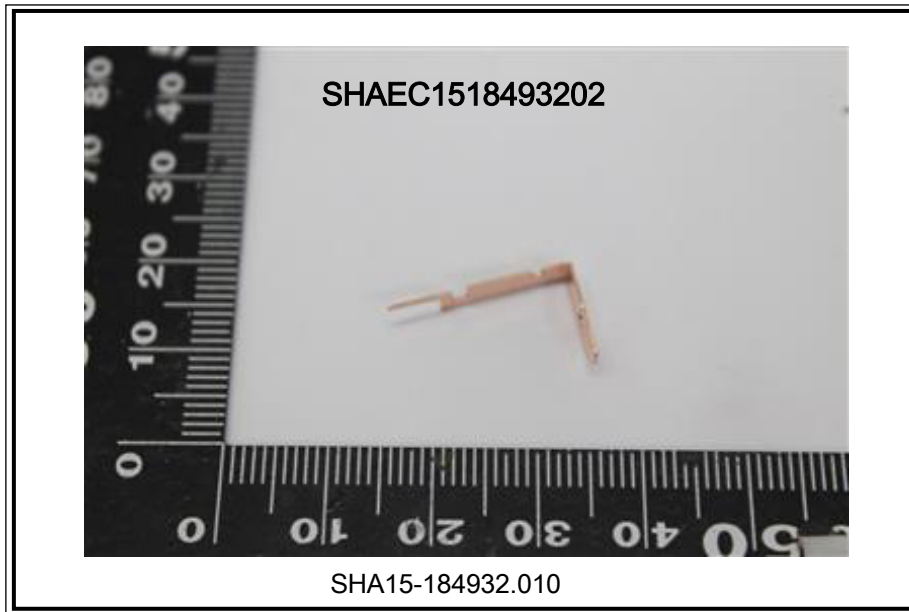
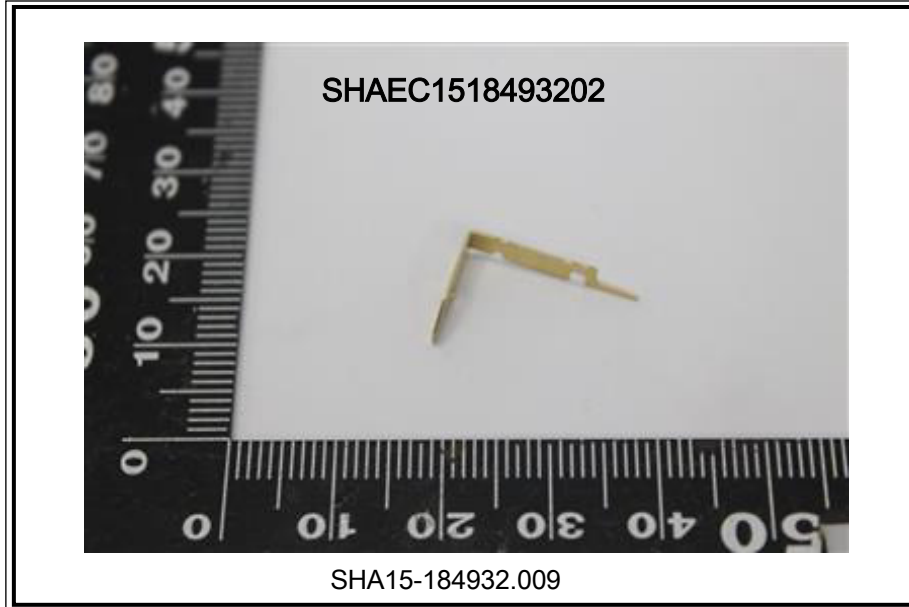
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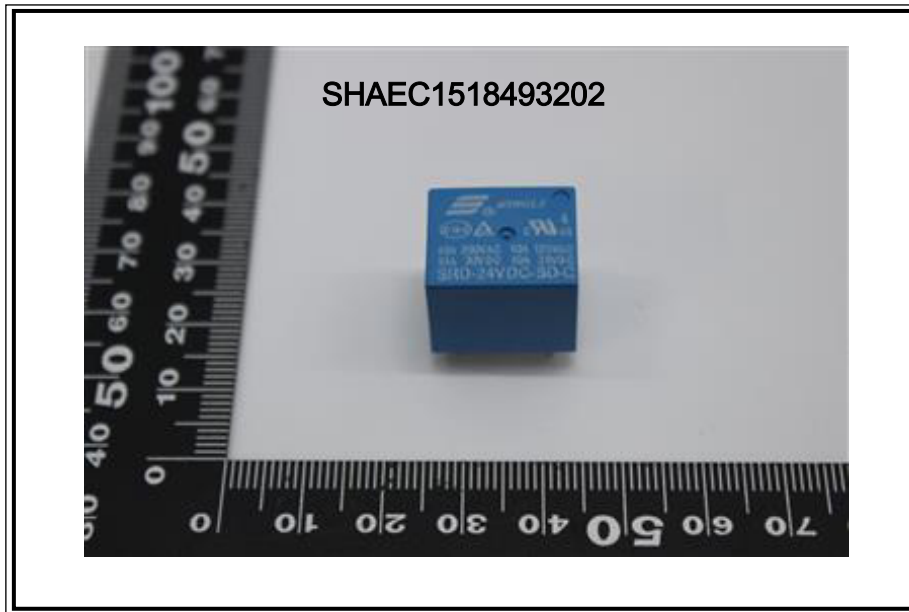


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