

测试报告 No. NGBEC1805946402 日期: 2018年11月16日 第1页,共15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(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)

SGS工作编号: NP18-004035 - NB

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: 2018年11月12日

测试周期: 2018年11月12日 - 2018年11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001~002,013和015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)、邻苯二甲酸丁苄酯(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。

基于所送样品003~012和014进行的测试,镉、铅、汞、六价铬的测试结果符合欧

盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

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Iris Xiao肖玲艳 批准签署人





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邮编: 315040 tHL (86-574)89070271 tML (86-574)89070242 e sgs.china@sgs.com



测试报告 No. NGBEC1805946402 日期: 2018年11月16日 第2页,共15页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	NGB18-059464.001	白色塑料
SN2	NGB18-059464.002	蓝色塑料
SN3	NGB18-059464.003	银色金属
SN4	NGB18-059464.004	银色金属
SN5	NGB18-059464.005	铜色金属
SN6	NGB18-059464.006	银色金属
SN7	NGB18-059464.007	银色金属
SN8	NGB18-059464.008	铜色和银色金属
SN9	NGB18-059464.009	铜色金属
SN10	NGB18-059464.010	铜色金属
SN11	NGB18-059464.011	银色金属线
SN12	NGB18-059464.012	铜色金属线
SN13	NGB18-059464.013	白色油墨
SN14	NGB18-059464.014	银色金属
SN15	NGB18-059464.015	黑色胶体

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: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, UV-Vis和GC-MS进行分析.

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>013</u>
镉(Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	ND	6	ND
汞(Hg)	1000	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯(PBBs)之和	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



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测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>013</u>
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	58	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	58	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)		mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND	ND	ND
测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>015</u>		
镉(Cd)	100	mg/kg	2	ND		
铅(Pb)	1000	mg/kg	2	ND		
汞(Hg)	1000	mg/kg	2	ND		
六价铬 (Cr(VI))	1000	mg/kg	8	ND		
多溴联苯(PBBs)之和	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		



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火,风,风	NO. NGBEC 1605946402		口朔. 4	2010年11月10日	第 4 贝,共1 3 贝
<u>测试项目</u>	<u>限值</u>	<u>单位</u>	MDL	<u>015</u>	
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	
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	
邻苯二甲酸二丁酯 (DBP)	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(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND	

1000

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ND

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备注:

邻苯二甲酸二异丁酯(DIBP)

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:125863 7,25

mg/kg

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

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013和 IEC 62321-7-1:2015, 采 用ICP-OES和UV-Vis 进行分析.

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>003</u>	<u>004</u>	<u>005</u>
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND	ND	ND
测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>006</u>	<u>007</u>	<u>008</u>
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND	ND	ND



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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>009</u>	<u>010</u>	<u>011</u>	
镉 (Cd)	100	mg/kg	2	ND	ND	ND	
铅(Pb)	1000	mg/kg	2	80	74	ND	
汞 (Hg)	1000	mg/kg	2	ND	ND	ND	
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND	
测试项目	<u>限值</u>	单位	MDL	<u>012</u>	<u>014</u>		
镉 (Cd)	100	mg/kg	2	ND	ND		
铅(Pb)	1000	mg/kg	2	ND	64		
汞 (Hg)	1000	mg/kg	2	ND	ND		
六价铬(Cr(VI))▼	-	μg/cm²	0.10	ND	ND		

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。 IEC 62321系列等同于 EN 62321系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637.25

- (2) ▼ = 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,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

备注:

(1) 此报告数据来源于NGBEC1805946401的报告,日期: 2018/11/16

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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No. NGBEC1805946402

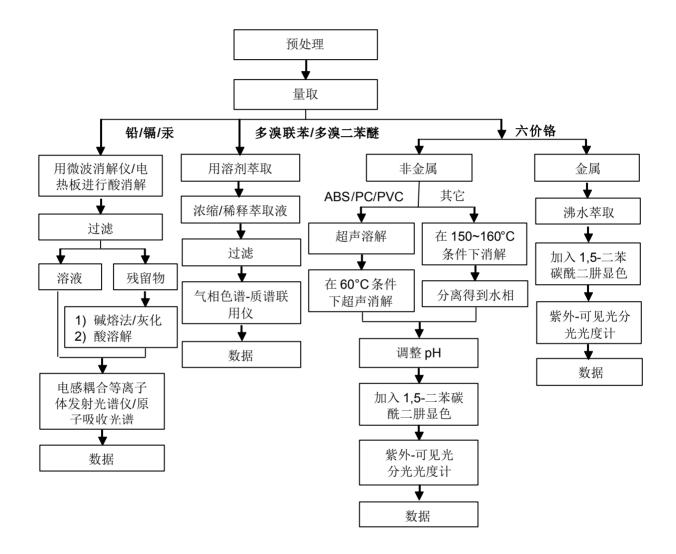
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附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 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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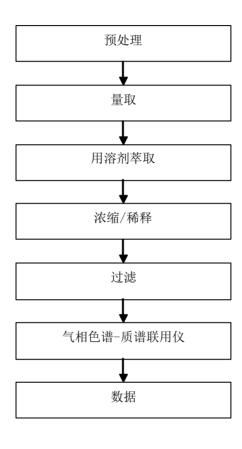
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附件

邻苯测试流程图





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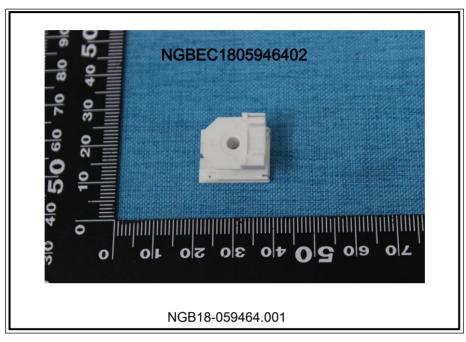


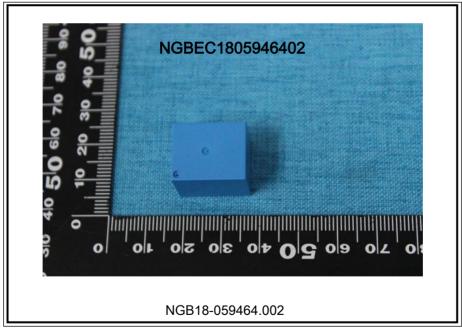
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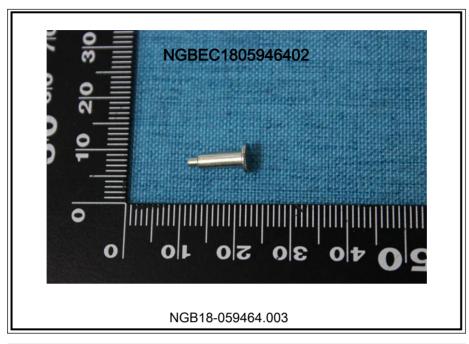
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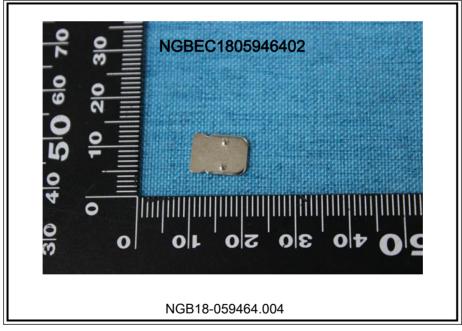
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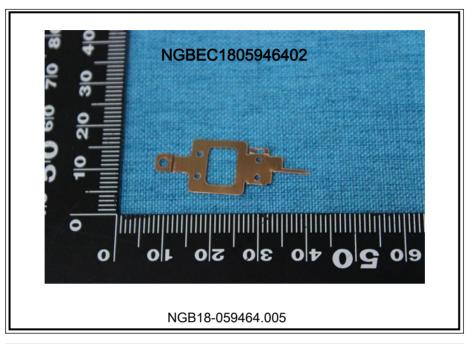
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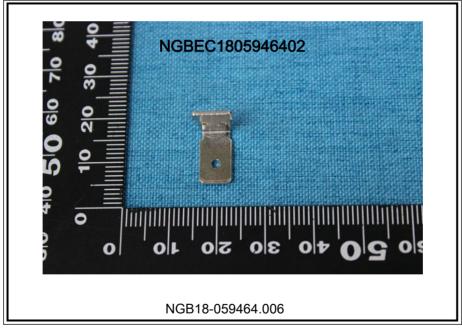
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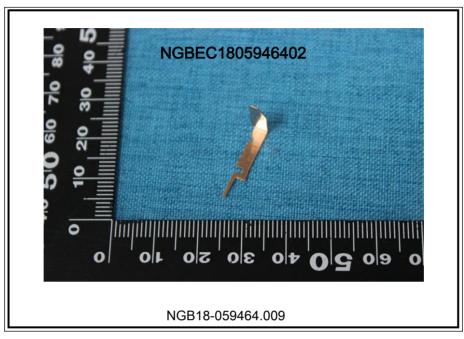
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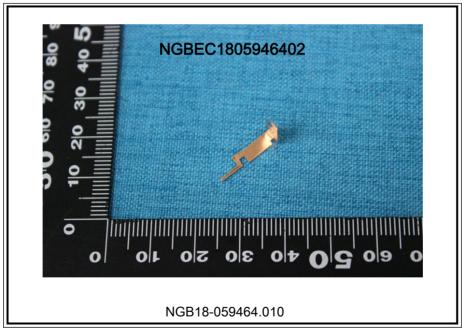
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