

## 检测报告

编号: SZXEC24003515502

日期: 2024年11月14日

第1页, 共16页

客户名称: 敬業電子(惠州)有限公司

客户地址: 廣東省惠州市惠城區惠風西四路82號(平南工業園50號小區)

样品名称: 电解电容器

以上样品及信息由客户提供。

SGS 工作编号: SZP24-049273

样品接收时间: 2024年11月11日

检测周期: 2024年11月11日 ~ 2024年11月14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

通标标准技术服务有限公司深圳分公司

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Tina Fan 范萍

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Shenzhen Branch Testing Center Chemical Laboratory

**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	SZX24-0035155-0001.C001	灰色铝箔(客户称之铝箔)(半成品)
SN2	A2	SZX24-0035155-0001.C002	银色金属壳(客户称之铝壳)(半成品)
SN3	A3	SZX24-0035155-0001.C003	银色金属片(客户称之导针(铝材))(半成品)
SN4	A4	SZX24-0035155-0001.C004	银色金属引脚(客户称之导针(CP线))(半成品)
SN5	A5	SZX24-0035155-0001.C005	棕色纸(客户称之电解纸)(半成品)
SN6	A6	SZX24-0035155-0001.C006	棕色液体(客户称之电解液)(半成品)
SN7	A7	SZX24-0035155-0001.C007	带白色印字的黑色塑胶套管(客户称之PET黑色套管)(半成品)
SN8	A8	SZX24-0035155-0001.C008	带白色印字的深蓝色塑胶套管(客户称之PET深蓝色套管)(半成品)
SN9	A9	SZX24-0035155-0001.C009	黑色固体物料(客户称之胶盖)(半成品)
SN10	A10	SZX24-0035155-0001.C010	带粘性的黄色半透明胶带(客户称之电子胶带)(半成品)
SN11	A11	SZX24-0035155-0001.C011	白色固体物料(客户称之胶)(半成品)

**备注:**

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检出限
- (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	A5	A7	A8
铅 (Pb)	1000	mg/kg	2	ND	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯(PBB)	1000	mg/kg	-	ND	ND	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND	ND	ND



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检测项目	限值	单位	MDL	A5	A7	A8
二溴联苯 (DiBB)	-	mg/kg	5	ND	ND	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND	ND	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND	ND	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND	ND	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND	ND	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND	ND	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND	ND	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND	ND	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND	ND	ND
多溴二苯醚 (PBDE)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND	ND	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND	ND	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND	ND	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND	ND	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND	ND	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND	ND	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND	ND	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND	ND	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND	ND	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	ND

检测项目	限值	单位	MDL	A9	A10	A11
铅 (Pb)	1000	mg/kg	2	8	ND	ND
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND	ND	ND
多溴联苯 (PBB)	1000	mg/kg	-	ND	ND	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND	ND	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND	ND	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND	ND	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND	ND	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND	ND	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND	ND	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND	ND	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND	ND	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND	ND	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND	ND	ND
多溴二苯醚 (PBDE)	1000	mg/kg	-	ND	ND	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND	ND	ND



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检测项目	限值	单位	MDL	A9	A10	A11
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND	ND	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND	ND	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND	ND	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND	ND	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND	ND	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND	ND	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND	ND	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND	ND	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND	ND	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND	ND	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND	ND	ND

备注:

- (1) 最大允许限值引用自 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。

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	A6
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(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 (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



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检测项目	限值	单位	MDL	A6
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
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	A1	A2	A3
铅 (Pb)	1000	mg/kg	2	6	7	3
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
镉 (Cd)	100	mg/kg	2	ND	ND	ND
六价铬 (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND	ND	ND

检测项目	限值	单位	MDL	A4
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))▼	-	µg/cm <sup>2</sup>	0.10	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/cm<sup>2</sup> 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/cm<sup>2</sup>) 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/cm<sup>2</sup> 与 0.13 µg/cm<sup>2</sup> 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能代表检测时样品含六价铬的状态。



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Shenzhen Branch Testing Center-Chemical Laboratory

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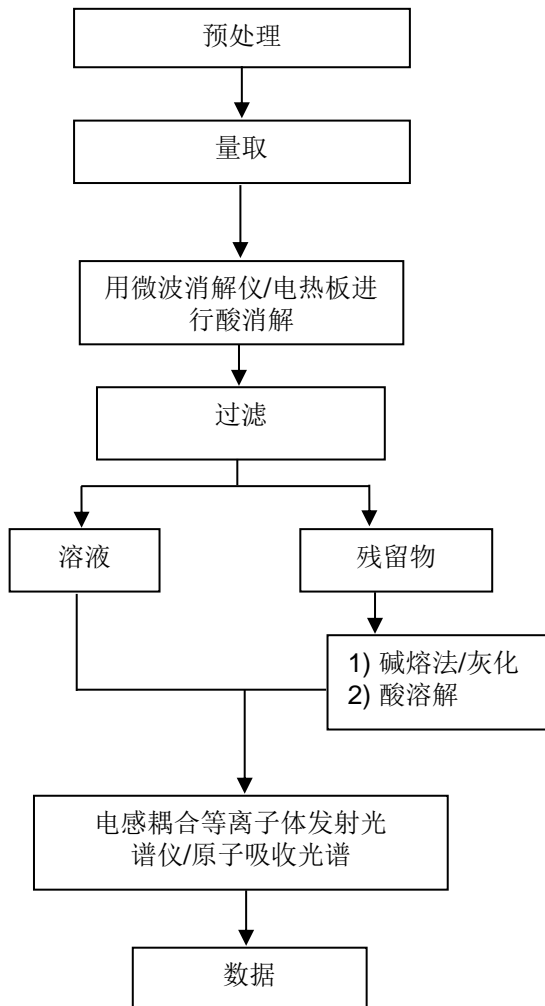
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附件

### 元素检测流程图

样品按照下述流程被完全消解



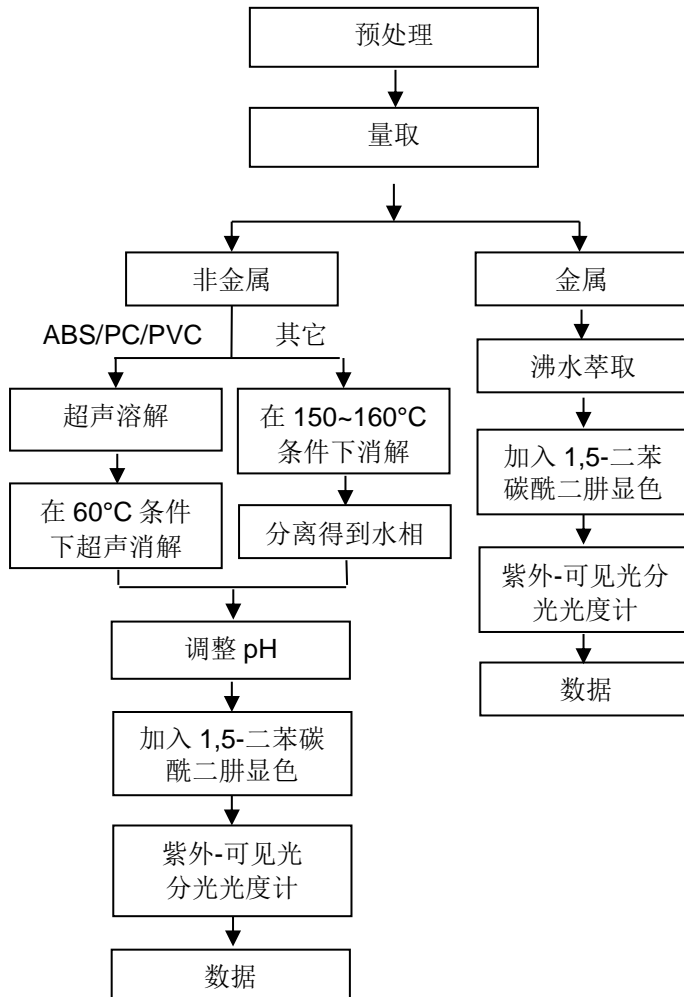
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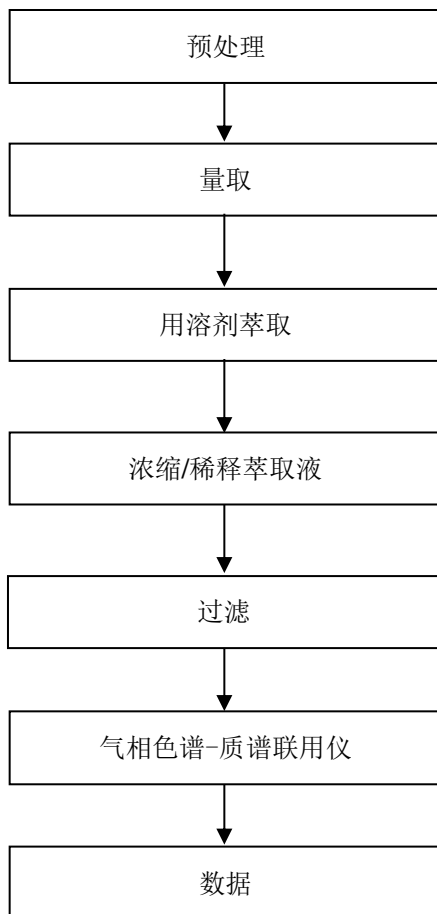
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### 六价铬检测流程图





### PBB/PBDE 检测流程图



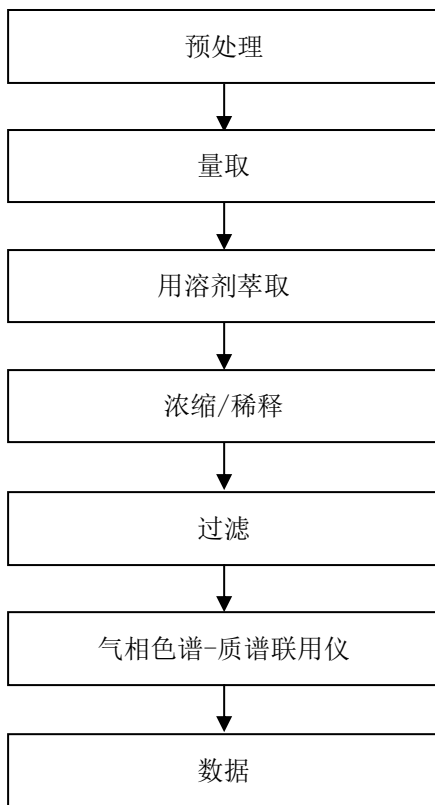
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### Phthalates 检测流程图



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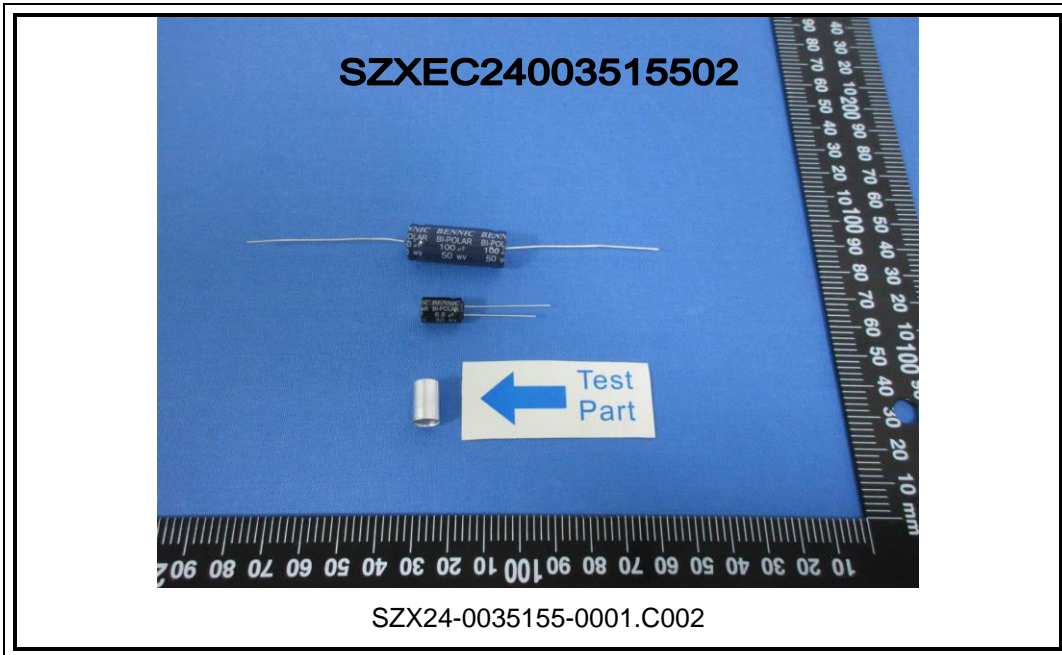
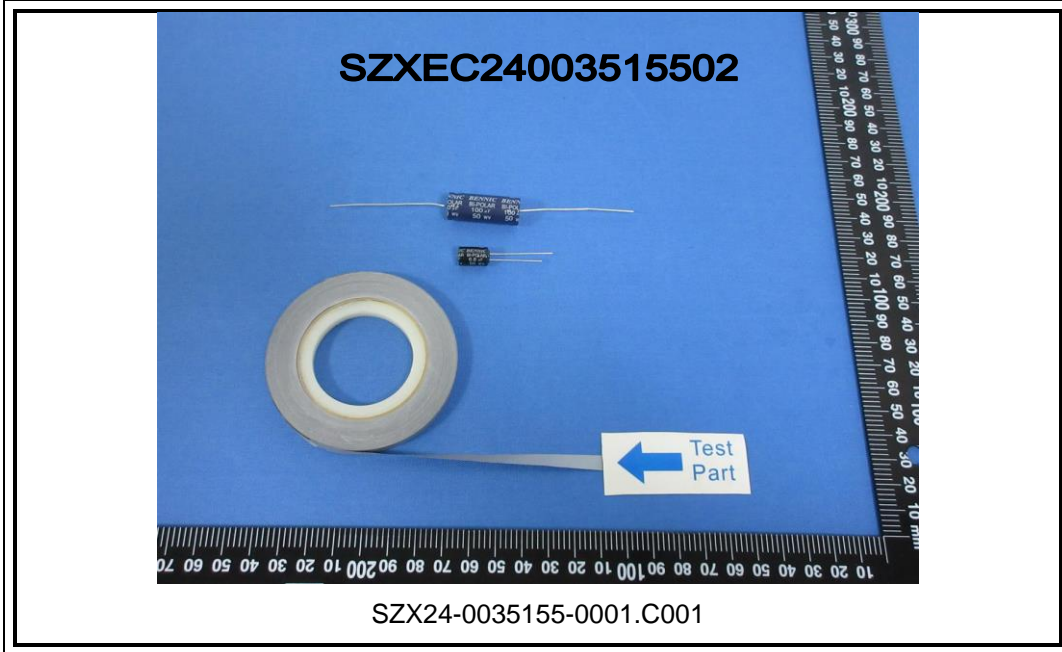
## 检测报告

编号: SZXEC24003515502

日期: 2024年11月14日

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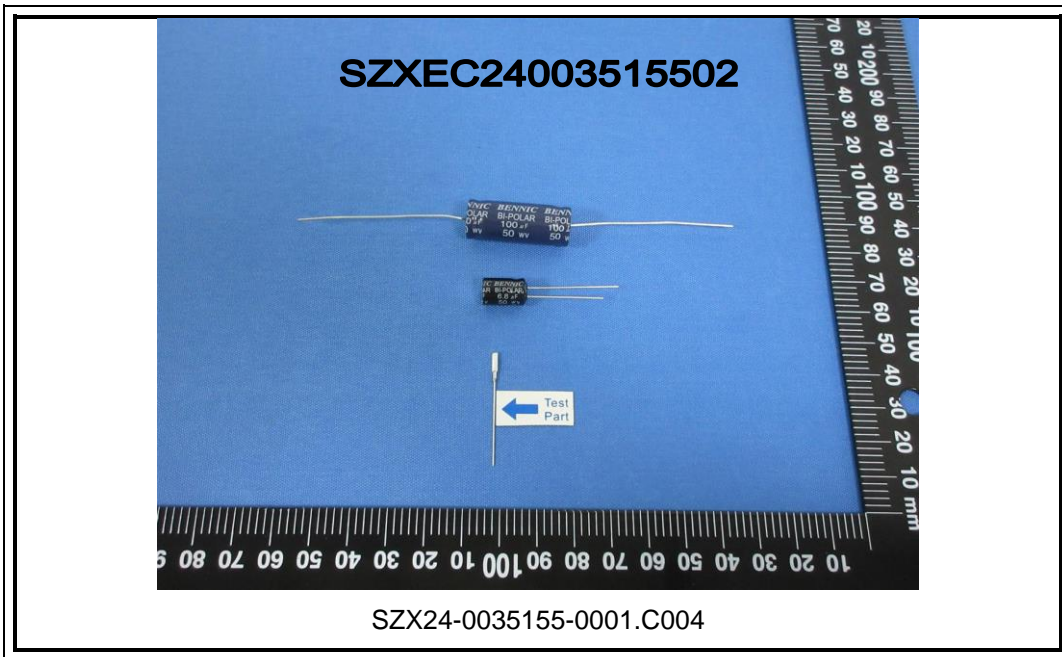
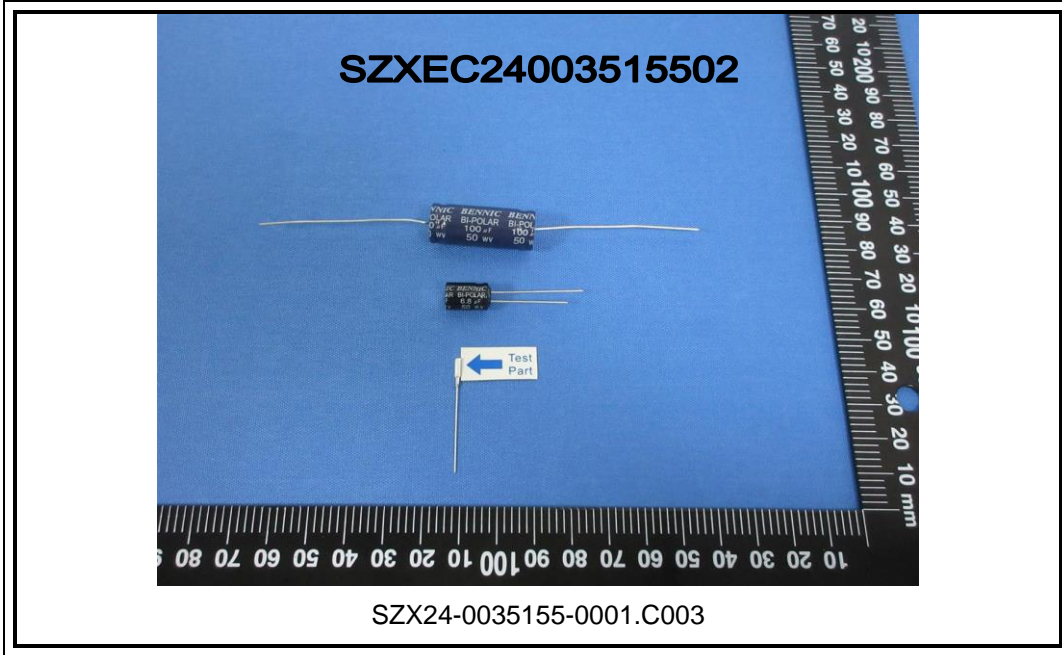
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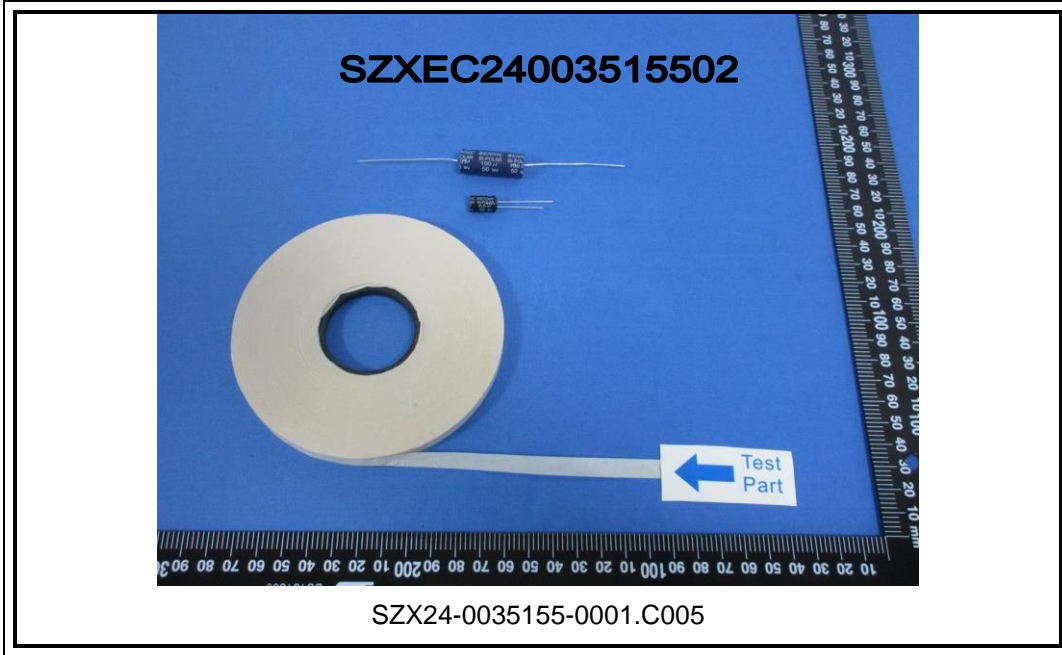
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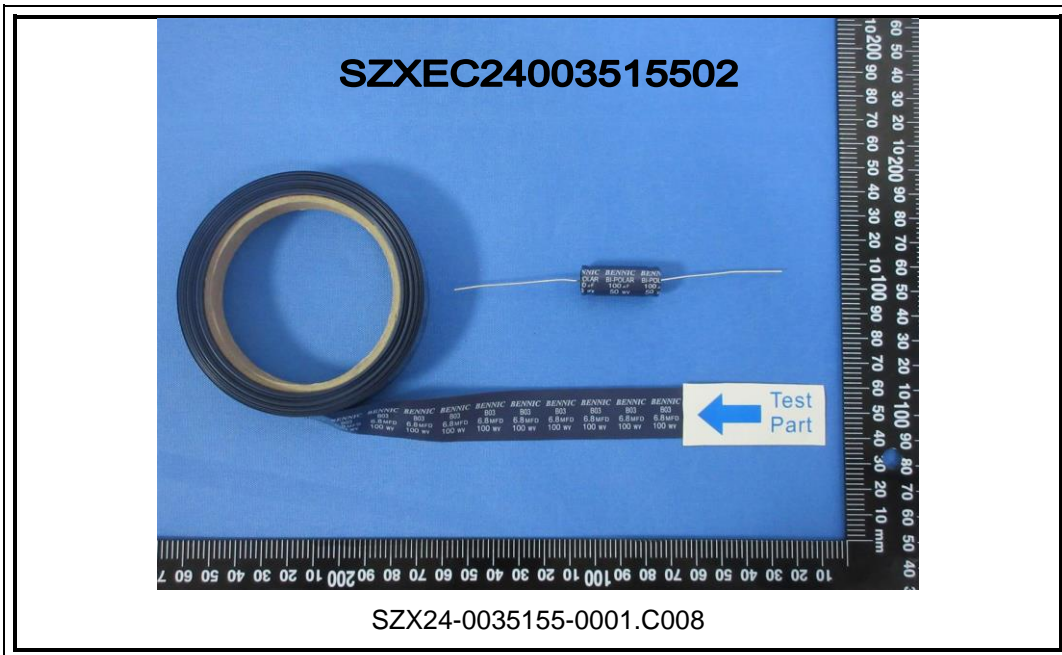
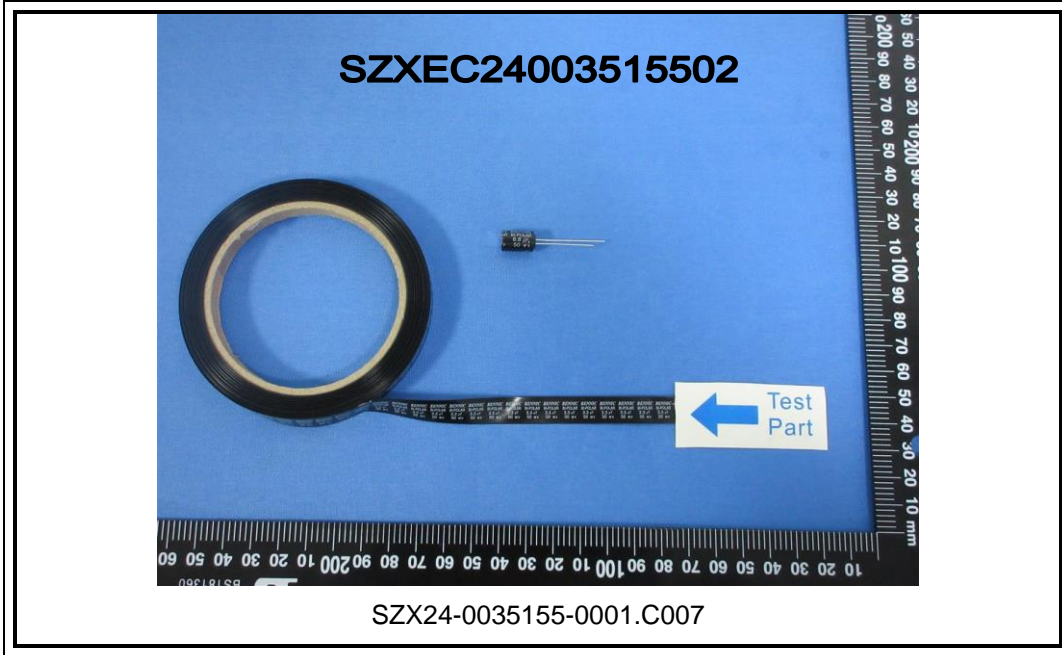


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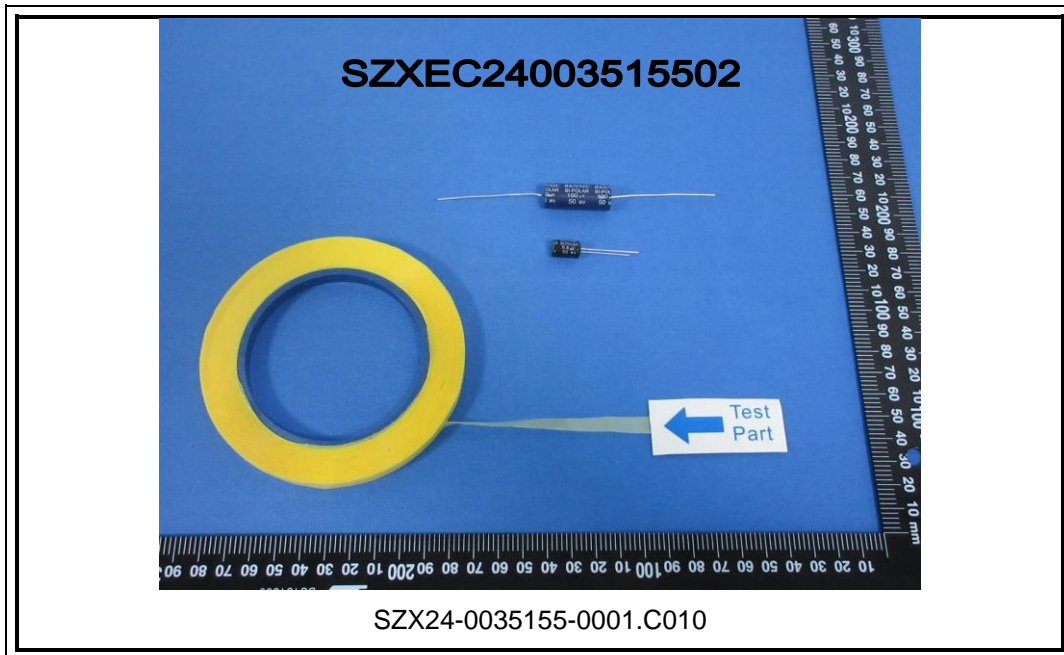
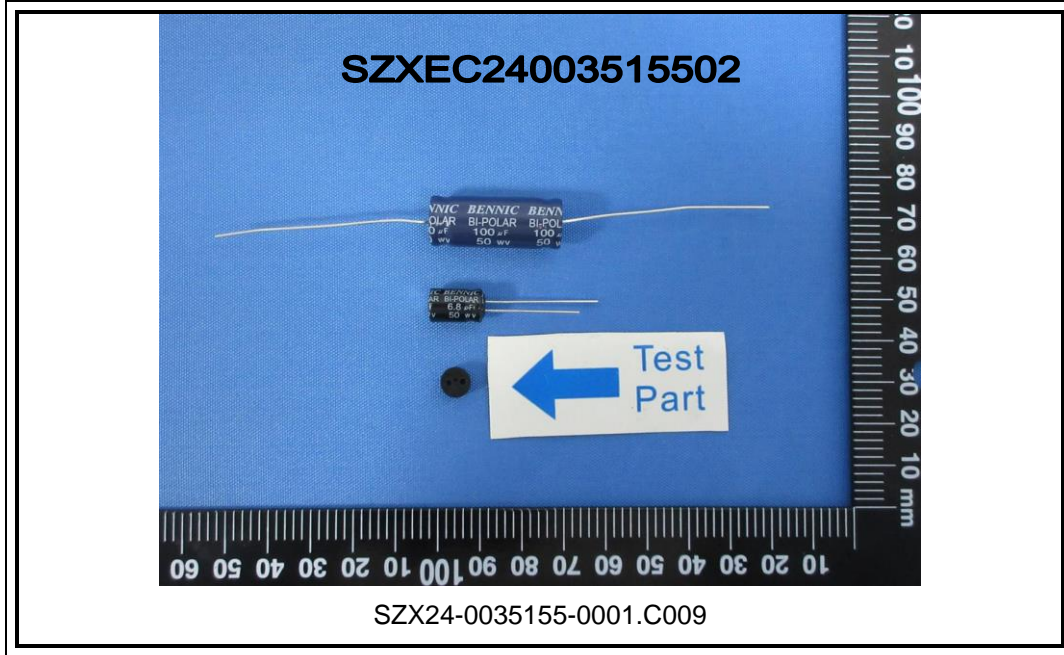
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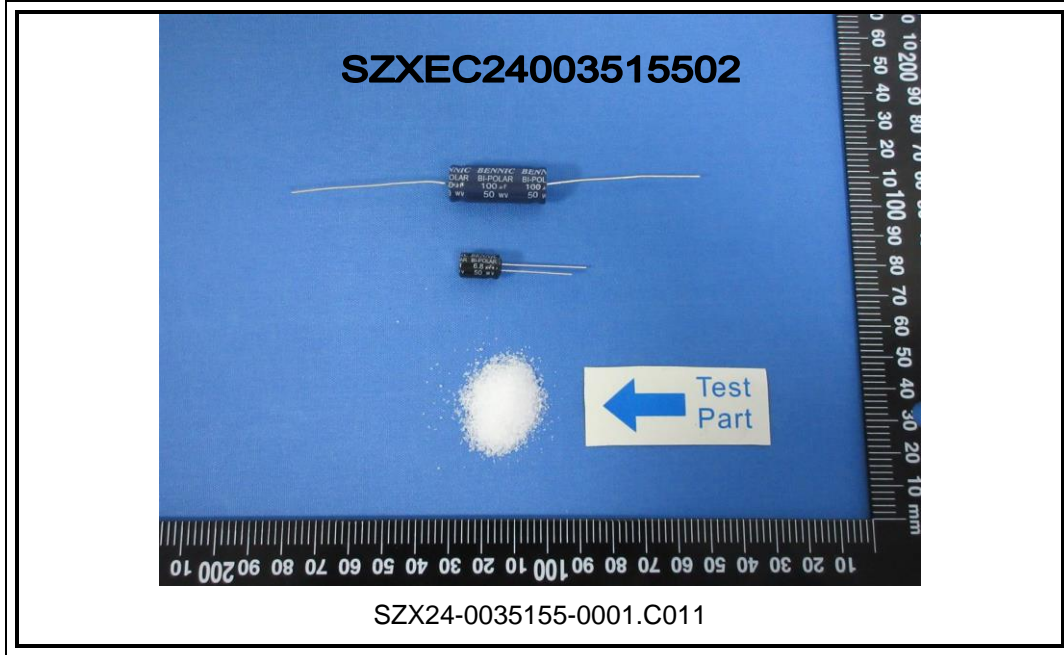


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