

## 检测报告

编号: CANEC23009889804

日期: 2023年09月22日

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客户名称: 广州市添鑫光电有限公司  
客户地址: 广州市花都区花东镇秀塘村金谷南路15号之一

样品名称: 陶瓷模顶封装 LED  
以上样品及信息由客户提供。

SGS 工作编号: GZP23-013561  
样品接收时间: 2023年09月13日  
检测周期: 2023年09月13日 ~ 2023年09月21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(PBBs)、多溴二苯醚(PBDEs)、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)	符合

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李嘉欣

Jessie-JX Li 李嘉欣  
批准签署人

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SGS-CS Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Services Co., Ltd. Chemical Laboratory.

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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

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	A7	CAN23-0098898-0001.C007	无色透明软物料
SN2	A8	CAN23-0098898-0001.C008	带银色金属表层, 芯片和彩点的白色片
SN3	A9	CAN23-0098898-0001.C009	无色透明软物料
SN4	A10	CAN23-0098898-0001.C010	带铜色表层, 芯片和彩点的浅灰色片

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(PBBs)、多溴二苯醚(PBDEs)、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)**

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, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A7	A8	A9
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))	1000	mg/kg	8	ND	ND	ND
多溴联苯之和(PBBs)	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
多溴二苯醚之和(PBDEs)	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



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检测项目	限值	单位	MDL	A7	A8	A9
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)	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	A10
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
多溴联苯之和(PBBs)	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(PBDEs)	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
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
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND



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## 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。

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。

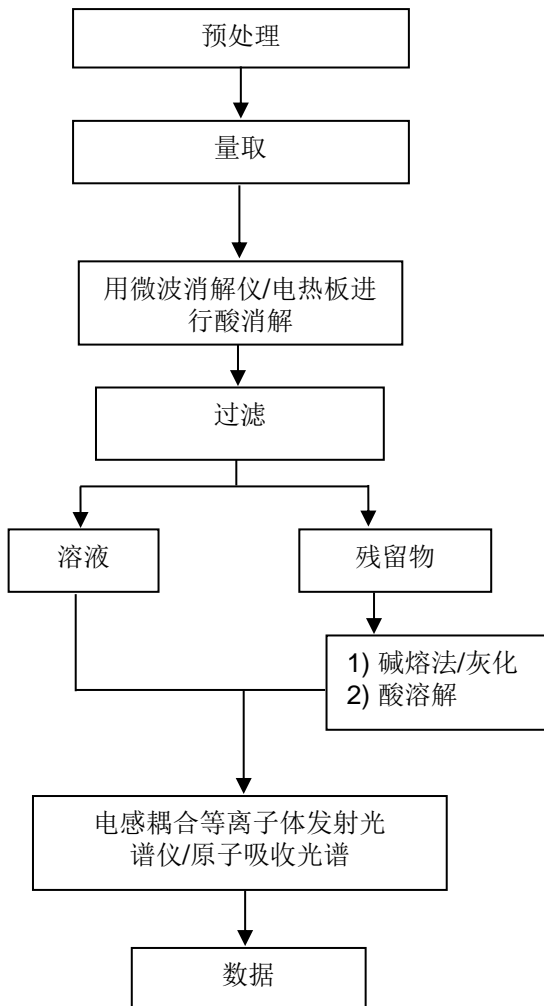
除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

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。

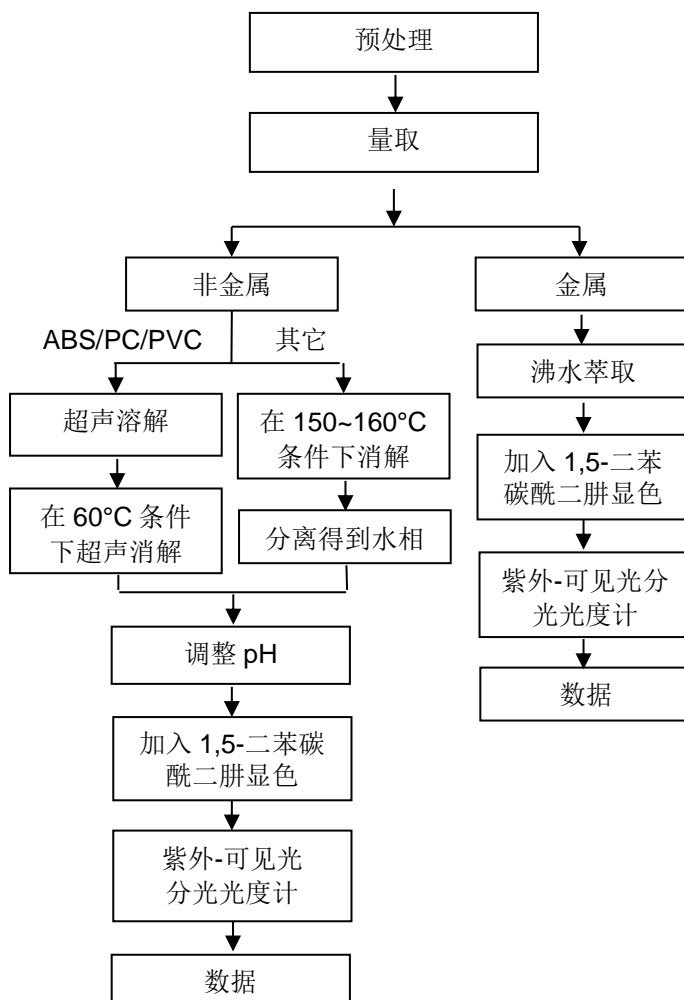


### 元素检测流程图

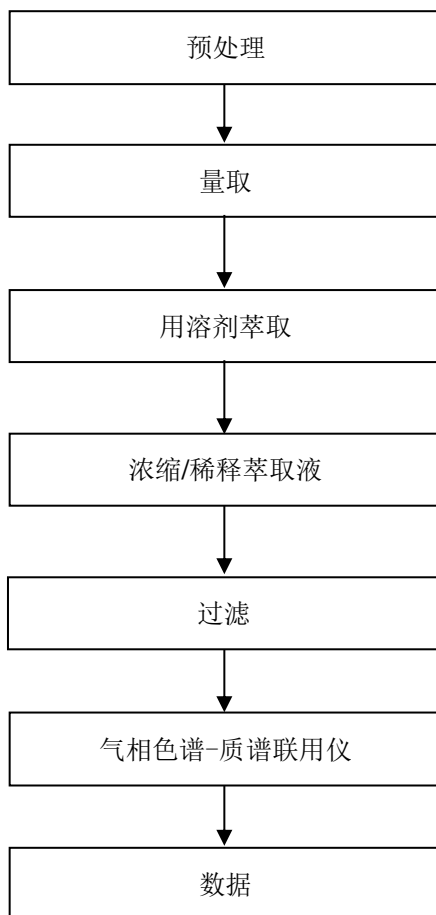
样品按照下述流程被完全消解



## 六价铬检测流程图



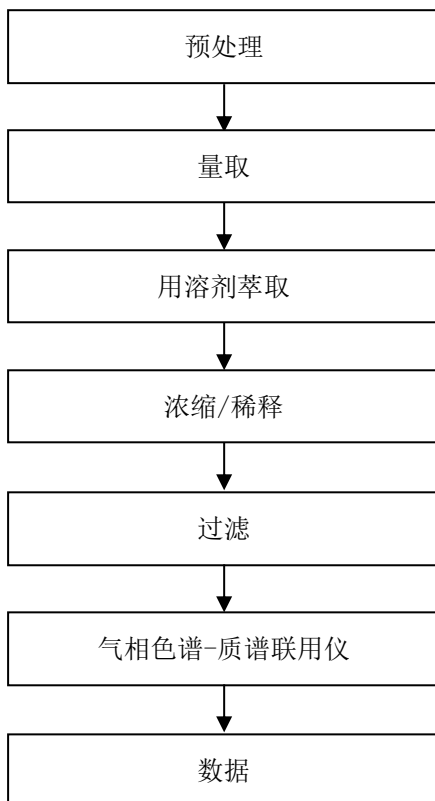
### PBBs/PBDEs 检测流程图



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### Phthalates 检测流程图





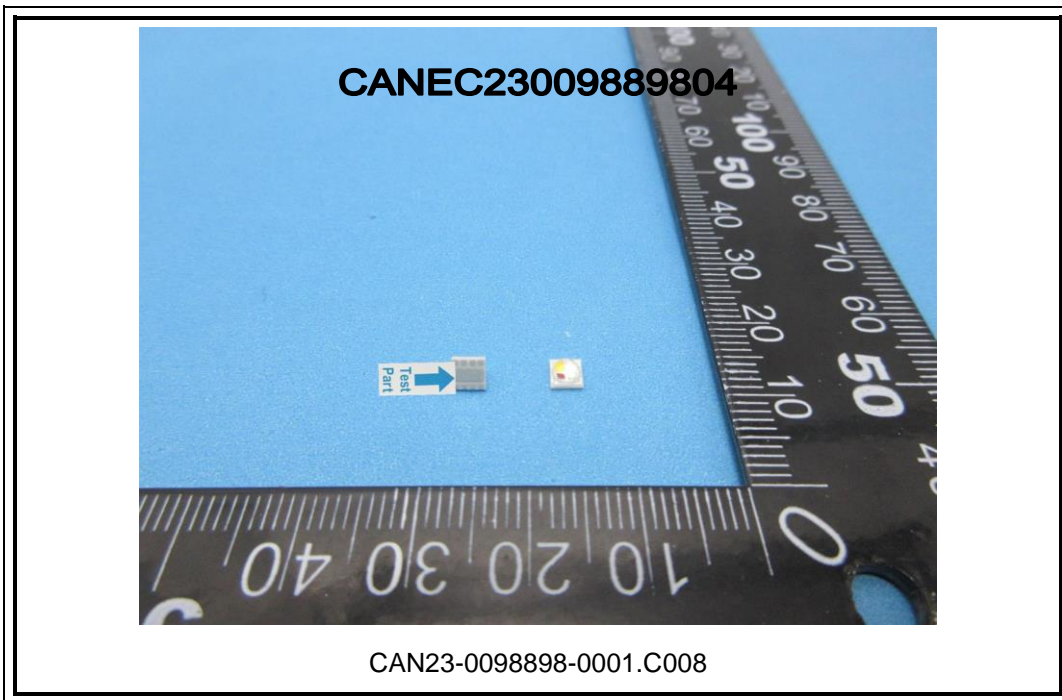
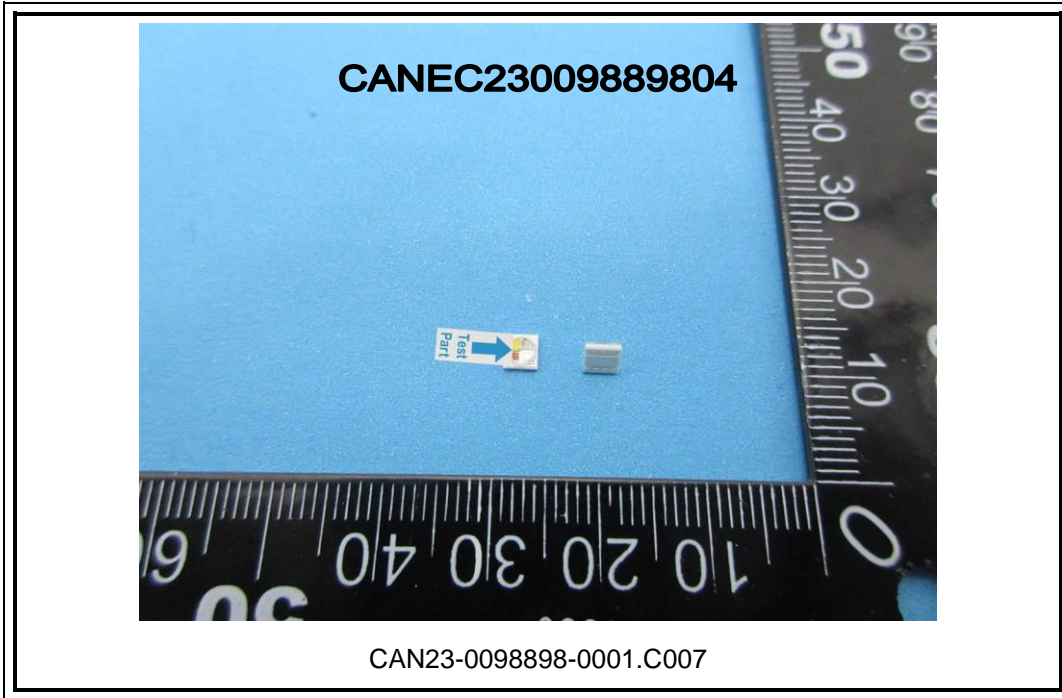
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样品照片:

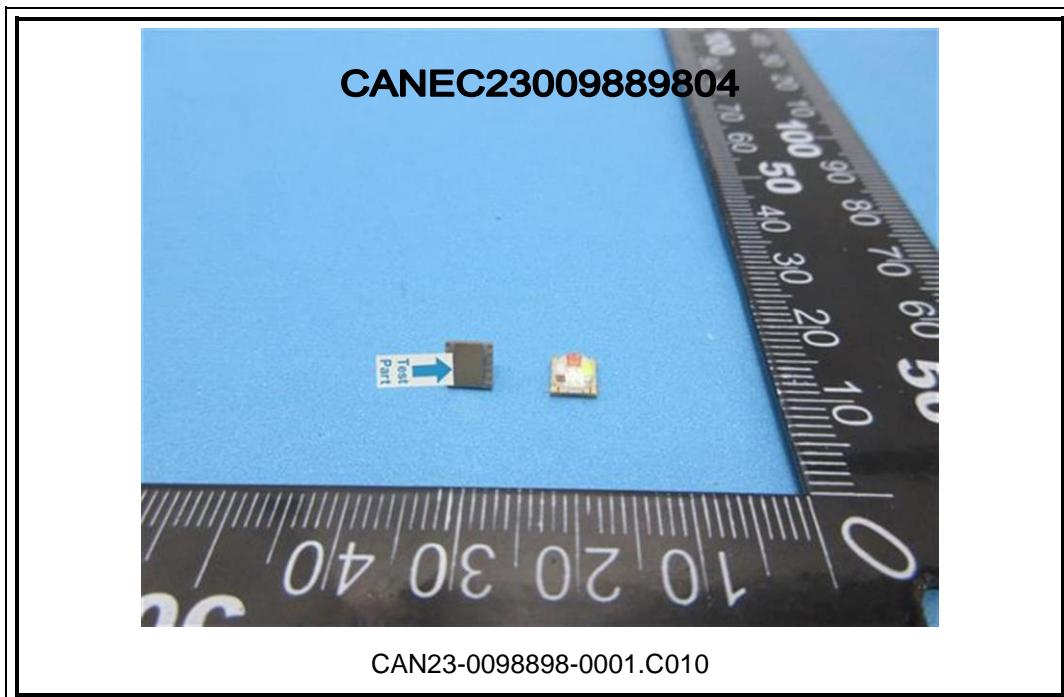
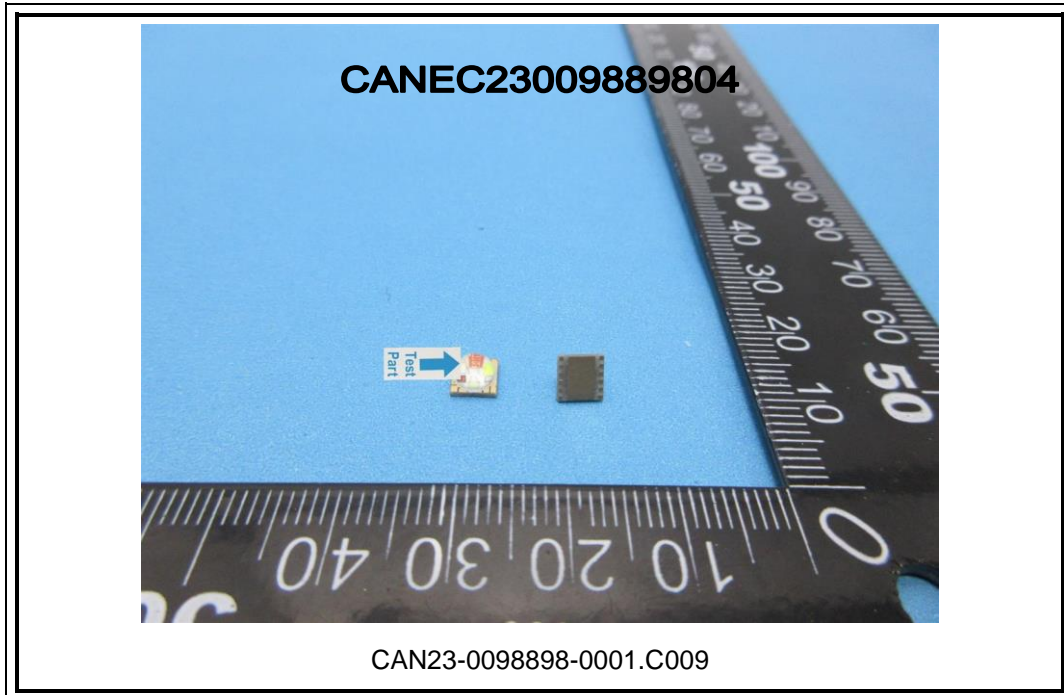


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