

## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第1页,共35页

广州致远电子有限公司

广州市天河区车陂路黄洲工业区7栋2楼

样品名称: USBCAN 接口卡  
 SGS工作编号: CP20-011067 - GZ  
 测试基本型号: USBCAN-E-D  
 样品接收日期: 2020年03月25日  
 验证周期: 2020年03月25日 - 2020年05月11日  
 验证要求: 参考欧盟RoHS指令2011/65/EU的修正指令(EU) 2015/863。  
 验证方法: 请参见后续页。  
 验证结果: 请参见后续页。  
 验证结论: 依据对所提供样品的相关验证, 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs) 和邻苯二甲酸酯(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修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司  
 授权签名

潘丽交

Letitia Pan潘丽交  
 批准签署人



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 Guangzhou Branch Testing Center Chemical Laboratory.

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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第2页,共35页

验证方法:

1. 参考IEC 62321-2:2013, 拆分申请者提供的成品。
2. 参考IEC 62321-1:2013, 仅对本报告照片中标识的样品进行了下列测试分析。
  - (1) 参考IEC 62321-3-1: 2013, 用能量色散型X射线荧光分析仪器进行筛选
  - (2) 湿法化学测试方法
    - a. 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
    - b. 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量
    - c. 参考IEC 62321-4:2013+A1:2017, 用ICP-OES测定汞的含量
    - d. 参考IEC 62321-7-1:2015, IEC 62321-7-2:2017 和ISO 17075-1:2017, 用紫外-可见分光光度计比色法测定六价铬的含量
    - e. 参考IEC 62321-6:2015, 用GC-MS测定多溴联苯和多溴二苯醚的含量
3. 参考IEC 62321-8:2017, 用GC-MS测定邻苯二甲酸酯的含量



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# 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第3页,共35页

根据物料风险评估的结果, 验证送测样品中的以下材料。

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
1	带黑色印字的白色粘性塑料片	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- ND ND ND ND	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
2	带白色印字的银色金属壳	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	25 Mar 2020
3	银色金属螺丝	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	25 Mar 2020



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# 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第4页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
4	带黑色印字和灰色表面的塑料盖	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
5	绿色塑料件	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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# 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第5页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
6	银色金属脚	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
7	银色金属片	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
8	银色金属螺丝	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第6页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
9	银色金属件	Pb	OL	---	21774▲	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
10	黑色塑料壳	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第7页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
11	银色金属件	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	25 Mar 2020
12	银色金属片	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL IN --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- ND --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	25 Mar 2020
13	银色金属件	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	25 Mar 2020



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No. CANEC2003735802

日期: 2020年05月11日 第8页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
14	银色金属框	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
15	银色金属脚	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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No. CANEC2003735802

日期: 2020年05月11日 第9页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
16	米色塑料件	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- ND ND ND ND ND ND	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
17	白色半透明本体(LED)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- ND ND ND ND ND ND	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
18	黑色塑料按钮	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	25 Mar 2020



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第10页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
19	银色金属片	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
20	黑色塑料件	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第11页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
21	银色金属片	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	25 Mar 2020
22	带白色印字的黑色塑料壳	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- ND ND ND ND	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
23	黑色橡胶盖	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ND	符合 符合 符合 符合 符合 符合 符合	25 Mar 2020



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第12页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
24	带白色印字的黑色塑料壳	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
25	带黑色印字的米色塑料壳	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第13页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
26	绿色"PCB"	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- ND ND ND ND ND ND	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
27	黑色块状物(封装物)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
28	黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL IN IN ---	--- --- --- --- --- --- ---	--- --- --- --- ND ND ND	符合 符合 符合 符合 符合 符合 符合	25 Mar 2020



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第14页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
29	黑色本体	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	---	ND	符合	
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
30	带白色印字的黑色本体	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第15页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
31	黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
32	带白色印字的黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
33	带白色印字的黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	25 Mar 2020



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第16页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
34	黑色本体	Pb	OL▲	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	---	ND	符合	
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
35	黄色本体	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第17页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
36	黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	OL▲ BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
37	黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	OL▲ BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- ND ND ND ND ND ND	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
38	黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	OL▲ BL BL BL BL BL ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ND	符合 符合 符合 符合 符合 符合 符合	25 Mar 2020



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第18页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
39	黑色本体	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	---	ND	符合	
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
40	带白色印字的深蓝色塑料壳	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	IN	---	ND	符合	
		PBDEs	IN	---	ND	符合	
		DBP	---	---	ND	符合	
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第19页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
41	铜色金属脚	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	25 Mar 2020
42	浅金色金属片	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	25 Mar 2020
43	银色金属片	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	25 Mar 2020



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第20页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
44	黑色塑料件	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	IN	---	ND	符合	
		PBDEs	IN	---	ND	符合	
		DBP	---	---	ND	符合	
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
45	银色金属焊锡	Pb	BL	---	---	符合	25 Mar 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第21页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
46	绿色"PCB"	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL IN IN --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- ND ND ND ND ND ND	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	25 Mar 2020
47	银色金属脚	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	25 Mar 2020
48	带彩色印字的蓝色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ND	符合 符合 符合 符合 符合 符合 符合	25 Mar 2020



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第22页,共35页

样品编号	样品描述	限用物质	EDXRF 测试结果(1)	PHTH筛分结果(2)	化学测试结果(3) (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	



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## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第23页,共35页

### 备注

(1) (a) 对于限用物质是 PBBs 和 PBDEs, 其结果显示的是总 Br 含量; 限用物质是 Cr(VI), 其结果显示的是总 Cr 含量。

(b) EDXRF 所得的测试结果只作初步筛选, 如果 EDXRF 结果超出 IEC62321-3-1:2013 所规定的警戒范围, 我们建议客户用更精确的化学测试方法测试样品, 如用 ICP-OES 测试 Cd, Pb, Hg; 用 UV-Vis 测试 Cr(VI); 用 GC-MS 测试 PBBs 和 PBDEs (单位: mg/kg)。

元素	聚合物	金属	复合材料
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pd	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = 低于限度, OL = 超出限度, IN = 不确定, LOD = 检测限, -- = 未规定。

(d) 对于复合材料, XRF 筛选测试 RoHS 元素所得数据可能与样品中实际含量不同。

(2) PHTH 筛分结果只作初步筛选, 如果测试结果超出下表所规定的警戒范围, 我们采用更精确的化学测试方法测试样品, 用 GC-MS 测试 DBP、BBP、DEHP 和 DIBP (单位: mg/kg)。

化合物	聚合物
DBP	$BL \leq 600 < X$
BBP	$BL \leq 600 < X$
DEHP	$BL \leq 600 < X$
DIBP	$BL \leq 600 < X$

(3) (a) mg/kg = 0.0001%, MDL=方法检测限, ND =未检出(低于 MDL), --- =未检测, - = 无清单编号。

(b) 化学测试方法的表达单位和方法检测限

测试项目	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
单位	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
方法检测限	10	10	10	100	100	100	100

任何一种 PBBs 和 PBDEs 的方法检测限是 100 mg/kg;

聚合物, 复合材料和皮革样品中 Cr(VI)的方法检测限是 10 mg/kg。

金属样品中 Cr(VI)的方法检测限是 0.10µg/cm²。



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(c) ▼ = 金属样品中

- a. 当六价铬的浓度高于  $0.13 \mu\text{g}/\text{cm}^2$  时, 样品为阳性, 即含有六价铬;
- b. 当六价铬的浓度为 ND(低于  $0.10 \mu\text{g}/\text{cm}^2$ ) 时, 样品为阴性, 即未检测到六价铬;
- c. 当六价铬的浓度介于  $0.10 \mu\text{g}/\text{cm}^2$  与  $0.13 \mu\text{g}/\text{cm}^2$  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。

(4) RoHS 指令中限制物质及均质材料中最大允许浓度值: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%, 限值引用自 RoHS 指令(EU) 2015/863。

IEC 62321 系列等同于 EN 62321 系列

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(5) ▲= 根据客户提供的声明, 编号34, 编号36, 编号37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 7(c)-II]: 电子电气元件中玻璃或陶瓷材料(电容中陶瓷介质除外)所含的铅, 如压电设备、玻璃或陶瓷基复合元件。

编号38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 7(a)]: 高熔点型焊料中的铅(如铅含量等于或大于85%的铅基合金焊料)。

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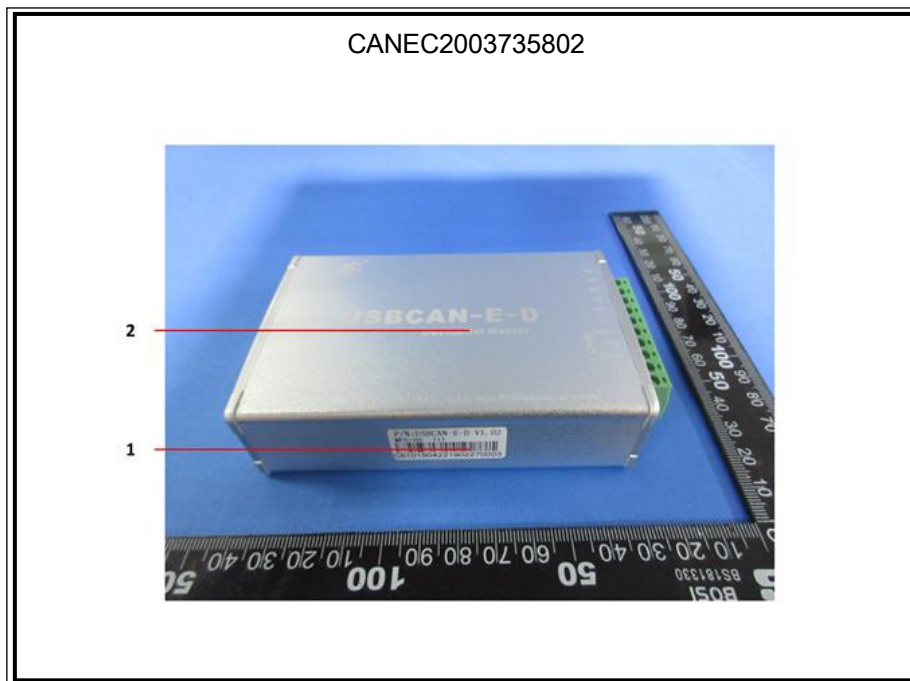


## 验证报告

No. CANEC2003735802

日期: 2020年05月11日 第25页,共35页

样品照片:



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198 Kazhu Road, Sciotech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgs.com.cn  
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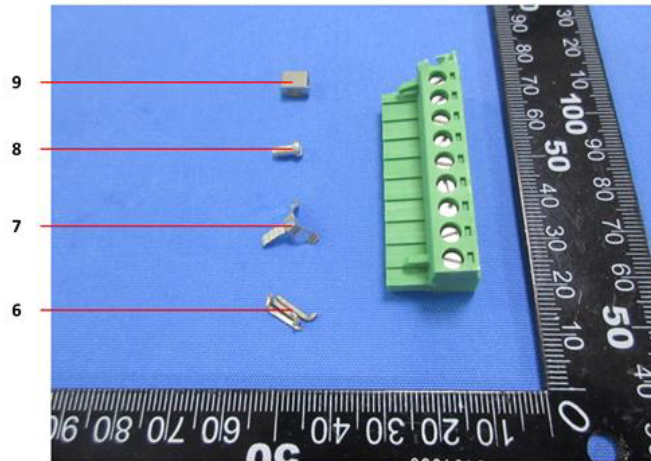


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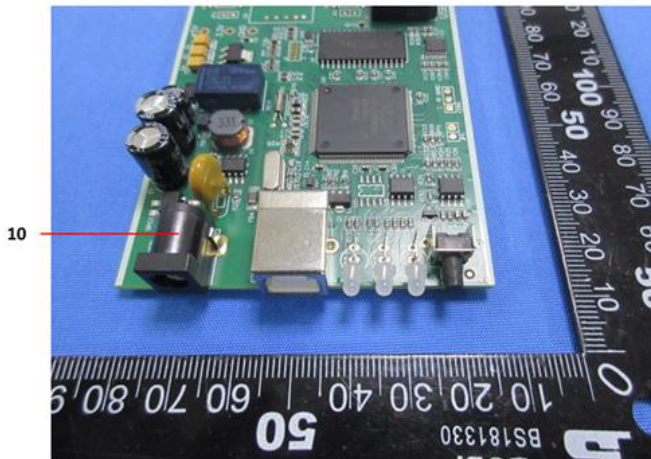




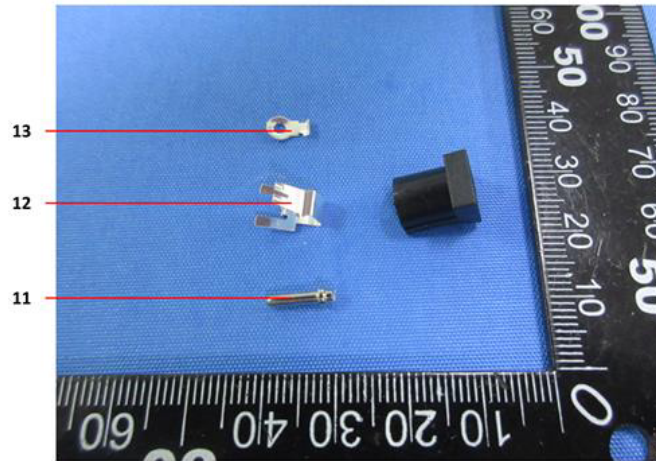
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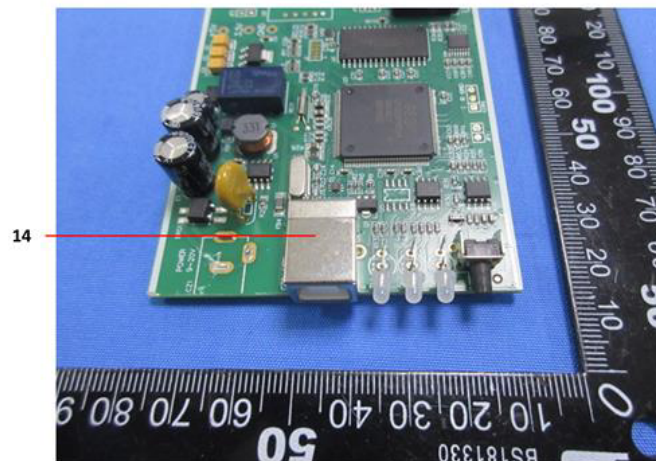
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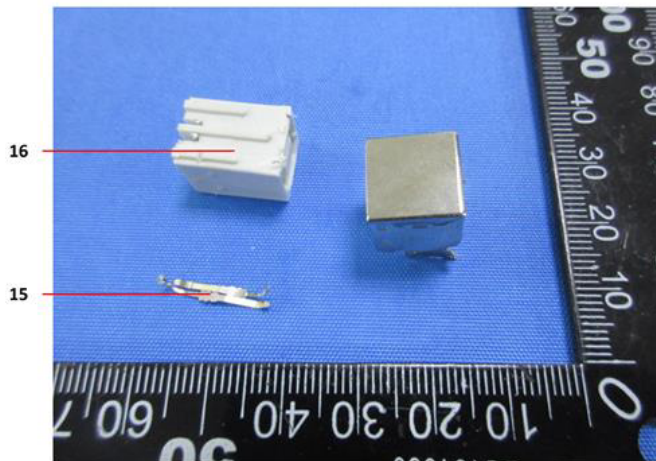


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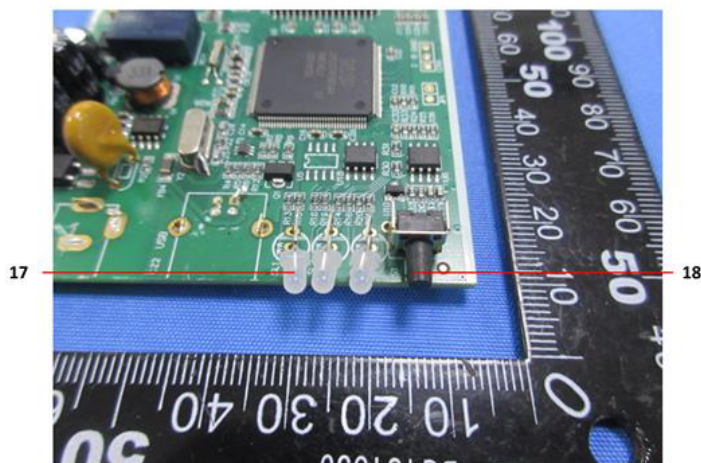




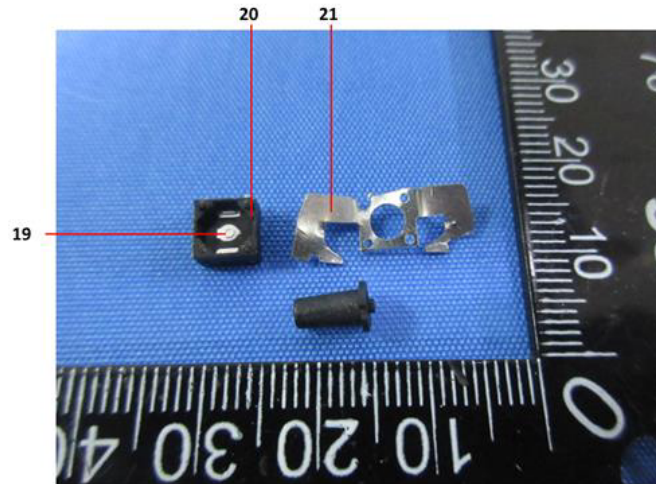
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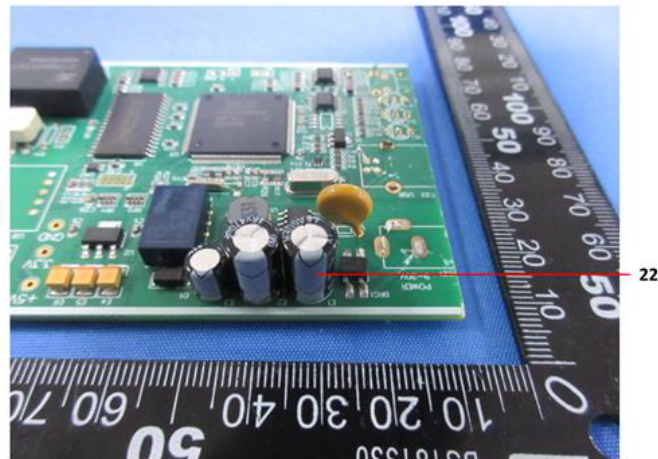
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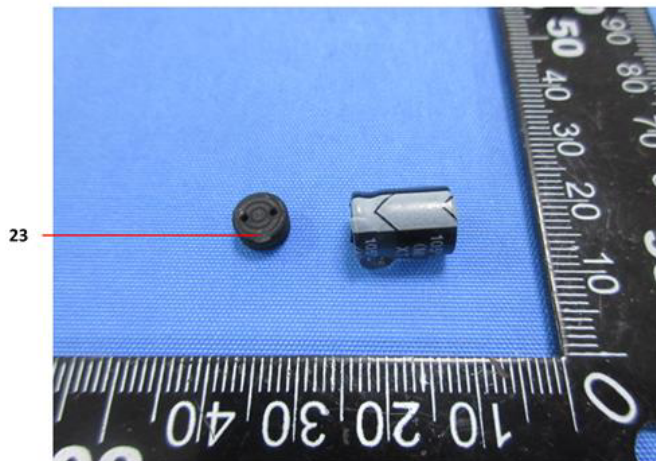


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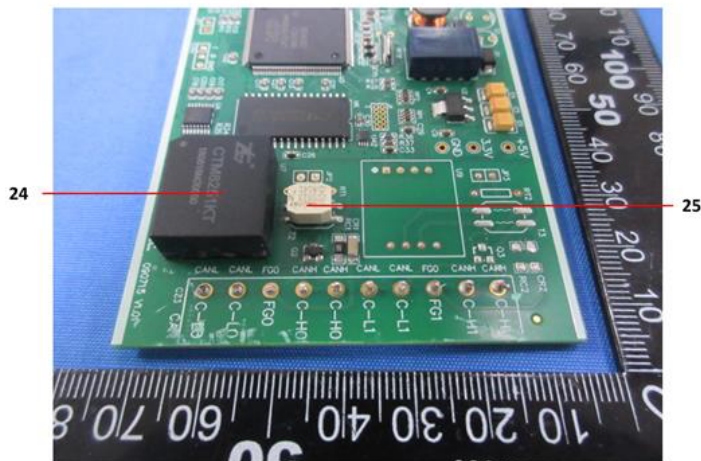




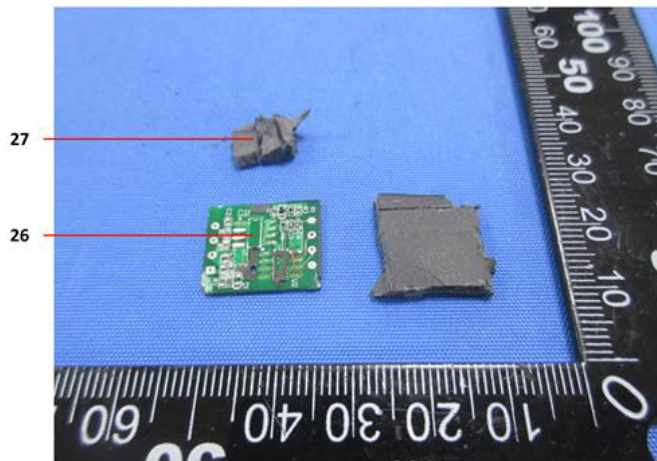
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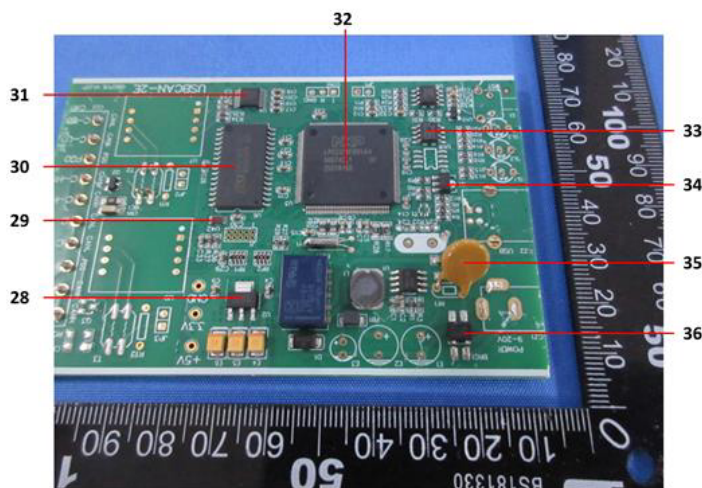
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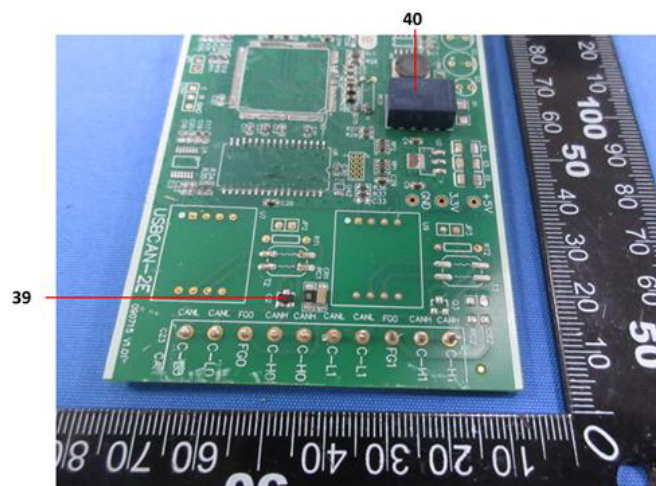




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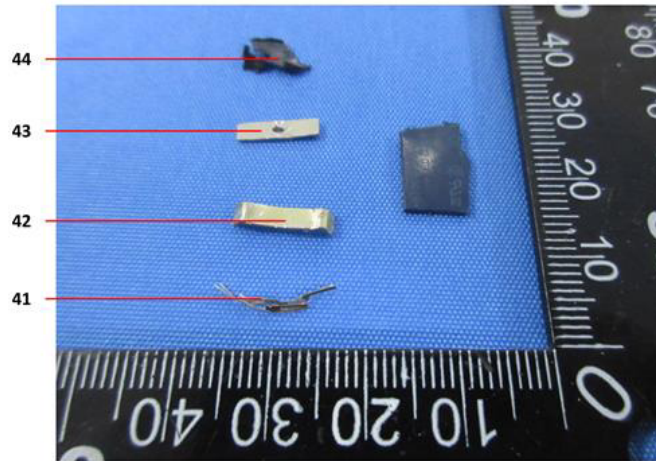


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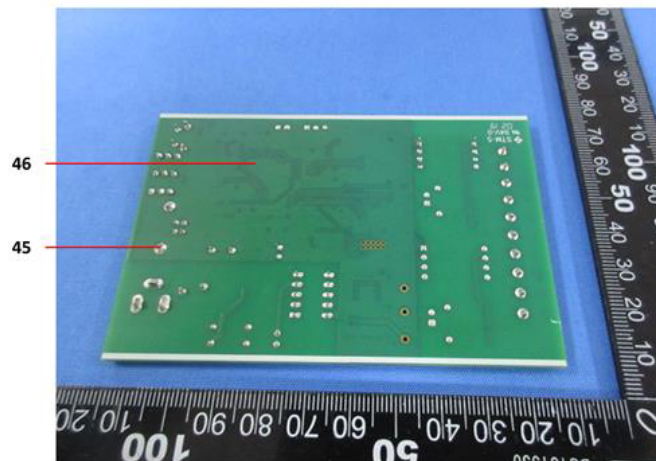


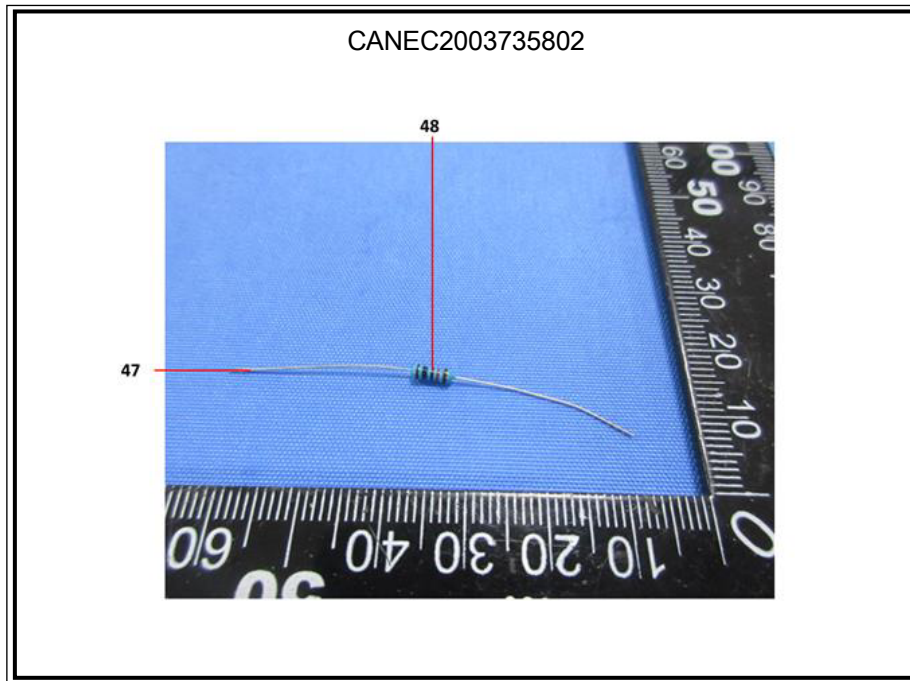


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