

## 验证报告

No. CANEC2000630204

日期: 2020年03月31日 第1页,共39页

广州致远电子有限公司

中国广州市天河区车陂路黄洲工业区7栋2楼

此报告替代原来编号为CANEC2000630202日期为2020年03月12日的验证报告。

样品名称: USBCAN 接口卡  
SGS工作编号: CP20-001372 - GZ  
测试基本型号: USBCAN-2E-U  
样品接收日期: 2020年01月10日  
验证周期: 2020年01月10日 - 2020年03月12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。

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授权签名

Jenny Liao 廖江玲  
批准签署人



## 验证报告

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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格的含量
    - 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



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	10 Jan 2020
2	带银色表面的塑料壳	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	10 Jan 2020
3	银色金属壳	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	10 Jan 2020



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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	银色金属螺丝	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
5	棕色本体	Pb	BL	---	---	符合	10 Jan 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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6	黑色本体	Pb	OL▲	---	---	符合	10 Jan 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	
7	棕色本体	Pb	BL	---	---	符合	10 Jan 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	
8	黑色本体	Pb	OL▲	---	---	符合	10 Jan 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	



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		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
9	黑色本体	Pb	BL	---	---	符合	10 Jan 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	
10	黑色本体	Pb	BL	---	---	符合	10 Jan 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	



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11	黑色本体	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	10 Jan 2020
12	米色塑料壳	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	10 Jan 2020
13	黑色本体	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	10 Jan 2020



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		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
14	黑色本体	Pb	BL	---	---	符合	10 Jan 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	
15	黑色本体	Pb	BL	---	---	符合	10 Jan 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	





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16	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	10 Jan 2020
17	黑色本体	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	10 Jan 2020
18	黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	OL▲ BL BL BL IN IN ---	--- --- --- --- --- --- ---	--- --- --- --- ND ND ND	符合 符合 符合 符合 符合 符合 符合	10 Jan 2020



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		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
19	黑色塑料插槽	Pb	BL	---	---	符合	10 Jan 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	
20	银色金属片	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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21	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 --- --- --- --- --- ---	10 Jan 2020
22	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 --- --- --- --- --- ---	10 Jan 2020
23	银色金属框	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	10 Jan 2020



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		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
24	带白色印字的黑色塑料壳	Pb	BL	---	---	符合	10 Jan 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	深蓝色塑料壳	Pb	BL	---	---	符合	10 Jan 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	



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	黑色塑料壳	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	10 Jan 2020
27	绿色塑料件	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	10 Jan 2020
28	黑色塑料件	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	10 Jan 2020



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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	
29	银色金属脚	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
30	白色塑料插槽	Pb	BL	---	---	符合	10 Jan 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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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	黑色橡胶盖	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	10 Jan 2020
32	铜色/金色金属脚	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	10 Jan 2020
33	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 --- --- ---	10 Jan 2020



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		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
34	银色金属片	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
35	黑色塑料件	Pb	BL	---	---	符合	10 Jan 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	





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	银色金属焊锡	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
37	绿色"PCB"	Pb	BL	---	---	符合	10 Jan 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	
38	黑色块状物(包封物)	Pb	BL	---	---	符合	10 Jan 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	



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		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
39	银色金属脚	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
40	银色金属脚	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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	银色金属件	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	OL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	19670▲ --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	10 Jan 2020
42	银色金属螺丝	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	10 Jan 2020
43	银色金属脚	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	10 Jan 2020



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		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
44	黑色塑料件	Pb	BL	---	---	符合	10 Jan 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	
45	银色金属框	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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46	银色金属件	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
47	黑色塑料件	Pb	BL	---	---	符合	10 Jan 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	
48	金色金属脚	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
49	黑色塑料件	Pb	BL	---	---	符合	10 Jan 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	
50	银色金属焊锡	Pb	BL	---	---	符合	10 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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51	绿色"PCB"	Pb	BL	---	---	符合	10 Jan 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	
52	带银色表面的塑料壳	Pb	BL	---	---	符合	19 Jan 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	
53	带黑色印字和银色表面的塑料壳	Pb	BL	---	---	符合	19 Jan 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	



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		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
54	蓝色本体	Pb	BL	---	---	符合	19 Jan 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	
55	黑色本体	Pb	BL	---	---	符合	19 Jan 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	



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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
56	黑色本体	Pb	OL▲	---	---	符合	19 Jan 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	
57	黑色本体	Pb	OL▲	---	---	符合	19 Jan 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	
58	绿色"PCB"	Pb	BL	---	---	符合	19 Jan 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	



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		BBP	---	---	ND	符合	
		DEHP	---	---	ND	符合	
		DIBP	---	---	ND	符合	
59	银色金属脚	Pb	BL	---	---	符合	19 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
60	黑色塑料件	Pb	BL	---	---	符合	19 Jan 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	



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
61	金色金属脚	Pb	BL	---	---	符合	19 Jan 2020
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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 ≤(70-3σ)< X <(130+3σ)≤OL	BL ≤(70-3σ)< X <(130+3σ)≤OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X	--	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< 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 ≤ 600< X
BBP	BL ≤ 600< X
DEHP	BL ≤ 600< X
DIBP	BL ≤ 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/cm<sup>2</sup>。

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

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](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

(4)▲= 根据客户提供的声明,

编号6, 编号8, 编号18, 编号56, 编号57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)-I]: 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。

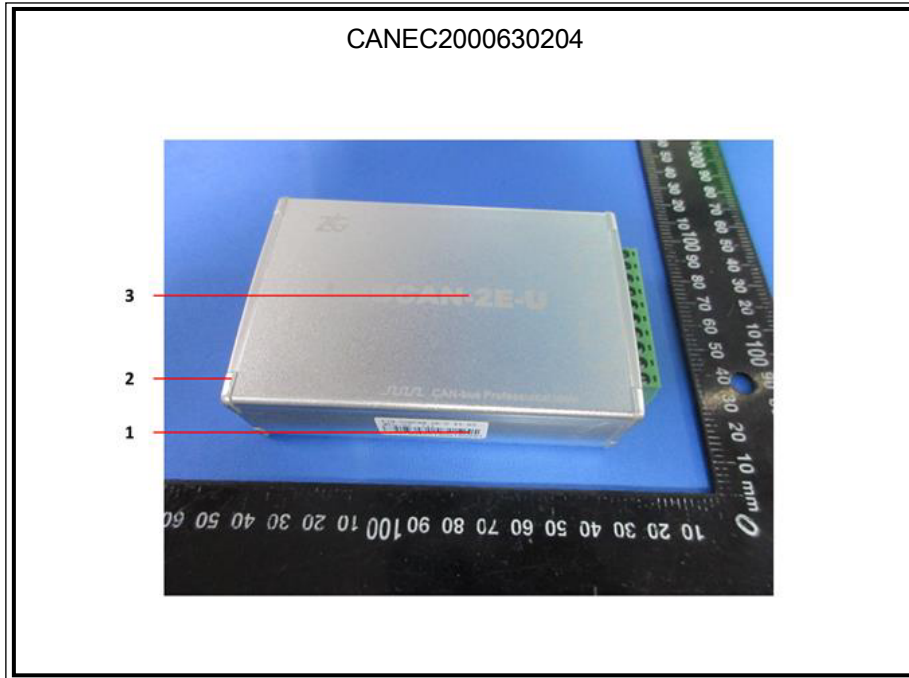
编号41中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 6(c)]: 铜合金中的铅含量不得超过4%。

本报告更新了客户参考信息。

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 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。



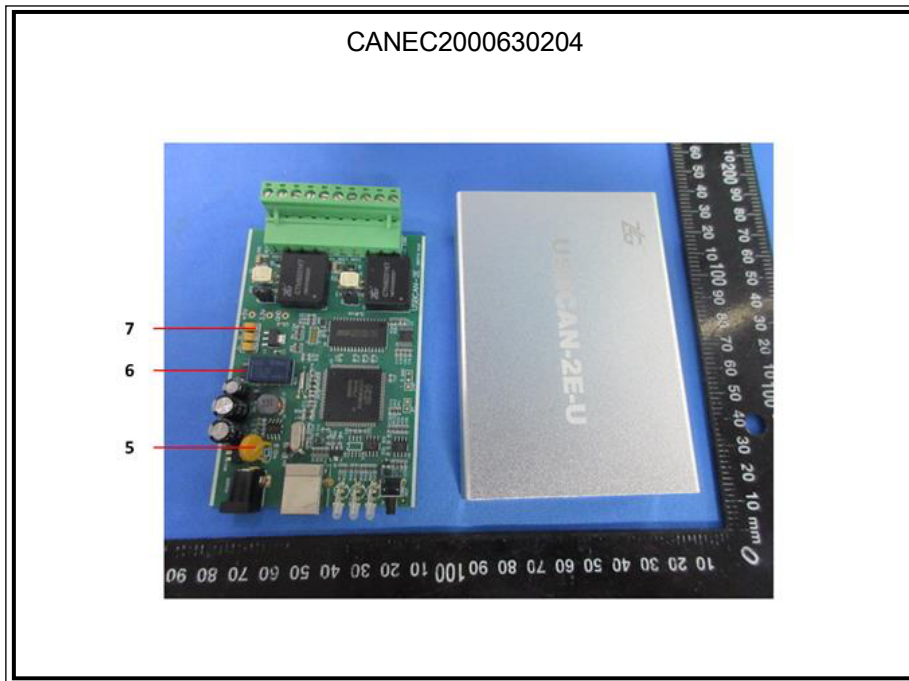
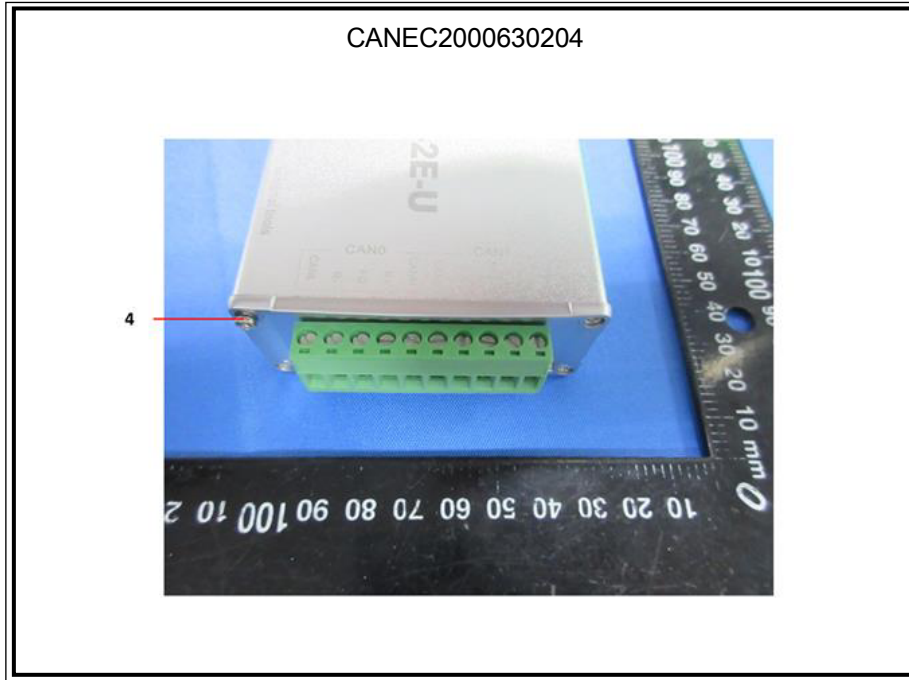
样品照片:



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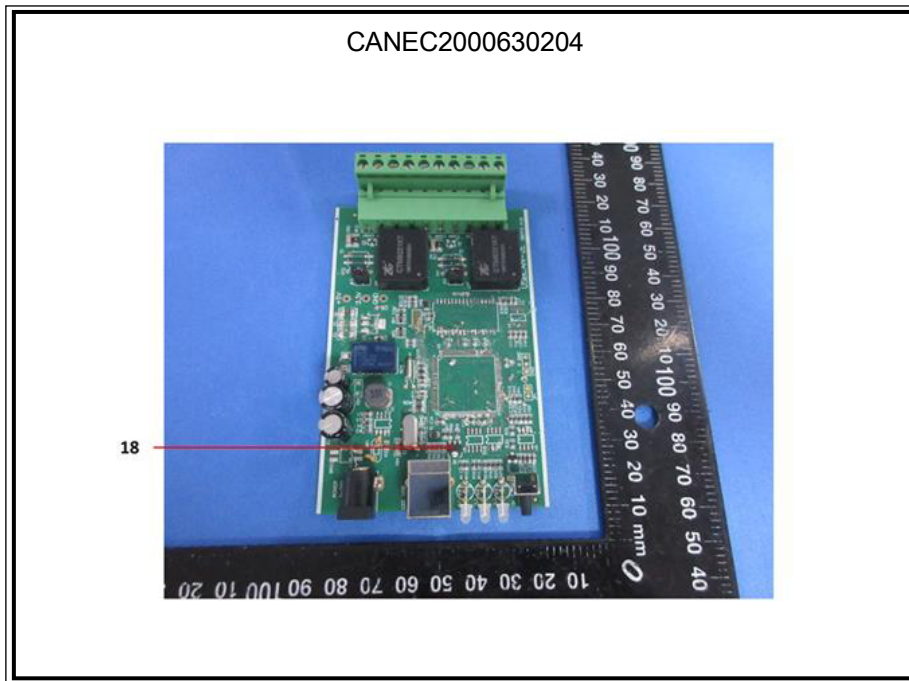
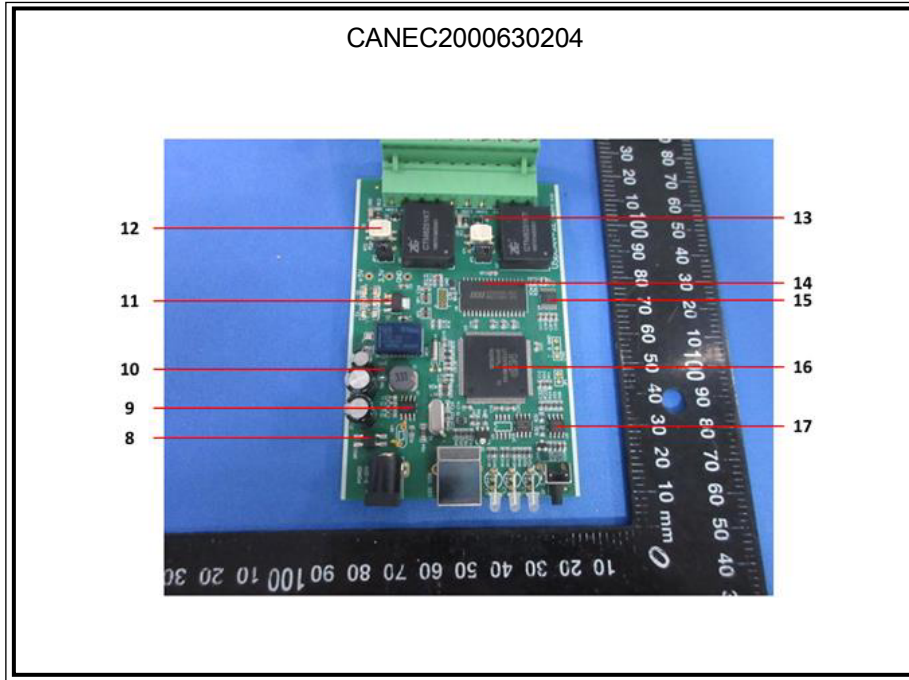




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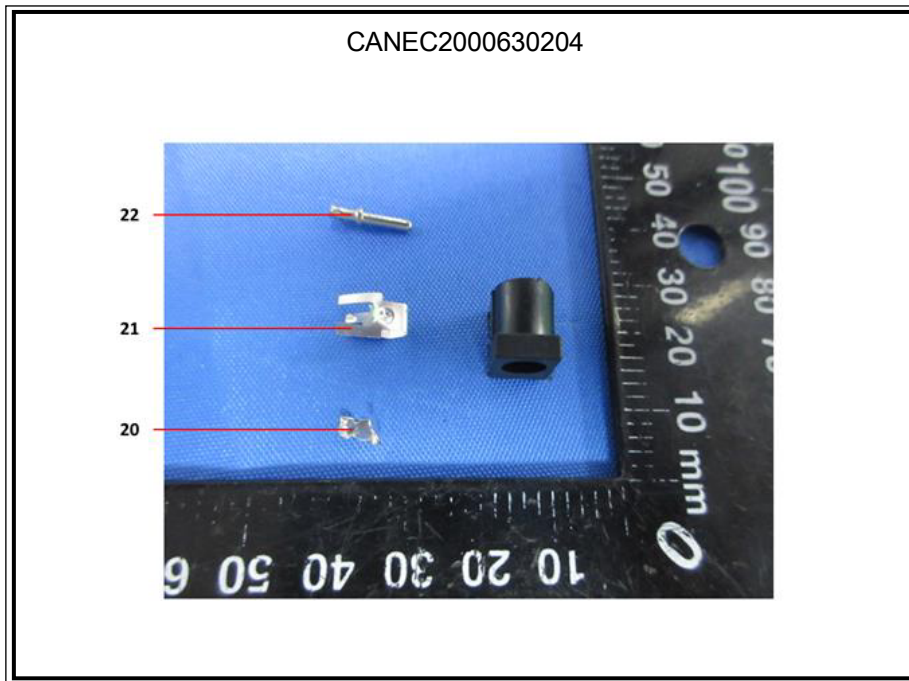
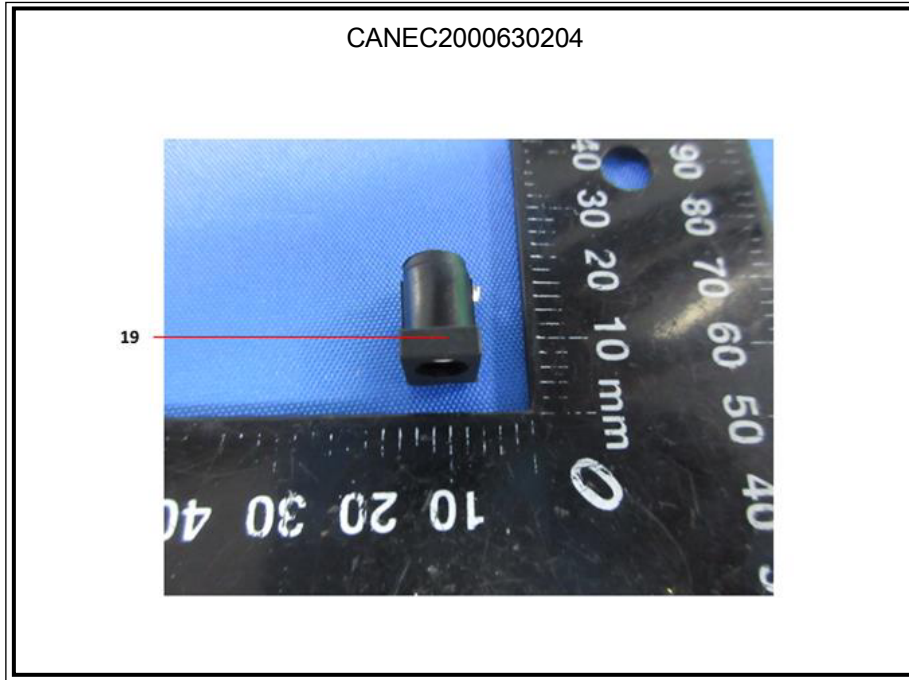




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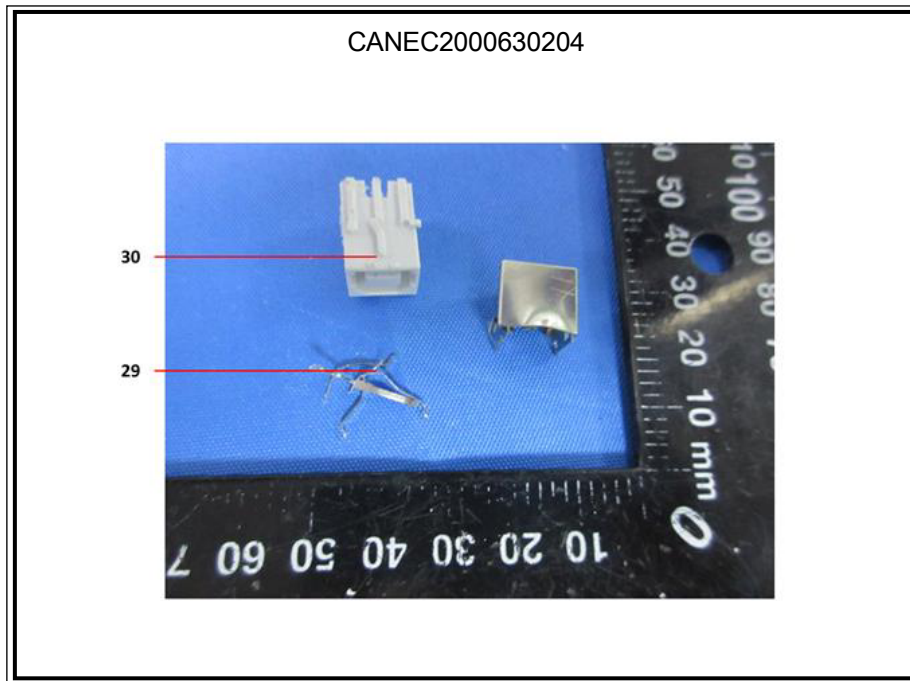
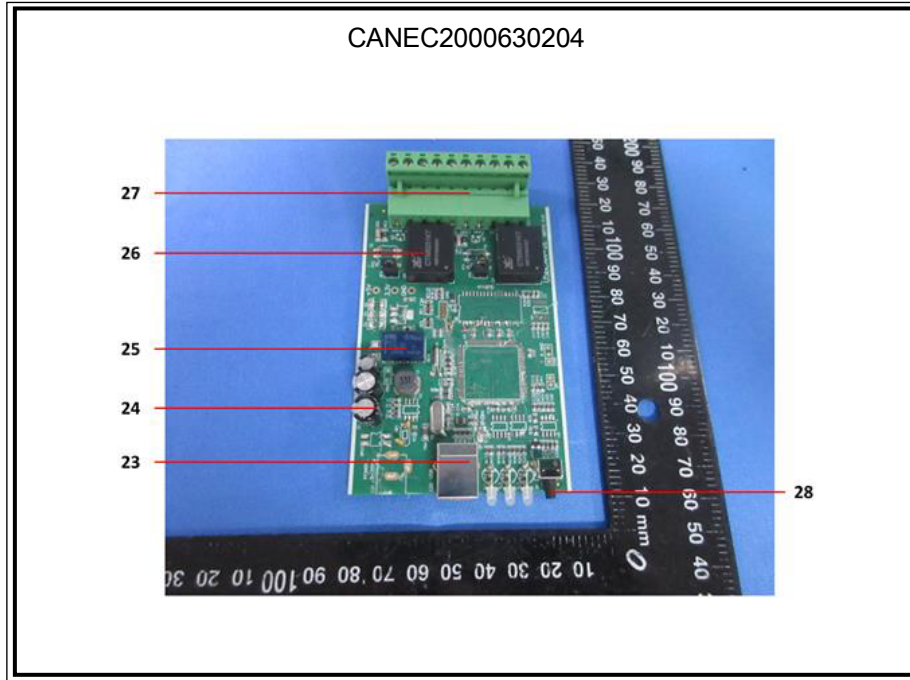




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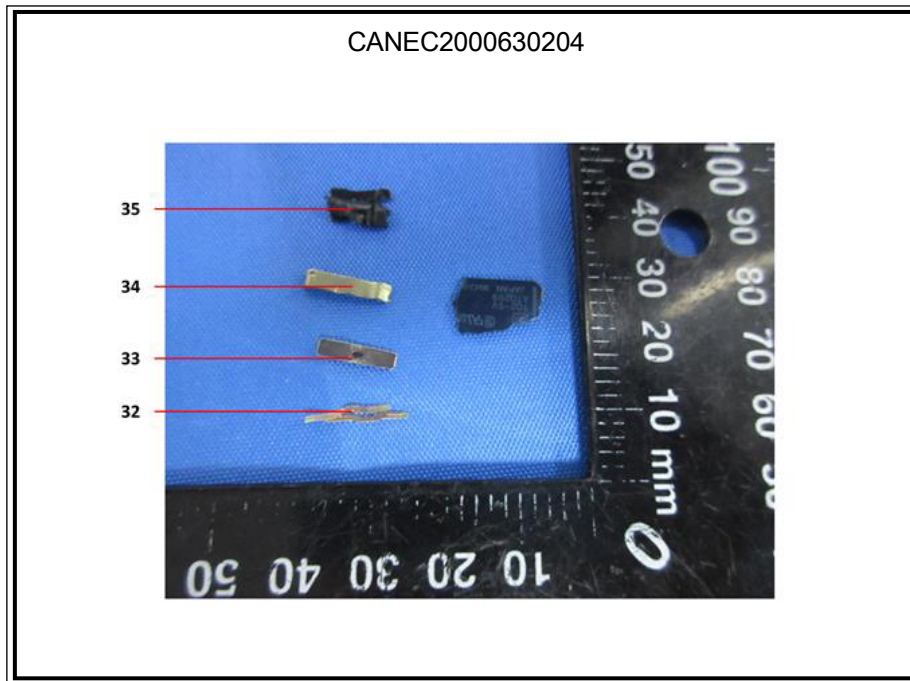
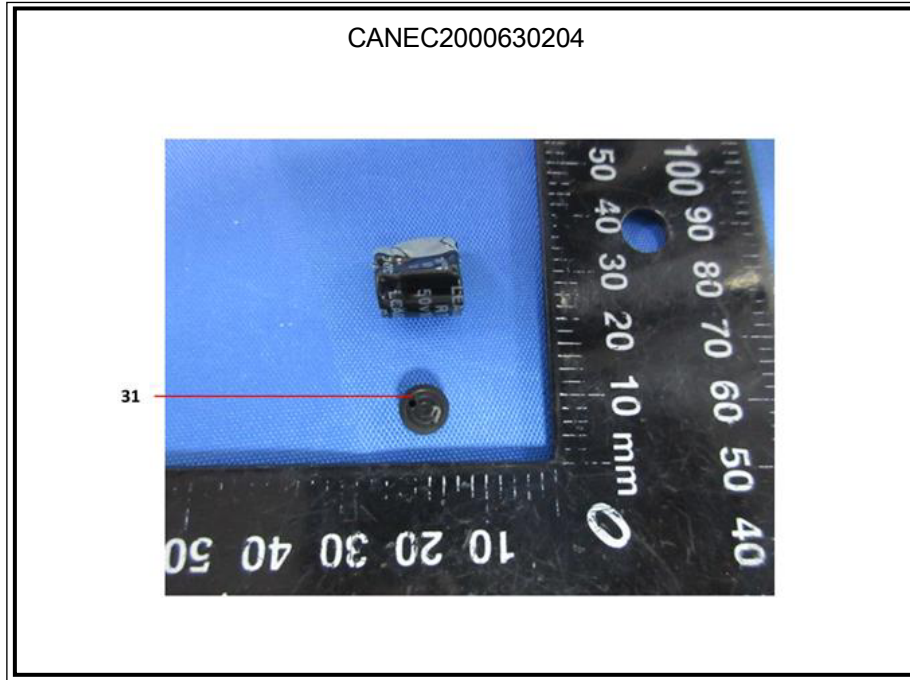




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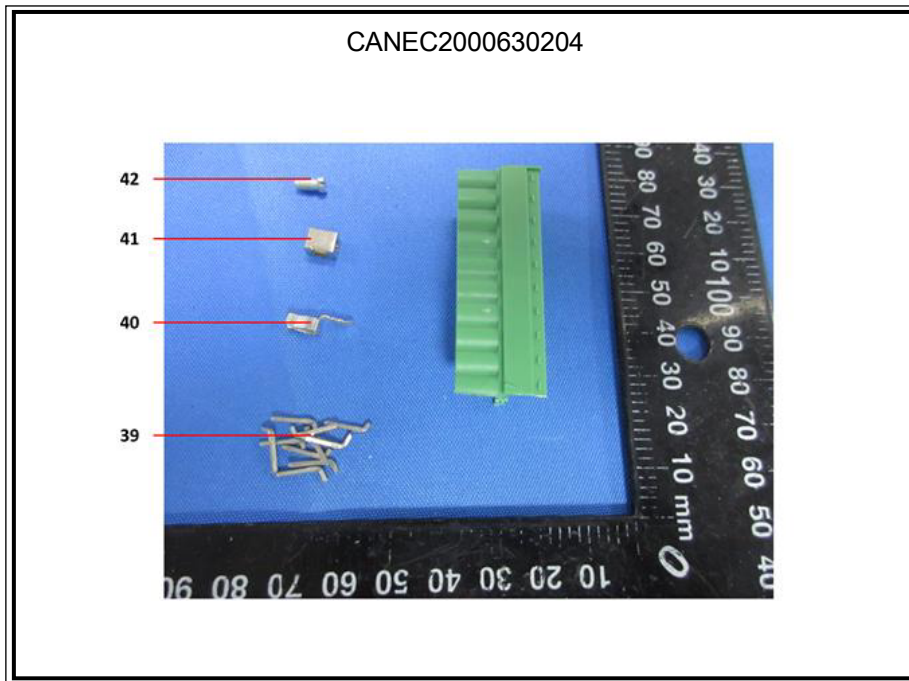
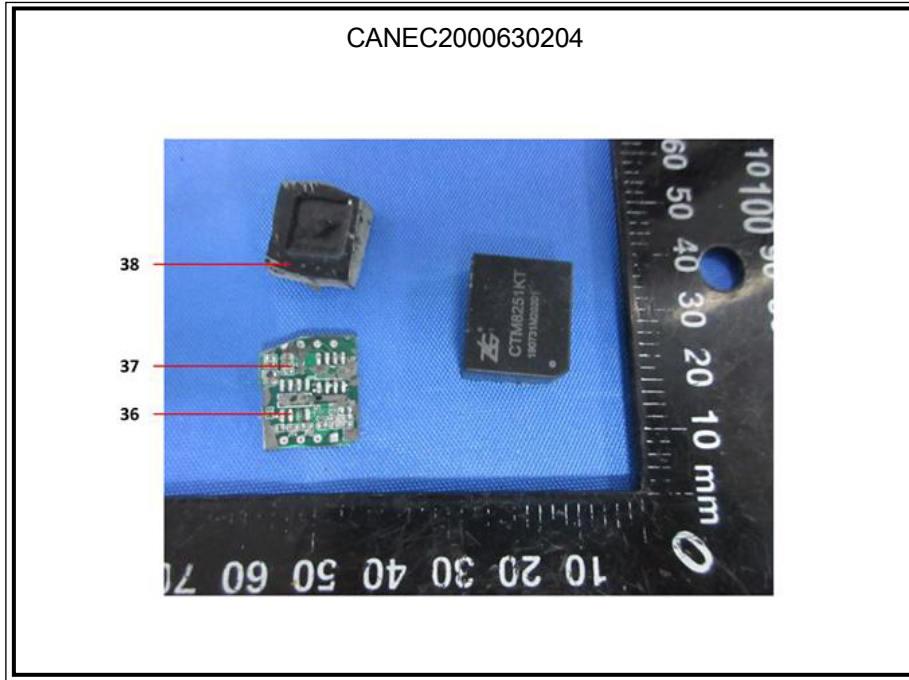




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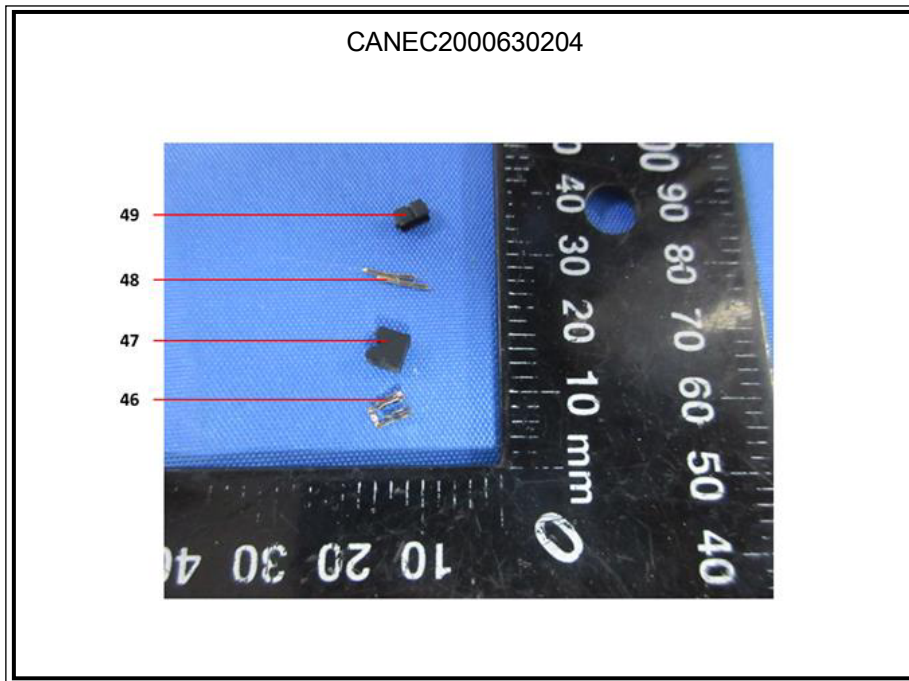
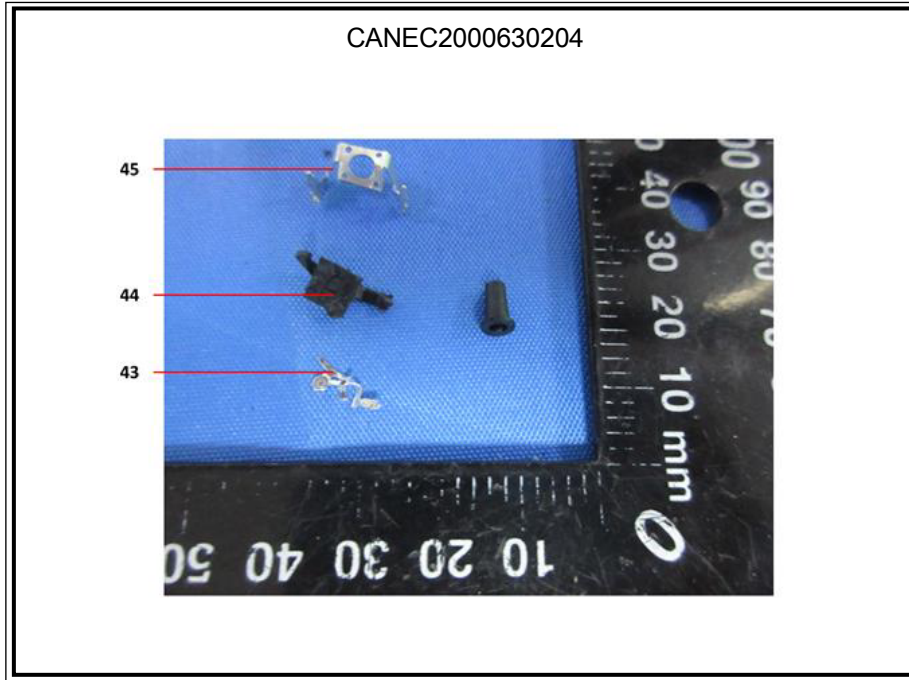


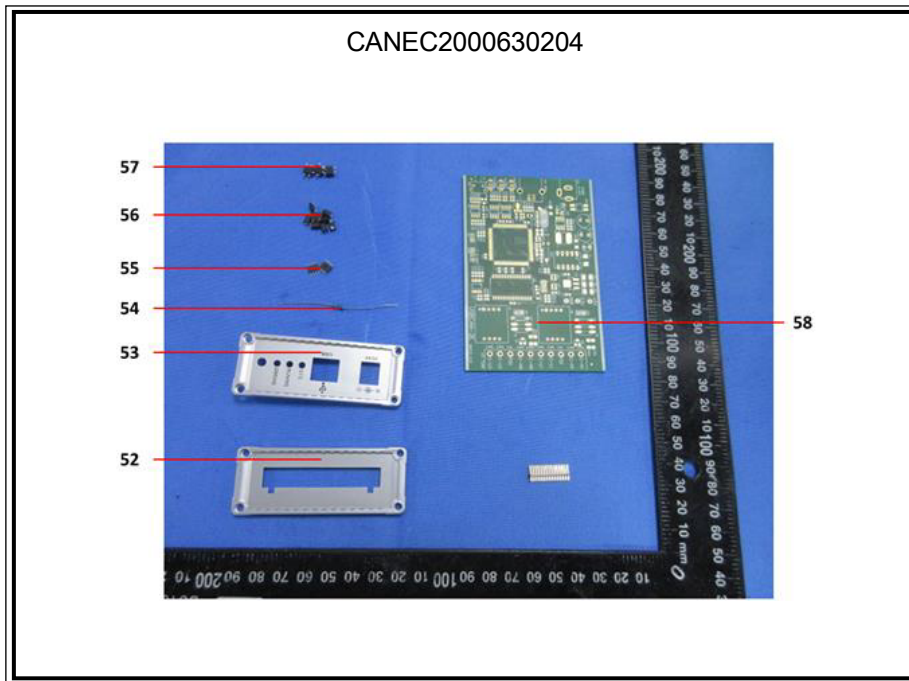
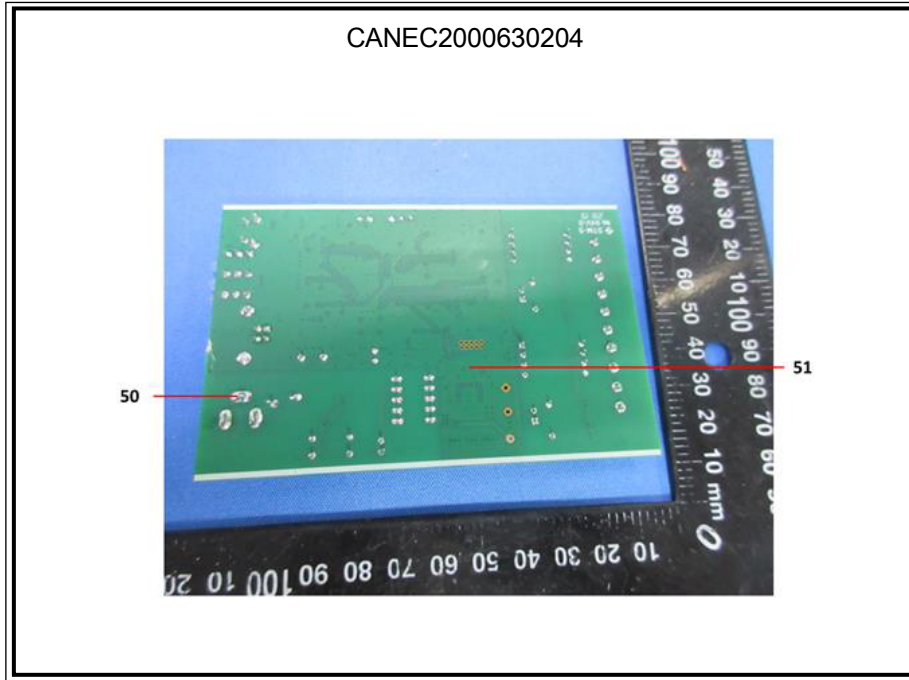


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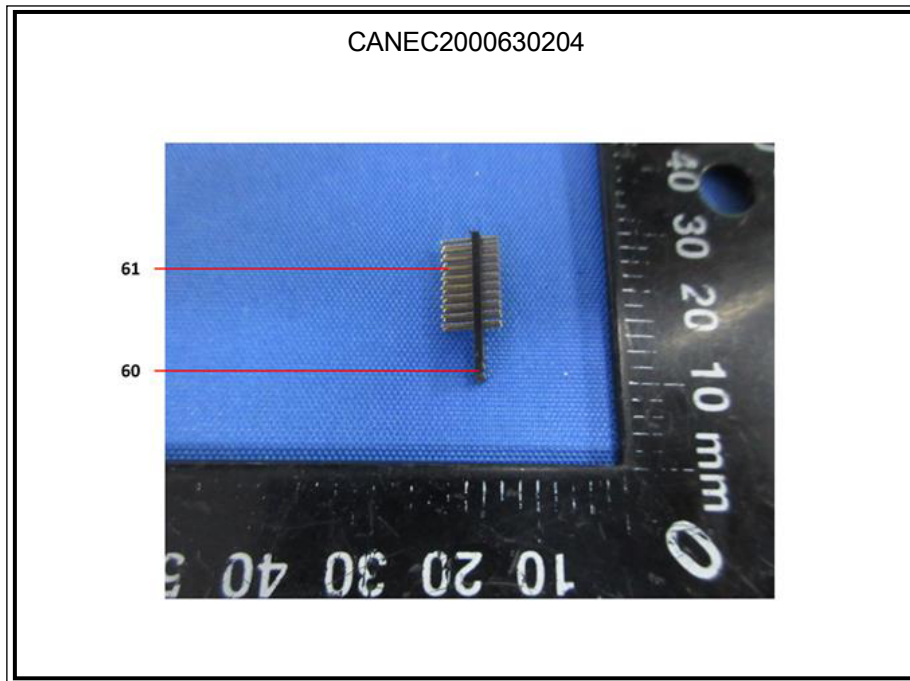
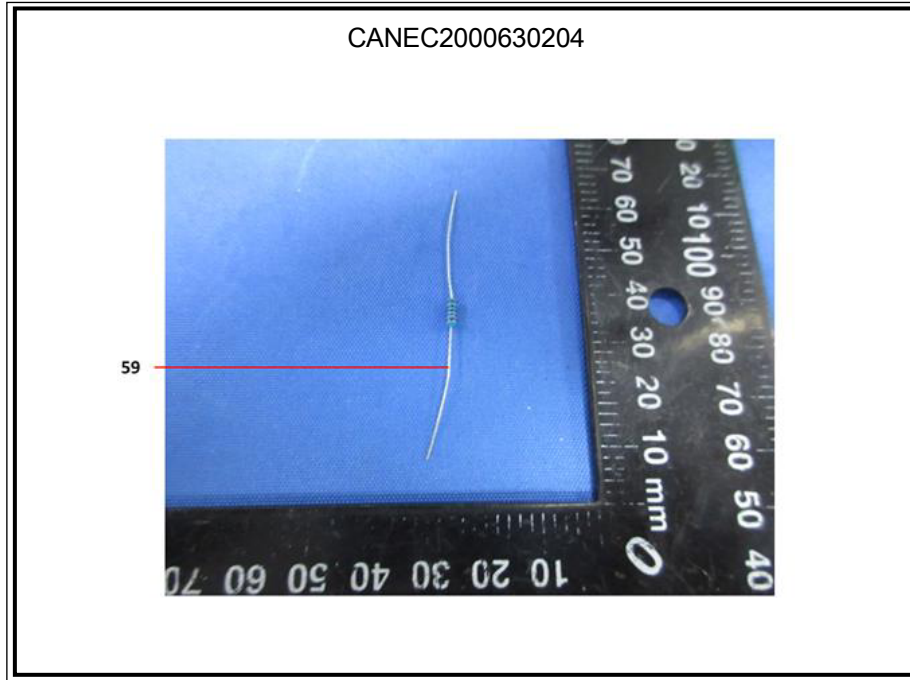




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