

验证报告 No. CKGEC2100136204 A01 日期: 2021年05月20日 第1页,共11页

四川蓝景光电技术有限责任公司

成都市双流区西南航空港经济开发区空港二路二段1000号

#### 此报告替代原来报告CKGEC2100136202

样品名称: LED 模块

SGS工作编号: 21608285 - CQ

测试基本型号: 80点2835白色不防水软条(FN-F2835-48)

客户参考信息: FN-2835T-48,CN-2835T-48,CN-2835T-48,LN-2835T-48,CN-2835T-48,FN-F2835-

> 48, FN-F5050-48, FN-XXXXX-XX, CN-XXXXX-XX, LN-XXXXX-XX,CSP-FLEX-XXX,CSP-NEON-XXX,

N2-4,NDFXXX,NCRXXXX,NDRXXX,NMRXXX,NSFXXXX,NSRXXXX,NFMXXXX,

CRXXXX.

the former two X= the width of product the latter two X= the height of product

CCX-GX-X-X, FX-X-X-12-X, FX-HX-X-12-X, FX-FX-X-12-X, FX-XX-X-12-X, CX-X-X-12-X, LX-X-X-12-X, CX-HX-X-12-X, SX-X-X-12-X, SX-SX-X-12-X,

MN-X-X-12-X, TX-XX-X-12-X, (V)(P)TW-X-X-12-X, FWSL2216-X-X,

TCCN-HX-X-X, DMXN-XX-5050-X-X, DX-XX-X-12-X,

DX-XX-X-12-X (X=any number or Alphabet).

XH25-F, XH25-R, H150-X, XH150, XH150-X, SLX-X (X=any number or Alphabet);

NLX, QNL, ZNL, NSX-X, NDX, QNSX-X (X=any number or Alphabet);

(X)YLX-X-X (X= any number or Alphabet);

ST2E, Z18, STX-X, SMX-X, SGXX, PT8-X-X, KPT8-X-X, PJX-X, 9PCX-X, PSX-X, ZX-X, CSX, CSX-X, BV-AL-3030-24, SSX, MX-X, PQX-X, PZX-X, MZ18-X, M6-X,

M8-X, STLH-X, BTH-X, K2S-X, JSS2-X, QGX, PQX, DX, GBPSX-X-X,

BPS2-X,YZX, BPS300, BPSX-X, QYDX-X, XYDX-X,

WN-YDX-X, YDX,YDX-X, JYDX-X, FYDX-X, JFYDX-X, YLX-X, BP2-W, RGBW-YDX, BQX-X, FYDX-X, JYLX, JYLDX, TYL, MNX-X, NMX, C610,

03030-X, O60-X, DMX, DMX-X-X,

BV-AL-X, BV-B-X, BV-SMD-X, ZXX, H2X, MXX, MX-X, PZX, MZX, BXX-X,

QBPSX-X-X, XYDX-X, WN-YDX-X, HX, B2S, LT09,

PRXX-XXXXX, MIXXX-XXXXXX, RGBX-XXXXXX (X=any number or Alphabet)

样品接收日期: 2021年03月10日

验证周期: 2021年03月10日 - 2021年03月18日

验证要求: 参考欧盟RoHS指令2011/65/EU的修正指令2015/863/EU。

验证方法: 请参见后续页。 验证结果: 请参见后续页。



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验证结论:

基于所送样品进行的测试,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

通标标准技术服务有限公司重庆分公司 授权签名

湖山夏

Gavin Hu 胡小国 批准签署人





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验证方法:

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- 1. 参考IEC 62321-2:2013, 拆分申请者提供的成品, 并评估样品。
- 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IEC62321-5:2013,用ICP-OES测定镉的含量。
- b. 参考IEC62321-5:2013,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ISO17075-1:2017, 用紫外-可见 分光光度计比色法测定六价铬的含量。
- e. 参考IEC62321-6:2015,用GC-MS测定PBBs(多溴联苯)和PBDEs(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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日期: 2021年05月20日 第4页.共11页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)		化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
1	银色金属焊锡	Pb	BL			符合	40 Mar 2024
'		Cd	BL			符合	10 Mar 2021
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
2	黄色本体	Pb	BL			符合	10 Mar 2021
		Cd	BL			符合	10 Mai 2021
		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	
3	带白色印字的黑色本体(贴	Pb	IN		615	符合	10 Mar 2021
	片电阻)	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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日期: 2021年05月20日 第5页.共11页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)		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	
4	白色物料	Pb	BL			符合	10 Mar 2021
		Cd	BL			符合	10 Mai 2021
		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	银色金属焊锡	Pb	BL			符合	10 Mar 2021
		Cd	BL			符合	10 Mai 2021
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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日期: 2021年05月20日 第6页.共11页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)	, ,	化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
6	黑色 / 红色塑料绝缘线皮	Pb	BL			 符合	40 M 0004
	黑白/红白星杆纪缘线及	Cd	BL			符合	10 Mar 2021
		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	
7	银色金属线	Pb	BL			符合	10 Mar 2021
		Cd	BL			符合	10 Mai 2021
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
8	红色塑料绝缘线皮	Pb	BL			符合	10 Mar 2021
		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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样品编号	样品描述	限用物质	EDXRF 测 试结果(1)		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	
9	银色金属片	Pb	BL			符合	10 Mar 2021
		Cd	BL			符合	10 Mai 2021
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
10	透明粘性物料	Pb	BL			符合	10 Mar 2021
-		Cd	BL			符合	10 Mai 2021
		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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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+3σ) ≤ OL
Pb	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 ≤ (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, EDXRF 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	DBP	BBP	DEHP	DIBP
聚合物	BL ≤600< X	BL ≤ 600< X	BL ≤ 600< X	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
ſ	单位	mg/kg						
Γ	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。

- (c) ▼ = 金属样品中
  - 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。

(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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:1 258637.25

(5) 此报告更新了客户参考信息和样品名称。

除非另有说明,此报告结果仅对测试的样品负责。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。



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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。



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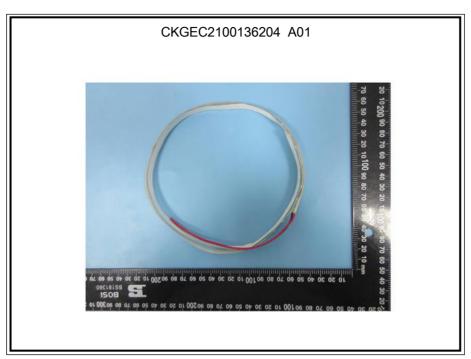
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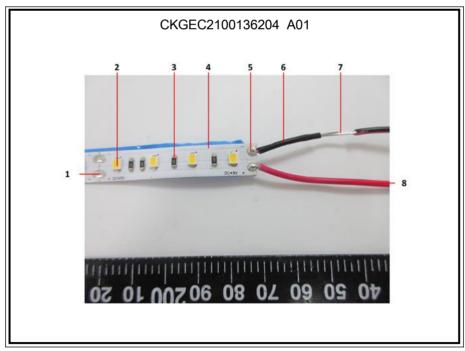


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样品照片:







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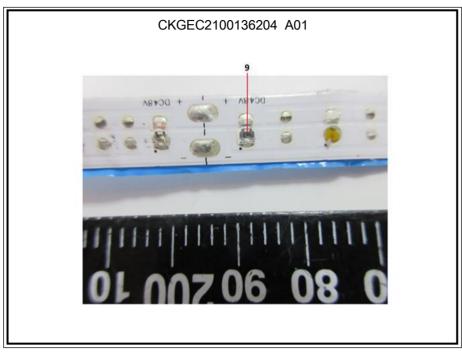
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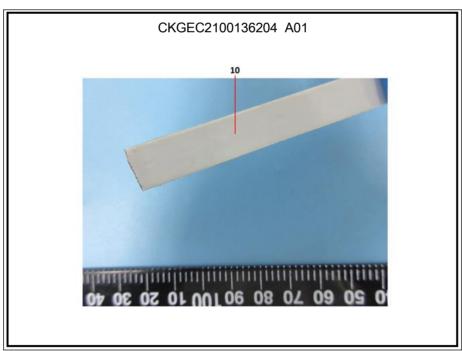
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