

No. CKGEC1701074402

日期: 2017年11月23日 第1页,共10页

湖北天瑞电子股份有限公司 中国湖北省天门市侨乡开发区创业大道8#

样品名称:	微型互感器
SGS工作编号:	18549236 - CQ
测试基本型号:	TR2121-1C
客户参考信息:	TR3121CH TR2145C TR2145CB TR2145CH TR2155-2C TR31140C TR21228C TR2120CTR21236D
样品接收日期:	2017年11月14日
验证周期:	2017年11月14日 - 2017年11月22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。
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
备注:	试结果符合欧盟RoHS指令2011/65/EU附录II修正指令2015/863/EU的限值要求。 本报告测试数据仅代表所测试样品的结果,未经实验室书面授权,不得部分复制本 报告。

通标标准技术服务有限公司重庆分公司 授权签名

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Gavin Hu 胡小国 批准签署人

本报告是编号为CKGEC1701074401报告的中文版本



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验证方法:

No. CKGEC1701074402

日期: 2017年11月23日 第2页,共10页

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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No. CKGEC1701074402

日期: 2017年11月23日 第3页,共10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	黑色塑料片	Pb	BL			符合	14 Nov 2017
		Cd	BL			符合	111101 2011
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs	IN		ND	符合	
		PBDEs	IN		ND	符合	
		DBP		BL		符合	
		BBP		BL		符合	
		DEHP		BL		符合	
		DIBP		BL		符合	
2	金色金属杆(在No.1上)	Pb	BL			符合	14 Nov 2017
		Cd	BL			符合	14 100 2017
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
3	深蓝色塑料片	Pb	BL			符合	14 Nov 2017
		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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No. CKGEC1701074402

日期: 2017年11月23日 第4页,共10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
						符合	
		BBP		BL			
		DEHP		BL		符合	
		DIBP		BL		符合	
4	铜色金属线	Pb	BL			符合	14 Nov 2017
		Cd	BL			符合	
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
5	白色塑料壳(在No.2上)	Pb	BL			符合	14 Nov 2017
	, ,	Cd	BL			符合	
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs	IN		ND	符合	
		PBDEs	IN		ND	符合	
		DBP		BL		符合	
		BBP		BL		符合	
		DEHP		BL		符合	
		DIBP		BL		符合	



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No. CKGEC1701074402

日期: 2017年11月23日 第5页,共10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	灰色物料(在No.5里)	Pb	BL			符合	14 Nov 2017
		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	
7	黑色塑料片(在No.5里)	Pb	BL			符合	14 Nov 2017
	//// <u></u> //////////////////////////////	Cd	BL			符合	141107 2017
		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	
8	黑色塑料壳	Pb	BL			符合	14 Nov 2017
Ĭ		Cd	BL			符合	
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs	IN		ND	符合	
		PBDEs	IN		ND	符合	
		DBP		BL		符合	



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#### No. CKGEC1701074402

#### 日期: 2017年11月23日 第6页,共10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	
9	黑色物料	Pb	BL			符合	14 Nov 2017
		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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No. CKGEC1701074402

日期: 2017年11月23日 第7页,共10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 ≤(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						
方法检测限	10	10	10	100	100	100	100



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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/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,</pre> 25>

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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