

No. CKGEC1701091002

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:	直流传感器
SGS工作编号:	18572562 - CQ
测试基本型号:	TR0215LX
客户参考信息:	TR2215LB TR0218LX TR1234YBS1C TR1275YBS1C TR2201~13LB
样品接收日期:	2017年11月20日
验证周期:	2017年11月20日 - 2018年01月08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 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。
备注:	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。

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Gavin Hu 胡小国 批准签署人

本报告是编号为CKGEC1701091001报告的中文版本



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验证方法:

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日期: 2018年01月18日 第2页,共13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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日期: 2018年01月18日 第3页,共13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 -C	蓝色塑料壳	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	29 Dec 2017
		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	金色金属件	Pb	OL		26876▲	符合	20 Nov 2017
		Cd	BL			符合	201100 2017
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
3	黑色物料	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	201100 2017
		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: 2018年01月18日 第4页,共13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	绿色塑料插槽	Pb	BL			符合	20 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	
5	绿色"PCB"(在No.3里)	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	2011012017
		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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日期: 2018年01月18日 第5页,共13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	银色金属脚(在No.4里)	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
7	银色金属壳	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	201100 2017
		Hg	BL			符合	
		Cr(VI)▼	IN		ND	符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
8 -C	黑色本体(在No.5上)	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	
		Hg	BL			符合	11 Dec 2017
		Cr(VI)▼	BL			符合	
		PBBs	IN		ND	符合	
		PBDEs	IN		ND	符合	
		DBP		BL		符合	



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日期: 2018年01月18日 第6页,共13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	
9 -C	黑色本体(在No.5上)	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	11 Dec 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	
10	黑色本体(在No.5上)	Pb	BL			符合	20 Nov 2017
		Cd	BL			符合	2011012017
		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)		化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
		Pb	BL			符合	
11 -C	银色金属焊锡(在No.5上)	Cd	BL			符合	20 Nov 2017
		Hg	BL			符合	11 Dec 2017
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
40		Pb	BL			符合	
12	铜色金属线(在No.7里)	Cd	BL			符合	20 Nov 2017
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
13		Pb	BL			符合	00.01.00.47
13	白色塑料壳(在No.7里)	Cd	BL			符合	20 Nov 2017
		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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### 日期: 2018年01月18日 第8页,共13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	
14	灰色磁铁(在No.13里)	Pb	BL			符合	20 Nov 2017
	, <u> </u>	Cd	BL			符合	201101 2011
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs	Р			符合	
		PBDEs	Р			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 ≤(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>

(d)▲=根据客户提供的声明,编号2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%。

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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