

# CPST

## 测试报告

No. C170724029002A

日期: 2017年07月27日

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广东晟日半导体科技有限公司

广东省东莞市南城区黄金路1号天安数码城B2栋4楼404室

以下测试之样品是由申请者所提供及确认

样品名称: 场效应管 (电子元件)  
型号: 请参见下一页  
CPST 参考编号: C170724029  
收样日期: 2017年07月24日  
测试周期: 2017年07月24日至2017年07月27日  
测试方法: 请参见下一页  
测试结果: 请参见下一页

### 结论:

测试样品	测试项目	结果
场效应管 (电子元件)	1.RoHS 指令 2011/65/EU 附录 II 的修正指令(EU)2015/863	
	— 铅、汞、镉、六价铬、多溴联苯和多溴联苯醚含量	参见结果
	— 邻苯二甲酸二(2-乙基己基)酯(DEHP)、邻苯二甲酸苯基丁酯(BBP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二异丁酯(DIBP)含量	参见结果



欧冠检测技术服务有限公司

主 检:

审 核:

签 发:

*Andy Wang*

王光宇, Andy  
项目负责人

*Sunshine Liu*

刘小芳, Sunshine  
报告审核员

*Will Pan*

潘坚定, Will  
技术总监

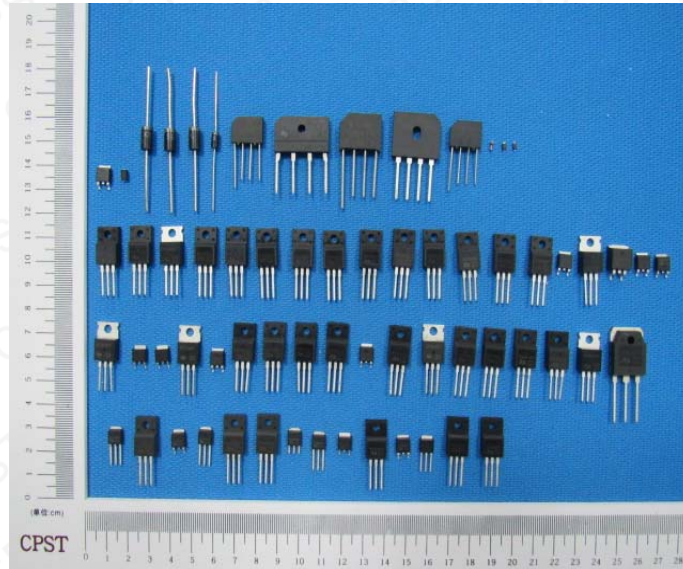
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### 型号:

RS1N50A;RS1N50B,RS2N50A,RS2N50BRS2N60N,RS2N60MD,RS2N60M,RS2N60D,RS2N60F,RS2N60T,RS2N65MD,RS2N65M,RS2N65F,RS2N65T,RS4N60MD,RS4N60M,RS4N60D,RS4N60F,RS4N60T,RS4N65MD,RS4N65M,RS4N65D,RS4N65F,RS4N65T,RS5N60MD,RS5N60M,RS5N60D,RS5N60F,RS5N60T,RS5N65MD,RS5N65M,RS5N65D,RS5N65F,RS5N65T,RS6N60D,RS6N60F,RS6N65M,RS6N65F,RS6N70M,RS6N70F,RS7N60M,RS7N60MD,RS7N60F,RS7N60T,RS7N65M,RS7N65MD,RS7N65F,RS7N65T,RS8N60F,RS8N60T,RS8N65F,RS8N65T,RS10N60F,RS10N60T,RS10N65F,RS10N65T,RS12N60F,RS12N60T,RS12N65F,RS12N65T,RS16N65F,RS16N65T,S18N60F,RS18N60T,RS18N65F,RS18N65T,RS630T,RS630D,RS640T,RS640D,RS740T,RS740D,RS830D,RS830F,RS830T,RS840D,RS840F,RS840T,RS9N50F,RS9N50T,RS13N50F,RS13N50T,RS18N50F,RS18N50T,RS18N50P,RS18N50W,RS20N50F,RS20N50T,RS20N50P,RS20N50W,RS20N60F,RS20N60T,RS20N60P,RS20N60W,RS4N70F,RS7N70F,RS8N70F,RS11N70F,RS18N70F,RS4N80F,RS8N80F,RS10N80F,RS10N80T,RS10N80P,RS10N80W,RS9N90F,RS9N90T,RS9N90P,RS9N90W,RSU2N60D,RSU4N60D,RSU4N60F,RSU4N65F,RSU6N60D,RSU6N60F,RSU7N60D,RSU7N60F,RSU7N65D,RSU7N65F,RSU8N60F,RSU11N60F,RSU11N65F,RSU20N60F,RSU20N60P,RSU20N60W,RSU47N60P,RSU47N60W,RSU76N60P,RSU76N60W,RS2301E,RS2302E,RS30N50S,RS30N60T,RS40N145D,RS30N100S,RS60N25D,RS60N50D,RS100N15D,M1-M7;S1A-S1M;S2A-S2M;S3A-S3M;1N4004-1N4007;RL201-RL207;RL251-RL257;1N5401-1N5407;5A1-5A10;6A1-6A10;10A1-10A10;LL4148;B5819W,RSS03060A,RSS04060A,RSS05060A,RSS10060A,RSS10060P,RSS20060A,RSS20060P,RSS30060A,RSS06065A,RSS05065A,RSS09065A,RSS09065D,RSS10065A,RSS20065A,RSS20065P,RSS30065A,RSS02120D,RSS09120A,RSS09120D;RSS10120A,RSS10120B,RSS20120A,RSS20120P,SS110-SS120;SS210-SS220;SS310-SS320;SS510-SS520;SB1100-SB1200;SB2100-SB2200;SB3100-SB3200;SB3100L-SB3200L;SB5100-SB5200;SB540L-SB5200L;SB560L;SB5100L;SB5150L,FR101-FR107,FR151-FR157;FR201-FR207;FR251-FR257;FR301-FR307;FR501-FR507;FR601-FR607;HER208,ES1A-ES1J,ES2A-ES2J;ES3A-ES3J,SF11-SF18;SF21-SF28;SF31-SF38,MB2S-MB10S;MB2F-MB10F;ABS2-ABS10;DB101S-DB107S;DB151S-DB157S;DB201S-DB207S;DB101-DB107;DB151-DB157;KBP201-KBP207;KBP301-KBP310;KBJ401-KBJ410;KBL401-KBL410;KBL601-KBL610;KBU401-KBU410;KBU801-KBU810;KBU1001-KBU1010;GBU401-GBU410;GBU601-GBU610;GBU801-GBU810;GBU101-GBU1010;RS206;KBJ810;GBU1006;KBP210,RSU3N65D,RSU4N65M,RSU4N65D,RSU4N70M,RSU5N65D,RSU5N65F,RSU8N65F,RSU8N65D,RS60N120T,RS60N200T,RS100N14H,RS100N16H,RS100N135T,RS30N10H,RS30N25K,RS40N120T,RS40N120D,RS40N120H,RS60N08H,RS60N20D,RS60N150T,RS40N210T,RS80N160T,RS100N57T,RS150N79T,RS60N80D,RS60N50D (A=SOT-89;B= TO-92;C= SOT-223;D= TO-252;E= SOT-23;E1= SOT23-6; E2 =TSSOP-8;F= TO-220F;G= DFN5x6;H= SOP-8;J= DFN2x2;K= DFN3x3; L= TO-262;M=TO-251;MD= TO-251 N= TO-126;T= TO-220,S= TO-263;P= TO-3P;W= TO-247;W1= TO-247S),RSU3N65D , RSU12N65F , RS60N200T

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送检样品照片



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### 测试结果:

样品描述 : No.1 金属接脚 (混测)  
No.2 本体 (混测)

### 1. 铅、汞、镉、六价铬、多溴联苯和多溴联苯醚含量—RoHS 指令 2011/65/EU 附录 II 的修正指令(EU)2015/863

测试项目	单位	测试方法	结果		MDL
			No.1	No.2	
铅(Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2
汞(Hg)	mg/kg	IEC 62321-4:2013, ICP-OES	N.D.	N.D.	2
镉(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2
六价铬(Cr <sup>6+</sup> )	mg/kg	IEC 62321-7-2:2017, UV-VIS	-	N.D.	2
	µg/cm <sup>2</sup>	IEC 62321-7-1:2015, UV-VIS	N.D.	-	0.10
一溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
二溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
三溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
四溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
五溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
六溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
七溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
八溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
九溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
十溴联苯	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
多溴联苯总和(PBBs)	mg/kg	-	-	N.D.	-
一溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
二溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
三溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
四溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
五溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
六溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
七溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
八溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
九溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
十溴联苯醚	mg/kg	IEC 62321-6:2015, GC-MS	-	N.D.	5
多溴联苯醚总和(PBDEs)	mg/kg	-	-	N.D.	-

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### 注释:

1. mg/kg =毫克每千克= ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限
4. “-” = 未规定
5. 沸水萃取:  
阴性 = 未检测到六价铬: 每1cm<sup>2</sup>表面积的被测试样品的沸水萃取液中六价铬的浓度小于0.10µg.  
阳性 = 检测到六价铬: 每1cm<sup>2</sup>表面积的被测试样品的沸水萃取液中六价铬的浓度大于0.13µg.  
不确定 = 检测到六价铬: 每1cm<sup>2</sup>表面积的被测试样品的沸水萃取液中六价铬的浓度大于0.10µg而小于0.13µg.
6. 阳性表示六价铬不符合 RoHS 要求
7. 阴性表示六价铬符合 RoHS 要求

### 邻苯二甲酸二(2-乙基己基)酯(DEHP)、邻苯二甲酸苯基丁酯(BBP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二异丁酯(DIBP)含量—RoHS 指令2011/65/EU附录II的修正指令(EU)2015/863

测试方法:参考 IEC 62321-8:2017, 使用气相色谱质谱联用仪(GC-MS)进行分析。

测试项目	单位	结果	MDL
		No.2	
邻苯二甲酸二(2-乙基己基)酯(DEHP)	mg/kg	N.D.	50
邻苯二甲酸苯基丁酯(BBP)	mg/kg	N.D.	50
邻苯二甲酸二丁酯(DBP)	mg/kg	N.D.	50
邻苯二甲酸二异丁酯(DIBP)	mg/kg	N.D.	50

### 注释:

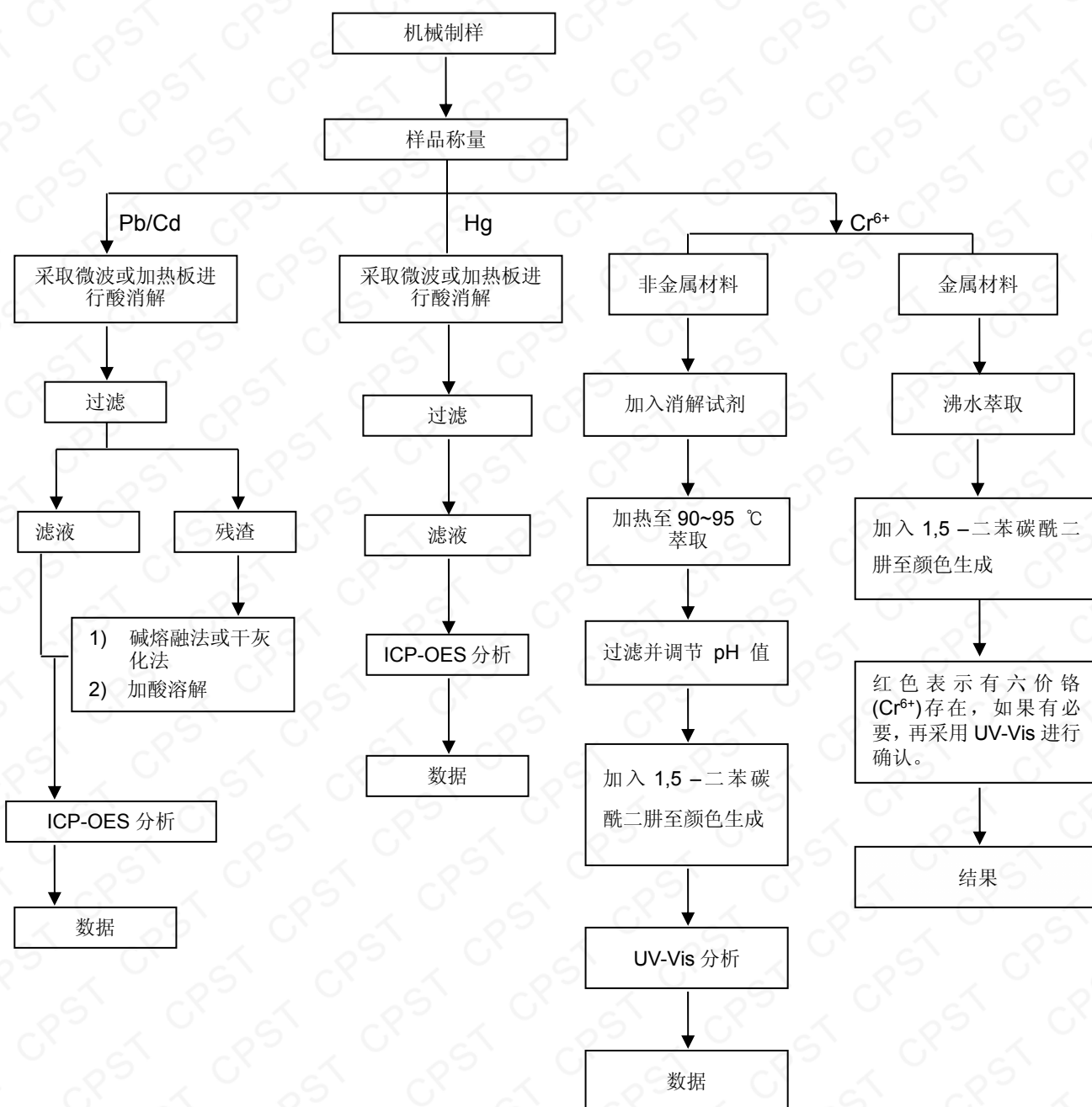
1. mg/kg = 毫克每千克 = ppm
2. N.D. = 未检出 (< MDL)
3. MDL = 方法检测限

声明: 报告 C170724029002 作废, 由报告 C170724029002A 所取代。

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### Pb/Cd/Hg/Cr<sup>6+</sup> 测试流程图

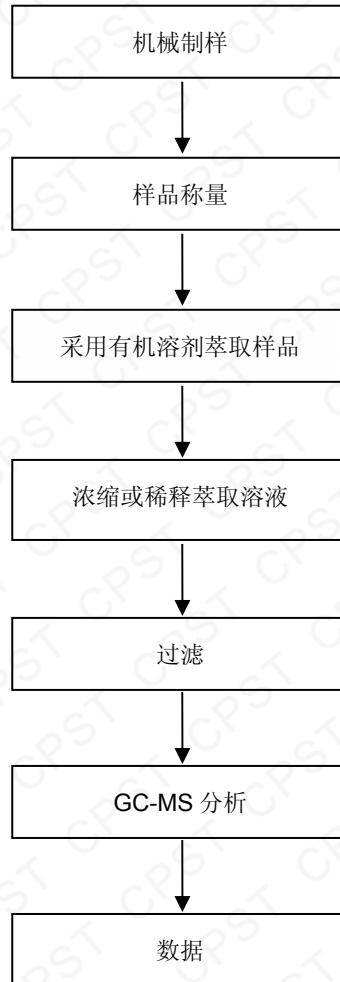
- 1) 分析人员: 王光宇
- 2) 监督人员: 王华根
- 3) 根据以下测试流程图样品在预处理方法中被完全溶解(Cr<sup>6+</sup> 测试方法除外)。



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### 多溴联苯/多溴联苯醚 测试流程图

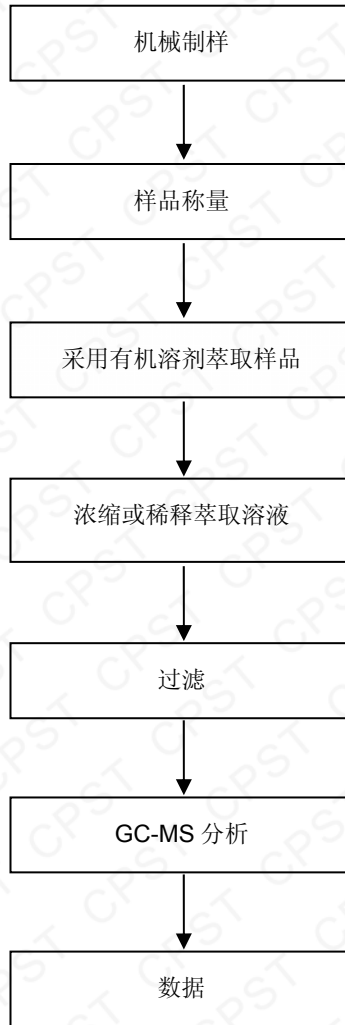
- 1) 分析人员: 王光宇
- 2) 监督人员: 王华根



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### 邻苯二甲酸酯 测试流程图

- 1) 分析人员: 王光宇
- 2) 监督人员: 王华根



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