



检测报告

编号: CANEC2300364470

日期: 2023年02月21日 第1页,共9页

客户名称: 乐山希尔电子股份有限公司
客户地址: 四川省乐山市高新区南新路9号

样品名称: 整流桥
型号: HD25SB100
客户参考信息: 见备注
以上样品及信息由客户提供。

本报告取代检测报告CANEC2300364436

SGS工作编号: 10023982 - CQ
样品接收日期: 2023年01月06日
检测周期: 2023年01月06日 - 2023年01月19日
检测要求: 根据客户要求检测
检测方法: 请参见下一页
检测结果: 请参见下一页
检测结果概要:

检测要求	结论
欧盟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(PBBs), 多溴二苯醚(PBDEs), 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)	符合
欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863- 铅, 汞, 镉和六价铬	符合

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关正孟

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检测报告

编号: CANEC2300364470

日期: 2023年02月21日 第2页,共9页

检测结果:

检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN23-003644.006	带芯片的黑色塑料壳
SN2	CAN23-003644.007	银色金属引脚
SN3	CAN23-003644.008	带焊锡带芯片的铜色带银色金属
SN4	CAN23-003644.009	银灰色金属

备注:

- (1) 1 mg/kg = 0.0001%
 (2) MDL = 方法检测限
 (3) ND = 未检出 (< MDL)
 (4) "-" = 未规定

欧盟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(PBBs), 多溴二苯醚(PBDEs), 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)

检测方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	006
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	98
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	006
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注:

- (1)最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321 系列等同于 EN 62321 系列
- (3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863-铅, 汞, 镉和六价铬

检测方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	007	008	009
镉 (Cd)	100	mg/kg	2	ND	ND	ND
铅 (Pb)	1000	mg/kg	2	7	29223▲	6
汞 (Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321 系列等同于 EN 62321 系列
- (3) ▼=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, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。



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备注1▲: 根据客户提供的声明, 样品008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(a)]: 高熔点型焊料中的铅(即铅含量等于或大于85%的铅基合金焊料)。

备注2: 本报告中的检测结果和照片引用自报告CANEC2300364467。

本报告增加了客户参考信息和删除了料号。

除非另有说明, 参照ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。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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备注:

HD Model HD, followed by 15,20,25,30,35,50,60,followed
by SB, followed by 05,06,10,20,40,60,80,100,120,140,160, maybe
followed by FR GBU Model GBU, followed by 4,6,8,10,15
,20,25,30 followed by 02,04,06,08,10,12,14,16,followed by H,FH
3QX Model 3QX, followed by 50,60,75,100,120,150,followed
by A, followed by 05,10,20,40,60,80,100,120,140,160,200,250, maybe
followed by J,KL,F,FL,G 3QW Model 3QW, followed by150,160,200,
followed by A, followed by 05,10,20,40,60,80,100,120,140,160,200,250,
maybe followed by F,G 3QH Model 3QH,
followed by10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85,90,
95,100,110,120,130,140,150,160, 180,200, followed by A,
followed by 60,80,100,120,140,160,180,200,250 maybe followed by A,B,C,
MFDK Model MFDK, followed by 100,120,150,180,200,240,
300,360, followed by 20,30,40,60,80,100 maybe followed by A
MFDB Model MFDB, followed by 60,75,80,100,120,150,
180,200, followed by 20,30,40,60,80,100 ,120,140 maybe followed by A,B,C
MFDQ Model MFDB, followed by 60,75,80,100,120,150,
180,200, followed by 20,30,40,60,80,100 ,120,140 maybe followed by A,B,C



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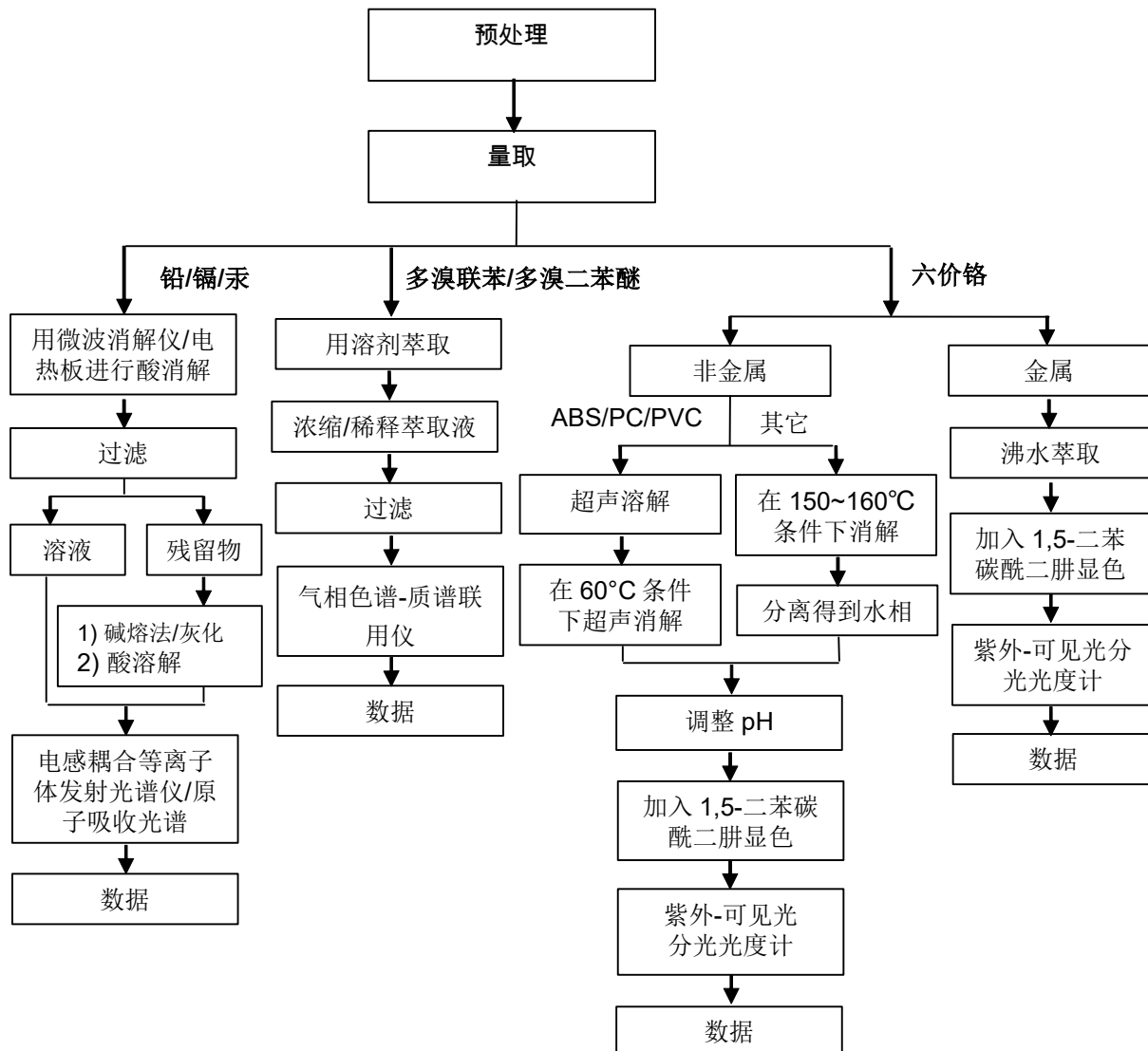
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附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 检测流程图

1) 样品按照下述流程被完全消解(六价铬和多溴联苯/多溴二苯醚检测除外)。

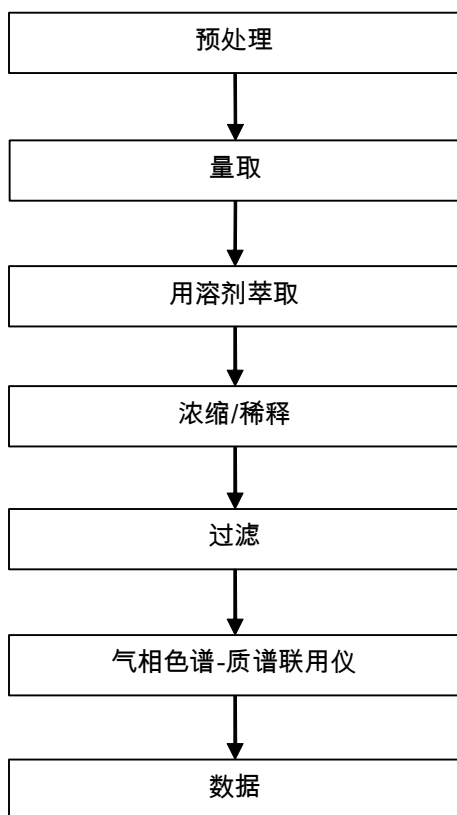


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附件

Phthalates 检测流程图



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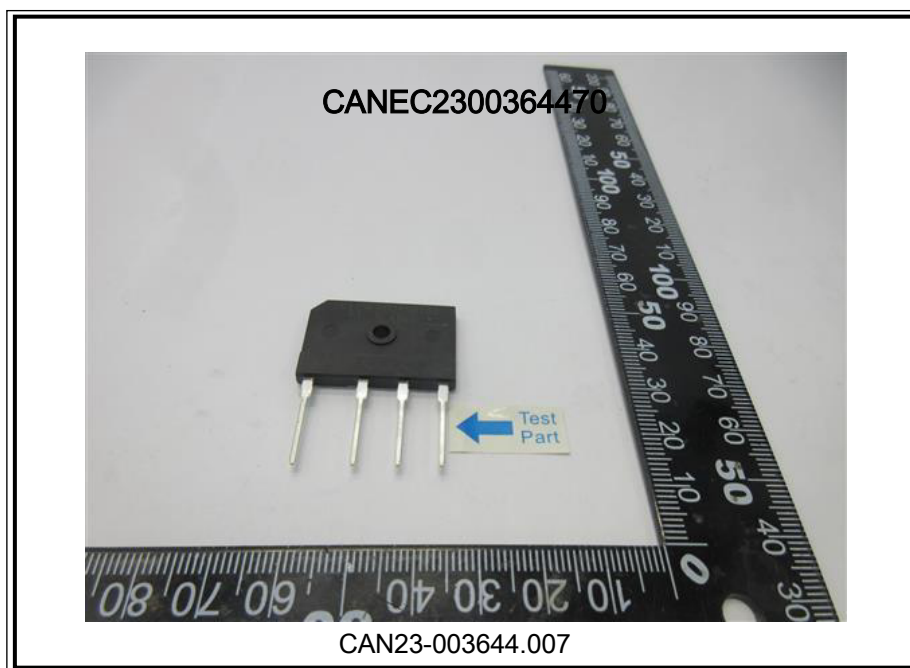
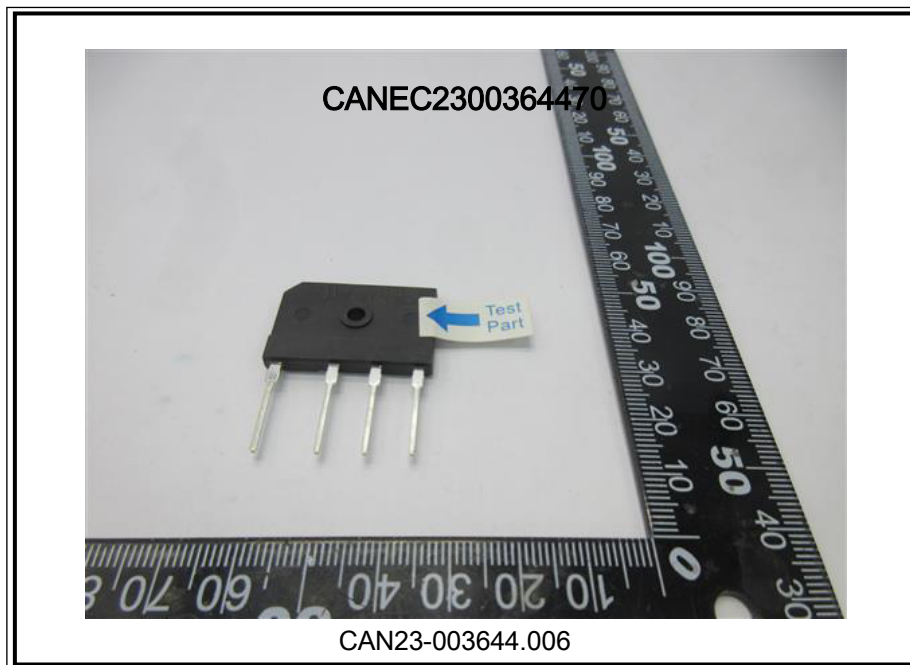
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第8页,共9页

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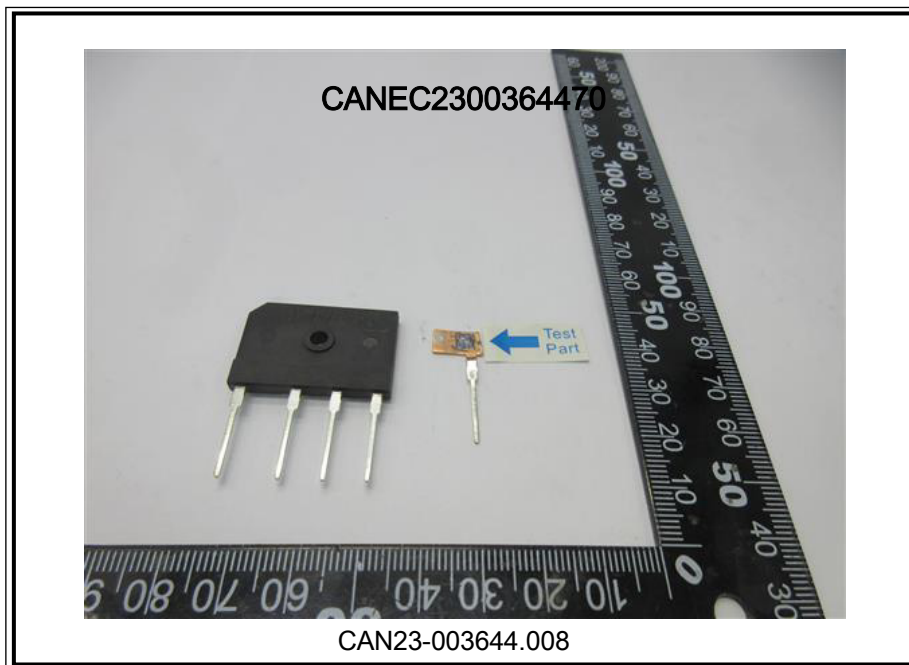
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