

警惕防静电导电材料

Beware of anti-static conductive materials

安装在端子上的备用电池或纽扣式锂电池一旦接触导电材料，就会放电。在使用此类情况的工厂中，已经实施了保护半导体部件免受静电损坏的措施。目前正在使用多种保护材料，这些材料都含有碳、铝和其他金属的混合物，使其导电。防静电导电材料包括包装袋、托盘、垫子、薄片、薄膜和树脂盒。例如片材的电阻为 10^3 至 $10^6\Omega$ ，这意味着当它们接触电池的正极和负极时，它们会使电池放电。

在锂电池中，几 uA 到几 mA 的电流会降低其电压和电容量。我们建议在保护材料周围使用电池时要时刻注意。

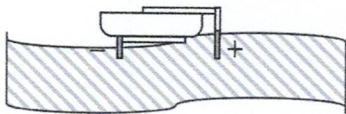
Backup batteries or button-type lithium batteries mounted on the terminals will discharge once they come into contact with conductive materials. In factories using such cases, measures have been implemented to protect semiconductor parts from damage by static electricity. A variety of protective materials are currently in use, all of which contain a mixture of carbon, aluminum, and other metals to make them conductive.

Anti-static conductive materials include packaging bags, trays, mats, sheets, films, and resin boxes. For example, the resistance of sheets is 10^3 to $10^6\Omega$, which means that when they come into contact with the positive and negative terminals of the battery, they will discharge the battery.

In lithium batteries, currents of several uA to several mA will reduce their voltage and capacity. We recommend that you always be careful when using batteries around protective materials.

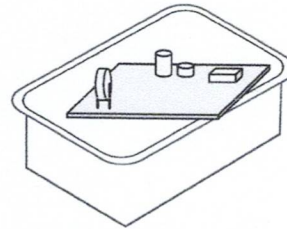
示例 Example:

端子安装的电池，其端子插入导电垫中，几天后完全放电。
 Terminal mounted batteries, with their terminals inserted into conductive pads, were completely discharged after a few days.



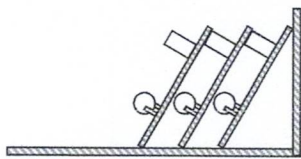
导电垫 Conductive pad

安装在 PCB 上的电池通过与导电树脂壳体接触而完全放电。
 The battery mounted on the PCB is fully discharged by contacting with the conductive resin case.



导电树脂外壳 Conductive resin housing

安装在 PCB 上的电池通过与隔板和导电橡胶片接触而放电。
 The battery mounted on the PCB is discharged by contacting the separator and the conductive rubber sheet.

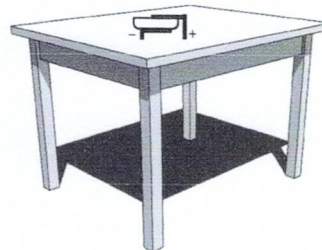


导电橡胶片
 Conductive rubber sheet

留在工作台上的正负端子与接地橡胶板盖直接接触的电池完全放电。

The battery, which is left on the workbench with its positive and negative terminals in direct contact with the grounded rubber sheet cover, is completely discharged.

桌脚导电接地 Table legs conductive grounding



导电片材 Conductive sheet

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For more detailed information, please contact CDA Division or your local agent.