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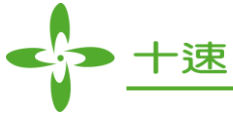
TM57PT16

采用同一电源组合三套触控标准品之模组设计规则

Application Note

Rev 1.0

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AMENDMENT HISTORY

Version	Date	Description
V1.0	Sep, 2015	New release.

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一、简介

1. 1key 触控标准品

Tenx 1key 触控标准品（如图 1），触控区块大小为 1.1cm*0.9cm、2.4~5V 供电、ESD Air/Contact 16KV、EFT AC mode 4KV、环境测试在温度负 20 度~80 度之间皆可正常运作，详情请参阅“TM57PT16 1key 触控标准品 设计规则 Application Note”。

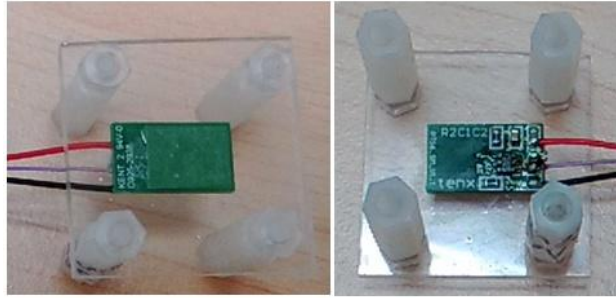


图 1、Tenx 1key 触控标准品

2. 3 key 触控模组

以下将介绍 3 key 触控模组共享同一电压源，如图 2、3 所示，介质采用厚度 1~5mm 范围的压克力、触控模组之间距 10mm 与 5mm 电路布局架构下之相关特性，包含各项硬件条件对灵敏度的影响。如使用其他布局则特性稍有不同，详情请洽业务人员，取得“1 key 不同硬件之设计建议”。

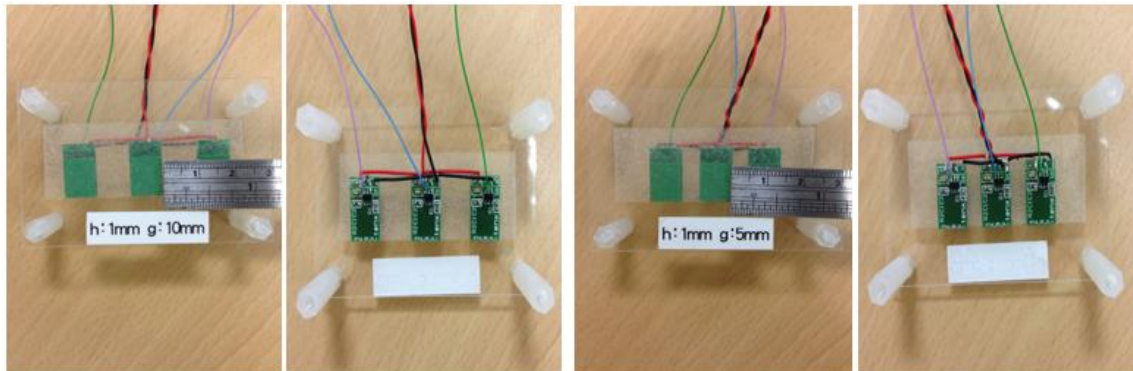


图 2、3 key 触控模组间距 10mm

图 3、3 key 触控模组间距 5mm

二、特性

各项硬件条件对此 3 key 触控模组的影响如下。

1. 供电

供电范围为 2.4V~5V，此 3 key 触控模组在小幅电压飘动下其功能也不受影响。

3 key 触控模组在睡眠模式下的平均耗电流：

供电电压	3.3V	5V
平均耗电流	6.1uA	19.1uA

2. 压克力介质厚度

使用者可选用的压克力介质厚度范围为 1mm~5mm。

3. 3 key 触控模组间距

模组之触控按键间距以 10mm 与 5mm 标准应用或者大于此规格。

4. 电容

此 3 key 触控模组可选用的电容值建议范围为 2.2nF~6.2nF，如需了解详细资料，请洽本公司业务人员。