

十速

TM57PT16

1 key 触控标准品 设计建议

Application Note

Rev 1.1

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AMENDMENT HISTORY

Version	Date	Description
V1.0	May, 2015	New release.
V1.1	Aug, 2015	刪減第三章及部分内容，如需了解详细资料，请洽本公司业务人员

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一、简介

此 1key 触控标准品如图 1、2 所示，触控区块大小为 1.1cm*0.9cm。此标准品可使用 2.4~5V 供电，介质可采用厚度 1~5mm 范围的玻璃或亚克力。此标准品有良好的抗干扰能力：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。以下将介绍使用此电路布局下的相关特性，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。

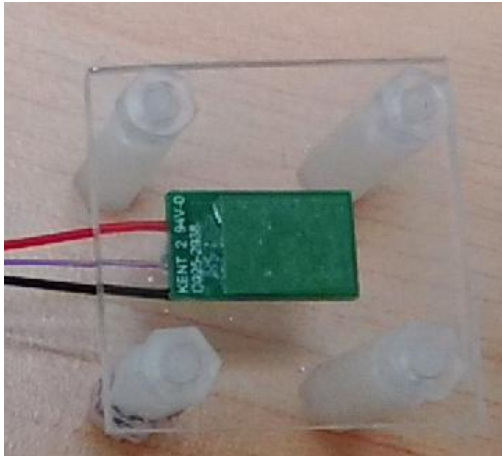


图1-正面

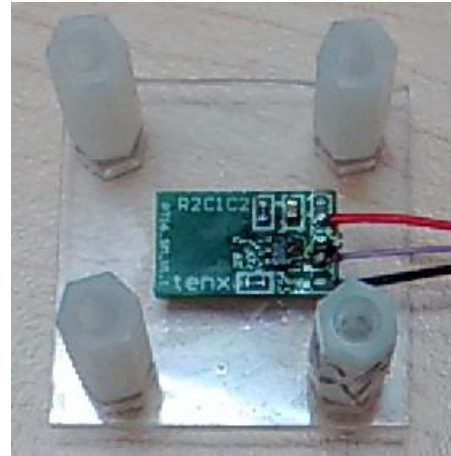


图2-反面

二、特性

各项硬件条件对此标准品的影响如下。

1. 供电

供电范围为 2.4V~5V，此标准品在小幅电压飘动下其功能也不受影响。

量测标准品在睡眠模式下的平均耗电流：

供电电压	3.3V	5V
平均耗电流	3uA	7uA

2. 介质

使用者可选用玻璃或压克力作为触控介质。

3. 介质厚度

使用者可选用的厚度范围为 1mm~5mm。

4. 电容

此标准品可选用的电容值建议范围为 2.2n~6.2n，如需了解详细资料，请洽本公司业务人员。