















# 规格承认书

规格书编号  
J.SPC.50.46-018

品名

6.2X6.2X2.5 Dust-Proof

型号

TVEM04-N025BR-R

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## 6.3 使用耐久性能

Item 项目	Test Condition 测试条件	Requirements 要求
6.2.5 Operating Life 动作寿命	Measurements shall be made following the test set forth below:按下列条件进行寿命试验 (1)DC 5V 5mA resistive load. DC 5V 5mA 阻性负载 (2)Rate of operation:2 to 3 operations per second 动作频率: 2-3 次/每秒 (3)Depression: <u>270</u> gf 减压力 (4)Cycles of operation: $20 \times 10^4$ cycles 动作次数: $20 \times 10^4$ 次	Contact resistance: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ Min. 绝缘电阻 Actuating force: 动作力 + <u>30</u> %or- <u>30</u> %of initial force. ±30%初始动作力 Item 6.1.3 Item 6. 2.2
6.3.2 Moisture Resistance 耐潮湿	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐潮湿试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1) Temperature: $60 \pm 2^\circ\text{C}$ 温度 (2) Relative humidity: 90 to 95% 相对湿度 (3) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3
6.3.3 Low Temperature Resistance 耐低温	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐低温试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1) Temperature: $-40 \pm 2^\circ\text{C}$ 温度 (2) Time: 96 hours 时间 Water drops shall be removed. 擦除水珠	Contact resistance: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3
6.3.4 Heat Resistance 耐热	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made: 样品按下列条件进行耐热试验,试验后在正常温度和湿度条件下放置 1 小时后测定 (1)Temperature: $85 \pm 2^\circ\text{C}$ 温度 (2) Time: 96 hours 时间	Contact resistance: <u>200</u> mΩ Max. 接触电阻 Insulation resistance : <u>50</u> MΩ Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3



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Item 项目	Test Condition 测试条件	Requirements 要求
6.3.5 Change of Temperature 温度循环	<p>Following ten cycles of high temperature test .The Sample shall be Placed in Normal temperature and humidity Conditions for one hour before measurements are made. During this test, water drops shall be removed. 样品按下列条件进行高低温循环试验,试验后在正常温度和湿度条件下放置 1 小时后测定</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>温度(°C)</p> <p style="text-align: center;">时间(hour)</p> </div> <div> <p>A: +85±2°C B: -40±2°C C: 2 小时 D: 1 小时 E: 2 小时 F: 1 小时</p> </div> </div> <p style="text-align: center;">Cycling: Five cycles 周期: 5 次</p>	<p>Contact resistance: 200_mΩ Max. 接触电阻</p> <p>Insulation resistance : 50_MΩ Min. 绝缘电阻</p> <p>Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3</p>
6.3.6 Salt Spray Test 盐雾试验	<p>The salt spray test shall be conducted at the following conditions : 样品按下列条件进行盐雾试验</p> <p>(1)Density(浓度): 溶液(5±1)% Nacl (质量百分比)</p> <p>(2)Temperature: 35±2°C 温度</p> <p>(3) Time: 24 hours 时间</p>	<p>金属件无发黄、生锈</p>
6.3.7 Vibration Resistance 耐振动	<p>Measurements shall be made following the test set forth below: 按下列条件进行抗振动试验</p> <p>(1)Range of oscillation: 10 to 55Hz 频率范围</p> <p>(2)Amplitude,pk-to-pk:1.5mm 振幅:峰-峰 1.5mm</p> <p>(3)Cycle of sweep: 10-55-10Hz in one minute, approx.扫描周期: 10-55-10Hz 约一分钟内</p> <p>(4)Mode of sweep: Logarithmically sweep or uniform sweep. 扫描方式: 对数扫描式恒定扫描</p> <p>(5)Direction of oscillation: 振动方向</p> <p>Three mutually perpendicular directions, including the direction of stem travel. 3 个相互垂直方向,包括推柄行程方向</p> <p>(6)2 hours each ,for a total of 6hours.每方向 2 小时.共 6 小时</p>	<p>Item 6.1 Item 6. 2.1、6.2.2</p>

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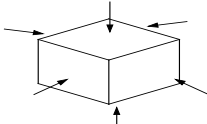
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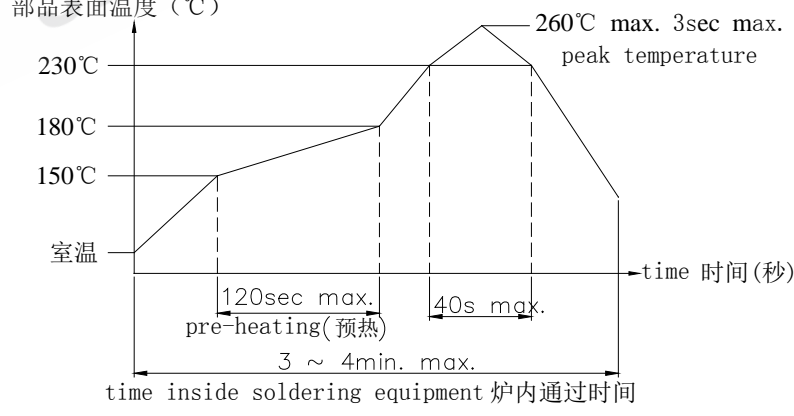
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Item 项目	Test Condition 测试条件	Requirements 要求
6.3.8  Impact Shock Resistance 抗冲击	Measurements shall be made following the test set forth below: 按下列条件进行冲击试验 (1)Acceleration:80g 加速度 (2)Cycles of test :3 cycles each in 6directions, for a total of 18cycles 试验次数:每个方向3次,6个方向共18次 <div style="text-align: center;">  </div>	Item 6.1 Item 6. 2.1、6.2.2

## 7. 焊接条件:

Item 项目	Recommended conditions 推荐条件
7.1  Hand soldering 手工焊接	Please practice according to bellow conditions: (1)Soldering temperature : $\leq 350^{\circ}\text{C}$ (2)Continuous soldering time: $\leq 3\text{ S}$ (3)Capacity of soldering iron: $\leq 60\text{ W}$ 请按以下条件进行焊接: (1)焊锡温度: $\leq 350^{\circ}\text{C}$ (2)连续焊接时间: $\leq 3\text{ S}$ (3)电烙铁的功率: $\leq 60\text{ W}$
7.2  Automatic flow soldering 自动焊接	For the product of SMT , type solder according to the following conditions 对于 SMT 产品, 请按以下条件进行焊接 <div style="text-align: center;">  </div> <p style="text-align: center;">time inside soldering equipment 炉内通过时间</p> <p>Caution: the condition mentioned above is a temperature on the PWB surface on which parts are mounted. There are cases where PWB temperature greatly differs from switch's surface temperature depending on PWB material, size, thickness, etc. The switch's surface temperature shall not allowed to exceed 260°C 注意: 以上提及的条件是零部件上 PWB 表面的温度, 由于 PWB 的材料、尺寸、厚度等不同, PWB 从开关表面获得的温度也会有很大产不同, 因此, 千万小心不要让开关表面温度超过 260°C</p>

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### 8. Other Precautions 其他注意事项:

- (1) Following the soldering process, do not try to clean the switch with a solvent or the like.  
进行焊接过程中，不可以用溶剂或类似品清洗开关
- (2) Safeguard the switch assembly against flux penetration from its topside.  
防止助焊剂从开关的顶端渗入
- (3) Please have the products keep in close status and the storage time is 90 days guaranty after delivering the goods at most.  
交货后保证开关处于封密状态并库存时间 90 天以下

### 9.Reel Packaging 盘装

#### 9.1 Scope 范围

This specification covers the requirements of the reel packaging for SMT standard type of tact switches. 该规范包含 SMT 标准型拨动开关的绕带封装的要求

#### 9.2 Packaging Materials 封装材料

Item	项目	Description	说明
Package	包装	Cartons	卡通箱
Reel	转轴	Delete Cartons	可降解箱
Carrier Tape	载带	Polypropylene	聚丙烯

#### 9.3 Packaging Quantity 封装数量

9.2.5 The number of the reels. 转轴数量

Twenty (20) reels at maximum. Which contain 30K pcs switches  
Shall be packed in a package. 一箱装 20 盘,有 30K 只产品

9.3.2 The number of the switches. 产品数量

1.5K pcs switches shall be packed in a reel. 一个转轴包 1.5K 只产品

9.3.3 It should be noted that we regard two cartons 对出口包装需注意用两个箱子包装 mentioned above as on package for export.

