

客户 (Customer): _____

发行编号: J.SPC.50.59-027

发行日期: 2018.09.10

发行区分: ☒ 新规 ☐ 改定

规格承认书

SPECIFICATION FOR APPROVAL

产品名称: 6.2X6.2X3.5 IP67

贵司型号: _____

敝司型号: TVEJ16-035GW-R

接受印

ACKNOWLEDGEMENT

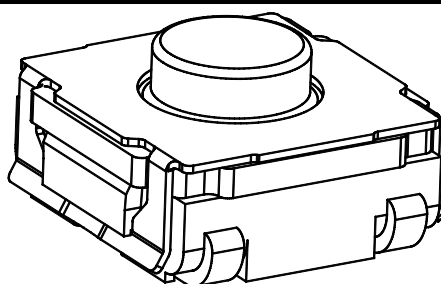
兹证明此份材料已经收到。

WE ACKNOWLEDGE RECEIVING THIS DOCUMENT.

MONTH / DAY / YEAR

DATE: / /

G. MGR	LEADER	CHECKED	SIGNED



浙江键富电子有限公司
ZHEJIANG JIANFU ELECTRONICS CO., LTD

地址:浙江省乐清市天成工业区宁康东路 2892 号
TEL: 0577-61302509 61302221
FAX: 0577-61300308 61301196

JIANFU

发行部门: 技术部
TEL: 0577-61302509转8090
FAX: 0577-61300308

拟制	核对	审核	批准
研发部 18.09.12 王 晓 彬	研发部 18.09.12 杨 岗 丰	品质部 18.09.12 柴 利 美	总经办 18.09.12 赵 高 杰

规格承认书				规格书编号 J.SPC.50.59-027									
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	1/10									
1. General Specification 基本说明 1.1 Scope 范围 This specification covers the requirements for single key switches which have no Key top(TACT SWITCHES:MECHANICAL CONTACT).此规范含盖单推柄和无推柄的轻触开关要求 1.2 Operating Temperature Range 使用温度范围 -40℃to+85℃(normal humidity, normal press.) 正常湿度，标准压力 1.3 Storage Temperature Range 保存温度范围 -40 to+85℃(normal humidity, normal press.) 1.4 Test Conditions 测试条件 Tests and measurements shall be made in the following standard conditions unless otherwise specified: 测试和计量按下列标准条件除非特殊说明 Normal temperature (temperature 5 to 35℃) 标准温度 Normal humidity (relative humidity 25 to85%) 正常湿气 Normal air pressure (Air pressure 86 to 106 kPa) 标准气压 In case any question arises from the judgment made, tests shall be conducted in the following conditions: <table><tr><td>Temperature</td><td>(20±2℃)</td><td>温度</td></tr><tr><td>Relative humidity</td><td>(65±5%)</td><td>相对湿度</td></tr><tr><td>Air Pressure</td><td>(86 to 106kPa)</td><td>气压</td></tr></table> 2. Type Of Actuation 动作类型 Tactile feedback 轻触返回 3. Contact Arrangement 1 poles 1 throws 接触形式 1 接点 1 回路 (Details of contact arrangement are given in the assembly drawings.) 细接点形式在装配图中 4. Maximum Ratings DC 12 V 50 mA 最大额定值 DC 1 V 10 μ A 最小额定值					Temperature	(20±2℃)	温度	Relative humidity	(65±5%)	相对湿度	Air Pressure	(86 to 106kPa)	气压
Temperature	(20±2℃)	温度											
Relative humidity	(65±5%)	相对湿度											
Air Pressure	(86 to 106kPa)	气压											

规格承认书

规格书编号

J.SPC.50.59-027

品名

6.2X6.2X3.5 IP67

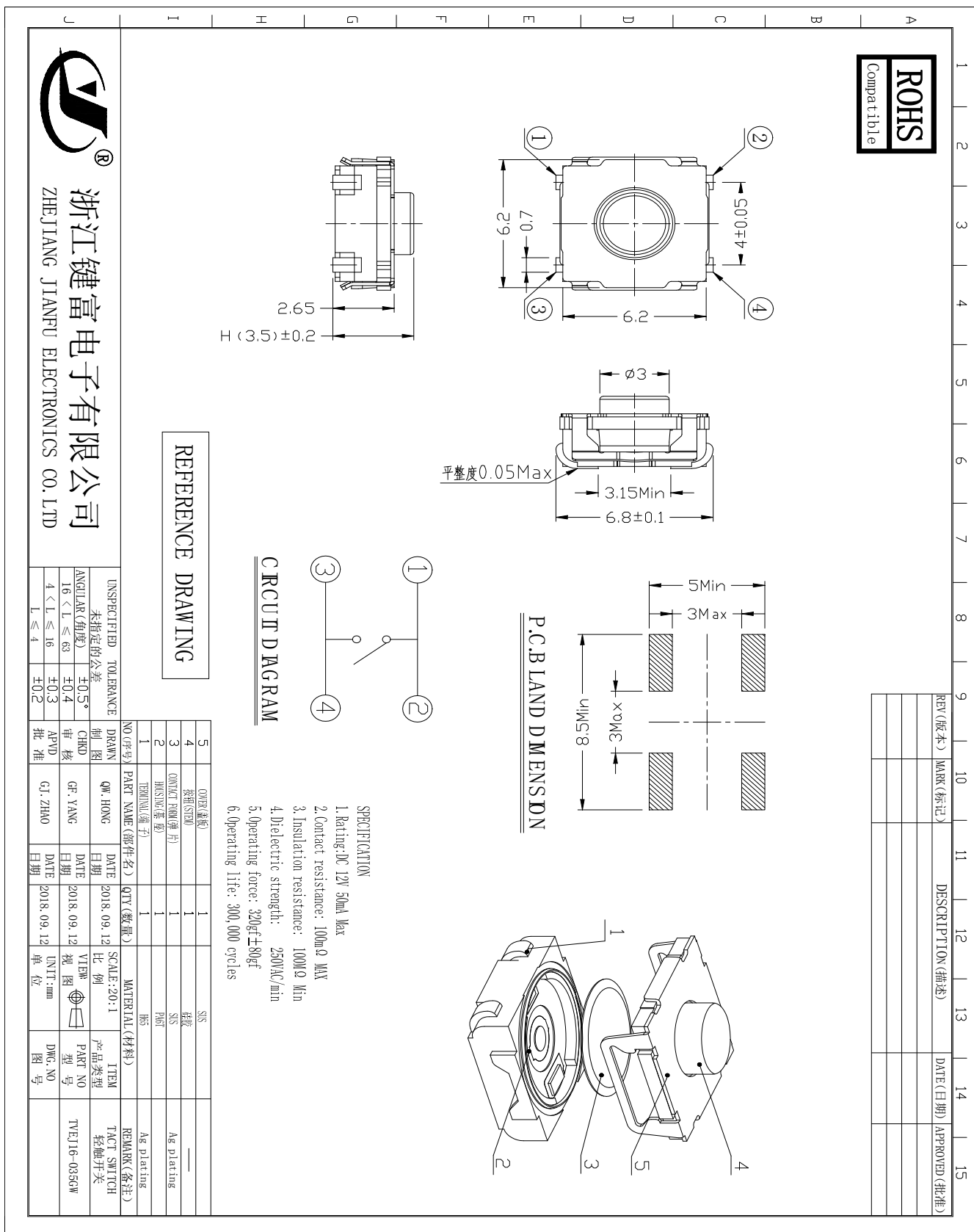
型号

TVEJ16-035GW-R

2/10

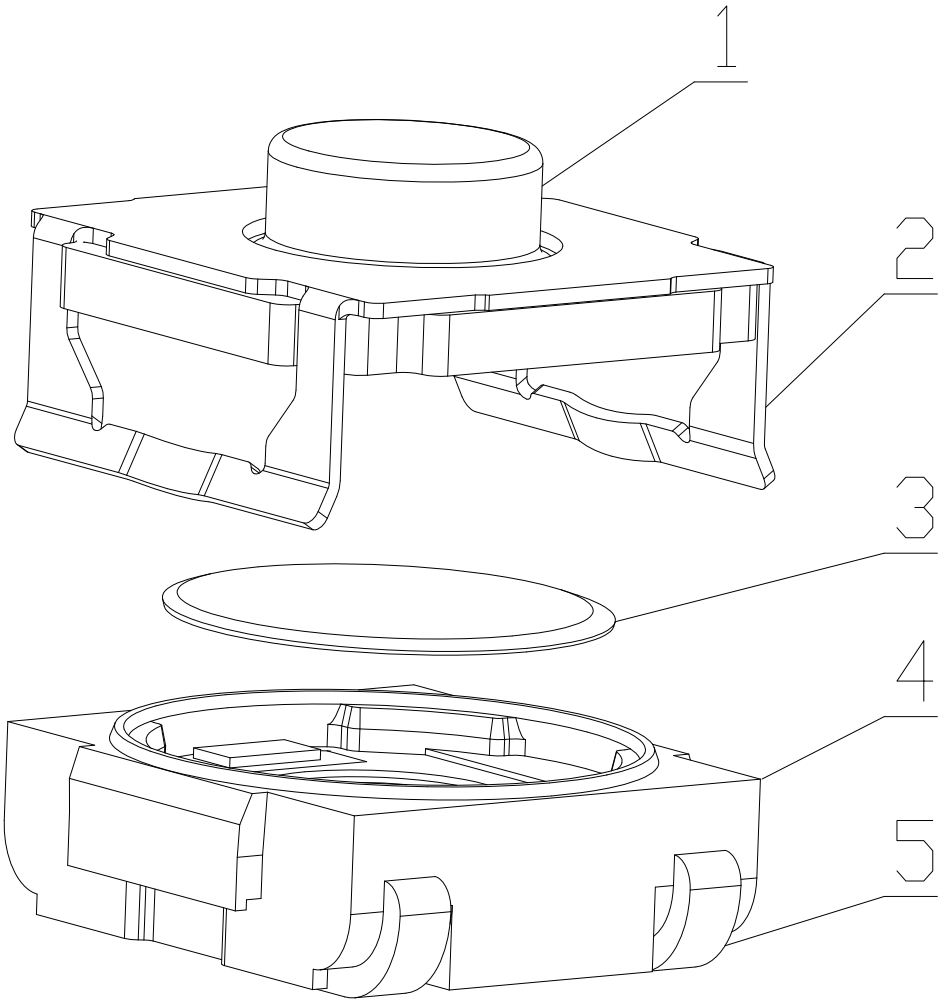
5. 外形、结构:

5.1 外形图:



规格承认书				规格书编号 J.SPC.50.59-027
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	3/10

5.2 构造:

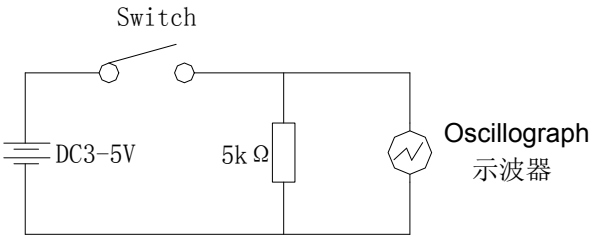
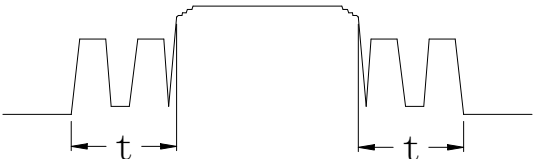


序号	零部件名称	数量	材料名称	表面处理	备注
1	STEM	1	硅胶		
2	COVER	1	SUS		
3	CONTACT	1	SUS	Ag plating	
4	BASE	1	PA6T		
5	TERMINAL	1	黄铜	Ag plating	
6					
7					

规格承认书				规格书编号 J.SPC.50.59-027
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	4/10

6. General Specification 性能

6.1 电气的性能

Item 项目		Test Condition 测试条件	Requirements 要求
6.1.1	Contact Resistance 接触电阻	Applying static load twice the actuating force to the center of the stem, measurements shall be made with a 1 kHz small-current contact resistance meter. 用两倍的动作力作静负载施加于按钮的中心,并用 1 千赫小电流接触电阻仪测量	100mΩ 以下
6.1.2	Insulation Resistance 绝缘电阻	Measurements shall be made following application of DC100V potential between terminals and between individual terminals and frame for one minute.在端子与端子之间,端子与外壳之间施加 DC100V,一分钟	100MΩ 以上
6.1.3	Dielectric withstanding voltage 电耐压	AC 250 V (50Hz or60Hz) shall be applied between terminals and between individual terminals and frame for one minute. 在端子与端子之间,端子与外壳之间施加 AC250V(50HZ-60HZ)	There shall be no breakdown. 无击穿、闪烁现象
6.1.4	Bounce 抖动	Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 operations per sec), Bounce shall be tested when “ON” and “OFF”. 在正常使用中(以每秒 3-4 次周期)轻轻地在手柄中心加力,在通与断瞬间测试抖动   t 为触点抖动时间	5mS 以下

规格承认书				规格书编号 J.SPC.50.59-027
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	5/10

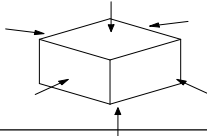
6.2 机械的性能

Item 项目		Test Condition 测试条件	Requirements 要求
6.2.1	Operating Force 动作力	Place the switch such that the direction of switch operation is vertical and then gradually increase the load applied to the center of the stem, the maximum load required for the stem to come to a stop shall be measured. 开关的动作方向为垂直放置开关向推柄中心逐渐地增加负荷直到推柄停止时所测量的最大负荷	<u>320</u> ± <u>80</u> gf
6.2.2	Travel 行程	Place the switch such that the direction of switch operation is vertical and then apply a static load twice the actuating force to the center of the stem, the travel distance for the stem to come to a stop shall be measured. 开关的动作方向为垂直放置开关,并以双倍动作力的静负荷作用推柄中心,测量推柄从开始到停止的行程距离	<u>0.50</u> ± <u>0.30</u> mm
6.2.3	Return Force 返回力	The sample switch is installed such that the direction of switch operation is vertical and, upon depression of the stem in its center the whole travel distance, the force of the stem to return to its free position shall be measured. 开关的动作方向为垂直放置开关,在已有行程的推柄中心向上减小压力,推柄回到自由位置时所测量到的力	<u>30</u> gf min
6.2.4	Static Strength 静止强度	Placing the switch such that the direction of switch operation is vertical, a static load of <u>49</u> N shall be applied in the direction of stem operation for a period of <u>15</u> seconds. 开关的动作方向为垂直放置开关,在推柄动作方向施加 49N 的静负荷, 15 秒时间	There shall be no sign of damage mechanically and electrically. 无机械的和电气的损伤迹象

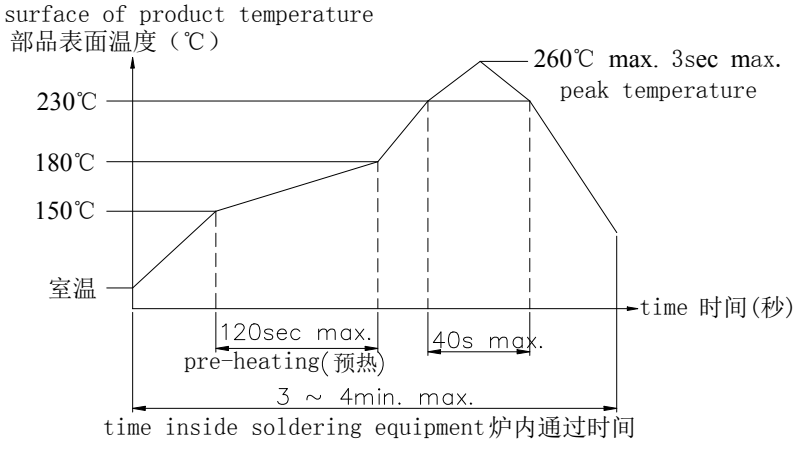
规格承认书				规格书编号 J.SPC.50.59-027
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	6/10
6.3 使用耐久性能				
Item 项目		Test Condition 测试条件	Requirements 要求	
6.3.1	Operating Life 动作寿命	Measurements shall be made following the test set forth below:按下列条件进行寿命试验 (1)DC 12V 50mA resistive load. DC 12V 50mA 阻性负载 (2)Rate of operation:2 to 3 operations per second 动作频率: 2-3 次/每秒 (3)Depression: 480 gf 减压力 (4)Cycles of operation: 30×10 ⁴ cycles 动作次数: 30×10 ⁴ 次	Contact resistance: 500 mΩ Max. 接触电阻 Insulation resistance: 50 MΩ Min. 绝缘电阻 Actuating force: 动作力 + 30 %or- 30%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±2℃ 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: 200 mΩ Max. 接触电阻 Insulation resistance : 50 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±2℃ 温 度 (2) Time: 96 hours 时 间 Water drops shall be removed. 擦除水珠	Contact resistance: 200 mΩ Max. 接触电阻 Insulation resistance : 50 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: 90±2℃ 温 度 (2) Time: 96 hours 时 间	Contact resistance: 200 mΩ Max. 接触电阻 Insulation resistance : 50 MΩ Min. 绝缘电阻 Item 6.1.3、6.1.4 Item 6. 2.1~6.2.3	
6.3.5	IP67	1m 浸渍 30 分钟	产品内部不能进水,功能正常	

规格承认书				规格书编号 J.SPC.50.59-027
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	7/10
Item 项目		Test Condition 测试条件		Requirements 要求
6.3.6	Change of Temperature 温度循环	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 温度(℃) A: +90℃ B: -40℃ C: 2 小时 D: 1 小时 E: 2 小时 F: 1 小时 时间(hour) Cycling: 5 cycles 周 期: 5 次		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
6.3.7	Vibration Resistance 耐振动	Measurements shall be made following the test set forth below: 按下列条件进行抗振动试验 (1)Range of oscillation: 10 to 55Hz 频率范围 (2)Amplitude,pk-to-pk:1.5mm 振幅: 峰-峰 1.5mm (3)Cycle of sweep: 10-55-10Hz in one minute, approx.扫描周期: 10-55-10Hz 约一分钟内 (4)Mode of sweep: Logarithmically sweep or uniform sweep. 扫描方式: 对数扫描式恒定扫描 (5)Direction of oscillation: 振动方向 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 (6)2 hours each ,for a total of 6hours.每方向 2 小时.共 6 小时		Item 6.1 Item 6. 2.1、6.2.2

规格承认书				规格书编号 J.SPC.50.59-027
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	8/10

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: 98m/S² 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 	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  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℃ 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℃

规格承认书				规格书编号 J.SPC.50.59-027
品 名	6.2X6.2X3.5 IP67	型 号	TVEJ16-035GW-R	9/10

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 标准型贴片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

- 9.3.1 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.

RevNo	Revision note	Date	Signature

Technical drawing of a mechanical part, likely a bracket or support, showing top and side views with dimensions in millimeters.

Top View Dimensions:

- Overall width: 16
- Slot width: 7.5 ± 0.1
- Distance from left edge to slot center: 1.4 ± 0.1
- Distance from slot center to right edge: 1.75 ± 0.1
- Distance from left edge to first hole center: 7.0 ± 0.1
- Distance between first and second hole centers: 12 ± 0.1
- Distance between second and third hole centers: 12 ± 0.1
- Distance between third and fourth hole centers: 12 ± 0.1
- Distance between fourth and fifth hole centers: 12 ± 0.1
- Distance between fifth and sixth hole centers: 12 ± 0.1
- Distance between sixth and seventh hole centers: 12 ± 0.1
- Distance between seventh and eighth hole centers: 12 ± 0.1
- Distance between eighth and ninth hole centers: 12 ± 0.1
- Distance between ninth and tenth hole centers: 12 ± 0.1
- Distance between tenth and eleventh hole centers: 12 ± 0.1
- Distance between eleventh and twelfth hole centers: 12 ± 0.1
- Distance between twelfth and thirteenth hole centers: 12 ± 0.1
- Distance between thirteenth and fourteenth hole centers: 12 ± 0.1
- Distance between fourteenth and fifteenth hole centers: 12 ± 0.1
- Distance between fifteenth and sixteenth hole centers: 12 ± 0.1
- Distance between sixteenth and seventeenth hole centers: 12 ± 0.1
- Distance between seventeenth and eighteenth hole centers: 12 ± 0.1
- Distance between eighteenth and nineteenth hole centers: 12 ± 0.1
- Distance between nineteenth and twentieth hole centers: 12 ± 0.1
- Distance between twentieth and twenty-first hole centers: 12 ± 0.1
- Distance between twenty-first and twenty-second hole centers: 12 ± 0.1
- Distance between twenty-second and twenty-third hole centers: 12 ± 0.1
- Distance between twenty-third and twenty-fourth hole centers: 12 ± 0.1
- Distance between twenty-fourth and twenty-fifth hole centers: 12 ± 0.1
- Distance between twenty-fifth and twenty-sixth hole centers: 12 ± 0.1
- Distance between twenty-sixth and twenty-seventh hole centers: 12 ± 0.1
- Distance between twenty-seventh and twenty-eighth hole centers: 12 ± 0.1
- Distance between twenty-eighth and twenty-ninth hole centers: 12 ± 0.1
- Distance between twenty-ninth and thirtieth hole centers: 12 ± 0.1
- Distance between thirtieth and thirty-first hole centers: 12 ± 0.1
- Distance between thirty-first and thirty-second hole centers: 12 ± 0.1
- Distance between thirty-second and thirty-third hole centers: 12 ± 0.1
- Distance between thirty-third and thirty-fourth hole centers: 12 ± 0.1
- Distance between thirty-fourth and thirty-fifth hole centers: 12 ± 0.1
- Distance between thirty-fifth and thirty-sixth hole centers: 12 ± 0.1
- Distance between thirty-sixth and thirty-seventh hole centers: 12 ± 0.1
- Distance between thirty-seventh and thirty-eighth hole centers: 12 ± 0.1
- Distance between thirty-eighth and thirty-ninth hole centers: 12 ± 0.1
- Distance between thirty-ninth and fortieth hole centers: 12 ± 0.1
- Distance between fortieth and forty-first hole centers: 12 ± 0.1
- Distance between forty-first and forty-second hole centers: 12 ± 0.1
- Distance between forty-second and forty-third hole centers: 12 ± 0.1
- Distance between forty-third and forty-fourth hole centers: 12 ± 0.1
- Distance between forty-fourth and forty-fifth hole centers: 12 ± 0.1
- Distance between forty-fifth and forty-sixth hole centers: 12 ± 0.1
- Distance between forty-sixth and forty-seventh hole centers: 12 ± 0.1
- Distance between forty-seventh and forty-eighth hole centers: 12 ± 0.1
- Distance between forty-eighth and forty-ninth hole centers: 12 ± 0.1
- Distance between forty-ninth and fiftieth hole centers: 12 ± 0.1
- Distance between fiftieth and fifty-first hole centers: 12 ± 0.1
- Distance between fifty-first and fifty-second hole centers: 12 ± 0.1
- Distance between fifty-second and fifty-third hole centers: 12 ± 0.1
- Distance between fifty-third and fifty-fourth hole centers: 12 ± 0.1
- Distance between fifty-fourth and fifty-fifth hole centers: 12 ± 0.1
- Distance between fifty-fifth and fifty-sixth hole centers: 12 ± 0.1
- Distance between fifty-sixth and fifty-seventh hole centers: 12 ± 0.1
- Distance between fifty-seventh and fifty-eighth hole centers: 12 ± 0.1
- Distance between fifty-eighth and fifty-ninth hole centers: 12 ± 0.1
- Distance between fifty-ninth and sixtieth hole centers: 12 ± 0.1
- Distance between sixtieth and sixty-first hole centers: 12 ± 0.1
- Distance between sixty-first and sixty-second hole centers: 12 ± 0.1
- Distance between sixty-second and sixty-third hole centers: 12 ± 0.1
- Distance between sixty-third and sixty-fourth hole centers: 12 ± 0.1
- Distance between sixty-fourth and sixty-fifth hole centers: 12 ± 0.1
- Distance between sixty-fifth and sixty-sixth hole centers: 12 ± 0.1
- Distance between sixty-sixth and sixty-seventh hole centers: 12 ± 0.1
- Distance between sixty-seventh and sixty-eighth hole centers: 12 ± 0.1
- Distance between sixty-eighth and sixty-ninth hole centers: 12 ± 0.1
- Distance between sixty-ninth and seventieth hole centers: 12 ± 0.1
- Distance between seventieth and seventy-first hole centers: 12 ± 0.1
- Distance between seventy-first and seventy-second hole centers: 12 ± 0.1
- Distance between seventy-second and seventy-third hole centers: 12 ± 0.1
- Distance between seventy-third and seventy-fourth hole centers: 12 ± 0.1
- Distance between seventy-fourth and seventy-fifth hole centers: 12 ± 0.1
- Distance between seventy-fifth and seventy-sixth hole centers: 12 ± 0.1
- Distance between seventy-sixth and seventy-seventh hole centers: 12 ± 0.1
- Distance between seventy-seventh and seventy-eighth hole centers: 12 ± 0.1
- Distance between seventy-eighth and seventy-ninth hole centers: 12 ± 0.1
- Distance between seventy-ninth and eightieth hole centers: 12 ± 0.1
- Distance between eightieth and eighty-first hole centers: 12 ± 0.1
- Distance between eighty-first and eighty-second hole centers: 12 ± 0.1
- Distance between eighty-second and eighty-third hole centers: 12 ± 0.1
- Distance between eighty-third and eighty-fourth hole centers: 12 ± 0.1
- Distance between eighty-fourth and eighty-fifth hole centers: 12 ± 0.1
- Distance between eighty-fifth and eighty-sixth hole centers: 12 ± 0.1
- Distance between eighty-sixth and eighty-seventh hole centers: 12 ± 0.1
- Distance between eighty-seventh and eighty-eighth hole centers: 12 ± 0.1
- Distance between eighty-eighth and eighty-ninth hole centers: 12 ± 0.1
- Distance between eighty-ninth and ninetyth hole centers: 12 ± 0.1
- Distance between ninetyth and ninety-first hole centers: 12 ± 0.1
- Distance between ninety-first and ninety-second hole centers: 12 ± 0.1
- Distance between ninety-second and ninety-third hole centers: 12 ± 0.1
- Distance between ninety-third and ninety-fourth hole centers: 12 ± 0.1
- Distance between ninety-fourth and ninety-fifth hole centers: 12 ± 0.1
- Distance between ninety-fifth and ninety-sixth hole centers: 12 ± 0.1
- Distance between ninety-sixth and ninety-seventh hole centers: 12 ± 0.1
- Distance between ninety-seventh and ninety-eighth hole centers: 12 ± 0.1
- Distance between ninety-eighth and ninety-ninth hole centers: 12 ± 0.1
- Distance between ninety-ninth and one hundredth hole centers: 12 ± 0.1
- Distance between one hundredth and one hundred-first hole centers: 12 ± 0.1
- Distance between one hundred-first and one hundred-second hole centers: 12 ± 0.1
- Distance between one hundred-second and one hundred-third hole centers: 12 ± 0.1
- Distance between one hundred-third and one hundred-fourth hole centers: 12 ± 0.1
- Distance between one hundred-fourth and one hundred-fifth hole centers: 12 ± 0.1
- Distance between one hundred-fifth and one hundred-sixth hole centers: 12 ± 0.1
- Distance between one hundred-sixth and one hundred-seventh hole centers: 12 ± 0.1
- Distance between one hundred-seventh and one hundred-eighth hole centers: 12 ± 0.1
- Distance between one hundred-eighth and one hundred-ninth hole centers: 12 ± 0.1
- Distance between one hundred-ninth and one hundred-tenth hole centers: 12 ± 0.1
- Distance between one hundred-tenth and one hundred-eleventh hole centers: 12 ± 0.1
- Distance between one hundred-eleventh and one hundred-twelfth hole centers: 12 ± 0.1
- Distance between one hundred-twelfth and one hundred-thirteenth hole centers: 12 ± 0.1
- Distance between one hundred-thirteenth and one hundred-fourteenth hole centers: 12 ± 0.1
- Distance between one hundred-fourteenth and one hundred-fifteenth hole centers: 12 ± 0.1
- Distance between one hundred-fifteenth and one hundred-sixteenth hole centers: 12 ± 0.1
- Distance between one hundred-sixteenth and one hundred-seventeenth hole centers: 12 ± 0.1
- Distance between one hundred-seventeenth and one hundred-eighteenth hole centers: 12 ± 0.1
- Distance between one hundred-eighteenth and one hundred-nineteenth hole centers: 12 ± 0.1
- Distance between one hundred-nineteenth and one hundred-twentieth hole centers: 12 ± 0.1
- Distance between one hundred-twentieth and one hundred-twenty-first hole centers: 12 ± 0.1
- Distance between one hundred-twenty-first and one hundred-twenty-second hole centers: 12 ± 0.1
- Distance between one hundred-twenty-second and one hundred-twenty-third hole centers: 12 ± 0.1
- Distance between one hundred-twenty-third and one hundred-twenty-fourth hole centers: 12 ± 0.1
- Distance between one hundred-twenty-fourth and one hundred-twenty-fifth hole centers: 12 ± 0.1
- Distance between one

MODEL NAME	CODE NO.
TVEJ16	

Technical drawing of a reel, showing top and side views.

Top View: A circular reel with a central hub and four spokes. A label is attached to the outer rim. The label is rectangular with a width of 16.4 and a height of 0.2. The outer diameter is 330 and the inner diameter is 100.

Side View: A cross-section of the reel showing the outer diameter of 330 and the inner diameter of 100. The height of the reel is 16.4. The label is shown as a rectangular block on the outer rim.

Dimensions:

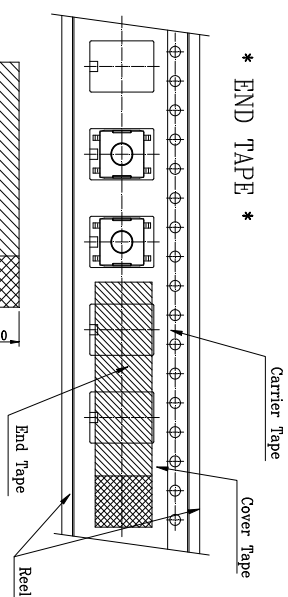
- Outer Diameter: $\phi 330$
- Inner Diameter: $\phi 100$
- Label Height: 16.4
- Label Width: 0.2

Labels:

- Label
- Reel

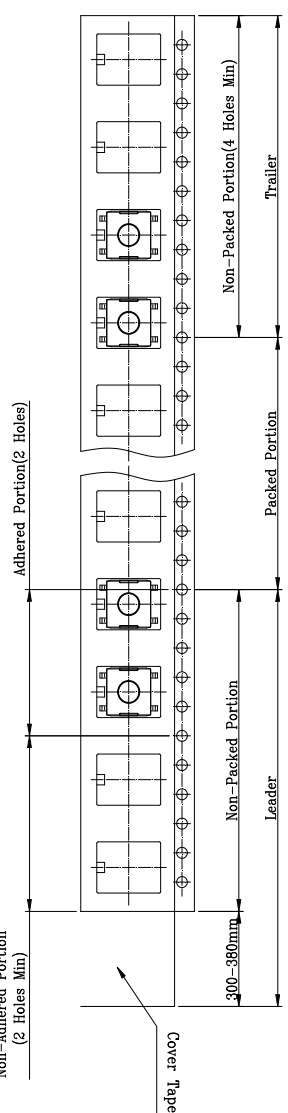
Direction: DRAWING DIRECTION (indicated by an arrow pointing right)

* END TAPE *



End

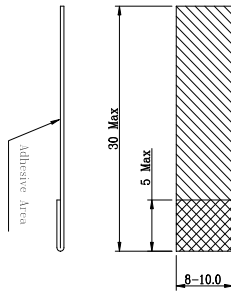
Start

Non-Adhered Portion
(2 Holes Min)

NOTE

1. 1.5K pcs SWITCHES PER 1 REEL
2. GENERAL TOLERANCE : 0.2mm

REFERENCE DRAWING



Designed by	 ZHEJIANG JIANPU ELECTRONICS CO., LTD JIANPU ELECTRONICS CO., LTD.			
Checked by				
Approved by	Unit	Scale	N/S	Date
Item	TACTILE SWITCH	mm		2018.09.10
Model	6.2X6.2 Flat	Tool	A-Cad	Sheet 1/1 Rev. 1
		Drawing name ASSEMBLY		