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规格书

SPECIFICATION FOR APPROVAL

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产品名称 Product Name	温度保险丝 Thermal-Link				
产品型号 Product Model	RK184				
产品编码 Product Code	1007160090001				
产品描述 Product Description	有机物型温度保险丝 RK184 184 °C 20 A 250 VAC，总长 65 mm，引线长16/35 mm，激光打标。 Organic Thermal-Link RK184 184 °C 20 A 250 VAC, Total Length 65 mm, Lead Length 16/35 mm, Laser Marking.				
额定电流&电压 Rated Current & Voltage	20 A 250 VAC				
认证 Agency Approval	UL, cUL				
制造商 Manufacturer	厦门赛尔特电子股份有限公司 Xiamen SET Electronics Co., Ltd.				
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客户批准 CUSTOMER APPROVAL

客户名称 Customer Name					
客户料号 Customer P/N					
结论 Conclusion			☐ 合格（承认）Qualified ☐ 不合格 Unqualified 不合格原因：Root Cause:		
生效日期 Effective Date			年 YY	月 MM	日 DD
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1. 适用范围 Scope

本规格书适用于有机物型温度保险丝（以下简称温度保险丝或热熔断体）之规定。

The specification is available for Organic Thermal-Link product, hereinafter referred to as OTCO.

2. 术语 Glossary

2.1 热熔断体 Thermal-Link (TCO)

装有热元件的不可复位的器件, 当它被暴露在超过所设计的温度下达到一个足够长的时间时会将电路断开。

A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a sufficient length of time to a temp. in excess of that for which it has been designed.

2.2 有机物型热熔断体 Organic Thermal-Link (OTCO)

以有机化合物作为感温部件的热熔断体。

Organic type Thermal-Link, organic is the THERMAL ELEMENT.

2.3 额定动作温度 Rated Functioning Temp. (T_f)

在仅通以不超过 10 mA 的探测电流的条件下, 测得的使热熔断体导电状态改变的温度。

The temp. of the Thermal-Link which causes it to change its state of conductivity with a detection current up to 10 mA as the only load.

允许偏差 Tolerance: $T_f + 0 / -10$ K (GB/T 9816, EN60691, UL60691, KC60691).

允许偏差 Tolerance: $T_f \pm 7$ K (J60691).

2.4 实测熔断温度 Fusing Temp.

置于油池中, 通 10 mA 以下的负载电流, 每分钟升温 0.5 K ~ 1 K, 测得的断开温度。

The temp. of the Thermal-Link which causes it to change its state of conductivity is measured with silicone oil bath in which the temp. is increased at the rate of 0.5 K/min to 1 K/min, with a detection current up to 10 mA as the only load.

2.5 保持温度 Holding Temp. (T_h)

热熔断体持续通额定电流 168 小时不改变其导通状态的最高温度。

The Max. temp. of the Thermal-Link at which it will not change its state of conductivity during 168 hours at the rated current.

2.6 最高极限温度 Max. Temp. Limit (T_m)

由制造厂规定的温度, 在此温度下, 热熔断体导电状态已改变, 但其机械性能和电气性能在规定时间内不至于减弱。

The temp. of the Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Thermal-Link, having changed its state of conductivity, will not be impaired for a given time.

2.7 额定电流 Rated Current (I_r)
用来对熔断体进行分类的电流。
The current used to classify a Thermal-Link.

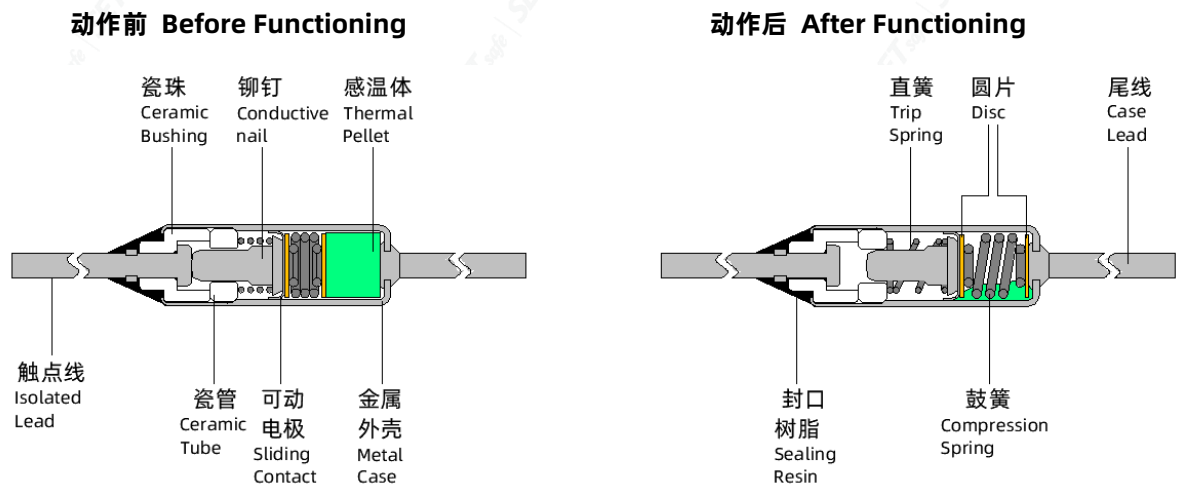
2.8 额定电压 Rated Voltage (U_r)
用来对熔断体进行分类的电压。
The voltage used to classify a Thermal-Link.

2.9 标称放电电流 Nominal Discharge Current (I_n)
能够承受 15 次波形为 8/20 μs 的电流峰值，用于检测产品所能承受脉冲电流耐久性的能力。
Being able to withstand 15 peak currents of waveform 8/20 μs to test the product's durability of withstanding pulse current.

2.10 最大放电电流 Max. Discharge Current (I_{max})
能够承受 1 次波形为 8/20 μs 的电流峰值，用于检测产品所能承受的最大脉冲电流。
Being able to withstand 1 peak current of waveform 8/20 μs to test max. pulse current that the product can withstand.

3. 结构尺寸 Structure and Dimensions

3.1 结构图 Structure



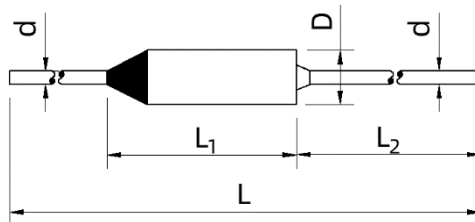
在正常工作情况下，触点线与铆钉保持接触，当有机物型熔断体感受到异常发热并达到预定的熔断温度时，感温体熔化，铆钉在直簧的作用下与触点线脱离，从而断开电路。

Under normal operating temp., the isolated lead connected to the Conductive nail. When the Thermal-Link senses abnormal heat and temp. reaches the predetermined fusing temp., thermal pellet melts and the Conductive nail separates from the isolated lead with the assistance of trip spring, thereby the circuit is disconnected.

3.2 主要原材料明细 Main Material List

序号 NO.	零件名 Part Name	材质 Materials	序号 NO.	零件名 Part Name	材质 Materials
1	触点线 Isolated Lead	镀银铜线 Silvered Copper Wire	7	可动电极 Sliding Contact	银铜带 Silver Copper Strip
2	封口树脂 Sealing Resin	环氧树脂 Epoxy Resin	8	圆片 Disc	铜合金 Copper Alloy
3	瓷珠 Ceramic Bushing	氧化铝 Aluminum Oxide	9	鼓簧 Compression Spring	不锈钢 Stainless Steel
4	瓷管 Ceramic Tube	氧化铝 Aluminum Oxide	10	感温体 Thermal Pellet	有机物 Organic Matter
5	铆钉 Conductive nail	铜镀银 Copper silver plating	11	金属外壳 Metal Case	黄铜镀银 Silver Plating On Brass
6	直簧 Trip Spring	不锈钢 Stainless Steel	12	尾线 Case Lead	镀锡铜线 Tinned Copper Wire

3.3 尺寸 Dimensions (mm)



L	L ₁	L ₂	D	d
65 ± 3	(14)	35 ± 2	φ4.0 ± 0.2	φ1.2 ± 0.1

4. 安规认证 Agency Approvals

认证标志 Agency	标准 Standards	认证号 File NO.	类别 Category
	UL60691	E214712	XCMQ2
	CAN/CSA-E60691	E214712	XCMQ8

5. 环保 Environment

环保 Environment	指令号 Directive No.	指令 Directive
RoHS	2015/863/EU	满足 RoHS 指令 Meet the RoHS
REACH	1907/2006/EC	满足 REACH 法规 Meet the REACH

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6. 技术参数 Specifications

额定动作温度 Rated Functioning Temp. T_f	实测熔断温度 Fusing Temp.	保持温度 (本体) Holding Temp. T_h (Body)	最高极限温度 Max. Temp. Limit T_m	额定电流 Rated Current I_t	额定电压 Rated Voltage U_r
(°C)	(°C)	(°C)	(°C)	(A)	(VAC)
184	181 ± 2	171	500	20	250

7. 检验方法和标准 Inspection Method & Standards

序号 No.	项目 Items	检验工具 Inspection Tools	检验要求 Inspection Requirement	参考标准 Reference Standards
1	外观 Appearance	目视 Visual	引脚和本体无氧化发黑, 标识清晰。 The lead and body shall have no oxidation or blackening, and the marking should be legible.	企业标准 Enterprise Standard
2	尺寸 Dimensions	游标卡尺 Caliper	尺寸需符合 3.3 节要求。 The dimensions shall meet requirement listed in section 3.3.	企业标准 Enterprise Standard
3	拉力 Tensile Force	推拉试验仪 Push Pull Tester	每条引线承受 22.7 N 拉力 1 分钟, 封口树脂应无脆裂, 引线应无断裂。 Each lead wire was endured a pull force of 22.7 N for 1 min., sealing resin and lead wire shall not be broken.	IEC 60691/ UL 60691
4	折弯/扭曲 Bending / Twist Force	扭曲工装 Twist Jig	在距离本体 10 mm 处将引线折弯 90°, 再扭曲 180°, 封口树脂应无脆裂, 引线应无断裂。 Bend the lead wires 90° at the point 10 mm away from the body, and then twist it 180°, sealing resin and lead wire shall not be broken.	IEC 60691/ UL 60691
5	内电阻 Resistance	电阻测试仪 Resistance Tester	两测量点之间的距离应为 25 mm, 测量电流不超过 1 A, 测得内电阻 $R \leq 1.0$ mΩ。 The distance between the two measuring points shall be 25 mm and the measuring current shall not exceed 1A, the resistance should ≤ 1.0 mΩ.	GB/T 9816

6	实测熔断温度 Fusing Temp.	硅油池动作温度 测试仪 Silicone Oil Bath	用硅油池动作温度测试仪测量，需符合 6.0 节要求。 Test it in a Silicone oil bath, the result shall meet the requirements listed in section 6.0.	IEC 60691/ UL 60691
7	绝缘电阻 Insulation Resistance	耐压绝缘测试仪 Withstand Voltage Insulation Tester	产品动作后，两引脚间绝缘电阻 ≥ 0.2 M Ω ，测试电压为 500 VDC。 After product opened under a testing voltage of 500 VDC, the insulation resistance between two lead wires shall be no less than 0.2 M Ω .	IEC 60691/ UL 60691
8	电气强度 Dielectric Strength	耐压绝缘测试仪 Withstand Voltage Insulation Tester	产品动作后，两引脚间承受：500 VAC x 1 分钟，漏电流 ≤ 10 mA。 After product opened, when the two lead wires endured a voltage of 500 VAC for 1 min, leakage current shall be less than or equal to 10 mA.	IEC 60691/ UL 60691

备注：测试条件为温度 15 °C ~ 35 °C、湿度 25 % ~ 75 %。

Note: test conditions are temperature at 15 °C ~ 35 °C, RH 25 %~75 %.

8. 安全预防措施 Safety Precautions

8.1 请在不超过额定电流和额定电压的状态下使用温度保险丝。

Please use OTCO without exceeding the rated current and voltage.

8.2 不要在标准范围外的环境中使用温度保险丝，如含有二氧化硫、氮氧化物气体、氨气或甲酸的环境。也不适合在高湿环境下使用或浸泡在液体中。

Do not use the OTCO in environments out of the standard specifications, such as those containing sulfur dioxide gas, nitrogen oxide gas, ammonia gas or formic acid. It is also not suitable for using in high humidity environment or immersing in liquid.

8.3 温度保险丝是不可修复的产品。基于安全原因，替换时应使用同一厂商同型号的温度保险丝并且严格按照同样的方法正确安装。

OTCO is a non-repairable product. For safety aspect, it shall be replaced by an equivalent OTCO from the same manufacturer, and mounted in the same way.

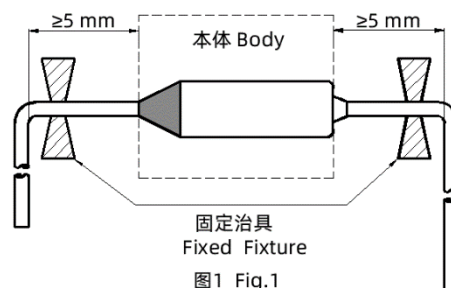
8.4 勿将温度保险丝安装在可能经常出现剧烈振动的地方。

Do not locate the OTCO in a place where severe vibration always occurs.

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- 8.5** 为了减少温度设计与实际情况存在偏差，温度保险丝建议安装在紧靠温控器或温度传感器的位置。
To reduce the deviations between the temperature design and the actual situation, it is recommended that the OTCO be installed in close to the thermostat or temperature sensor.
- 8.6** 温度保险丝通电时，其本体会发热，导致本体温度高于环境温度，设计时需考虑温升的影响，以确定合适的温度保险丝规格。
The body of OTCO will generate heat as current flows through it, resulting the body temp. higher than ambient temp. The influence of temp. rise shall be considered in the design to determine the appropriate OTCO model.
- 8.7** 考虑可能的温冲情况，温度保险丝工作时本体温度和安装位置的环境温度建议不超过 $(T_h - 10)^\circ\text{C}$ 。
Considering possible temperature shock situations, it is recommended that the temperature of the body and the ambient temperature of the installation location during the operation of the temperature fuse should not exceed $(T_h - 10)^\circ\text{C}$.
- 8.8** 需对最终产品进行测试，以确保潜在的异常状况不会导致环境温度超过温度保险丝的最高极限温度 T_m 。
The end product should be tested to ensure that potential abnormal conditions do not cause ambient temp. to exceed the T_m of the OTCO.
- 8.9** 引线加工 Lead Process
- 8.9.1** 如果一定要弯折引线，那么不要对引线根部施加过大的压力。施加在引线上的拉力不应超过 22.7 N，施加在引线上的推力不应超过 5.7 N。
If lead wires has to be bent, it is important not to apply excessive pressure to the root of the lead wires. The tensile forces applied to the lead wires shall not exceed 22.7 N, and the thrust force applied to the lead wires shall not exceed 5.7 N.
- 8.9.2** 引线应在距离温度保险丝本体 5 mm 或以上的地方弯折（参考图 1）。
The lead wires should be bent at a distance 5 mm or above from the body of OTCO (See Fig. 1).
- 8.9.3** 为避免损坏温度保险丝，在折弯引线时，请使用钳子或类似工具固定温度保险丝。
To avoid damaging the OTCO, when bending lead wires, please use pincher or similar tools to fix the OTCO.



8.10 安装温度保险丝 Mounting OTCO**8.10.1** 温度保险丝可以通过钎焊、点焊、铆接或压接来安装。在安装过程中和安装后，请不要拉动、推动或扭曲温度保险丝本体和引线。

OTCO can be installed by soldering, welding, riveting or crimping. During and after installation, please do not pull, push or twist OTCO body or lead wires.

8.10.2 引线上的连接点距离温度保险丝本体应 $\geq 5\text{ mm}$ (参考图 2)。

The connection point of the lead shall be no less than 5 mm away from the OTCO body (See Fig. 2).

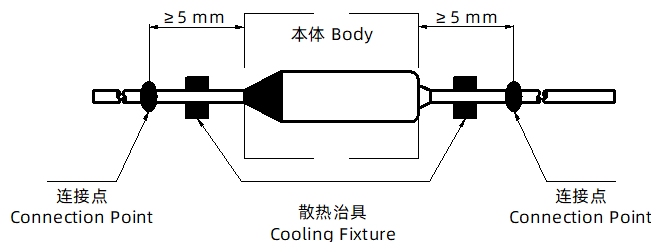


图2 FIGURE 2

8.10.3 尽量确保温度保险丝均匀受热。如果温差不可避免，确保封口树脂密封一侧靠近热源。

Try to ensure that the body of the OTCO is evenly heated. If the temp. difference is inevitable, make sure that the sealing resin side is connected close to the heat source.

8.10.4 钎焊 Soldering**8.10.4.1** 钎焊应根据下表条件进行，如果需要二次钎焊，应该等温度保险丝冷却至室温后再进行。

Soldering should be carried out according to below table. If secondary soldering is required, wait until the OTCO cools to room temp.

表 1: 不同焊点距离温度保险丝本体长度的最大允许钎焊时间

Table 1: Max. Allowable Soldering Time for Different Length of Soldering Point from OTCO Body

额定动作温度 Rated Functioning Temp. T_f (°C)	长度 Length (mm)	时间 Time (s)	长度 Length (mm)	时间 Time (s)	长度 Length (mm)	时间 Time (s)	最高钎焊温度 Max. Soldering Temp. (°C)
≤ 110	5	N / A	15	N / A	25	N / A	400
111 to 150	5	N / A	15	1	25	2	
151 to 190	5	1	15	2	25	3	
≥ 191	5	1	15	3	25	5	

8.10.4.2 $T_f \leq 110^\circ\text{C}$ 的温度保险丝不建议使用钎焊，推荐使用压接、铆接等非加热工艺。

Soldering is not recommended for Thermal-Link with $T_f \leq 110^\circ\text{C}$, while non heating processes such as crimping and riveting are recommended.

- 8.10.4.3** 在钎焊过程中, 焊点与温度保险丝之间应使用散热装置 (参考图 2)。
In the process of soldering, cooling fixture should be used between soldering point and OTCO body (See Fig. 2).
- 8.10.4.4** 钎焊后建议拍 X 光, 确认钎焊后感温体无收缩。
It is recommended to take X-ray after soldering, to confirm that the thermal pellet has no shrinkage after soldering.
- 8.10.5** 点焊 Welding
- 8.10.5.1** 必须避免点焊电流流入温度保险丝内部。点焊电流将使温度保险丝内部部件焊接在一起, 导致不能动作。
Avoid welding current flowing into the inside of the OTCO. The welding current will cause the internal parts to be welded together, resulting in the failure function of OTCO.
- 8.10.5.2** 点焊过程中必须支撑温度保险丝的引线, 以避免温度保险丝的损坏。
During the welding process, the lead wires of the OTCO must be supported to avoid the damage of the OTCO.
- 8.10.5.3** 在点焊过程中, 焊点与温度保险丝之间应使用散热装置 (参考图 2)。
In the process of welding, cooling fixture should be used between welding point and OTCO body (See Fig. 2).
- 8.10.5.4** 点焊后建议拍 X 光, 确认点焊后感温体无收缩。
It is recommended to take X-ray after welding, to confirm that the thermal pellet has no shrinkage after welding.
- 8.10.6** 铆接或压接 Riveting or Crimping
- 8.10.6.1** 选择低电阻的材料 (比如铜) 进行铆接或压接。
Select materials with low resistance (such as copper) for riveting or crimping.
- 8.10.6.2** 接触电阻应尽量小, 接触电阻过大会导致温升过高, 使温度保险丝提前动作。
Contact resistance shall be as small as possible. Large contact resistance will cause high temp. to make OTCO open in advance.
- 8.10.6.3** 最好将温度保险丝引线和多股线压接, 而不是单股线, 因为在温度循环时, 多股线能卡得更紧, 能保持更好的电接触。
It is better to crimp OTCO leads to stranded lead wires rather than solid wires as the stranded wire may be crimped tighter and maintain better electrical contact during temp. cycling.
- 8.10.6.4** 铆接或压接过程中, 应确保引线不会被扭转, 封口树脂不会被破坏。
During the riveting or crimping process, ensure that the lead wires shall not be reversed, sealing resin shall not be destroyed.

8.10.6.5 当工作温度超过 150 °C 时, 铆接或压接后建议使用钎焊加固。

When the working temp. exceeds 150 °C, soldering reinforcement is recommended after riveting or crimping.

8.11

禁止触点线直接接触温度保险丝本体, 以避免短路 (参考图 3)。

The isolated lead is forbidden to contact OTCO body directly to avoid short circuit (See Fig. 3).

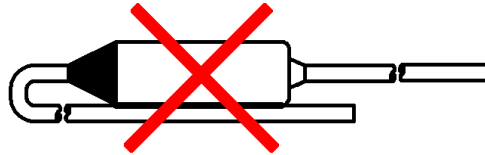
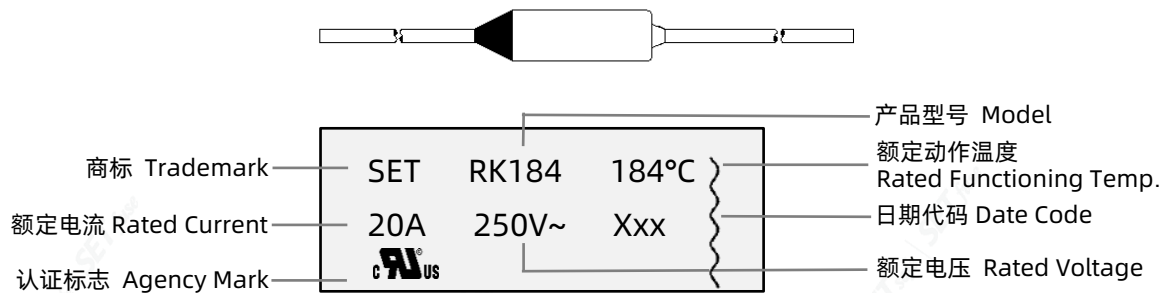


图3 FIGURE 3

9. 标识及包装 Marks and Package**9.1** 产品本体标识 Marking on Product

备注: 日期代码首字母代表年份, 字母 A 代表 2026 年, 字母 B 代表 2027 年, 以此类推。后面两位数字代表季度, 季度代码由 01、02、03、04 表示, 代表一年的四季。

Note: The first letter of date code represents the year, letter A represents 2026, letter B represents 2027, and so on. The last two digits represent the quarter, the quarter code is represented by 01, 02, 03 and 04, representing the four quarters of the year.

9.2 小包装标示事项 Marking on Package

- 商标 Trademark
- RoHS 标志 RoHS Mark
- 品名 Product Name
- 型号 Model
- 额定动作温度 Rated Functioning Temp. (T_f)
- 保持温度 Holding Temp. (T_h)
- 最高极限温度 Max. Temp. Limit (T_m)
- 额定电流 Rated Current (I_t)
- 额定电压 Rated Voltage (U_t)
- 数量 Quantity
- 批号 Lot No.
- 制造公司名称 Manufacturer's Name

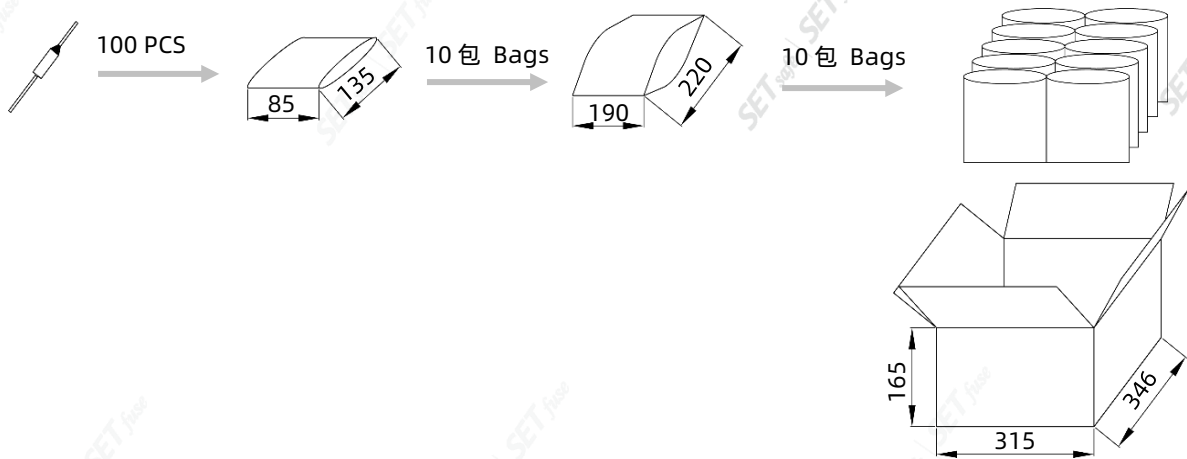
SET THERMAL-LINK (OTCO)	
Model	RK184
T_f (Rated Function Temp.)	184 °C
T_h (Holding Temp. UL/cUL)	171 °C
T_m (Max.Temp.)	500 °C
I_t (Rated Current)	20 A
U_t (Rated Voltage)	250 VAC
Quantity	100 PCS
Lot No.	XXXXXXXXXX
Standard: UL60691, CAN / CSA - E60691 XIAMEN SET ELECTRONICS CO., LTD. www.SETsafe.com / www.SETfuse.com	
190024	

9.3 包装 Packaging

9.3.1 散装 Bulk Packaging

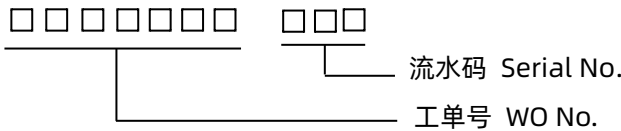
项目 Item	塑料袋 PE Bag	塑料袋 PE Bag	卡通箱 Carton
尺寸 Dimensions (mm)	135 X 85	220 X 190	346 X 315 X 165
数量 Quantity (PCS)	100	1,000	10,000

包装示意图 Packaging Drawing:

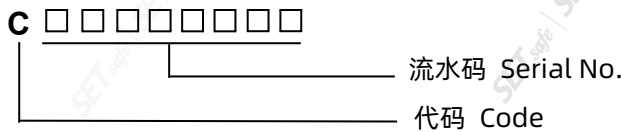


10. 产品批号&追溯号识别 Lot No. & Tracking No. System

10.1 产品批号识别 Lot No. System



10.2 产品追溯号识别 Tracking No. System



11. 储存条件和有效日期 Storage Conditions and Effective Date

11.1 温度保险丝必须避免日光照射及腐蚀性的环境，且在温度 10 °C ~ 30 °C 、湿度 30 % ~ 70 % 的条件下保存。温度保险丝的保存期为购买后 12 个月。

OTCO must be kept in a place with no sunshine or corrosive gas, the temperature shall be 10 °C ~ 30 °C and humidity within 30 % ~ 70 %. The validity storage period of OTCO is 12 months after purchase.

- 11.2** 温度保险丝的外壳和触点线都是镀银的。因此为了避免硫化，温度保险丝不应裸露在会产生亚硫酸气体的材料周围，比如纸板或橡胶等。
The case and isolated lead of OTCO are silver-plated. Therefore, to avoid vulcanization, the OTCO shall not be exposed around materials such as cardboard or rubber etc. which generate sulfurous acid gas.

12. 有效性 Validity

12.1 修订协议 Agreement of Revision

本承认书的内容若有不充分或有必要修订时，得由两公司协议后再行修订。

If the content of this specifications is inadequate or need revising, it will be revised after both parties' agreement.

12.2 有效性 Validity

本承认书提出后，于贵公司承认期间，可暂时使用，若经过 1 个月后贵公司无异议或无签回本承认书时，则视同有效文件应用。

The specifications can be used temporarily during the period of approval. If you have no any objection or not return one hardcopy to us within one month, this specifications will be operated as a valid document.

-以下无正文 END-

13. 履历 Revision History

版本 Revision Version	描述 Description	页码 Page	日期 Date
1.0	制定 Formulation	1-14 Pages	February 3, 2026