Part Number: T20.0A250V5020CD CERAMIC TUBE FUSE

Time-lag

1. 适用范围 / Scope of Application

本产品适用于各类电子设备电路的过流保护作用，广泛应用于家电，控制板，照明设备、电源 设备以及适配器等领域。

This product is suitable for over-current protection of various electronic equipment circuits, widely used in home appliances, control boards, lighting equipment, power equipment, adapters and other fields.

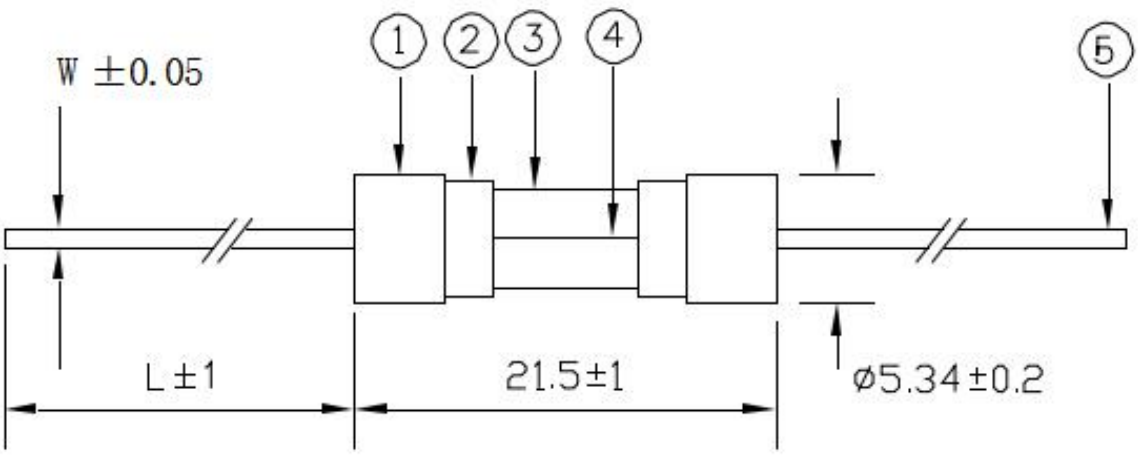
2. 安规认证标准及编号 / Standards and Agency Approvals

2.1执行标准：遵循UL248-1/14。

Standards: In accordance with UL248-1/14。

3. 结构及尺寸 / Dimensions and Structure

单位：毫米 / Unit: mm



W=0.8 L=36.5mm

编号 NO.	零件名称 Part Name	材 质 Material
①	引线铜帽 Lead end Cap	黄铜镀镍 Nickel Plated Brass
②	铜帽 Cap	黄铜镀镍 Nickel Plated Brass
③	管体 Body	陶瓷管 Ceramic Tube
④	熔丝 Fuse element	合金 Alloy
⑤	引线 Lead wire	铜镀锡 Tin plated Brass

4. 产品标示 / Product Marking

The fuses cap shall have the following markings.

示例 For Example:

12A~30A		
20A	250V	UL CSA
1	2	3

1. 额定电流/Rated Current(A): A或or mA
2. 额定电压/Rated Voltage
3. 认证符号/Approve symbo

注意 / Note: 对于标示的大小和位置没有规定。

Size and position of the markings shall not be provided

5. 产品特性/Product Characteristic

Rated Current	Rated Voltage	Breaking Capacity	I^2T A^2s
50mA	125V(50mA~30A) 250V(50mA~30A) 350V(50mA~20A)	35A@250Vac(50mA~1A) 10KA@125Vac(50mA~3.15A) 100A@250Vac(1.2A~3.15A) 300A@350Vac(50mA~10A) 200A@250Vac(3.5A~10A) 750A@125Vac(12A~30A) 300A@350Vac(12A~20A) 600A@250Vac(12A~30A)	0.001
63mA			0.001
100mA			0.002
125mA			0.003
160mA			0.005
200Ma			0.01
250mA			0.02
315mA			0.045
400mA			0.07
500mA			0.1
630mA			0.2
800mA			0.45
1.0A			0.9
1.25A			1.3
1.6A			2.5
2.0A			5.8
2.5A			7.6
3.15A			11
4.0A			28
5.0A			40
6.3A			64
8.0A			133
10.0A			242
12.0A			/
15.0A			/
20A			/
25A			/
30A			/

6. 外观及形状 / Appearances and Configuration

6.1 外观不应出现显著的污点、裂纹，标识应该容易辨识。

There shall not be any remarkable stain and crack on the appearances, markings shall be easily legible.

6.2 形状：不带引线或带直线引脚小型保险丝。

Configuration: No Lead End Cap or Axial Leaded Miniature Fuse.

7. 产品特性 / Product Characteristics

7.1 引脚拉力强度 / Lead Pull Strength

10牛顿 10±1 秒 / 10N for 10±1 Seconds

引脚推力强度 / Lead Thrust Strength

2 牛顿10±1 秒 / 2N for 10±1 Seconds

7.2 可焊性 / Solder ability

波峰焊/Wave : 260℃，≤3s;

烙铁焊/Soldering Iron: 350±10℃，≤3s.

7.3 耐焊接热 / Soldering Heat Resistance 波峰焊/Wave：260℃,<10s;

烙铁焊/Soldering Iron: 350℃，<2s.

8. 电气特性 / Electrical Characteristics

8.1 实验条件：Test Condition

所有测试环境温度为25±5℃。

All electrical test is to be conducted with the ambient air at a temperature of 25±5℃.

8.2 分断能力 / Interrupting

The insulation resistance value of fuse is greater than 0.1MΩ after breaking capacity testing.

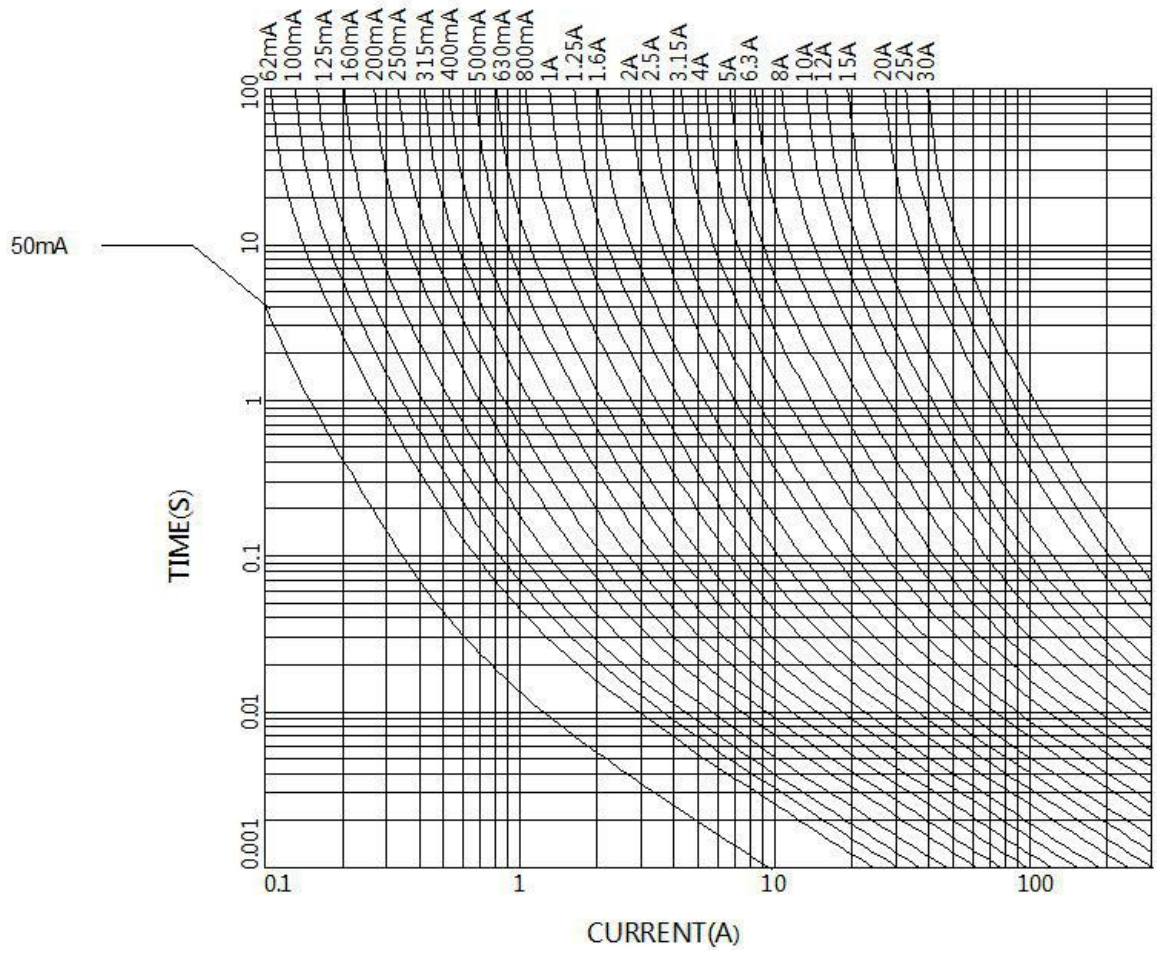
8.3 温度上升试验 / Rising Temperature Test:

通1.0倍额定电流，当温度稳定时（5分钟测量4次，且每次测量值与平均值相差不 超过2℃）。测得熔断体任何部位的温升不得超过75℃，周围环境温度为25±5℃。When the 100% times of Ampere Ratingpasses the fuse, after reaching thermal balance , the temperature on the fuse surface rising shall not behigher than 75℃. Note: Rising temperature= theSurfacetemperature-Ambienttemperature.Rising

9.4 熔断时限 / Opening Time

额定电流的%	熔断时间 Opening Time
100%	T>4hrs
135%	T<3600s
200%	T<60s
1000%	T>10ms

9.5 平均时间电流曲线图 / Average Time Current Curves



9.环境特性 / Environmental Characteristic

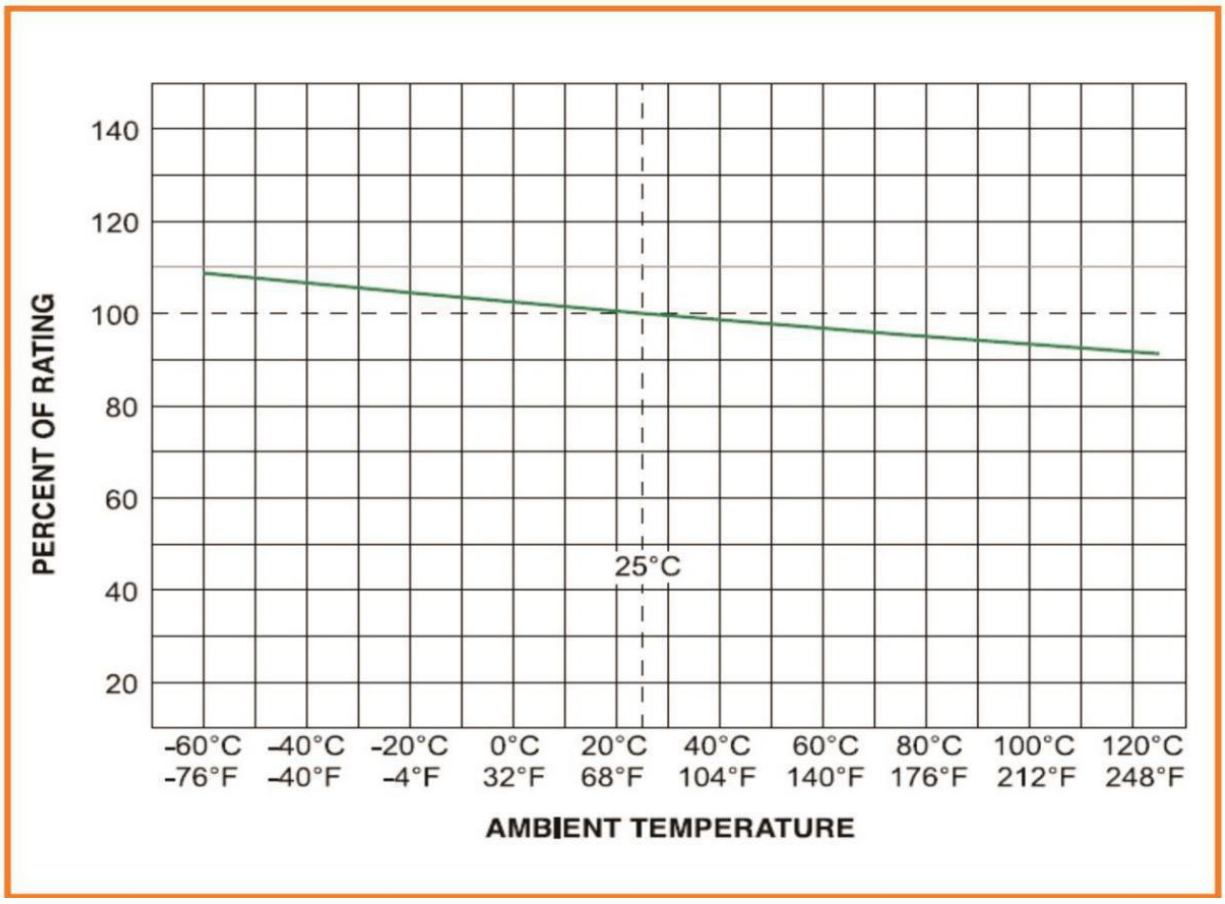
9.1 使用温度范围 / Operating Temperature -55℃～+125℃。

9.2 保存条件 Stock Condition 湿度：相对湿度≦75%平均可以存放3 年。
Humidity：Relative humidity ≤ 75% store 3 years in average.

9.3 若操作环境温度超出 25±5℃范围，在选用保险丝规格时，
需考虑操作环境温度对保险 丝的影响，请参照如下：
温度-电流曲线图。

When choosing the fuse's specification,if theoperating environmental temperature beyond the scope from 20~30℃, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Rerating Curve:

Temperature Rerating Curve



10. 安装建议 / Installation Recommendations

A. 波峰焊参数 / Wave Parameters:
锡炉温度 / Solder Pot Temperature: 260℃ ±10℃
焊接时间 / Solder Dwell Time: 2~5s

B. 手工焊参数 / Hand-Solder Parameters:
烙铁温度 / Solder Iron Temperature: 350±5℃
焊接时间 / Heating Time: 3s Max

11.包装 / Packaging

11.1 包装袋/盒印明下列标示: / The following items indicated on the label:
产品料号、额定(电压、电流)、分断类型及安规名称。
Catalog number, ratings (voltage, current), interrupting type and safety mark.

包装材料均符合RoHS/REACH/HF的环保要求，且包装材料不会和零件发生化学反应，造成不良。
The packing material conforms to ROHS/REACH/HF environmental protection request. And the packing materials will not have the chemical reaction with the components.

11.2 包装数量 / Packing Quantity
每胶袋500个保险丝 / Bulk 500 pcs in per poly bag;
每盒10胶袋1个内盒 / 10 poly bags in per inner box;
每4个内盒1个外箱 / 4 inner boxes in per outer carton