

承认书 APPROVAL SHEET

客户名称:

CUSTOMER: _____

产品名称: 贴片保险丝 SMD FUSE

PRODUCT NAME: _____

型 号: R1245F (RoHS) 4.5*12.4 (1245/4512) mm

MODEL NO.: _____

客 户 规 格:

CUST.SPECIFICATION: _____

客 户 料 号:

CUST.PART NO.: _____

供应商:

SUPPLIER: DONGGUAN REOMAX ELECTRONICS TECHNOLOGY CO LTD

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供方签章:

SUPPLIER:

日期:

DATE:



需方签章:

CUSTOMER:

日期:

DATE:

规格承认书

Specification for approval



表面贴装保险丝 250V125V72V63V32V

产品名称: R1245F 系列 1245/4512

Product Type: R1245F Series 1245/4512

Surface Mount Fuse 250V125V72V63V32V

Dongguan Reomax Electronics Technology Co., Ltd

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1. 产品特性及应用范围 / Description, Features and Applications

本产品适用于各类电子设备电路初、次级电路板的过流保护，广泛应用于固态照明、电池充电、消费电子、电子镇流器、LED AC/DC 电源供应、网络通信、医疗仪器及工业控制器等领域。

Descriptions:

REOMAX R1245F series Fast-Acting square Surface Mount fuses are ceramic tube/end cap constructions, RoHS compliant, Halogen Free and lead(Pb) exempts of the requirements of RoHS Directive(2002/95/EC), with U.S. (UL/CSA) safety agency approvals. Provide board level primary and secondary circuit protection in a wide variety of applications. With excellent inrush current withstanding capability, excellent reliability for thermal and mechanic shock, also have a high reliability and stable solder ability, end caps are available in gold/silver/nickel plated.

Features:

- Fast-Acting (Fast-Acting)
- Wide range of current rating available
- Low temperature de-rating
- Tape and Reel for automatic placement
- Small size(12.4mm*4.5mm)
- Wide operating temperature range
- RoHS compliant
- Conflict free metals

Applications:

- LED lighting
- LCD backlight inverter
- PC server
- Wireless base station
- Digital camera
- Notebook PC
- Portable Devices
- Cooling fan system
- White goods
- Industrial equipment
- Battery devices
- Power supply
- Storage system
- Game console
- Medical equipment
- LCD/PDP devices
- Networking devices
- Telecom system
- Office equipment
- Automotive devices

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

2.1 执行标准：遵循 UL 248-14。

Standards: In accordance with UL 248-14.

2.2 认证范围 Certification:

安规标准 Agency	认证范围 Ampere Range	证书编号 Agency File Number
UL	15A ~ 100A	E502159 (JDYX2)
cUL	15A ~ 100A	E502159 (JDYX8)

2.3 目录编号 Catalogue No., ● 已认证 Approved / ○ 认证中 Pending

目录编号 Catalog No.	额定电流 Ampere Rating	额定电压 Voltage Rating	分断能力 Breaking Capacity	冷阻值 Nominal Cold Resistance (Ohms)	熔化热能 I ² T Melting Integral(A ² .S)	安规认证 Agency Approvals	
							
R1245F.15	15A	250V/125VAC/DC 72V63V/32VDC	200A@250VAC 500A:@125VAC 1000A@72V63V/32VDC	0.0033	365	●	●
R1245F.20	20A			0.0025	630	●	●
R1245F.25	25A			0.0018	1000	●	●
R1245F.30	30A			0.0014	1750	●	●

- *: These catalog no. cold resistance and I²t value are pending due to fuse elements shall be customized;
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25℃;
- Typical Pre-arcing I²t are calculated at 10*I_n Current or 8ms;
- Min Interrupting Rating: 1.35*I_n.

3. 产品标示 / Product Marking

保险丝上需有下列标示 / The fuses shall have the following markings

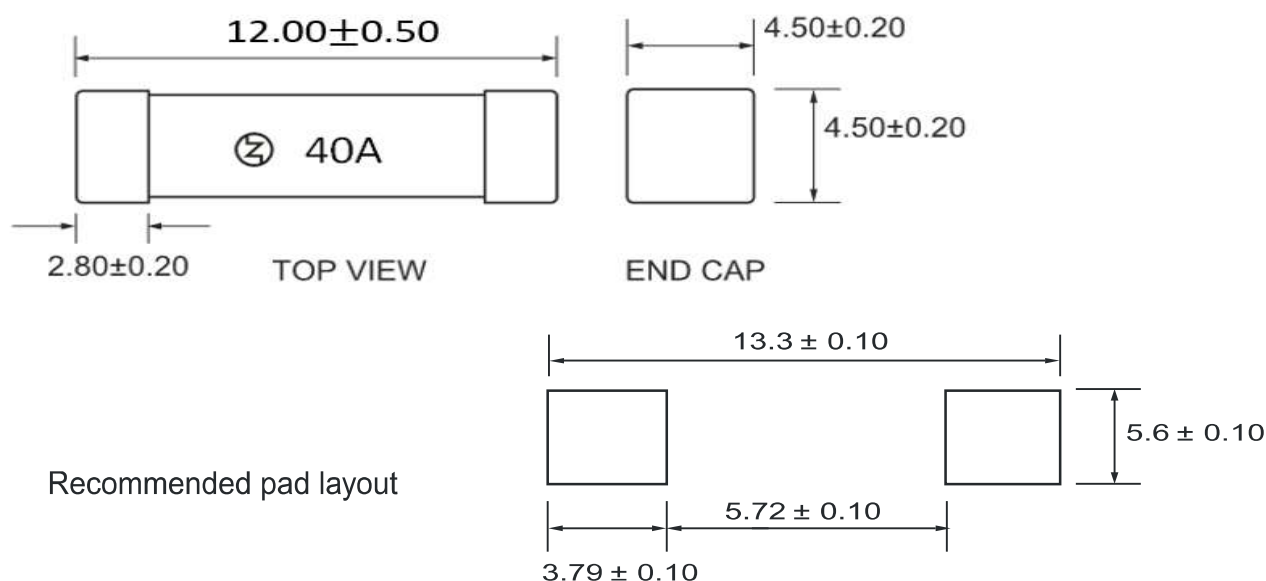
示例 Example:

	30A	①	制造厂商标识/REOMAX Trade Mark: 
①	②	②	额定电流/Rated Current (A): __A 或 or __mA

注: 对于标示的大小和位置没有规定 / Note: Size and position of the markings shall not be provided.

4. 结构及尺寸 / Dimensions and Structure

单位: 毫米 / Unit: mm



5. 材料明细 / Material Details

编 号 NO.	零 件 名 称 Part Name	材 质 Material
①	端帽 End caps	黄铜镀金 Au Plated Brass Cap
②	主体 Body	陶瓷管 Non-Transparent Square Ceramic Tube
③	熔丝 Fuse element	合金 Cu-Ag Alloy wire

6. 产品特性 / Product Characteristics

编号 NO.	项 目 Item	内 容 Content	参考标准 Reference standards
1	产品标识 Product Marking	Brand, Ampere Rating	REOMAX marking standards
2	工作温度 Operating Temperature	-55°C to 125°C	-55°C to 125°C with proper derating
3	可焊性 Solderability	T=240°C ± 5°C, t=3sec ± 0.5sec, Coverage ≥ 95%	MIL-STD-202, Method 208
4	耐焊接热 Resistance to Soldering Heat	10 sec at 260°C	MIL-STD-202, Method 210, Test condition B
5	绝缘阻抗 Insulation Resistance (after Opening)	10,000 ohms minimum	MIL-STD-202, Method 302, Test Condition A
6	热冲击 Thermal Shock	5 cycles, -65°C / +125°C, 15 minutes at each extreme	MIL-STD-202, Method 107, Test Condition B
7	机械冲击 Mechanical Shock	100G's peak for 6 milliseconds, 3cycles	MIL-STD-202, Method 213, Test I
8	振动试验 Vibration	0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs	MIL-STD-202, Method 201
9	耐湿性 Moisture Resistance	10 cycles	MIL-STD-202, Method 106
10	盐雾试验 Salt Spray	5% salt solution, 48hrs	MIL-STD-202, Method 101, Test Condition B

7. 电气特性 / Electrical Characteristics

7.1 实验条件: Test Condition

所有测试环境温度均为 $25\pm 5^{\circ}\text{C}$ 。

All electrical test is to be conducted with the ambient air at a temperature of $25\pm 5^{\circ}\text{C}$.

7.2 分断能力 Interrupting Rating:

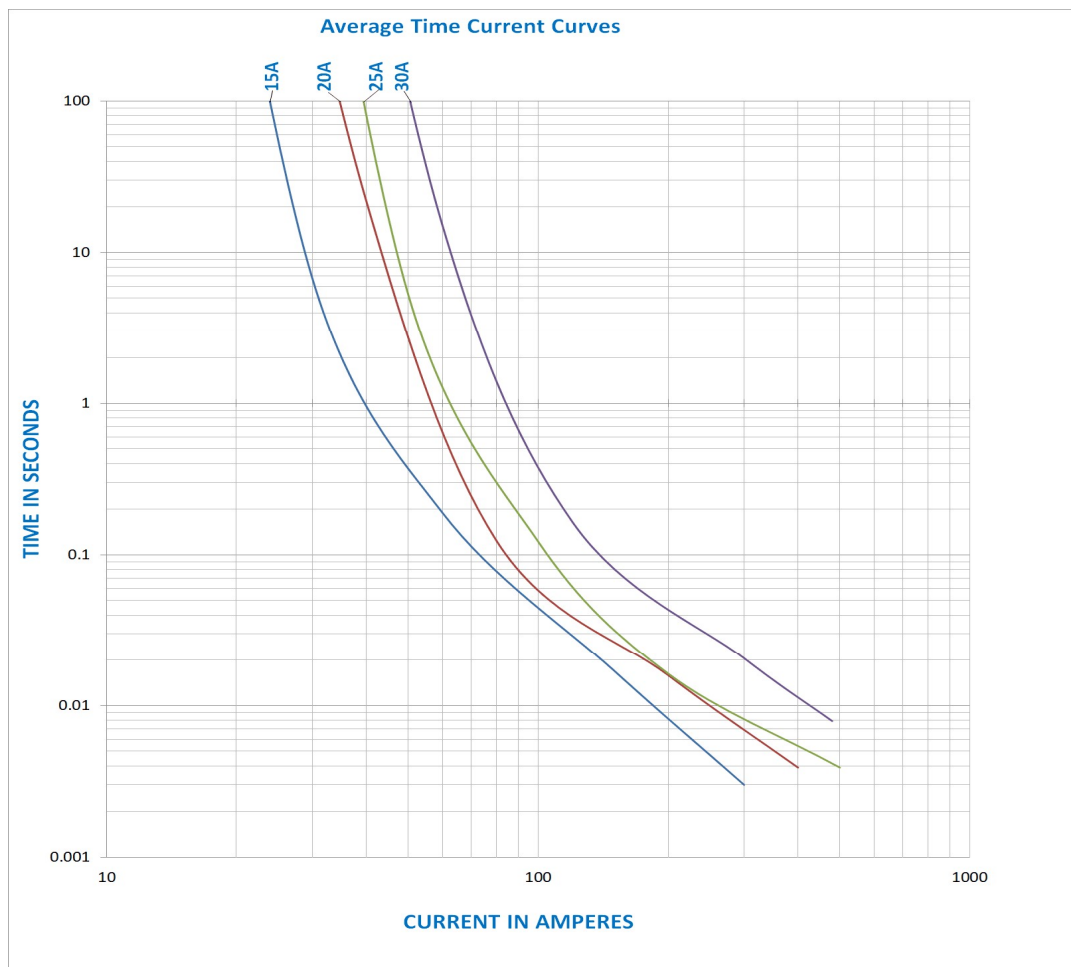
保险丝承受分断能力: 200A @250VAC 500A:@125VAC 1000A@72V63V/32VDC

Breaking Capacity: 200A @250VAC 500A:@125VAC 1000A@72V63V/32VDC

7.3 熔断时限 / Operating Characteristics

额定电流的% % of Ampere Rating(In)	熔断时间 Blowing Time
100% * In	大于 4 小时(4 hours Min)
200% * In	小于 60 秒 (60 sec Max)

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

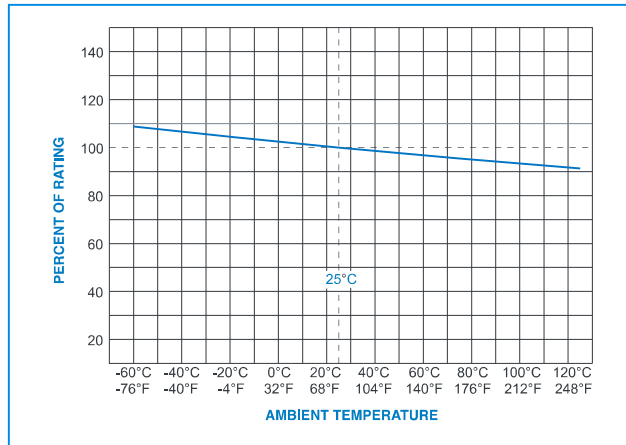


8. 环境特性 / Environmental Characteristic

若操作环境温度超出 $25 \pm 5^\circ\text{C}$ 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 the operating environmental temperature beyond the scope from $20 \sim 30^\circ\text{C}$, engineer should consider the environmental temperature's affection to fuses.

Please refer: Temperature Rerating Curve:



9. 建议焊接参数 / Recommended Soldering Parameters

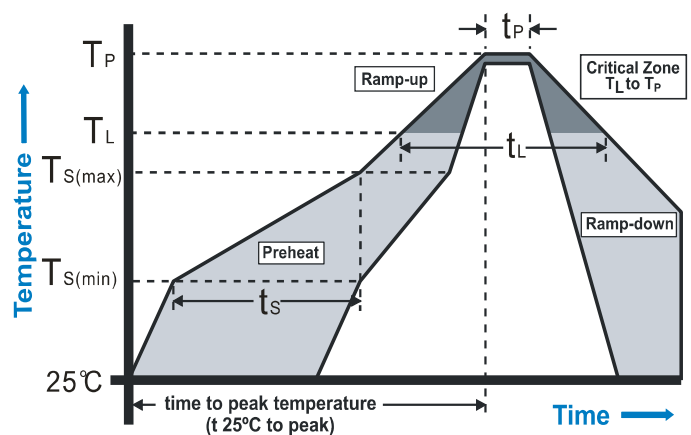
A. 波峰/回流焊参数 / Wave /Reflow Soldering Parameters:

锡膏工艺 / Solder paste process.

锡炉温度 / Solder Pot Temperature: 260°C Max

焊接时间 / Solder Dwell Time: 5 seconds max

Reflow Condition		Pb-Free assembly
Average ramp-up rate ($T_s(\text{max})$ to T_p)		5°C /second max.
Preheat	Temperature Min ($T_s(\text{min})$)	150°C
	Temperature Max ($T_s(\text{max})$)	200°C
	Time (Min to Max) (t_s)	60-120 seconds
Reflow	Temperature (T_L)	220°C
	Time Max (t_L)	60 seconds
Peak Temperature(T_p)		260°C max
Ramp-down Rate		5°C /second max
Time 25°C to peak Temperature (T_p)		8 minutes max



B. 手工焊参数 / Hand-Solder Parameters:

烙铁温度 / Solder Iron Temperature: $300 \pm 5^\circ\text{C}$

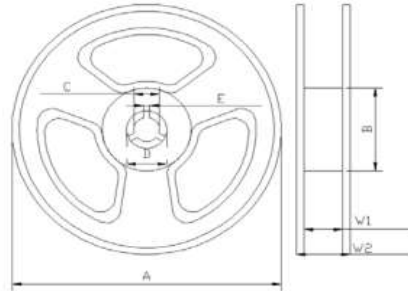
焊接时间 / Heating Time: 1~2 s Max

10. 包装 / Packaging

编带包装/ Taped packing:

每个内盒 1500 个保险丝/ 1500 pcs per inner box

每 5 内盒 1 个外箱 / 5 inner boxes per outer carton



Type	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	W1(mm)	W2(mm)
Spec	330.0±2.0	100.0±1.5	13.0±0.5	21.0±0.5	2.2±0.2	24.5±1.5	28.5±2.0

11. 其他 / Others

11.1 如果在使用中有超出本规格书的要求，须经双方协商确认。

In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.

附件 I: 安规证书 / Appendix I: Safety approval certificates

UL Product iQ™



JFHR2.E502159 - SPECIAL-PURPOSE FUSES -
COMPONENT

JFHR8.E502159 - SPECIAL-PURPOSE FUSES
CERTIFIED FOR CANADA - COMPONENT

Special-purpose Fuses Certified for Canada - Component

See General Information for Special-purpose Fuses Certified for Canada - Component

DONGGUAN REOMAX ELECTRONICS TECHNOLOGY CO LTD

E502159

Ditangling Industrial Park Datang Village Dalingshan Town
Dongguan, Guangdong 523800 CHINA

Semiconductor fuses, Model(s) R1245F, R1245T

Marking: Company name, model designation and the Recognized Component Mark for Canada.



Last Updated on 2019-01-08

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