



Spec No : SFA-R1245F

承认书 APPROVAL SHEET

客户名称:					
CUSTOMER:					
产品名称:			MD FUSE		
PRODUCT NAM	ME:				
型 号:		R1245F (RoH	IS) 4.5*12.4 (12	245/4512) mm	
MODEL NO.:					
客户规格:					
CUST.SPECIFIC	CATION:				
客户料号:					
CUST.PART NO.	•:				
供应商:					
SUPPLIER:	DONGGUA	AN REOMAX ELI	ECTRONICS TECH	INOLOGY CO L	TD
_					
地址:	东	莞市大岭山镇大城	唐村地塘岭工业园		
ADDRESS: Dita	angling Industria	l Zone Datang V	illage Dalingshan T	own Dongguan C	n
电话: 0769-880	30405		传真: 0769-85	5635648	
TEL: 0769-856	34648		FAX: 0769-85	635648	
Web: http:www	v.reomaxfuse.com	<u>n</u>	E-mail: xiong.lu	<u>io@reomaxfuse.c</u>	<u>om</u>
编制	审核	批准	编制	审核	批准
PREPARED	CHECKED	APPROVED	PREPA ED	CHECKED	APPROVEI
BY	BY	BY	BY	Y	BY
李传美	唐盛 <u>华</u>	罗雄			

供方签章:

SUPPLIER:

日期:

文献技有命了 田田 經典 新生 需方签章:

CUSTOMER:

日期:

DATE: 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

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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	认证范围	证书编号		
Agency	Ampere Range	Agency File Number		
(UL)	$15A\sim100A$	E502159 (JDYX2)		
$_{c}$ \mathbf{U}_{L}	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 TMelting Integral(A ² .S)		安规认证 Agency Approvals	
R1245F.60	60A	250V/125VAC/DC 72V63V/32VDC	200A@250VAC 500A:@125VAC 1000A@72V63V/32VDC	0.000758	4165	•	•	

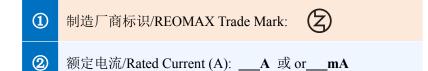
- > *: These catalog no. cold resistance and I2t value are pending due to fuse elements shall be customized;
- ► DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C;
- > Typical Pre-arching I2t are calculated at 10*In Current or 8ms;
- ➤ Min Interrupting Rating: 1.35*In.

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:

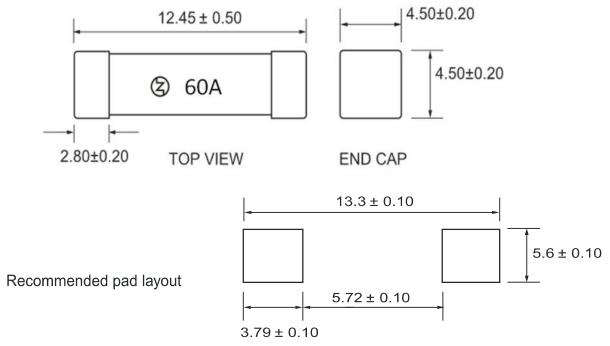




注:对于标示的大小和位置没有规定 / Note: Size and position of the markings shall not be provided.

4. 结构及尺寸 / Dimensions and Structure

单位: 毫米 / Unit: mm



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REFLOW SOLDER



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 \pm 5°C, t=3sec \pm 0.5sec, Coverage \geq 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	
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



所有测试环境温度为 25±5℃。

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

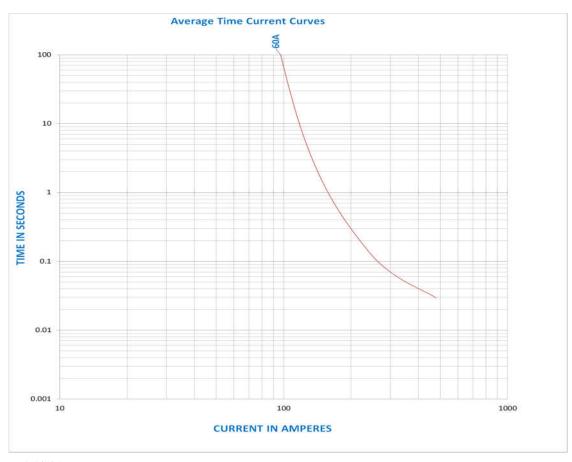
7.2 分断能力 Interrupting Rating:

保险丝承受分断能力: 200A @250VAC500A:@125VAC 1000A@72V63V/32VDC Breaking Capacity: 200A @250VAC500A:@125VAC 1000A@72V63V/32VDC

7.3 熔断时限 / Operating Characteristics

额定电流的%	熔断时间		
% of Ampere Rating(In)	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



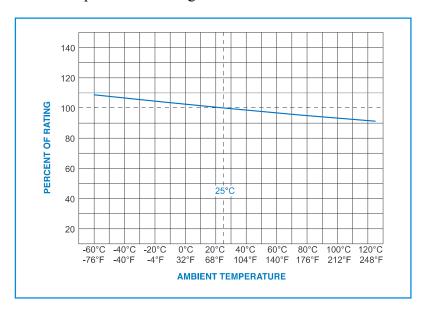
8. 环境特性 / Environmental Characteristic

若操作环境温度超出 25±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 the operating environmental temperature beyond the scope from $20\sim30^{\circ}$ C, engineer should consider the environmental temperature's affection to fuses.

Please refer: Temperature Rerating Curve:



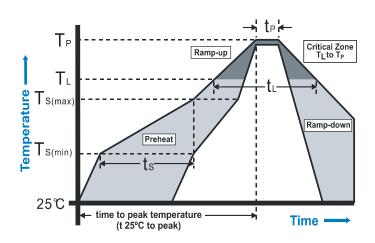
9. 建议焊接参数 / Recommended Soldering Parameters

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℃ Max 焊接时间 / Solder Dwell Time: 5 seconds max

Reflow C	ondition	Pb-Free assembly		
Average r	amp-up rate (Ts(max)to Tp)	5°C /second max.		
	Temperature Min (Ts(min))	150°C		
Preheat	Temperature Max (Ts(max))	200°C		
	Time (Min to Max) (ts)	60-120 seconds		
Reflow	Temperature (T _L)	220°C		
	Time Max (t _L)	60 seconds		
Peak Tem	perature(Tp)	260°C max		
Ramp-dov	wn Rate	5°C/second max		
Time 25°C to peak Temperature (Tp)		8 minutes max		



B. 手工焊参数 / Hand-Solder Parameters:

烙铁温度 / Solder Iron Temperature: 300±5℃

焊接时间 / Heating Time: 1~2 s Max

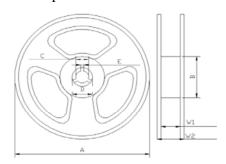


10. 包装 / Packaging

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



Туре	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,



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