

Axial lead & Cartridge Fuse 3AB > 510 Series

510 series, Lead-free 3AB Fuse







Description

A 500VAC rated ceramic fuse with remarkable interrupting rating in a compact 6.3x32mm package, which is well suited for circuit protection in high energy applications

Features

- In accordance with underwriter's Laboratories Standard UL 248-14
- Available in cartridge and axial lead form
- · RoHS compliant and Lead-free
- Compact form factor of 6.3x32mm

Agency	Agency File Number	Ampere Range	
c 71 2 us	E10480	15A-30A	

Applications

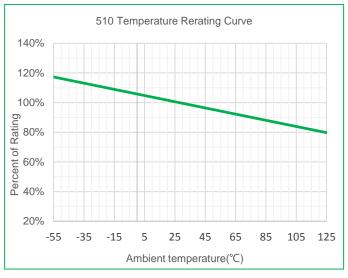
Charging Pile Stations

Electrical Characteristics			
% of Ampere Rating	Opening Time		
100%	60mins, Min		
200%	30mins, Max		
300%	10sec. Max		

Electrical Characteristic Specifications Agency Amp Max. Voltage Nominal Cold Resistance Nominal Melting I²t Approvals Amp Code Interrupting Rating Rating(A) Rating(V) (A²sec) (Ohms) c**SL**'us 015. 15 0.0097 45 Χ Χ 020. 20 0.0056 100 2,000A@500VAC 500VAC 25 160 Χ 025. 0.0045 030. 30 0.0034 280 Χ

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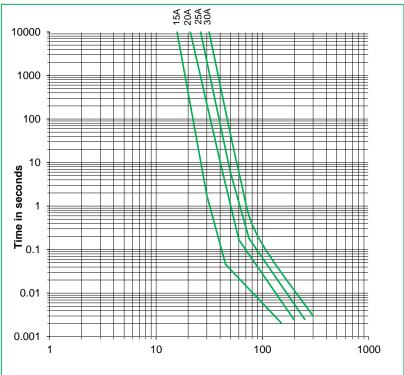
Temperature Rerating Curve



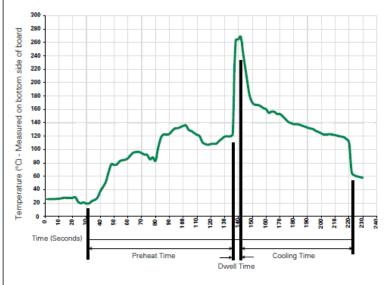
Note:

Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation

Average Time Current Curve



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation		
Preheat:			
(Depends on Flux Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum:	100° C		
Temperature Maximum:	150° C		
Preheat Time:	60-180 seconds		
Solder Pot Temperature:	260° C Maximum		
Solder DwellTime:	2-5 seconds		

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5°C Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.



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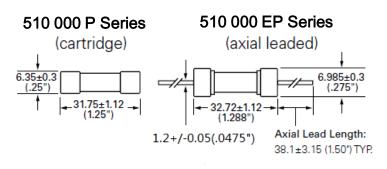
Product Characteristics

Materials	Body: Ceramic Cap: Nickel-plated brass Leads: Tin-plated copper
Terminal Strength	Mil-STD-202G, Method 211A, Test condition A
Solderability	Reference MIL-STD-202 method 208
Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Agency approval marks

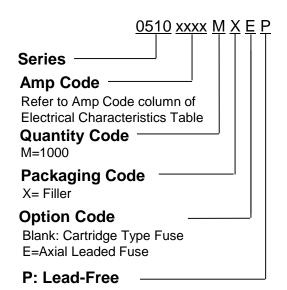
Operating Temperature	-55℃ to +125℃		
Thermal Shock	MIL-STD-202G, Method 107G, Test condition B		
Vibration	MIL-STD-202G, Method 201A		
Moisture Resistance	MIL-STD-202G, Method 103B, Test condition A		
Salt Spray	MIL-STD-202G, Method 101E, Test condition B		

Dimensions

Part Numbering System



15A: Φ1.0mm lead wire 20A-30A: Φ1.2mm lead wire



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size			
510Series							
Bulk	N/A	1000	MX	N/A			
Bulk	N/A	1000	MXE	N/A			

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