

RoHS **Pb** **508 Series** Lead-Free 3AB Fuse



**Description**

A 1000Vac/Vdc rated ceramic fuse with remarkable interrupting rating in a compact 6.3 x 32mm 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
- RoHS compliant and Lead-free
- Superior Interrupting rating of 10,000 Amperes
- Compact form factor of 6.3 x 32mm

**Applications**

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

**Agency Approvals**

Agency	Agency File Number	Ampere Range
	Recognised File: E10480	315mA - 500mA
		315mA - 500mA

**Electrical Characteristics**

% of Ampere Rating	Ampere Rating	Opening Time
100%	315mA - 500mA	4 Hours, Minimum
135%		1 Hour, Maximum
200%		120 Seconds, Maximum

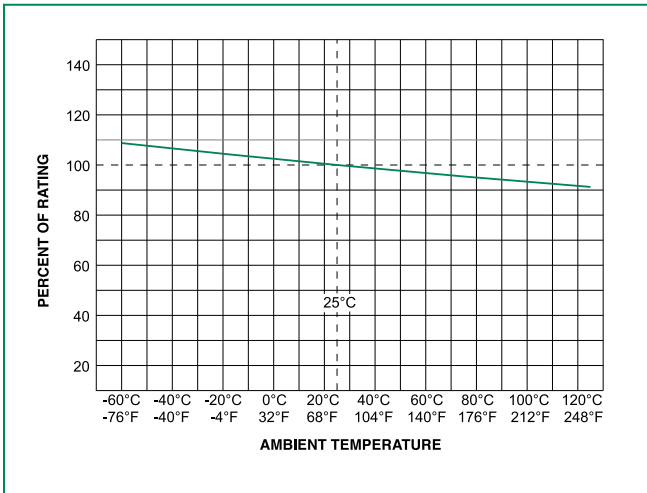
**Electrical Characteristic**

Amp Code	Amp Rating	Voltage Rating	Interrupting Rating	Nominal Cold Resistance (mohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec.)	Agency Approvals	
.315	0.315	1000	10kA @ 1000Vac	9200	0.071	x	x
.500	0.5	1000	10kA @ 1000Vdc	3572	0.259	x	x

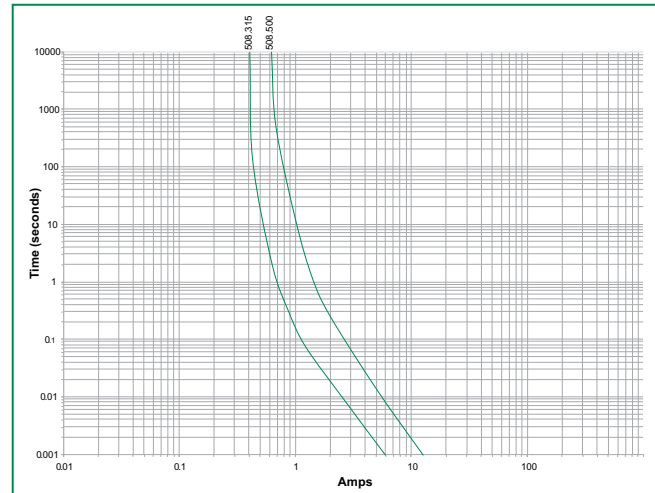
\* 10KA@600Vac/dc also cURus approved. Add suffix "6": Example: 0508.315MX6P.

508 Series

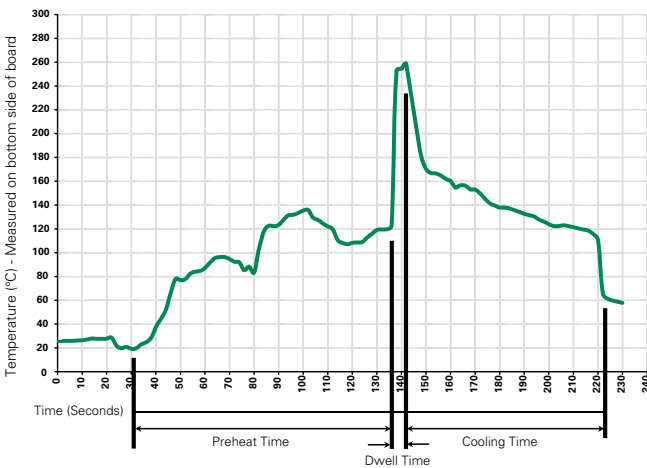
### Temperature Derating Curve



### Average Time Current Curves



### Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

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

### Recommended Hand-Solder Parameters:

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

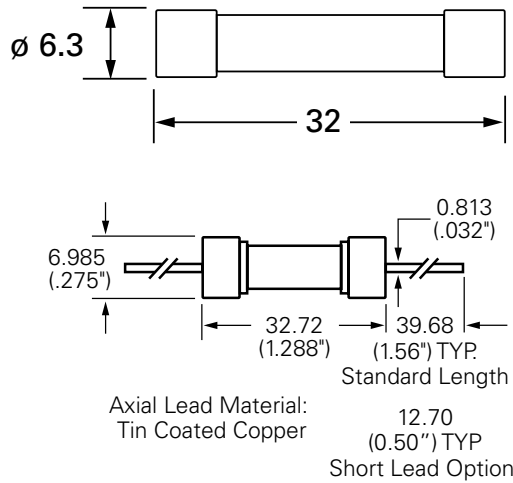
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

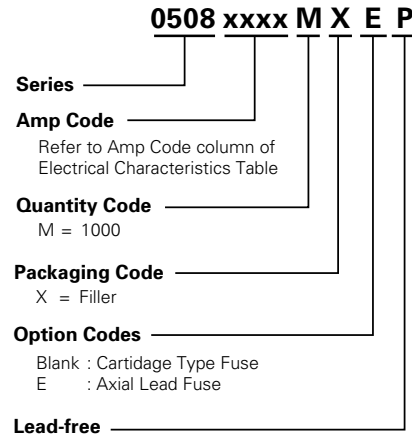
<b>Materials</b>	Body : Ceramic Cap : Nickel-plated brass Leads : Tin-plated Copper
<b>Terminal Strength</b>	MIL-STD-202G, Method 211A, Test Condition A
<b>Solderability</b>	Reference IEC 60127 Second Edition 2003-01 Annex A
<b>Product Marking</b>	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks

<b>Operating Temperature:</b>	-55°C to 125°C.
<b>Thermal Shock:</b>	MIL-STD-202G, Method 107G, Test Condition B (5 Cycles -65°C to +125°C).
<b>Vibration</b>	MIL-STD-202G, Method 201A
<b>Humidity</b>	MIL-STD-202G, Method 103B, Test Condition A: High relative humidity (95%) and elevated temp (40°C) for 240 hours
<b>Salt Spray</b>	MIL-STD-202G, Method 101E, Test Condition B

**Dimensions**



**Part Numbering System**



**Packaging**

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
<b>508 Series</b>				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A