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508 Series Lead-Free 3AB Fuse



Agency Approvals					
Agency	Agency File Number	Ampere Range			
c FL [°] us	E10480	0.315A - 1A			
Œ	N/A	0.315A - 1A			

Electrical Characteristics					
% of Ampere Rating					
100%		4 Hours, Minimum			
135%	0.315A - 1A	1 Hour, Maximum			
200%		120 Seconds, Maximum			

Description

A 1000Vac/Vdc rated ceramic fuse with a 10,000A interrupting rating in a compact 6.3×32mm package, which is well suited for circuit protection in high energy applications.

Features

- In accordance with Underwriter's Laboratories Standard UL 248-14
- Interrupting rating of 10,000 Amperes
- Compact form factor of 6.3×32mm

ROHS 🔊 C PL US (E

axial leadRoHS compliant and Lead-free

• Available in cartridge and

Applications

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

Additional Information







For recommended fuse accessories for this product series, see '<u>Recommended Accessories</u>' section.

Electrical Characteristic

Amp Code	Amp Rating Voltage Rating	Interrupting	Nominal Cold Resistance	Nominal Melting	Agency Approvals		
Amp Code		Rating	Rating	(mohms)	I ² t (A ² sec.)	c 🔨 us	(€
.315	0.315	1000	10kA @ 1000Vac 10kA @ 1000Vdc	9200	0.071	х	х
.500	0.5	1000		3572	0.259	х	х
001	1	1000		1580	0.449	х	x

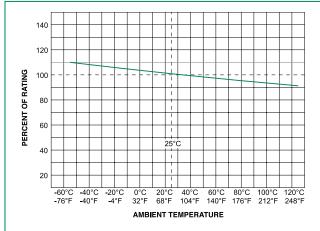
* 10KA@600Vac/dc also cURus approved. Add suffix "6". Example: 0508.315MX6P.

Axial Lead & Cartridge Fuses





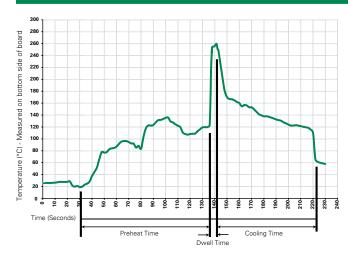
Temperature Re-rating Curve



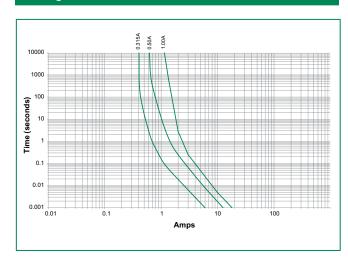
Note:

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

Soldering Parameters - Wave Soldering



Average Time Current Curves



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 Dwell Time:	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

Materials	Body : Ceramic Cap : Nickel–plated brass Leads : Tin-plated Copper		
Terminal Strength	MIL-STD-202, Method 211, Test Condition A		
Solderability	MIL-STD-202 Method 208		
Product Marking	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks		

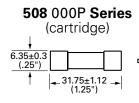
Operating Temperature:	-55°C to 125°C.
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B (5 Cycles -65°C to +125°C).
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High relative humidity (95%) and elevated temp (40°C) for 240 hours
Salt Spray	MIL-STD-202,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

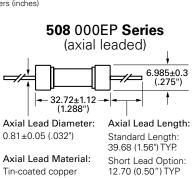


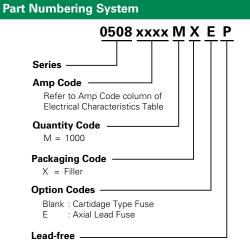
Axial Lead & Cartridge Fuses 3AB 1000Vac/dc High Voltage Fuse

Dimensions

Measurements displayed in millimeters (inches)







Packaging

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

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Holder	<u>150322</u>	In-Line Fuseholder	500	15
Block	<u>354</u>	Low Profile OMNI-BLOK® Fuse Block	600	30
DIUCK	<u>359</u>	High Current Screw Terminal Fuse Block	000	30
Clin	<u>122</u>	High Current Traditional PC Board Fuse Clip	1000	30
Clip	<u>101</u>	Rivet/Eyelet Type Fuse Clip	1000	15

Notes:

Do not use in applications above rating.
Please refer to fuseholder data sheet for specific re-rating information.

3. Please contact factory for applications greater than the max voltage and amperage shown.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics.