Axial Lead & Cartridge Fuses 3AB > Fast-Acting > 506 Series

506 Series Lead-Free 3AB, Fast-Acting Fuse





Agency Approvals

Agency	Certificate Number	Ampere Range	
c FU °us	c %1 °us E10480		
(€	N/A	15A - 20A	

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
100%		3600 sec, Min
135%	15A - 20A	3600 sec, Max
200%		120 sec, Max

Description

A 600Vdc rated ceramic fuse with remarkable interrupting rating in a compact 6.3×32mm package, which is well suited for circuit protection in high DC energy applications.

Features

- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Available in cartridge and axial lead form.
- Lead-free, Halogen free, and RoHS compliant.
- Superior interrupting rating of 10,000 Amperes.
- Compact form factor of 6.3×32mm.

Applications

High energy and power efficient applications.

Additional Information









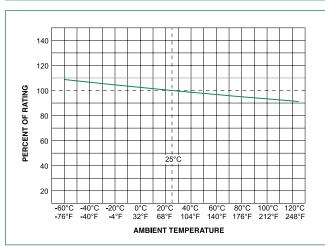
For recommended fuse accessories for this product series, see 'Recommended Accessories' section.

Electrical Characteristic by Item

Amp Rating (A)	Amp Code	Voltage Rating (DC)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² sec.)	Agency Approvals
15	015.	600		0.008	61	Х
16	016.	600	10KA @ 600VDC	0.008	61	Х
20	020.	600		0.006	105	X

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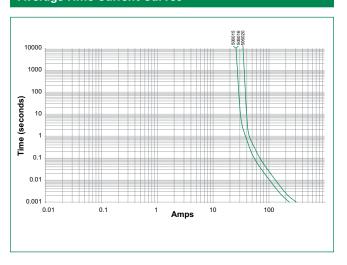
Temperature Re-rating Curve



Note:

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

Average Time Current Curves

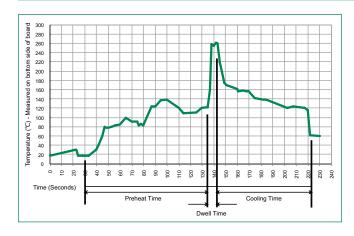


Product Characteristics

Materials Body: Ceramic Cap: Nickel Plated Brass		
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	MILSTD-202, Method 103, Test condition A: High relative humidity (95%) and Elevated temperature (40°C) for 240 hours		
Salt Spray	MIL-STD-202, Method 101, Test condition B		

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 Dwell Time:	2-5 seconds		

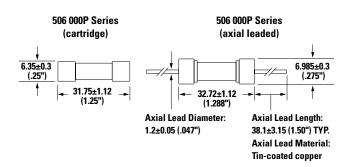
Recommended Hand-Solder Parameters:

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

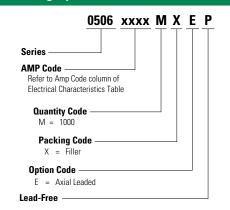
Note: These devices are not recommended for IR or Convection Reflow process.

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Dimensions



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size	
506 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	seholder 500	
Block	354 Low Profile OMNI-BLOK® Fuse Block 600		30	
359	High Current Screw Terminal Fuse Block	600	30	
Clim	High Current Traditional PC Board Fuse Clip		1000	30
Clip <u>101</u>	<u>101</u>	Rivet/Eyelet Type Fuse Clip	1000	15

Notes:

- 1. Do not use in applications above rating.
- 2. 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.

Mouser Electronics

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Littelfuse:

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