

507 Series Lead-Free High Voltage DC Fuse



Agency Approvals				
Agency	Agency File Number	Ampere Range		
c FL us	E10480	1A-8A		
(€	N/A	1A-8A		

Description

A 650VDC rated ceramic-body fuse in a compact 6.3 x 32mm package. Well suited for overcurrent protection in high-voltage DC circuits requiring compact form factors.

Features

- Rated voltage of 650VDC
- Available in cartridge and axial lead version
- RoHS compliant and Lead-free
- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14

RoHS 🔊 c 🔁 us (E

Applications

- High voltage DC power application
- Power inverters
- Variable Frequency Drives (VFDs)
- High voltage power supplies

• DC-DC Converter

- Power conversion equipment
- Motor drives

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time	
100%	1A-8A	4 Hours, Minimum	
200%	1A-8A	120 Seconds, Maximum	

Electrical Characteristic Specifications by Item

Resources

Additional Information

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Datasheet

Ampere Rating	Max. Voltage	Interrupting	Nominal Cold	Nominal Melting	Agency Approvals		
Amp Code	Amp Code (A) (V) Rating Resistance (Ohms)	I ² t (A ² sec) *	c 🔨 us	Œ			
001.	1	650VDC 150A@650VDC	DVDC 150A@650VDC	0.37	0.6	х	Х
1.25	1.25			0.23	1.5	х	х
01.6	1.6			0.165	2.9	х	Х
002.	2			0.115	2.3	х	х
02.5	2.5			0.083	4.1	Х	Х
3.15	3.15			0.056	9.3	х	Х
004.	4			0.055	8	х	Х
005.	5			0.042	12.5	х	х
06.3	6.3			0.0285	29	Х	Х
008.	8		0.0207	53	Х	х	

Samples

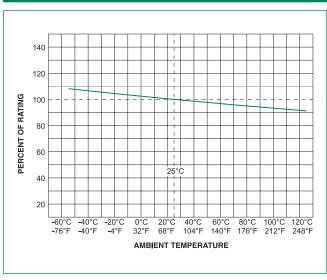
* Unless otherwise stated, all specifications are referenced at room ambient temperature.



Axial Lead & Cartridge Fuses

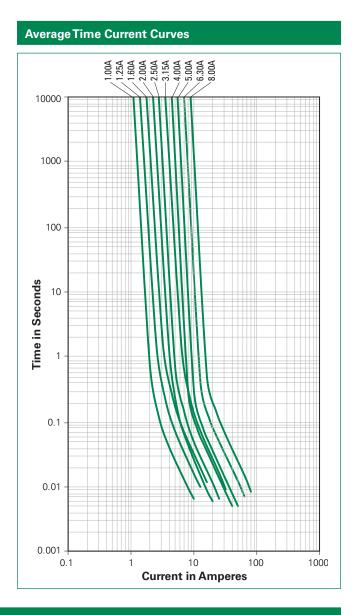
3AB>507 Series Fuse



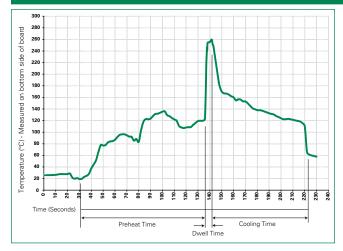


Note:

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



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 to 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.



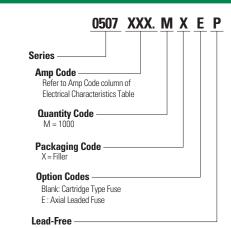
Axial Lead & Cartridge Fuses 3AB>507 Series Fuse

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

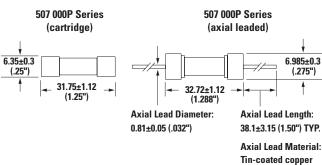
Operating Temperature:	-55°C to 125°C
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MILSTD-202, Method 103, Test Condition A: High rela- tive humidity (95%) and elevated temperature (40°C) for 240 hours
Salt Spray	MIL-STD-202,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

Part Numbering System



Measurements displayed in millimeters (inches)

Dimensions



Packaging

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

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