Axial Lead & Cartridge Fuses 3AB > 504 Series Fuse

504 Series, 6.3x32mm Fuse





Agency Approvals			
Agency	Agency File Number	Ampere Range	
c FL °us	E10480	20A - 30A	
(€	N/A	20A - 30A	

Description

A 420VDC and 500VAC rated ceramic fuse with a 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 Underwriters Laboratories Standard UL 248-14
- Available in cartridge and axial lead form and with various lead forming dimensions.
- RoHS compliant and Lead-free
- Compact form factor of 6.3mm x 32mm

Applications

High Voltage DC power application

Electrical Characteristic Specifications by Item

	Ampere	Max. Voltage	Interrupting	Nominal Cold	Nominal Melting	Agency Approvals	
Amp Code	Rating (A)	Rating (V)	Interrupting Rating			c FL ° us	C€
020.	20		400A@420VDC 1500A@250VAC 200A@500VAC	5.8	760	Х	×
025.	25	420VDC 500VAC		3.95	1500	Х	×
030.	30			3.1	2600	х	x

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
100%		4 Hours, Minimum
135%	20A - 30A	1 Hour, Maximum
200%		120 Seconds, Maximum

Additional Information

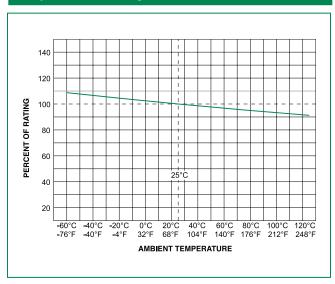






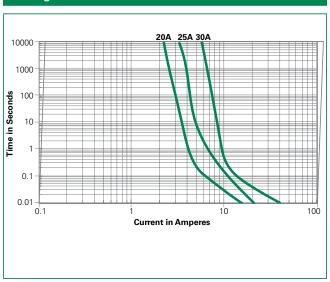


Temperature Re-rating Curve

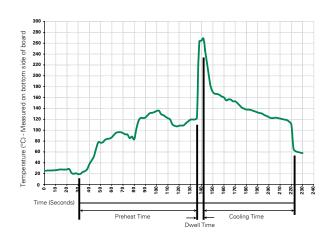


Rerating depicted in this curve is in addition to the standard derating of 25% for

Average Time Current Curves



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 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.

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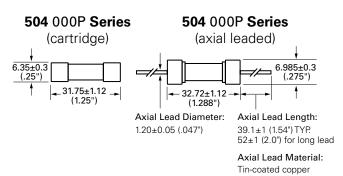
Product Characteristics

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		

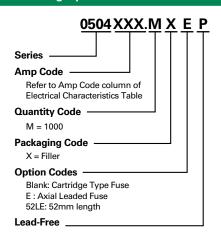
Operating Temperature:	–55°C to 125°C.
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High relative humidity (95%) and elevated temp (40°C) for 240 hours
Salt Spray	MIL-STD-202, Method 101, Test Condition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

Dimensions

Measurements displayed in millimeters (inches)



Part Numbering System



Packaging

Packaging Option 504 Series	Packaging Specification	Quantity	Quantity & Packaging Code	
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A
Bulk	N/A	1000	MX52LE	N/A

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