

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	
Œ	N/A	20A - 30A	

Description

The 504 Series is a 420VDC 420VDC and 500VAC rated ceramic fuse with a 400A and 200A and 200A interrupting rating, respectively, in a compact 6.3 x 32mm package, The 504 Series is well suited for circuit, 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

Amp Code Ampere Rating (A)	Max. Voltage		Nominal Cold	Name and Maltine	Agency Approvals		
		Rating (V)	Interrupting Rating	Resistance (mOhms)	Nominal Melting I ² t (A ² sec)	c FL °us	Œ
020.	20	420VDC 500VAC	400A@420VDC 1500A@250VAC 200A@500VAC	5.8	760	x	Х
025.	25			3.95	1500	X	х
030.	30			3.1	2600	X	Х

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







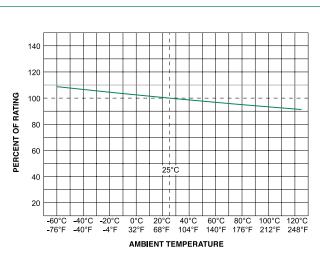
Resources



Samples

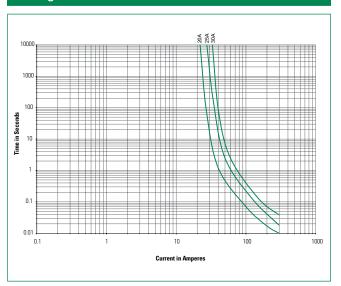
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Temperature Re-rating Curve

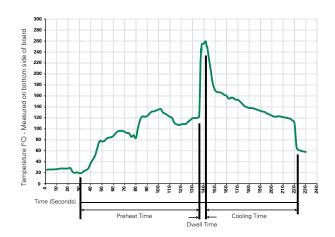


Rerating depicted in this curve is in addition to the standard derating of 25% for

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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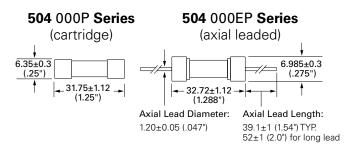
Product Characteristics

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	

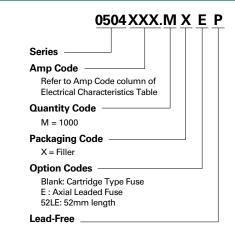
Operating Temperature:	−60°C to 125°C.
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High relative humidity (95%) and elevated temp (40°C) for 240 hours
Salt Spray	MIL-STD-202, Method 101, Test Condition B

Dimensions

Measurements displayed in millimeters (inches)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size	
504 Series					
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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