Axial Lead & Cartridge Fuses 3AB > Fast-Acting > 514 Series

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





Agency Approvals

Agency	Certificate number	Ampere Range
c FL °us	E10480	1.6A - 12.5A
· (€	N/A	1.6A - 12.5A

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
100%	1.6A - 12.5A	4hours, Min
200%	1.0A - 12.5A	120 sec, Max

Description

The 514 Series fuses are 500VAC rated ceramic fuses with remarkable interrupting rating in a compact 6.3×32 mm package. They are well suited for circuit protection in high energy applications.

Features

- Available in cartridge and axial lead form
- Lead-free, Halogen free, and RoHS compliant
- Compact form factor of 6.3mm x 32mm
- High Interrupting Rating

Applications

High energy and power efficient applications.

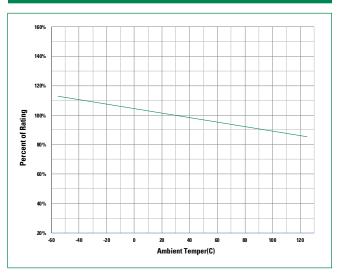
Electrical Characteristics

	Amp Rating Max. Voltage Interrupting Nominal Cold Nominal		Agency Approvals				
Amp Code	(A)	Rating (V)	Rating	Resistance (mOhm)	Melting I ² t (A ² sec)	c 71 ° us	Œ
01.6*	1.6	500VAC 5000A @500Vac		214	1.92	X*	X
002.	2		150	4.12	X	X	
3.15	3.15		500VAC 5000A @500Vac	76	5.54	X	X
004.	4			49	12.43	X	X
005.	5			63.6	6.14	X	X
06.3	6.3			43	13.5	X	X
008.	8			29	28.8	X	X
010.	10			20.2	50.6	X	X
12.5	12.5		14.9	114	X	X	

^{* 25}KA@500VAC interrupting rating available for 1.6A

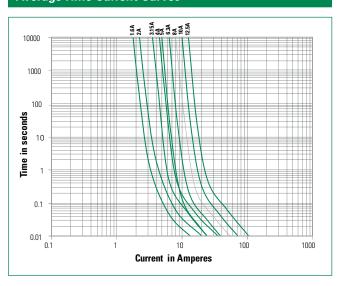


Temperature Re-rating Curve

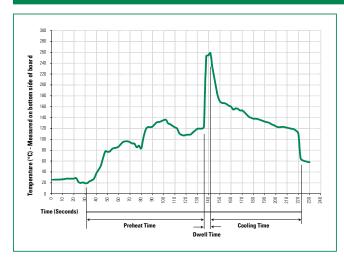


Note:Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



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.

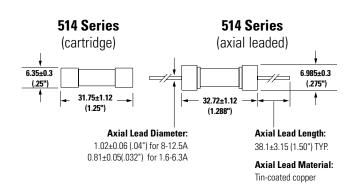
Product Characteristics

Materials	Body : Ceramic Cap : Nickel Plated Brass Leads: Tin-plated copper	
Terminal Strength	MIL-STD-202G, Method 211A, Test condition A	
Solderability	Reference MIL-STD-202 Method 208	
Product Marking	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks	

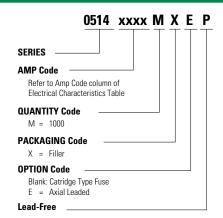
Operating Temperature	−55°C to +125°C	
Thermal Shock	MIL-STD-202G, Method 107G, Test condition B: (5 cycles -65°C to 125°C)	
Vibration	MIL-STD-202G, Method 201A	
Moisture Resistance	MIL-STD-202G, Method 103B, Test condition A	
Salt Spray	MIL-STD-202G, Method 101E, Test condition B	

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Dimensions



Part Numbering System



Packaging

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