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



Agency Approvals				
AGENCY	CERTIFICATE NUMBER	AMPERE RANGE		
c <b>FN</b> <sup>us</sup> us	E10480	0.4 - 16A		
Œ	N/A	1.6 - 12.5A		

Electrical Characteristics for Series					
% of Ampere Rating	Ampere Rating	OpeningTime			
100%	1.6A - 12.5A	4hours, Min			
200%		120 sec, Max			

# **Electrical Characteristics**

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

## Description

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

### Features

- Available in cartridge and axial lead form
- Compact form factor of 6.3mm x 32mm

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- Lead-free, Halogen free, and RoHS compliant
- High Interrupting Rating

## Applications

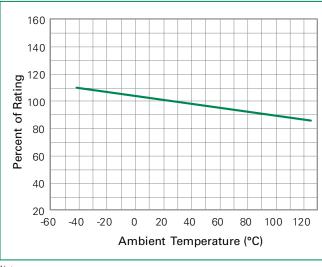
High energy and power efficient applications

# **Axial Lead & Cartridge Fuses**

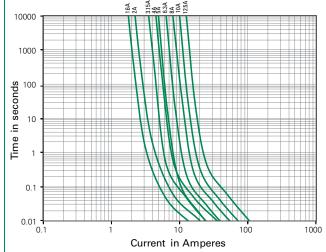
3AB > Fast-Acting > 514 Series







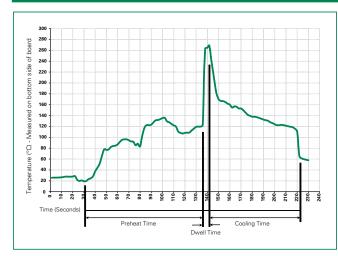
**Average Time Current Curves** 



Note:

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





#### **Recommended Process Parameters:**

Lead-Free Recommendation	
(Typical Industry Recommendation)	
100°C	
150°C	
60-180 seconds	
260°C Maximum	
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**

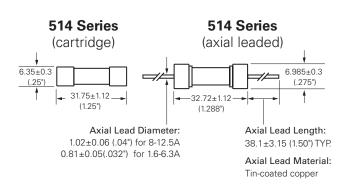
Materials	Body : Ceramic Cap : Nickel Plated Brass Leads: Tin-plated copper	
Terminal Strength	MIL-STD-202G, Method 211A, Test condition A	
Solderability	Reference MIL-STD-202 Method 208	
Product Marking	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks	

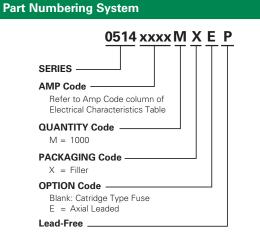
Operating Temperature	-55°C to +125°C	
Thermal Shock	MIL-STD-202G, Method 107G, Test condition B: (5 cycles -65°C to 125°C)	
Vibration	MIL-STD-202G, Method 201A	
Moisture Resistance	MIL-STD-202G, Method 103B, Test condition A	
Salt Spray	MIL-STD-202G, Method 101E, Test condition B	



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

### Dimensions





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

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