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Littelfuse Ax Ax Axpertise Applied Answers Delivered

505 Series, Lead-free 3AB, Fast-Acting Fuse



Agency Approvals						
Agency	Ampere Range					
c FL ° us	E10480	10A - 30A				
(\mathbb{Z})	1620079	10A - 12A				
(€	N/A	10A - 30A				
A	T5026910801	15 - 30A				

Electrical Characteristics for Series					
% of Ampere Ampere Rating Opening Time					
150%		30 minutes, Maximum			
200%	10 – 30	30 minutes, Maximum			
300%		10 sec., Maximum			

Description

A 500VAC/VDC rated ceramic fuse with 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

RoHS 🗭 🕲 c 📲 us (E 🛆

- Superior Interrupting rating of 20,000 Amperes
- Compact form factor of 6.3mm x 32mm

Applications

- Uninterruptible Power Supplies (UPS)
- Three-Phase Power Supplies

Additional Information





For recommended fuse accessories for this product series, see '<u>Recommended Accessories</u>' section.

Electrical Characteristic Specifications by Item									
	Ampere Voltage		Interrupting	Nominal Cold	Nominal	Agency Approvals			
Amp Code	Rating (A)	Rating (V)	Rating	Resistance (Ohms)	Melting I²t (A² sec)	c N° us	(\mathbb{Z})	€	\triangle
010.	10	450	20kA@450VAC 1000A@250VDC	0.0167	91	x	х	x	
010.*	10	500	200A@500VAC 200A@500VDC	0.0167	91	x		x	
012.	12	450	20kA@450VAC 1000A@250VDC	0.0117	192	x	х	x	
015.	15	500	50kA@500VAC	0.0073	68	X		х	х
016.	16	500	20kA@500VDC	0.0073	68	X		X	х
020.	20	500		0.0056	140	X		x	х
025.	25	500	30kA@500VAC 20kA@500VDC	0.0048	210	X		X	х
030.	30	500		0.0038	280	x		х	х

Notes:

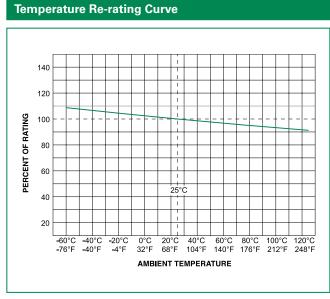
1. 20kA@500VAC&20kA@500VDC interrupting rating available for TUV certification of 15~30A

2. *200A@500Vac&200A@500Vdc interrupting rating available for 10A. Add suffix "500." Example: 0505010.MX500P, and 0505010.MXE500P"

Axial Lead & Cartridge Fuses

3AB > Fast-Acting > 505 Series

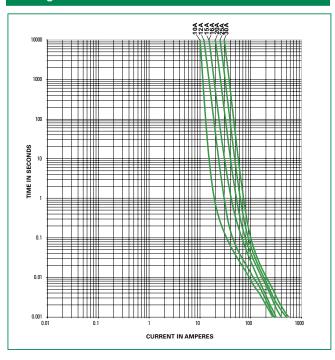




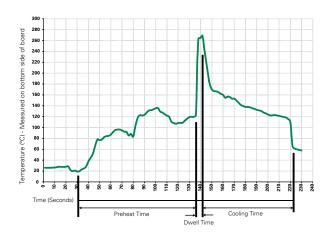
Note:

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:

Lead-Free Recommendation
(Typical Industry Recommendation)
100° C
150°C
60-180 seconds
270°C
10 seconds Maximum

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 > Fast-Acting > 505 Series

Product Characteristics

Dimensions

Measurements displayed in millimeters (inches)

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	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

0505 xxxx M X E P

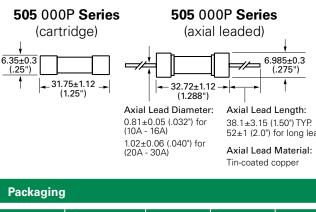
Part Numbering System

Series

Amp Code

Refer to Amp Code column of

Electrical Characteristics Table



	4	Quantity Code
	T	Quantity Code ——— M = 1000
	Length: 1.50") TYP. for long lead	Packaging Code X = Filler
ial Lead Material: -coated copper		Option Codes E : Axial Leaded 52LE : 52mm length Others : special options. Please call Littelfuse for detail.
ntity & aging ode	Reel Size	Lead-Free

, aonaging						
Packaging Option			Quantity & Packaging Code	Reel Size		
505 Series						
Bulk	N/A	1000	MX	N/A		
Bulk	N/A	1000	MXE	N/A		
Bulk	N/A	1000	MX52LE	N/A		

Recommended Accessories

Accessory Type	Series	Description		Max Application Amperage
Holder	<u>150322</u>	In-Line Fuseholder	500	15
Block	<u>354</u>	Low Profile OMNI-BLOK® Fuse Block	600	30
BIOCK <u>359</u>		High Current Screw Terminal Fuse Block	000	30
Clip	<u>122</u>	High Current Traditional PC Board Fuse Clip	1000	30
<u>101</u>		Rivet/Eyelet Type Fuse Clip	1000	15

Notes:

Do not use in applications above rating.
Please refer to fuseholder data sheet for specific re-rating information.

3. Please contact factory for applications greater than the max voltage and amperage shown.

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