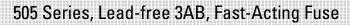
Axial Lead & Cartridge Fuses

3AB > Fast-Acting > 505 Series





Rohs 🔞 🛇 c 🗚 us (E



Agency Approvals

Agency	Agency File Number	Ampere Range
c W us	Recognised File: E10480	10A - 30A
(2)	813483	10A - 12A
Œ		10A - 30A

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 underwriter's Laboratories Standard UL 248-14
- Available in cartridge and axial lead form and with various lead forming dimensions.
- RoHS compliant and Lead-free
- Superior Interrupting rating of 20,000 Amperes
- Compact form factor of 6.3 x 32mm

Applications

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

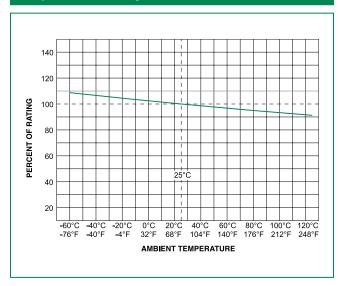
Electrical Characteristics for Series

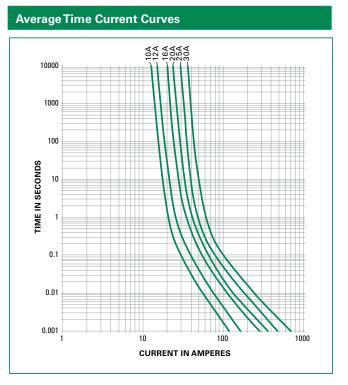
% of Ampere Rating	Ampere Rating	Opening Time
150%		30 minutes, Maximum
200%	10 - 30	30 minutes, Maximum
300%		10 sec., Maximum

Electrical Characteristics Specifications by Item								
Amp Code	Amp Rating	Max Voltage Rating	Rating Cold Melting		ncy Approvals			
	(A)	(V)		(Ohms)	l²T (A²Sec.)	c FL us	(\mathbb{Z})	CE
010.	10	450	20kA@450VAC 1000A@250VDC	0.0167	91	X	Х	Х
012.	12	450		0.0117	192	Х	Х	Х
016.	16	500	50kA@500VAC 20kA@500VDC	0.0073	51	X		Х
020.	20	500	30kA@500VAC 20kA@500VDC	0.0056	101	Х		Х
025.	25	500		0.0048	145	Х		Х
030.	30	500		0.0038	203	Х		Х

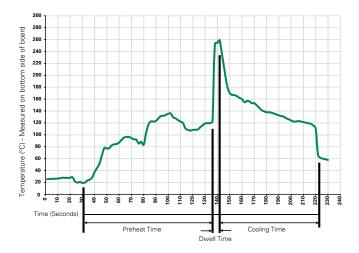


Temperature Rerating Curve





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:	2-5 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.

Axial Lead & Cartridge Fuses

3AB > Fast-Acting > 505 Series

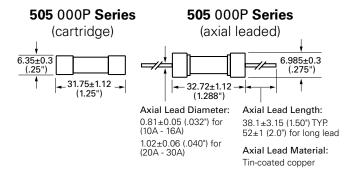


Product Characteristics

Materials	Body : Ceramic Cap : Nickel-plated brass Leads : Tin-plated Copper		
Terminal Strength	MIL-STD-202G, Method 211A, Test Condition A		
Solderability	Reference IEC 60127 Second Edition 2003-01 Annex A		
Product Marking	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks		

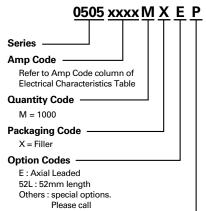
Dimensions

Measurements displayed in millimeters (inches)



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
Humidity	MIL-STD-202G, Method 103B, Test Condition A: High relative humidity (95%) and elevated temp (40°C) for 240 hours
Salt Spray	MILSTD-202G, Method 101D, Test Condition B

Part Numbering System



Littelfuse for detail.

Lead-Free

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size		
505 Series	505 Series					
Bulk	N/A	1000	MX	N/A		
Bulk	N/A	1000	MXE	N/A		
Bulk	N/A	1000	MX52L	N/A		