

**RoHS  HF 506 Series Lead-Free 3AB, Fast-Acting Fuse**


### Description

A 600Vdc rated ceramic fuse with remarkable interrupting rating in a compact 6.3x32mm package, which is well suited for circuit protection in high DC energy applications.

### Features

- In accordance with Underwriter's Laboratories Standard, UL 248-14.
- Available in cartridge.
- Pluggable into clips or shock safe holders.
- ROHS compliant and lead free.
- Superior interrupting rating of 10,000 Amperes.
- Compact form factor of 6.3x32mm.

### Applications

High energy and power efficient applications.

### Agency Approvals

| AGENCY  | CERTIFICATE NUMBER | AMPERE RANGE |
|---|--------------------|--------------|
|    | E10480             | 15A - 20A    |
|  |                    | 15A - 20A    |

### Electrical Characteristics for Series

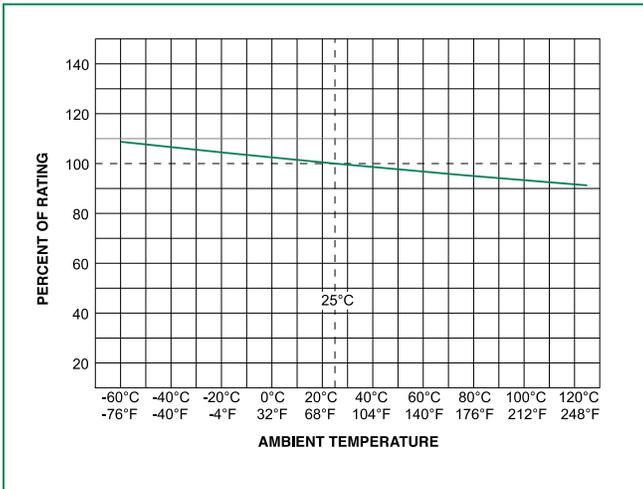
| % of Ampere Rating | Ampere Rating | Opening Time  |
|--------------------|---------------|---------------|
| 100%               | 15A - 20A     | 3600 sec, Min |
| 135%               |               | 3600 sec, Max |
| 200%               |               | 120 sec, Max  |

### Electrical Characteristic by Item

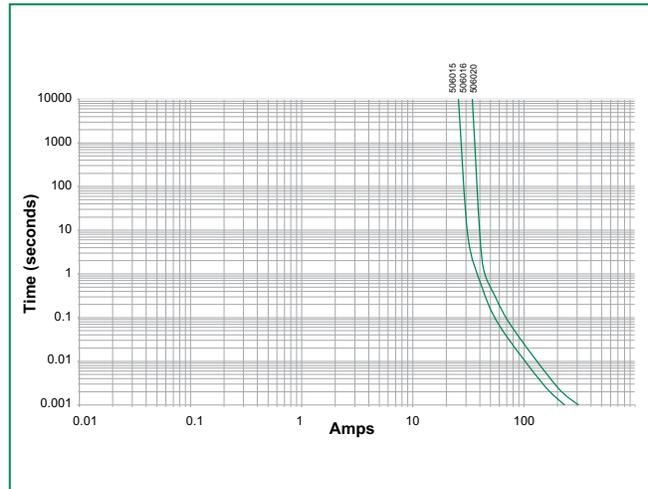
| Amp Rating (A) | Amp Code | Voltage Rating (DC) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec.) | Agency Approvals  |
|----------------|----------|---------------------|---------------------|--------------------------------|--|---|
|                |          |                     |                     |                                |  |  |
| 15             | 015      | 600                 | 10KA @ 600VDC*      | 0.008                          | 61   | x   |
| 16             | 016      | 600                 |                     | 0.008                          | 61   | x   |
| 20             | 020      | 600                 |                     | 0.006                          | 105  | x   |

\* For AC breaking capacity, please contact Littelfuse for details.

### Temperature Derating Curve



### Average Time Current Curves

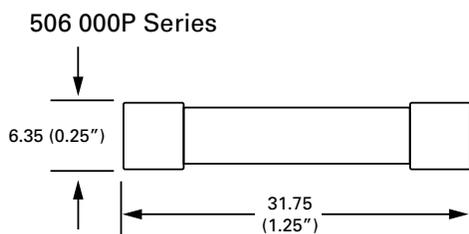


### Product Characteristics

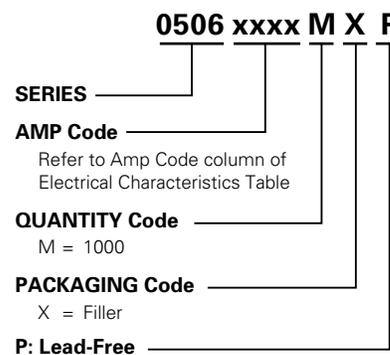
|                          |   |
|--------------------------|---|
| <b>Materials</b>         | Body : Ceramic<br>Cap : Nickel Plated Brass   |
| <b>Terminal Strength</b> | MIL-STD-202G, Method 211A,<br>Test condition A  |
| <b>Solderability</b>     | NA  |
| <b>Product Marking</b>   | Cap1 : Brand logo, current and voltage ratings<br>Cap2 : Series and agency approval marks |

|                              |   |
|------------------------------|---|
| <b>Operating Temperature</b> | -55°C to +125°C   |
| <b>Thermal Shock</b>         | MIL-STD-202G, Method 107G,<br>Test condition B: (5 cycles -65°C to 125°C)   |
| <b>Vibration</b>             | MIL-STD-202G, Method 201A   |
| <b>Humidity</b>              | MIL-STD-202G, Method 103B,<br>Test condition A: High relative humidity (95%)<br>and Elevated temperature (40°C) for 240 hours |
| <b>Salt Spray</b>            | MIL-STD-202G, Method 101E, Test condition B   |

### Dimensions



### Part Numbering System



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Reel Size |
|-------------------|-------------------------|----------|---------------------------|-----------|
| <b>506 Series</b> |                         |          |                           |           |
| Bulk              | N/A                     | 1000     | MX                        | N/A       |