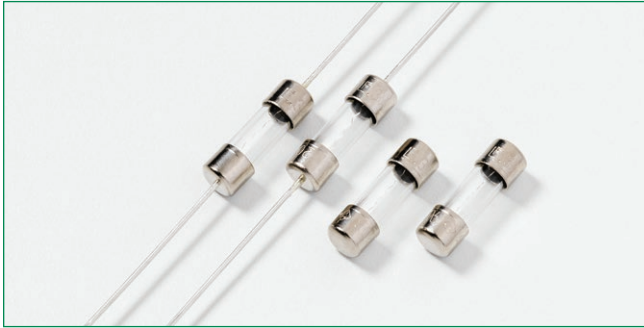






209 Series Lead-Free 2AG, Slo-Blo® Fuse



Agency Approvals

| Agency | Agency File Number | Ampere Range |
|---|--------------------|--------------|
|  | E10480 | 0.25A - 7A |
|  | Cartridge | |
| | NBK200405-E10480C | 1A - 3.5A |
| | NBK110512-E10480A | 4A - 5A |
| | NBK190619-E10480A | 6A - 7A |
|  | Axial Leads | |
| | NBK200405-E10480D | 1A - 3.5A |
| | NBK110512-E10480B | 4A - 5A |
| | NBK190619-E10480B | 6A - 7A |
|  | N/A | 0.250A - 7A |

Description

Littelfuse 209 Series (2AG) 350V, Slo-Blo® Fuses are available in cartridge form or with axial leads. This series provides the same performance characteristics as its 3AG counterpart, while occupying one-third the space. Sleeved fuses are available.

Features

- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Conforms to DENAN's Appendix 3
- Available in cartridge and axial lead form and with various forming dimensions
- RoHS compliant and Lead-free

Applications

- Electronic Lighting Ballasts

Electrical Characteristics for Series

| % of Ampere Rating | Opening Time |
|--------------------|----------------------------|
| 100% | 4 Hours, Min. |
| 135% | 1 Hour, Max. |
| 200% | 3 Sec. Min. ; 20 Sec. Max. |

Additional Information



Datasheet



Resources



Samples



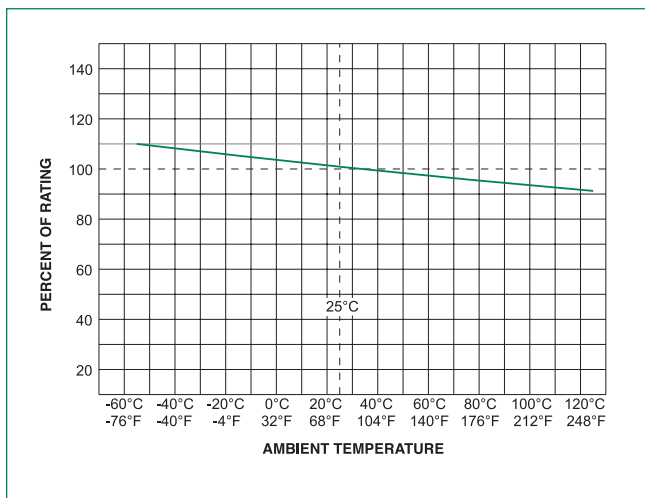
Accessories

For recommended fuse accessories for this product series, see ["Recommended Accessories"](#) section.

Electrical Characteristic Specifications by Item

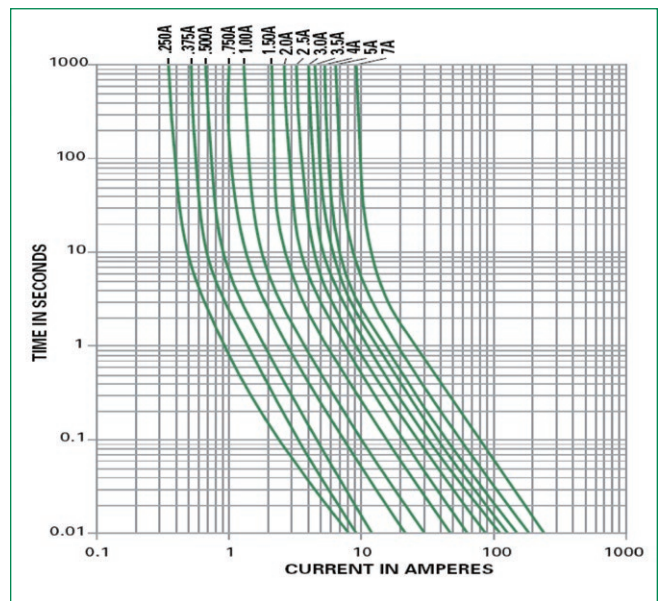
| Amp Code | Ampere Rating (A) | Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I²t (A²sec) | Agency Approvals | | |
|----------|-------------------|--------------------|---------------------|--------------------------------|-----------------------------|------------------|------|----|
| | | | | | | UL US | PS E | CE |
| .250 | 0.25 | 350 | 100A @ 350Vac | 2.410 | 0.216 | x | - | x |
| .375 | 0.375 | 350 | | 1.170 | 0.87 | x | - | x |
| .500 | 0.5 | 350 | | 0.688 | 1.60 | x | - | x |
| .600 | 0.6 | 350 | | 0.477 | 1.750 | x | - | x |
| .750 | 0.75 | 350 | | 0.340 | 2.950 | x | - | x |
| .800 | 0.8 | 350 | | 0.304 | 3.450 | x | - | x |
| 001. | 1 | 350 | | 0.210 | 5.640 | x | x | x |
| 1.25 | 1.25 | 350 | | 0.1460 | 16.2 | x | x | x |
| 01.5 | 1.5 | 350 | | 0.1077 | 20.8 | x | x | x |
| 002. | 2 | 350 | | 0.0689 | 30.0 | x | x | x |
| 2.25 | 2.25 | 350 | | 0.0567 | 39.0 | x | x | x |
| 02.5 | 2.5 | 350 | | 0.0502 | 70.0 | x | x | x |
| 003. | 3 | 350 | | 0.0383 | 77.0 | x | x | x |
| 03.5 | 3.5 | 350 | | 0.0312 | 110 | x | x | x |
| 004. | 4 | 350 | | 0.0258 | 148 | x | x | x |
| 005. | 5 | 350 | | 0.0186 | 267 | x | x | x |
| 006. | 6 | 350 | | 0.0141 | 380 | x | x | x |
| 007. | 7 | 350 | | 0.0116 | 464 | x | x | x |

Temperature Re-rating Curve

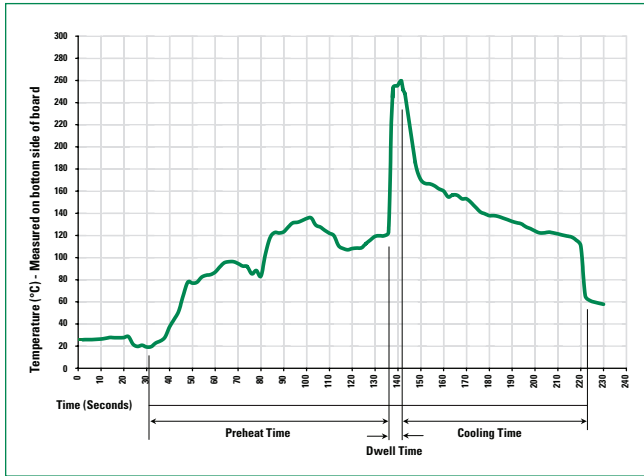


Note:
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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: | 2-5 seconds |

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C
Heating Time: 5 seconds max.

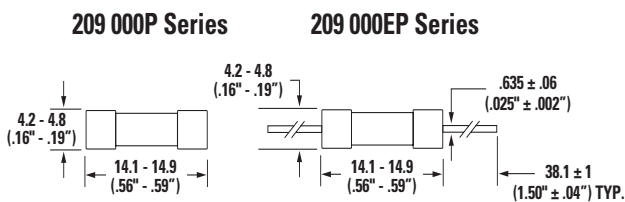
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

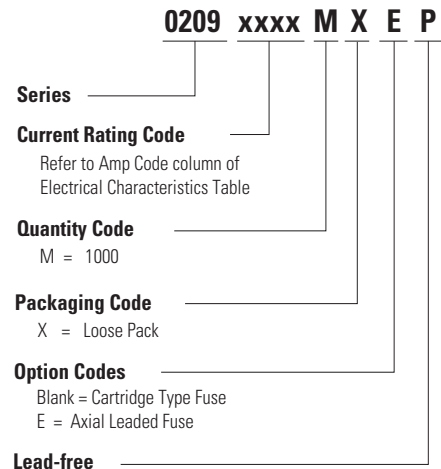
| | |
|--------------------------|---|
| Materials | Body : Glass Cap : Nickel-plated brass Leads: Tin-plated Copper |
| Terminal Strength | MIL-STD-202, Method 211, Test Condition A |
| Solderability | MIL-STD-202 method 208 |
| Product Marking | Cap1 : Brand logo, current and voltage ratings Cap2 : 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 RH (95%) and elevated temp (40°C) for 240 hours |
| Salt Spray | MIL-STD-202, Method 101, Test Condition B |

Dimensions



Part Numbering System



| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|------------------|
| 209 Series | | | | |
| Bulk | N/A | 1000 | MX | N/A |
| Bulk | N/A | 1000 | MXE | N/A |
| Reel and Tape | EIA 296-E | 1500 | DRT1 | T1=53mm (2.087") |

Recommended Accessories

| Accessory Type | Series | Description | Max Application Voltage | Max Application Amperage |
|----------------|---------------------|--|-------------------------|--------------------------|
| Holder | 150 | In-Line Fuseholder | 350 | 10 |
| | 286 | Panel Mount Flip-Top Shock-Safe Fuseholder | 250 | 10 |
| Block | 254 | OMNI-BLOK® Fuse Block | 400 | 10 |
| Clip | 111 | PC Board Mount Fuse Clip | 250 | 10 |

Notes:

- Do not use in applications above rating.
- Please refer to fuseholder data sheet for specific re-rating information.
- Please contact factory for applications greater than the max voltage and amperage shown.