

**208 Series Lead-Free 2AG, Fast-Acting Fuse**



**Description**

Littelfuse 208 Series (2AG) 350V Fast-Acting 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**

- In accordance with Underwriter's Laboratories Standard UL/CSA 248-14
- In accordance with DENAN Appendix 3 for the Japanese Market.
- Available in cartridge and axial lead form and with various lead forming dimensions
- RoHS compliant and Lead-free

**Agency Approvals**

| Agency | Agency File Number   | Ampere Range                             |
|--------|--|--|
|        | E10480   | 0.375A - 10A                             |
|        | Cartridge  |  |
|        | NBK200405-E10480A<br>NBK200405-E10480C<br>NBK110512-E10480A<br>NBK190619-E10480A | 1A<br>1.5A - 3.5A<br>4A - 5A<br>6A - 10A |
|        | Leaded   |  |
|        | NBK200405-E10480B<br>NBK200405-E10480D<br>NBK110512-E10480B<br>NBK190619-E10480B | 1A<br>1.5A - 3.5A<br>4A - 5A<br>6A - 10A |
|        | N/A  | 0.375A - 10A                             |

**Applications**

- Electrical ballasts used in fluorescent lighting and other applications

**Electrical Characteristics for Series**

| % of Ampere Rating | Opening Time   |
|--------------------|----------------|
| 100%               | 4 Hours, Min.  |
| 135%               | 1 Hour, Max.   |
| 200%               | 1 Second, 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 | Amp Rating | Voltage Rating | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals |      |    |
|----------|------------|----------------|---------------------|--------------------------------|---|------------------|------|----|
|          |            |                |                     |                                |   | UL               | PS E | CE |
| .375     | 0.375      | 350            | 100A @ 350V AC      | 0.395                          | 0.171   | x                |      | x  |
| .500     | 0.500      | 350            |                     | 0.265                          | 0.365   | x                |      | x  |
| .750     | 0.750      | 350            |                     | 0.152                          | 1.050   | x                |      | x  |
| 001.     | 1.0        | 350            |                     | 0.103                          | 2.220   | x                | x    | x  |
| 015      | 1.5        | 350            |                     | 0.0712                         | 0.800   | x                | x    | x  |
| 002.     | 2.0        | 350            |                     | 0.0497                         | 2.169   | x                | x    | x  |
| 025      | 2.5        | 350            |                     | 0.0372                         | 2.68  | x                | x    | x  |
| 003.     | 3.0        | 350            |                     | 0.0317                         | 4.62  | x                | x    | x  |
| 035      | 3.5        | 350            |                     | 0.0265                         | 6.70  | x                | x    | x  |
| 004.     | 4          | 350            |                     | 0.0240                         | 9.40  | x                | x    | x  |
| 005.     | 5          | 350            |                     | 0.0186                         | 17.00   | x                | x    | x  |
| 006.     | 6          | 350            |                     | 0.0154                         | 22.10   | x                | x    | x  |
| 007.     | 7          | 350            |                     | 0.0130                         | 40  | x                | x    | x  |
| 008.     | 8          | 350            |                     | 0.0107                         | 56  | x                | x    | x  |
| 010.     | 10         | 350            |                     | 0.0075                         | 116   | 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.

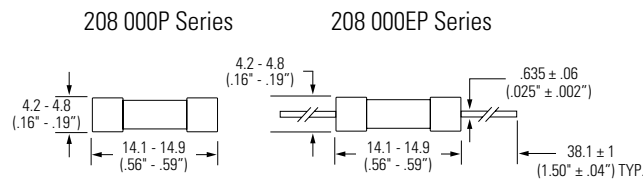
**Note: These devices are not recommended for IR or Convection Reflow process.**

**Product Characteristics**

|                          |   |
|--------------------------|---|
| <b>Materials</b>         | Body : Glass<br>Cap : Nickel-plated brass<br>Leads: Tin-plated Copper                     |
| <b>Terminal Strength</b> | MIL-STD-202, Method 211, Test Condition A   |
| <b>Solderability</b>     | MIL-STD-202 method 208  |
| <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-202, Method 107, Test Condition B (5 Cycles -65°C to +125°C).                           |
| <b>Vibration</b>              | MIL-STD-202, Method 201   |
| <b>Humidity</b>               | MIL-STD-202, Method 103, Test Condition A: High RH (95%) and elevated temp (40°C) for 240 hours |
| <b>Salt Spray</b>             | MIL-STD-202, Method 101, Test Condition B   |

**Dimensions**



**Part Numbering System**



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width     |
|-------------------|-------------------------|----------|---------------------------|------------------|
| <b>208 Series</b> |                         |          |                           |                  |
| 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         | <a href="#">150</a> | In-Line Fuseholder                         | 350                     | 10                       |
|                | <a href="#">286</a> | Panel Mount Flip-Top Shock-Safe Fuseholder | 250                     | 10                       |
| Block          | <a href="#">254</a> | OMNI-BLOK® Fuse Block                      | 400                     | 10                       |
| Clip           | <a href="#">111</a> | 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.

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