

# 2206 Series

## Lead-Free 2AG, Fast-Acting Fuse



### Description

The 2AG Fast-Acting Axial Leaded Fuses provide the same performance characteristics as their 3AG counterpart while occupying one-third the space.

### Features

- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Fuses are boardwashable in most solvents with thermoplastic sleeve
- Available in axial lead form and with various lead forming dimensions
- RoHS compliant and lead-free

### Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

### Web Resources



Download ECAD models, order samples, and find technical resources at [www.littelfuse.com](http://www.littelfuse.com)

### Agency Approvals

| Agency | Agency File Number | Ampere Range |
|--------|--------------------|--------------|
|        | E10480             | 0.75A - 3A   |
|        | 29862              | 0.75A - 3A   |
|        | N/A                | 0.75A - 3A   |

### Electrical Characteristics for Series

| % of Ampere Rating | Opening Time      |
|--------------------|-------------------|
| 100%               | 4 hours, Minimum  |
| 135%               | 1 hour, Maximum   |
| 200%               | 1 second, Maximum |

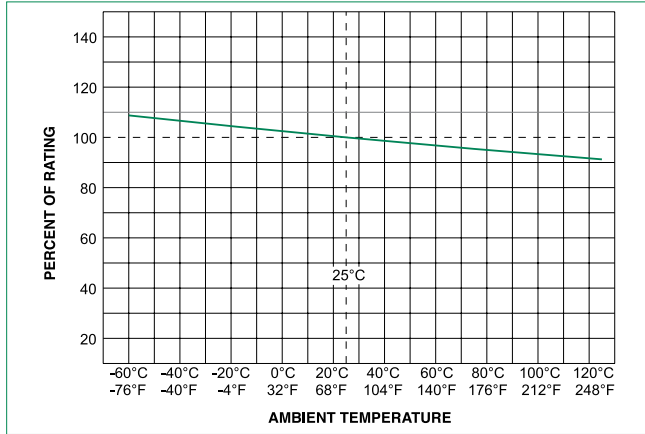
### Electrical Characteristic Specifications by Item

| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating        | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Nom Voltage Drop (mV) | Nom Power Dissipation (W) | Agency Approvals |   |   |
|-------------------|----------|------------------------|----------------------------|--------------------------------|-------------------------------------------------------|-----------------------|---------------------------|------------------|---|---|
|                   |          |                        |                            |                                |                                                       |                       |                           |                  |   |   |
| 0.75              | .750     | 300                    | 100A@300Vac<br>10KA@125Vac | 0.1520                         | 1.05                                                  | N/A                   | N/A                       | x                | x | x |
| 1                 | 001.     | 300                    |                            | 0.1027                         | 2.22                                                  | N/A                   | N/A                       | x                | x | x |
| 2                 | 002.     | 300                    |                            | 0.0497                         | 1.50                                                  | N/A                   | N/A                       | x                | x | x |
| 3                 | 003.     | 300                    |                            | 0.0317                         | 4.62                                                  | N/A                   | N/A                       | x                | x | x |

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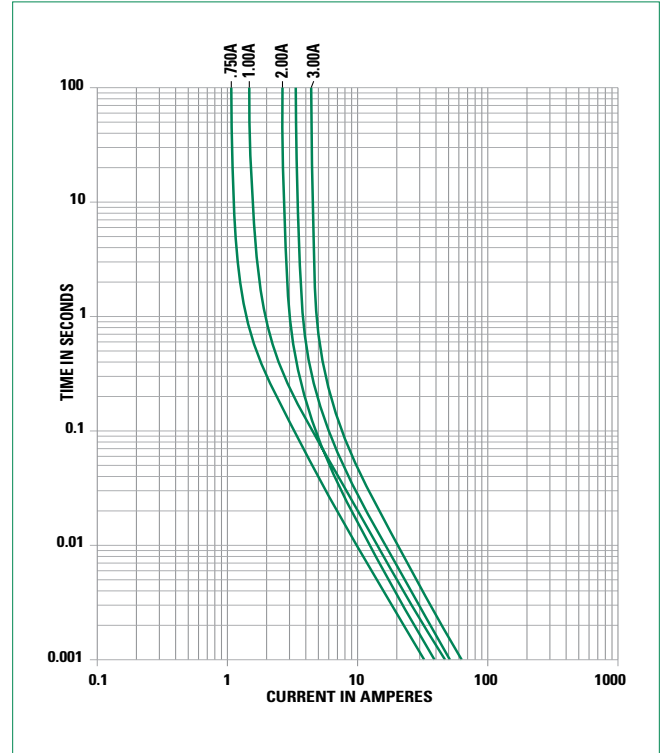
Temperature Derating Curve



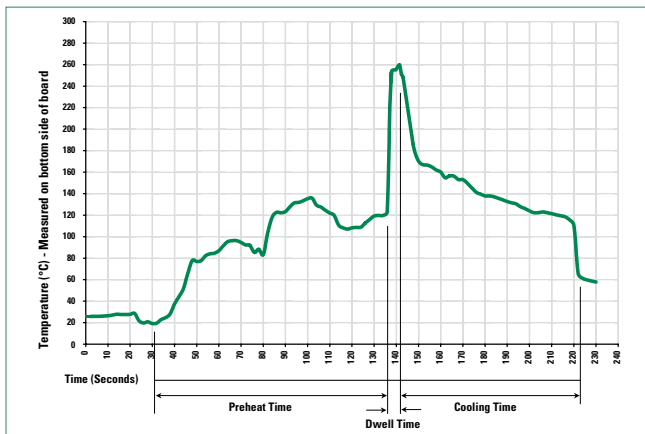
**Note:**

1. Derating 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:<br>(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 Max                        |
| 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.

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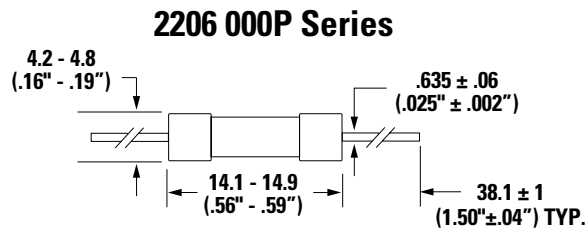
## Lead-Free 2AG, Fast-Acting Fuse

### Product Characteristics

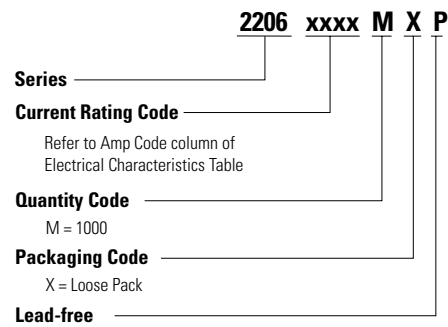
|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| <b>Materials</b>         | Body: Glass<br>Cap : Nickel-plated 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 | Reel Size |
|------------------|-------------------------|----------|---------------------------|-----------|
| Bulk             | N/A                     | 100      | HX                        | N/A       |
| Bulk             | N/A                     | 1000     | MX                        | N/A       |

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