

### 2205 Series, Lead-Free 2AG, Slo-Blo® Fuse



#### Agency Approvals

| Agency                                                                            | Agency File Number | Ampere Range  |
|-----------------------------------------------------------------------------------|--------------------|---------------|
|  | E10480             | 0.250A - 2.5A |
|  | 29862              | 0.250A - 2.5A |
|  | N/A                | 0.250A - 2.5A |

#### Description

The 2AG Slo-Blo® 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.

#### Additional Information



Datasheet



Resources



Samples



Accessories

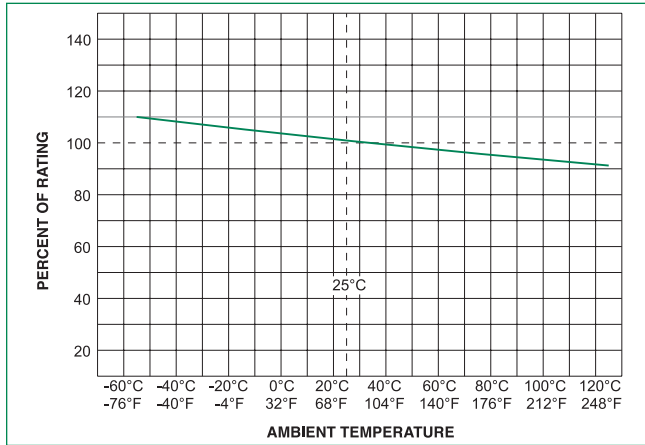
#### Electrical Characteristics for Series

| % of Ampere Rating | Opening Time              |
|--------------------|---------------------------|
| 100%               | 4 hours, Minimum          |
| 135%               | 1 hour, Maximum           |
| 200%               | 3 secs Min.; 20 secs Max. |

#### Electrical Characteristic Specifications by Item

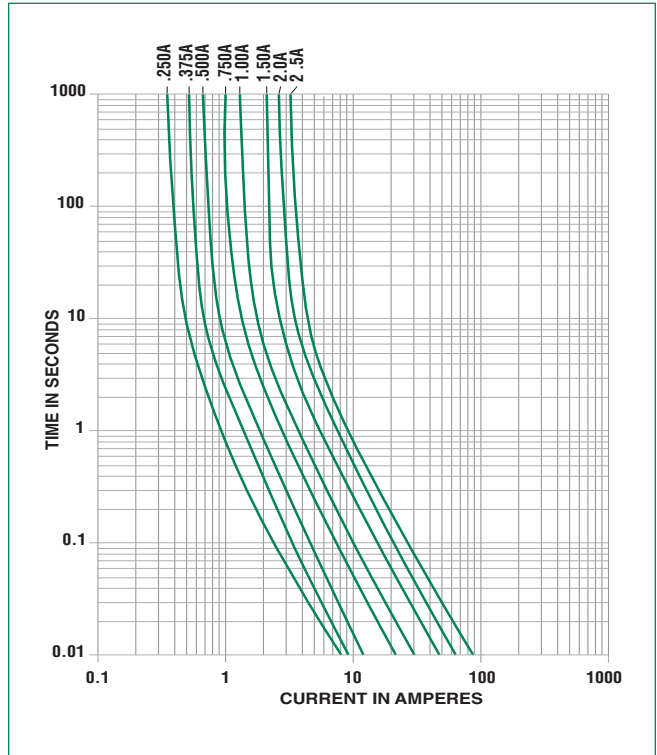
| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating                             | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals                                                                      |                                                                                       |                                                                                       |
|-------------------|----------|------------------------|-------------------------------------------------|--------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                   |          |                        |                                                 |                                |                                                       |  |  |  |
| 0.25              | .250     | 250                    | 35A @ 250VAC;<br>10KA @ 125VAC;<br>60A @ 600VAC | 2.4300                         | 0.334                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 0.35              | .350     | 250                    |                                                 | 1.3100                         | 0.490                                                 | x                                                                                     | x                                                                                     | x                                                                                     |
| 0.375             | .375     | 250                    |                                                 | 1.1685                         | 0.83                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 0.5               | .500     | 250                    |                                                 | 0.6935                         | 1.63                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 0.75              | .750     | 250                    |                                                 | 0.3430                         | 3.91                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 1                 | 001.     | 250                    |                                                 | 0.2120                         | 5.64                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 1.25              | 1.25     | 250                    |                                                 | 0.1460                         | 17.0                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 1.5               | 01.5     | 250                    |                                                 | 0.1077                         | 20.8                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 2                 | 002.     | 250                    |                                                 | 0.0698                         | 40.0                                                  | x                                                                                     | x                                                                                     | x                                                                                     |
| 2.5               | 02.5     | 250                    |                                                 | 0.0502                         | 65.0                                                  | x                                                                                     | x                                                                                     | x                                                                                     |

### Temperature Re-rating Curve

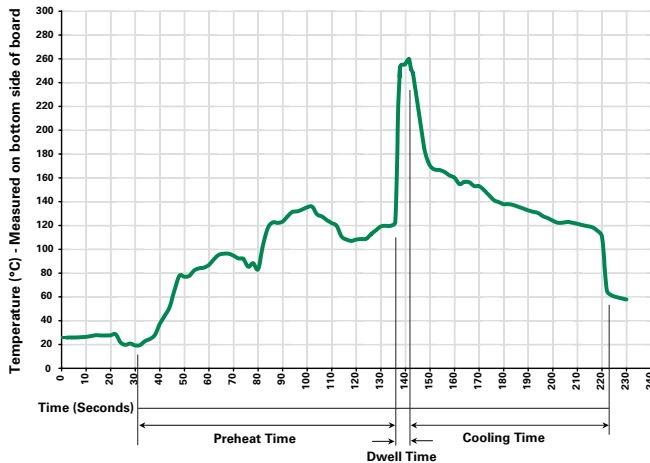


**Note:** Re-rating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### 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.

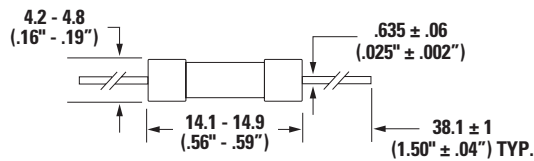
### Product Characteristics

|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| <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 |

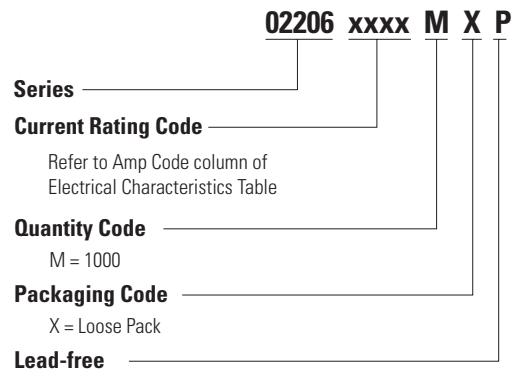
|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -55°C 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

#### 2205 000P Series



### 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       |

#### 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.