Time-Lag Sub-Miniature Fuse
Axial Leaded

Description
The product is a time-lag fuse with low breaking capacity for use with printed circuit boards and is used in a variety of applications. This 3mm × 7mm device is constructed of a ceramic body with electroplated brass end caps. The product comes with 250V AC rating and 50 Ampere breaking capacity, offers excellent quality and is 100% tested for cold resistance and precise length.

Applications
Flatpanel TVs, medical equipment, LCD monitors, lighting systems and industrial equipment.

Features
• Subminiature fuse with quick-acting, low breaking capacity
• 3mm × 7mm physical dimensions
• Ceramic tube, encapsulated with epoxy coating and with nickel plated brass end caps
• Optional axial leads are 0.6mm × 26.5mm
• Protection against harmful over-currents in primary and secondary applications.
• Lead-free and Halogen-free
• Designed to UL 248-14

Specifications
Operating Temperature : -55°C to +125°C
Storage Conditions : +10°C to +60°C
Relative Humidity : ≤ 75% yearly average without dew, maximum 30 days at 95%
Vibration Resistance : 24 cycles at 15 min. each
10-60Hz at 0.75mm amplitude
60-2000Hz at 10g acceleration

Electrical Characteristics

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Rated Current</th>
<th>Nominal Melting I²t (A²sec)</th>
<th>Cold Resistance (mΩ)±30%</th>
<th>Breaking Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP001592</td>
<td>2A</td>
<td>6.76</td>
<td>32.5</td>
<td>35A/250V AC</td>
</tr>
</tbody>
</table>

Temperature Derating Curve

Calculation for ideal fuse selection = \( \frac{\text{Operating Current (A)}}{\text{Rating}} \times 0.75 \)
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Time vs Current Characteristics Table
Average Time Current (I-T) Curves

<table>
<thead>
<tr>
<th>Time vs Current Characteristics: UL-248-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Current</td>
</tr>
<tr>
<td>2A</td>
</tr>
</tbody>
</table>

![Graph of Time vs Current Characteristics]

Soldering Parameters

260°C = ≤5 sec (Wave Soldering)
350°C = ≤3 sec (Hand Soldering)
Soldering Peak:
260°C = 10 sec (IEC 60068-20)

Mechanical Specifications

- Cap
- Solder
- Melt
- Lead
- Solder
- Tube
- Endcap
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**Diagram**

![Diagram of the Time-Lag Sub-Miniature Fuse](image)

**Packing Information**

Dimensions: Millimetres

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**Part Number Table**

<table>
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<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-Miniature Fuse, Time-Lag, 2A, 250V AC, Axial Leaded</td>
<td>MP001592</td>
</tr>
</tbody>
</table>

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