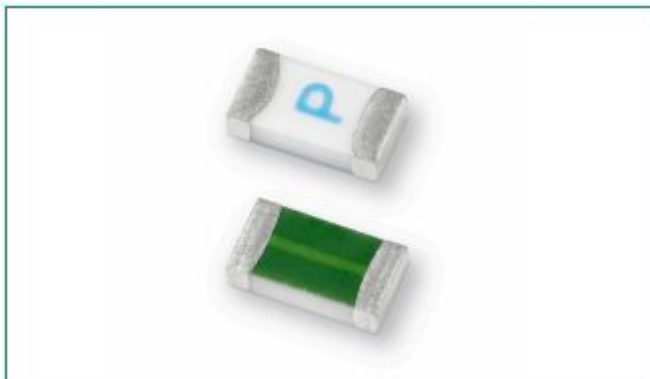


Surface Mount Fuses

Ceramic Fuse > 440A Series



The 440A Series AECQ-Compliant fuses are specifically tested to cater to secondary circuit protection needs of compact auto electronics applications.

The general design ensures excellent temperature stability and performance reliability. This high I_{zt} fuse series is designed to have ultra high inrush current withstand capability to avoid nuisance fuse open.

Agency Approvals

| AGENCY | AGENCY FILE NUMBER | AMPERE RANGE |
|--------|--------------------|--------------|
| | E10480 | 0.500A - 8A |
| | 29862 | 0.500A - 8A |

Electrical Characteristics for Series

| % of Ampere Rating | Ampere Rating | Opening Time at 25°C |
|--------------------|---------------------------|----------------------|
| 100% | .50A - .75A 1.75A - 8A | 4 hours, Minimum |
| 350% | .50A - .75A 1.75A - 8A | 5 secs., Maximum |

Features

- Operating Temperature from -55°C to +150°C
- 100% Lead-free, RoHS compliant and Halogen-free
- Meets Littelfuse's automotive qualifications*
- Ultra high I_{zt} values
- Fast response to faulty current to ensure over-current protection to sensitive electronic component

* - Largely based on Littelfuse internal AEC-Q200 test plan.

Applications

- Li-ion Battery
- LED Lighting
- Automotive Navigation System
- TFT Display
- Battery Management System (BMS)
- Cluster

Additional Information



Datasheet



Resources



Samples

Electrical Specifications by Item

| Ampere Rating (A) | Amp Code | Max. Voltage Rating (V) | Interrupting Rating (AC/DC) ₁ | Nominal Resistance (Ohms) ₂ | Nominal Melting I _{zt} (A ₂ Sec.) ₃ | Nominal Voltage Drop At Rated Current (V) ₄ | Nominal Power Dissipation At Rated Current (W) | Agency Approvals | |
|-------------------|----------|-------------------------|--|--|--|--|--|------------------|---|
| 0.5 | .500 | 63 | 50A @ 63VAC/DC | 0.8140 | 0.02642 | 0.4831 | 0.242 | x | X |
| 0.75 | .750 | 63 | 50A @ 63VAC/DC | 0.4624 | 0.09312 | 0.3983 | 0.299 | x | X |
| 1.75 | 1.75 | 32 | 50A @ 32VAC/DC | 0.0450 | 0.3312 | 0.0777 | 0.136 | x | X |
| 2 | 002. | 32 | | 0.0385 | 0.4326 | 0.0792 | 0.158 | x | X |
| 2.5 | 02.5 | 32 | | 0.02850 | 0.8191 | 0.0747 | 0.187 | x | X |
| 3 | 003. | 32 | | 0.02252 | 1.232 | 0.0742 | 0.223 | x | X |
| 3.5 | 03.5 | 32 | | 0.01845 | 1.789 | 0.0757 | 0.265 | x | X |
| 4 | 004. | 32 | | 0.01553 | 2.601 | 0.0709 | 0.284 | x | X |
| 5 | 005. | 32 | | 0.0120 | 4.761 | 0.0654 | 0.327 | x | X |
| 7 | 007. | 32 | | 0.00753 | 8.464 | 0.0696 | 0.487 | x | X |
| 8 | 008. | 32 | 0.00634 | 12.95 | 0.0655 | 0.524 | x | X | |

Notes:

1. AC Interrupting Rating tested at rated voltage with unity power factor. DC Interrupting Rating tested at rated voltage with time constant < 0.8 msec.
2. Nominal Resistance measured with < 10% rated current.
3. Nominal Melting I_{zt} measured at 1msec. opening time.
4. Nominal Voltage Drop measured at rated current after temperature has stabilized.

Devices designed to carry rated current for 4 hours minimum. It is recommended that devices be operated continuously at no more than 80% rated current. See "Temperature Derating Curve" for additional derating information.

Devices designed to be mounted with marking code facing up.