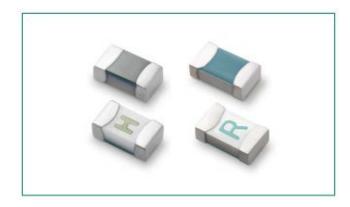
# **Surface Mount Fuses**

## Ceramic Fuse > 438A Series



## **Agency Approvals**

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE		
c <b>FM</b> "us	E10480	0.250A – 6A		
<b>⊕</b> .	29862	0.250A – 6A		

#### **Electrical Characteristics for Series**

% of Ampere Rating	Ampere Rating	Opening Time at 25°C		
100%	0.250A – 6A	4 Hours, Minimum		
250%	0.250A – 6A	5 Seconds, Maximum		

The 438A series AECQ-compliant fuses are specifically tested to cater secondary circuit protection needs of compact auto electronics application.

The general design ensures excellent temperature stability and performance reliability.

The high I²t values which is typical in the Littelfuse ceramic fuse family ensure high inrush current withstand capability.

- Operating Temperature from -55°C to +150°C
- 100% Lead-free, RoHS compliant and Halogen-free
- Suitable for both leaded and lead-free reflow/wave soldering
- Meets Littelfuse's Automotive qualifications\*

### **Applications**

- · Li-ion Battery
- · LED Head-Lights
- Automotive Navigation System
- TFT Display
- Battery Management System (BMS)
- Clusters

# **Additional Information**







Resources



Samples

### **Electrical Specifications by Item**

Ampere Rating (A)	Amp Code	Max. Voltage Rating (V)	Interrupting Rating (AC/DC) <sub>1</sub>	Nominal Resistance (Ohms) <sub>2</sub>	Nominal Melting I <sub>2</sub> t (A <sub>2</sub> Sec.) <sub>3</sub>	Nominal Voltage Drop At Rated Current (V) <sub>4</sub>	Nominal Power Dissipation At Rated Current (W)	Agency A	pprovals
0.25	.250	63VDC	50A @ 63VDC 50A @ 32VAC	2.218	0.0017	0.550	0.138	Х	Х
0.375	.375	63VDC		1.247	0.0041	0.488	0.183	Х	Х
0.5	.500	63VDC		0.829	0.0100	0.486	0.243	Х	Х
0.75	.750	63VDC		0.466	0.0281	0.378	0.284	х	х
1	001.	63VDC		0.310	0.0593	0.351	0.351	Х	Х
1.25	1.25	63VDC		0.200	0.0510	0.365	0.456	Х	Х
1.75	1.75	32VDC	50A@32VAC/32VDC	1.405	0.1440	0.360	0.540	Х	Х
2	002.	32	50A @ 32VDC/12VAC	0.0490	0.181	0.107	0.214	Х	Х
2.5	02.5	32		0.0364	0.240	0.095	0.238	Х	Х
3	003.	32		0.0264	0.439	0.093	0.279	Х	Х
3.5	03.5	32		0.0210	0.647	0.082	0.287	Х	Х
4	004.	32		0.0177	0.730	0.079	0.316	Х	Х
5	005.	32		0.0127	0.747	0.074	0.370	Х	Х
6	006.	24	50A @ 24VDC/12VAC	0.0086	1.444	0.072	0.432	х	х

#### Notes

- AC Interrupting Rating tested at rated voltage with unity power factor. DC Interrupting Rating tested at rated voltage with time constant < 0.8 msec.</li>
- 2. Nominal Resistance measured with < 10% rated current.
- 3. Nominal Melting I2t measured at 1 msec. opening time.
- ${\small 4.}\, Nominal\, Voltage\, Drop\, measured\, at\, rated\, current\, after\, temperature\, has\, stabilized.\\$

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 Re-rating Curve" for additional re-rating information.

Devices designed to be mounted with marking code facing up.

<sup>\*</sup> Largely based on Littelfuse internal AECQ-200 test plan.