

# Surface Mount Fuses

## Ceramic Fuse > 438GT Series



The 438GT Series is a 100% Lead-free, RoHS compliant and Halogen-free fuse series designed specifically to provide over-current protection to circuits that operate under high working ambient temperature up to 150°C.

The general design ensures excellent temperature stability and performance reliability.

The high I<sup>2</sup>t values which is typical in the Littelfuse Ceramic Fuse family ensure high inrush current withstand capability.

### Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
	E10480	2A – 6A
	29862	2A – 6A

- Operating Temperature from -55°C to +150°C
- Suitable for both leaded and lead-free reflow/ wave soldering
- 100% Lead-free, RoHS compliant and Halogen-free

### Applications

- Handheld Electronics
- LCD Displays
- Battery Packs
- Hard Disk Drives
- SD Memory Cards

### Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time at 25°C
100%	2A – 6A	4 Hours, Minimum
250%	2A – 6A	5 Seconds, Maximum

### Additional Information



Datasheet



Resources



Samples

### Electrical Specifications by Item

Ampere Rating (A)	Amp Code	Max. Voltage Rating (V)	Interrupting Rating (AC/DC) <sup>1</sup>	Nominal Resistance (Ohms) <sup>2</sup>	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> Sec.) <sup>3</sup>	Nominal Voltage Drop At Rated Current (V) <sup>4</sup>	Nominal Power Dissipation At Rated Current (W)	Agency Approvals	
2	002.	32	50A @ 32VDC/12VAC	0.0490	0.181	0.110	0.220	x	x
2.5	02.5	32		0.0364	0.240	0.094	0.235	x	x
3	003.	32		0.0264	0.439	0.082	0.246	x	x
3.5	03.5	32		0.0210	0.647	0.078	0.273	x	x
4	004.	32		0.0164	0.739	0.075	0.300	x	x
5	005.	32	0.0127	0.747	0.072	0.360	x	x	
6	006.	24	50A @ 24VDC/12VAC	0.0086	1.444	0.070	0.420	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<sup>2</sup>t 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 Re-rating Curve" for additional re-rating information.

Devices designed to be mounted with marking code facing up.