


# Surface Mount Fuses

## Ceramic Fuse > 437 Series

This 100% Lead-free, RoHS compliant and Halogen-free fuse series has been designed specifically to provide over current protection to circuits that see high working ambient temperatures (up to 150°C).

The general design ensures excellent temperature stability and performance reliability.

In addition to this, the high I<sup>2</sup>t values typical of the Littelfuse Ceramic Fuse family ensure high inrush current withstand capability.

Agency Approvals		
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
	E10480	0.250A ~ 8A
	29862	0.250A ~ 8A

Electrical Characteristics for Series		
% of Ampere Rating	Ampere Rating	Opening Time at 25°C
100%	250mA - 8A	4 hours, Minimum
250%	750mA - 8A	5 seconds, Maximum
350%	250mA - 500mA	5 seconds, Maximum
350%	750mA - 8A	1 second, Maximum

### Features

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

### Applications

- LCD Displays
- Servers
- Printers
- Scanners
- Data Modems

### Additional Information



Datasheet



Resources



Samples

### Electrical Specifications by Item

Ampere Rating (A)	Amp Code	Max. Voltage Rating (V)	Interrupting Rating <sub>1</sub>	Nominal Resistance (Ohms) <sub>2</sub>	Nominal Melting I <sub>2</sub> t (A <sup>2</sup> Sec.) <sub>3</sub>	Nominal Voltage Drop At Rated Current (V) <sub>4</sub>	Nominal Power Dissipation At Rated Current (W)	Agency Approvals	
250mA	.250	125	50 A @ 125 V AC/DC	2.290	0.003	0.78	0.195	x	x
375mA	.375	125		1.330	0.010	0.60	0.225	x	x
500mA	.500	63		0.908	0.018	0.52	0.260	x	x
750mA	.750	63	50 A @ 63 V AC/DC	0.665	0.064	0.45	0.338	x	x
1A	001.	63		0.420	0.100	0.41	0.410	x	x
1.25A	1.25	63		0.318	0.256	0.40	0.500	x	x
1.5A	01.5	63		0.209	0.324	0.39	0.585	x	x
1.75A	1.75	63		0.071	0.075	0.27	0.473	x	x
2A	002.	63		0.058	0.225	0.20	0.400	x	x
2.5A	02.5	32	50 A @ 32 V AC/35 V DC	0.043	0.441	0.15	0.375	x	x
3A	003.	32		0.033	0.506	0.14	0.420	x	x
3.5A	03.5	32		0.027	0.777	0.13	0.455	x	x
4A	004.	32		0.022	1.024	0.13	0.520	x	x
5A	005.	32		0.0159	2.30	0.13	0.650	x	x
7A	007.	32		0.0100	5.02	0.13	0.910	x	x
8A	008.	32		0.008	7.23	0.13	1.040	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. Contact Littelfuse if application transient surges are less than 1 ms.
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.