\rm Littelfuse

430 Series Fuse





Agency A	pprovals	
Agency	Agency File Number	Ampere Range
<i>L</i> P。	E10480	500mA - 3A
S ₽₀	LR29862	500mA - 3A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time at 25°C
100%	4 hours, Minimum
200%	1 sec., Min.; 120 sec., Max.
300%	0.1 sec., Min.; 3 sec., Max
800%	0.002 sec., Min.; .05 sec., Max.

Description

The 430 series time-lag (Slo-Blo) surface mount fuse series is a small (1206 size) thin-film device designed for secondary protection of circuits used in space constrained applications such as hand-held portable electronic devices.

For RoHS compliant and lead-free design, please refer to the Littelfuse 468 series thin film fuse.

Features

- For RoHS compliant and Lead-Free designs use 468 series
- Time delay feature withstands high in-rush currents and prevents nuisance openings.
- Package is visually distinct from fastacting version for easy identification.
- Top side marking allows visual verification of amperage rating.

Applications

Secondary protection for space constrained applications such as:

- Cell phonesBattery packs
- DVD players
- Hard disk drives.
- Digital cameras

Electrica	l Specifica	tions by Ite	m				
Ampere		Max		Nominal Cold	Nominal	Agency A	pprovals
Rating (A)	Amp Code	Rating (V)	Rating	Resistance (Ohms)	Melting I²t (A²sec)	.74	(
0.500	.500	63		0.2500	0.0305	x	x
1.00	001.	63	50 amperes at 63 VAC/VDC	0.09700	0.1440	x	x
1.50	01.5	63		0.05600	0.2980	x	x
2.00	002.	63	35 amperes at 63 VAC/VDC	0.03900	0.4940	x	x
3.15	003.	32	50 amperes at 63 VAC/VDC	0.02000	1.3300	x	x

1. Measured at 10% of rated current, 25°C.

2. Measured at rated voltage.



Temperature Rerating Curve

Average Time Current Curves





Soldering Parameters - Wave Soldering

Reflow Co	ndition	Pb – Free assembly	
	-Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 secs	
Average ra (T _L) to pea	amp up rate (Liquidus Temp k	5°C/second max	
$T_{S(max)}$ to T_L	- Ramp-up Rate	5°C/second max	
Poflow	-Temperature (T _L) (Liquidus)	217°C	
nellow	-Temperature (t _L)	60 – 150 seconds	
PeakTemp	erature (T _P)	250 ^{+0/-5} °C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-dov	vn Rate	5°C/second max	
Time 25°C	to peakTemperature (T _P)	8 minutes Max.	
Do not exc	ceed	260°C	





Product Characteristics

Materials	Body: Epoxy Substrate Terminations: 95% Tin / 5% Lead over Nickel over Copper Element Cover Coat: Conformal Coating
Operating Temperature	– 55°C to 90°C. Consult temperature rerating curve chart. For operation above 90°C contact Littelfuse.
Humidity	MIL-STD-202F Method 103B Condition D
Thermal Shock	Withstands 5 cycles of – 55°C to 125°C

Vibration	Withstands 10-55 Hz per MIL-STD-202F, Method 201A and 10-2000 Hz at 20 G's per MIL-STD-202F, Method 204D, Condition D
Insulation Resistance (After Opening)	Greater than 10,000 ohms
Resistance to Soldering Heat	Withstands 60 seconds above 200°C and up to 260°C, maximum

Dimensions



Part Marking System

Amp Code	Marking Code
.500	F
001.	н
01.5	К
002.	N
003.	Р



Packaging			
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
8mm Tape and Reel	EIA RS-481-2 (IEC 286, part 3)	3000	WR