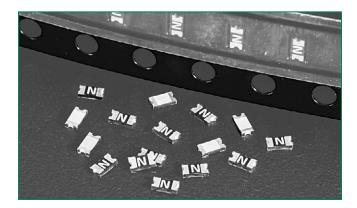


434 Series Fuse







Agency Approvals

Agen	су	Agency File Number	Ampere Range	
· S	7	E10480	250mA - 3A	
®	8	LR29862	250mA - 3A	

Electrical Characteristics for Series

% of Ampere Rating	Opening Time at 25°C	
100%	4 hours, Minimum	
200%	5 seconds, Maximum.	
300%	0.2 seconds, Maximum	

Description

The 434 series fast-acting surface mount fuse series is an ultra small (0603 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 467 series thin film fuse.

Features

- The SlimLine 0603 fuse is an extremely small, low profile design (0603 chip size) utilizing thin-film technology to achieve precise control of electrical characteristics.
- The lower height profile produces a flat surface for improved performance in pick-and-place operations and an alternate solution for height critical applications.

Applications

Secondary protection for space constrained applications such as:

- Cell phones
- DVD players
- Battery packs
- · Hard disk drives.
- Digital cameras

Electrical Specifications by Item

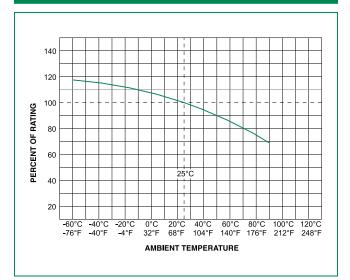
Ampere	Max Nominal Cold		Nominal	Agency Approvals			
Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating	Resistance (Ohms)	Melting I²t (A²sec)	%	®
0.250	.250	32		0.3750	0.0030	Х	Х
0.375	.375	32		0.2650	0.0053	Х	Х
0.500	.500	32	50A @32 V AC/DC	0.1903	0.0087	Х	Х
0.680	.680	32		0.1250	0.0109	х	Х
0.750	.750	32		0.1140	0.0171	х	Х
1.00	001.	32		0.0720	0.0212	Х	Х
1.25	1.25	32		0.0540	0.0320	Х	Х
1.50	01.5	32		0.0480	0.0526	Х	Х
1.75	1.75	32		0.0390	0.0661	Х	Х
2.00	002.	32		0.0360	0.1040	Х	Х
2.50	02.5	32	35A @32 V AC/DC	0.0280	0.1750	Х	Х
3.00	003.	32		0.0230	0.1980	Х	Х
3.50	03.5	32		0.0190	0.2650	Х	Х
4.00	004.	32		0.0170	0.3520	Х	Х
5.00	005.	32		0.0130	1.2970	Х	Х

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

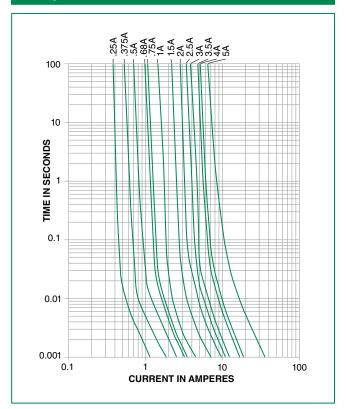
^{2.} Measured at rated voltage.



Temperature Rerating Curve

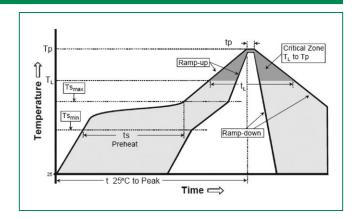


Average Time Current Curves



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 ramp up rate (Liquidus Temp (T_L) to peak		5°C/second max	
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max	
D (1	-Temperature (T _L) (Liquidus)	217°C	
Reflow	-Temperature (t _L)	60 – 150 seconds	
PeakTemperature (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 exceed		260°C	



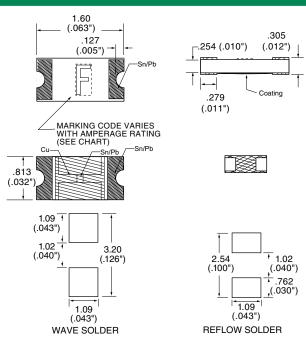


Product Characteristics

Materials Body: Epoxy Substrate Terminations: 100% Tin over Nickel over Element Cover Coat: Conformal Coating	
Operating Temperature - 55°C to 90°C. Consult temperature reration curve chart. For operation above 90°C continued titles.	
Humidity	MIL-STD-202F Method 103B Condition D

Thermal Shock	Withstands 5 cycles of – 55°C to 125°C		
Vibration	Per MIL-STD-202F		
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

Amp Code	Marking Code
.250	D
.375	E
.500	F
.680	X
.750	G
001.	Н
1.25	J
01.5	K
1.75	L
002.	N
02.5	0
003.	Р
03.5	R
004.	S
005.	Т

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
8mm Tape and Reel	EIA RS-481-2 (IEC 286, part 3)	5000	NR