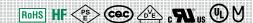
Surface Mount Fuses

NANO^{2®} > 250V/350V VAC/VDC Time Lag Fuse > 462 Series

462 Series Fuse





Agency Approvals

AGENCY	AGENCY FILE NUMBERS	AMPERE RANGE		
c FL ° us	E67006	0.5A - 5A		
DVE	40022235	1A, 1.6A, 2A, 3.15A, 4A		
(PS) E	NBK250416-JP1021	1A - 1.6A		
	JET1896-31007-1005	2A - 5A		
cec	CQC14012115883	1.6A		
₩M	E242325	0.5A - 5A		

Additional Information









Samples

Description

The 462 series Nano^{2®} Surface Mount Fuse has time-lag current characteristics with interrupting ratings rated at 250V and 350V. It complies with IEC 60127-4 Universal Modular Fuse-Links.

Features

- Heat resistant plastic housing, UL 94 V-0
- Designed for line or low voltage applications
- Low voltage drop
- Internationally approved
- High pulse resistance
- Lead-free -- compatible with lead-free solders and higher temperature profiles
- Available in ratings of 0.5A to 5A

Applications

- Lighting ballast
- AC/DC adaptor primary protection
- Transformerless AC/DC converter circuit
- High DC voltage power distribution system

Electrical Characteristics for Series

% of Amp Rating	Opening Time			
125%	1 hour, Minimum			
200%	2 minutes, Maximum			
1000%	10 milliseconds, Minimum 100 milliseconds, Maximum			

Electrical Specifications by Item

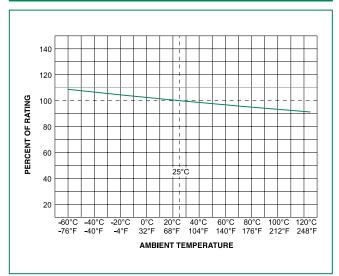
A		Max		Nominal	Nominal	Nom	Nom	Agency Approvals ³				
Ampere Rating (A)	Amp Code	Voltage Rating (V) ⁵	Interrupting Rating	Cold Resistance (Ohms) ¹	Melting I ² t (A ² sec)	Voltage Drop (mV)	Power Dissipation (mW)	c 'AL 'us	Ď ^V E	® M	Cec	PS E
0.500	0500			0.2270	0.43	160	200	X		Х		
0.630	0630			0.1570	0.80	160	200	X		X		
0.800	0800			0.1300	1.40	160	250	X		X		
1.00	1100		100A @ 350VAC/VDC ⁴	0.0867	2.70	140	250	X	Χ	X		X
1.25	1125			0.0602	5.20	130	250	X		X		X
1.60	1160	250	150A @	0.0443	9.70	130	280	X	Χ	X	X	X
2.00	1200	250	250VAC/VDC	0.0335	5.44	120	300	X	Χ	X		X
2.50	1250			0.0278	8.00	120	450	X		X		X
3.15	1315		150A @ 250VAC/VDC	0.0204	14.00	110	600	X	Х	X		X
4.00	1400			0.0158	21.00	110	800	X	Х	X		X
5.00	1500			0.0124	40.00	110	1000	Х		X		X

- Cold resistance measured at less than 10% of rated current at 23°C
- 2. Pt values slated for 8ms opening time
 3. Agency Approval Table Key: X = Approved or Certified, P = Pending
 4. UL Recognition IR at 100A @ 350 VAC/VDC
- Not Recognition In at 100A @ 330 VAC/VDC
 Rated at 350VAC/VDC per UL Recognition under UL248 (up to 4A only).
 Rated at 250VAC/VDC per VDE under IEC standard 60127-4.

If you have special electrical characteristic needs, please contact Littelfuse to discuss application specific options

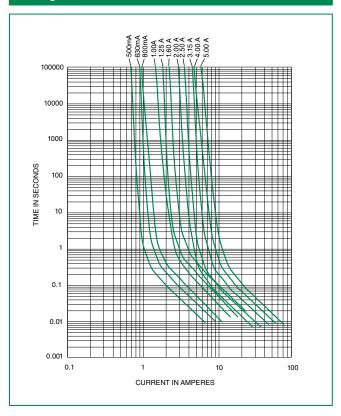


Temperature Re-rating Curve



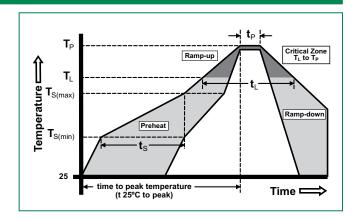
Note: 1. Rerating depicted in this curve is in addition to the standard derating of 25% for

Average Time Current Curves



Soldering Parameters

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 – 120 seconds		
Average R (T _L) to pea	amp-up Rate (Liquidus Temp k)	5°C/second max.		
T _{S(max)} to T	- Ramp-up Rate	5°C/second max.		
Reflow	-Temperature (T _L) (Liquidus)	217°C		
nellow	-Temperature (t _L)	60 - 90 seconds		
PeakTemp	perature (T _P)	250+ ^{0/-5} °C		
Time with Temperate	in 5°C of actual peak ure (t _p)	20 – 40 seconds		
Ramp-dov	vn Rate	5°C/second max.		
Time 25°C	to peakTemperature (T _P)	8 minutes max.		



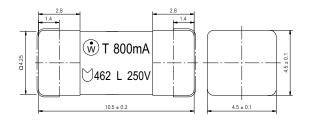


Product Characteristics

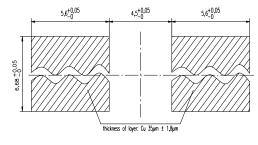
Materials	Body : Plastic UL 94 V-0 Cap : Tin-plated brass	
Product Marking	Body: Brand Logo, "T" for Time-Lag, Current Rating, L Voltage Rating, UMF logo	
Solderability	IEC 60068-2-58	
Reistance to Soldering Heat	IEC 60068-2-58	

Operating Temperature	-40°C to +85°C with proper derating		
Climatic Category	IEC60068-1, -2-1, -2-2, -2-78 (-40°C to +85°C / 21 days)		
Vibration	IEC60068-6 (24 cycles of 15 mins each, 1-60 Hz at 0.75mm amplitute, 60-2000 Hz at 10g acceleration)		
Moisture Sensitivity Level	J-STD-020, Level 1		

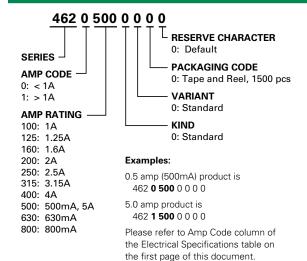
Dimensions



Recommended Pad Layout



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code		
16mm Tape and Reel	IEC 60286, part 3	1500	0		

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.