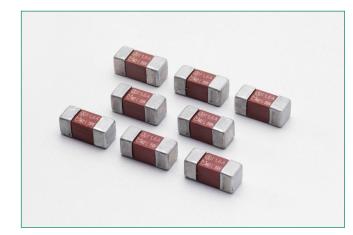


to 5A

compliant.



Additional Information



Electrical Characteristics for Series

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

Description

The 462 series Nano2® Surface Mount Fuse has time-lag current characteristics with 250V and 350V interrupting ratings. It complies with IEC 60127-4 Universal Modular Fuse-Links (UMF).

Features

- Heat resistant plastic housing, UL 94 V-0
- Designed for line or low voltage applications
- Low voltage drop
- Internationally approved
- High pulse resistance

Applications

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

Lead-free -- compatible with

Available in ratings of 0.5A

Halogen-free and RoHS

lead-free solders and higher temperature profiles

Agency Approvals

Agency	Agency File/Certificate Number	Ampere Range
c SN ° us	E67006	0.5A - 5A
DYE	40022235	1A, 1.6A, 2A, 3.15A, 4A
	NBK250416-JP1021	1A - 1.6A
(i)	NBK010721-JP1021	2A - 5A
()	CQC14012115883	1.6A
EAC	RU C-DE.HB26.B01385/21	0.5A - 5A
₪⊻	E242325	0.5A - 5A

Electrical Specifications by Item

Ampere		Max		Nominal Cold	Nominal	Nom	Nom	Nom Nom		Agency Approvals ³					
Rating (A)	Amp Code	Voltage Rating (V)⁵	Interrupting Rating	Resistance (Ohms) ¹	Melting I ² t (A ² sec)	Voltage Drop (mV)	Power Dissipation (mW)	c W us		⋓⊻		EHC			
0.5	0500			0.227	0.43	160	200	Х	-	Х	-	Х	-		
0.63	0630			0.157	0.8	160	200	Х	-	Х	-	Х	-		
0.8	0800		100A @ 350VAC/VDC⁴ 250 150A @	0.13	1.4	160	250	Х	-	Х	-	Х	-		
1.0	1100			0.0867	2.7	140	250	Х	Х	Х	-	Х	Х		
1.25	1125			0.0602	5.2	130	250	Х	-	Х	-	Х	Х		
1.6	1160	250		0.0443	9.7	130	280	Х	Х	Х	Х	Х	Х		
2.0	1200	250	250VAC/VDC	0.0335	5.44	120	300	Х	Х	Х	-	Х	Х		
2.5	1250		2001707000	0.0278	8.0	120	450	Х	-	Х	-	Х	Х		
3.15	1315		0.0204	14.0	110	600	Х	Х	Х	-	Х	Х			
4.0	1400			0.0158	21.0	110	800	Х	Х	Х	-	Х	Х		
5.0	1500		150A @ 250VAC/VDC	0.0124	40.0	110	1000	Х	-	Х	-	Х	Х		

1. Cold resistance measured at less than 10% of rated current at 23°C

2. I²t values are measured at 8ms opening time

Agency Approval Table Key: X = Approved or Certified, P = Pending
UL Recognition - IR at 100A @ 350 VAC/VDC

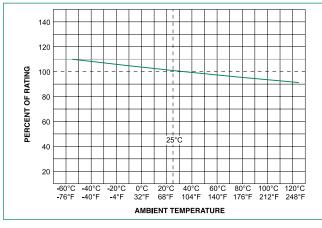
Bated at 350VAC/VDC per UL Recognition under UL248 (up to 4A only). Rated at 250VAC/VDC per VDE under IEC standard 60127-4.

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



462 Series 250V/350V VAC/VDC Time Lag Fuse

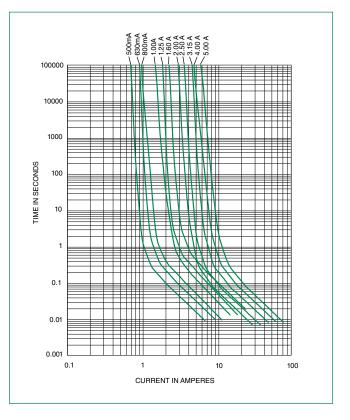
Temperature Re-rating Curve



Note:

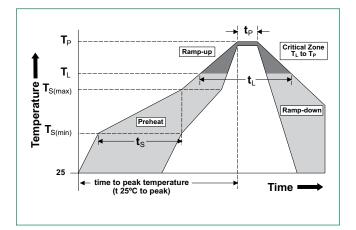
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Reflow Conc	lition	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 seconds		
Average Ran peak)	np-up Rate (Liquidus Temp (T _L) to	5°C/second max.		
$\mathbf{T}_{\mathrm{S(max)}}$ to \mathbf{T}_{L} -	Ramp-up Rate	5°C/second max.		
Reflow	- Temperature (T _L) (Liquidus)	217°C		
	- Temperature (t _L)	60 – 150 seconds		
Peak Temper	ature (T _P)	250 ^{+0/-5} °C		
Time within	5°C of actual peak Temperature (t _p)	20 – 40 seconds		
Ramp-down	Rate	5°C/second max.		
Time 25°C to	o peak Temperature (T _P)	8 minutes max.		

Soldering Parameters

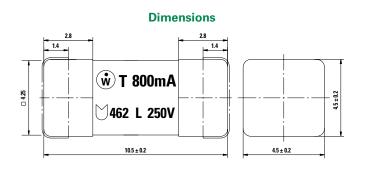


Product Characteristics

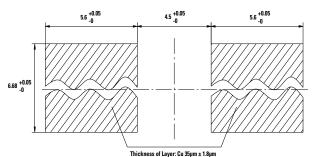
Materials	Body: Plastic UL 94 V-0 Cap: Tin-plated brass			
Product Marking	Body: Brand Logo, "T" for Time-Lag, Current Rating, L Voltage Rating, UMF logo			
Solderability	IEC 60068-2-58			
Reistance to Soldering Heat	IEC 60068-2-58			

Operating Temperature	-40°C to +85°C with proper derating
Climatic Category	IEC 60068-1, -2-1, -2-2, -2-78 (–40°C to +85°C / 21 days)
Vibration	IEC 60068-6 (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

Part Numbering System



Recommended Pad Layout



462 0 500 0 0 0 0 **Reserve Character** 0: Default Series · **Packaging Code** AMP Code 0: Tape and Reel, 1500 pcs 0: <1A 1: >1A Variant 0: Standard AMP Rating 100: 1A Kind 0: Standard 125: 1.25A 160: 1.6A 200: 2A Examples: 0.5 amp (500mA) product is 462 0 500 0 0 0 0 250: 2.5A 315: 3.15A 5.0 amp product is 400: 4A 462 1 500 0 0 0 0 0 500: 500mA, 5A 630: 630mA Please refer to Amp Code column of the Electrical Specifications table on the first page of this document. 800: 800mA

Packaging

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

Disclaimer Notice - Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall be deemed void for any claims or damages arising out of products used in applications not expressly is there documentation. The set and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse. 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.

