

ROHS 464 Series Fuse







Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
(PS) E	NBK30502-E108480A	1A - 6.3A
M	E184655A,B	500mA - 6.3A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
125%	1 hour, Minimum
200%	2 minutes, Maximum
1000%	0.001 sec., Min.; 0.01 sec., Max.

Description

The Surface Mount Nano² 250V UMF product family complies with IEC Publication IEC60127-4-Universal Modular Fuse-Links [UMF]. This IEC standard has been accepted by UL/CSA making it the first global fuse standard.

Features

- Fast Acting
- Listed to IEC 60127-4, Universal Modular Fuse-Links (UMF), 250V
- 250VAC Voltage rating
- RoHS complaint

Applications

- Power supply
- Lighting system
- White goods
- Industrial equipment
- Medical equipment

Electrical Specifications by Item

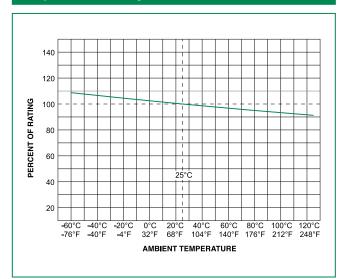
Ampere	Max	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting l²t (A²sec)	Nominal Voltage Drop (mV)	Agency Approvals		
Rating (A)	ting Amp Code Rating					PS E	M	
0.500	.500	250	100 amperes @250VAC	0.2373	0.22	600		×
0.800	.800	250		0.1159	0.96	400		X
1.00	001.	250		0.0762	0.51	300	Х	Х
1.25	1.25	250		0.0580	0.98	300	х	Х
1.60	01.6	250		0.0448	1.67	300	х	Х
2.00	002.	250		0.0354	2.48	300	х	Х
2.50	02.5	250		0.0288	3.99	300	Х	Х
3.15	3.15	250		0.0206	8.05	300	Х	Х
4.00	004.	250		0.0156	13.85	300	х	Х
5.00	005.	250		0.0119	23.6	300	х	X
6.30	06.3	250		0.0093	53.33	300	Х	Х

Notes:

- l²t calculated at 8ms
- Resistance is measured at 10% of rated current, 25°C
- For information and availability of additional ratings please contact Littelfuse



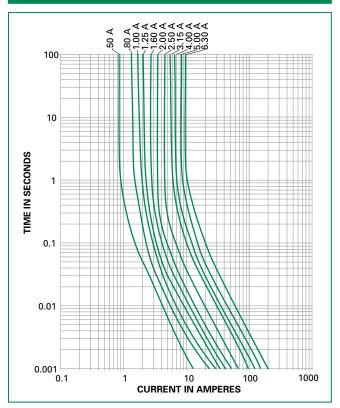
Temperature Rerating Curve



Note:

 Derating depicted in this curve is in addition to the standard derating of 15% for continuous operation.

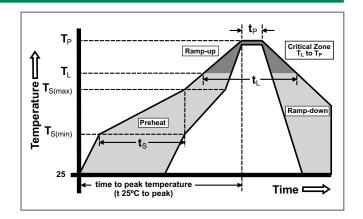
Average Time Current Curves



Soldering Parameters

Wave 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 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 – 90 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	
		260°C Peak	



Temperature, 10 seconds max

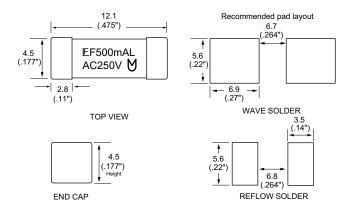


Product Characteristics

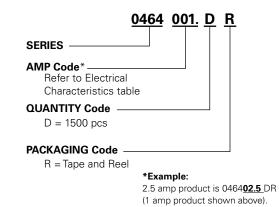
Materials	Body: Ceramic Terminations: Silver-plated Caps	
Product Marking	Brand, Ampere Rating, Voltage Rating, UMF Logo	
Operating Temperature	-55°C to 125°C	
Moisture Sensitivity Level	Level 1, J-STD-020C	
Solderability	IEC 60127-4	
Insulation Resistance (after Opening)	IEC 60127-4 (0.1Mohm min @ 500VDC)	

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C / +125°C
Mechanical Shock	MIL-STD-202, Method 213, Test Condition A
Vibration	MIL-STD-202, Method 201 (10-55 Hz)
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48hrs)
Resistance to Soldering Heat	IEC 60127-4

Dimensions



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
24mm Tape and Reel	EIA RS-481-1 (IEC 286, part 3)	1500	DR