

ROHS HF 465 Series Fuse







Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
PS	NBK030205-E108480B	1A - 6.3A
Ø	E184655A,B	250mA - 6.3A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time	
125% 1 hour, Minimum		
200%	2 minutes, Maximum	
1000%	0.01 sec., Min.; 0.1 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

- Time-Lag
- Listed to IEC 60127-4, Universal Modular Fuse-Links (UMF), 250V
- 250VAC Voltage rating
- RoHS compliant and Halogen Free

Applications

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

Electrical Specifications by Item

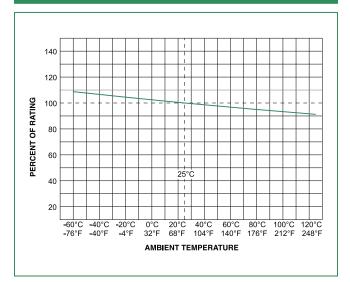
Ampere	Max		Nominal Cold	N	Agency Approvals		
Rating Amp Code (A)		Voltage Interrupting Rating Rating (V)		Resistance (Ohms)	Nominal Melting I²t (A²sec)	PS	M
1.00	001.	250	100 amperes @250VAC	0.1070	2.8	Х	Х
1.25	1.25	250		0.0830	5.6	Х	х
1.60	01.6	250		0.0560	9.2	×	х
2.00	002.	250		0.0390	14.9	Х	х
2.50	02.5	250		0.0260	21.0	Х	Х
3.15	3.15	250		0.0210	31.7	×	х
4.00	004.	250		0.0160	48.4	Х	х
5.00	005.	250		0.0130	87.0	Х	x
6.30	06.3	250		0.0088	144.4	Х	Х

Notes:

- I²t calculated at 8ms.
- Resistance is measured at 10% of rated current, 25°C
- For information and availability of additional ratings please contact Littelfuse

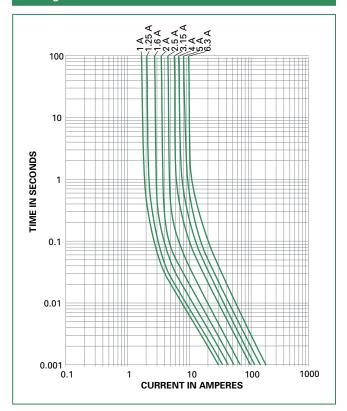


Temperature Rerating Curve



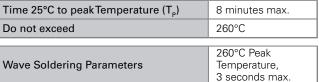
1. Derating depicted in this curve is in addition to the standard derating of 15% for continuous operation.

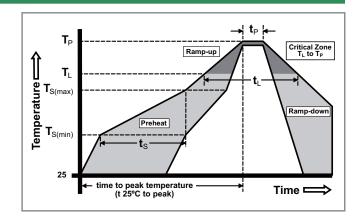
Average Time Current Curves



Soldering Parameters

Reflow Condition		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.	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 - 90 seconds	
PeakTemperature (T _P)		250 ^{+0/-5} °C	
Time with	in 5°C of actual peak ure (t _p)	20 – 40 seconds	
Ramp-down Rate		5°C/second max.	
Time 25°C to peak Temperature (T _P)		8 minutes max.	
Do not exceed		260°C	
		260°C Peak	





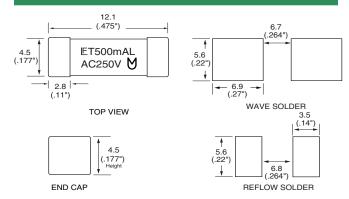


Product Characteristics

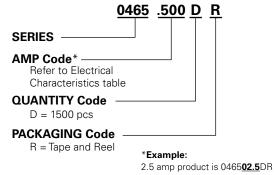
Materials	Body: High Performance Ceramic Terminations: Silver plated brass.	
Product Marketing	Brand, Ampere Rating, Voltage Rating, UMF Logo	
Operating Temperature	−55°C to 125°C.	
Moisture Sensitivity Level	Level 1, J-STD-020C	
Solderability	IEC60127-4	
Insulation Resistance (after opening	IEC 60127-4 (0.1Mohm min @ 500VDC)	
Shock	MIL-STD-202, Method 213, Test Condition A	

Thermal Shock	MIL-STD-202, Method 107, Test Condition B , 5 cycles, –65°C to 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



(0.5 amp product shown above).

Packaging

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



Mouser Electronics

Authorized Distributor

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Littelfuse:

<u>04651.25DR</u> <u>046501.6DR</u> <u>046506.3DR</u> <u>0465002.DR</u> <u>0465001.DR</u> <u>04653.15DR</u> <u>046502.5DR</u> <u>0465005.DR</u> 0465004.DR