ROHS HF 465 Series Fuse

ittelfuse[®]

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Agency Approvals			
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE	
PS E	NBK030205-E108480B	1A - 6.3A	
М	E184655A,B	250mA - 6.3A	

Electrical Characteristics for Series

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

urface 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

Description

- 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 ٠
- Industrial equipment •
- Medical equipment .

Ampere Rating Amp Code (A)		Max		Nominal Cold		Agency Approvals	
	Rating (V)	Rating	Resistance (Ohms)	I ² t (A ² sec)	PSE	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	x	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	х
4.00	004.	250		0.0160	48.4	х	х
5.00	005.	250		0.0130	87.0	x	х
6.30	06.3	250		0.0088	144.4	x	х

- I²t calculated at 8ms.

- Resistance is measured at 10% of rated current, 25°C

- For information and availability of additional ratings please contact Littelfuse

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Specifications are subject to change without notice. Please refer to www.littelfuse.com/series/465.html for current information.

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Surface Mount Fuses NANO^{2®} > 250V UMF Time Lag > 465 Series

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Temperature Rerating Curve

Average Time Current Curves



Note:

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



Soldering Parameters

Reflow Co	ndition	Pb – Free assembly	
Pre Heat	-Temperature Min (T _{s(min)})	150°C	
	-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 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 exc	ceed	260°C	
Wave Sold	lering Parameters	260°C Peak Temperature, 3 seconds max.	





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

Part Numbering System



*Example: 2.5 amp product is 0465<u>02.5</u>DR

0465 .500 D R

(0.5 amp product shown above).





Packaging

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Dimensions

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

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