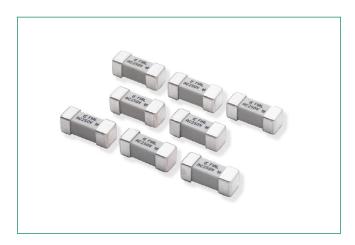
## UK & ((ROHS) HF PS M



### **Description**

The 464 Series fuse is a surface mount Nano<sup>2®</sup> fuse that conforms to IEC 60127-4. This IEC standard addresses Universal Modular Fuse-links (UMF) which are accepted world-wide without any additional country-specific deviations.

### **Features & Benefits**

- Fast-Acting
- Listed to IEC 60127-4, Universal Modular Fuse-Links (UMF)
- 250VAC Voltage rating
- RoHS compliant and Halogen Free
- Conforms with Low Voltage Directive (LVD) and Electrical Equipment Safety Regulation
- Conforms to DENAN's Appendix 3

### **Additional Information**



Resources





Samples

Accessories

**Applications** 

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

### **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.

### **Agency Approvals**

Agency	Agency File Number	Ampere Range		
PS	NBK030205-E10480B	1A - 5A		
PS	NBK101105-E184655	6.3A		
M	E184655	0.25A - 6.3A		
$\triangle$	HU-003208	0.5A - 6.3A		
(€	N/A	0.5A - 6.3A		
UK CA	N/A	0.5A - 6.3A		

### **Electrical Specifications by Item**

Ampere		Max	Interrupting	Nominal Malting	Nominal						
Rating (A)	Rating Amp Code Voltage $Rating$ Resistance $I^{2}t$ ( $\Delta^{2}sec$ )	I <sup>2</sup> t (A <sup>2</sup> sec)		PS	M	Œ	UK	<b>A</b>			
0.500	.500	250		0.2373	0.22	600	-	X	Х	Х	X
0.800	.800	250		0.1159	0.308	400	-	Х	X	Х	X
1.00	001.	250		0.0762	0.51	300	Х	Х	Х	Х	X
1.25	1.25	250		0.0580	0.98	300	Х	X	X	Х	X
1.60	01.6	250		0.0448	1.15	300	Х	Х	Х	Х	Х
2.00	002.	250	100A@250VAC	0.0354	2.48	300	Х	X	X	Х	Х
2.50	02.5	250		0.0288	3.99	300	Х	Х	Х	Х	X
3.15	3.15	250		0.0206	8.05	300	Х	X	X	Х	X
4.00	004.	250		0.0156	13.85	300	Х	Х	X	Х	×
5.00	005.	250		0.0119	23.6	300	Х	Х	Х	Х	X
6.30	06.3	250		0.0093	35.912	300	Х	Х	Х	Х	Х

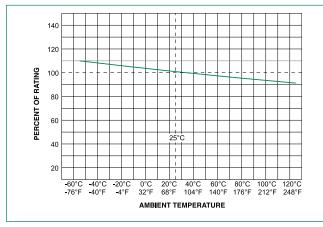
### Notes:

- $I^2t$  calculated at 8ms.
- Resistance is measured at 10% of rated current, 25°C
- $\hbox{-} For information and availability of additional ratings please contact Littlefuse} \\$

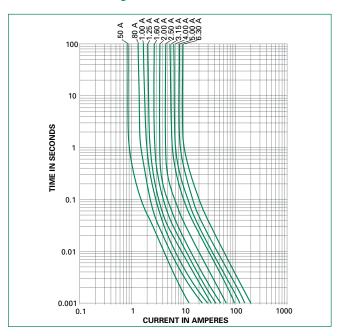


# **464 Series**NANO<sup>2®</sup> > 250V UMF > Fast-Acting Fuse

### **Temperature Re-rating Curve**

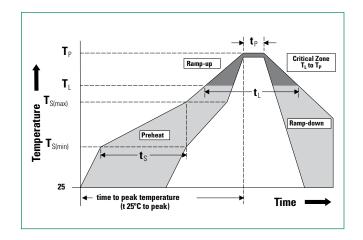


### **Average Time Current Curves**



### **Soldering Parameters**

Reflow Condition		Pb – Free			
		assembly			
	-Temperature Min (T <sub>s(min)</sub> )		150°C		
Pre Heat	-Temperature Max (T <sub>s(max)</sub> )		200°C		
	-Time (Min to Max) (t <sub>s</sub> )		60 - 180 secs		
Average ramp up rate (Liquidus Temp ( $T_L$ ) to peak			5°C/second max.		
T <sub>S(max)</sub> to T <sub>L</sub> - Ramp-up Rate			5°C/second max.		
Reflow	-Temperature (T <sub>L</sub> ) (Liquidus)		217°C		
nellow	- Temperature (t <sub>L</sub> )		60 – 150 seconds		
Peak Temperature (T <sub>p</sub> )			260 <sup>+0/-5</sup> °C		
Time within 5°C of actual peak Temperature (t <sub>p</sub> )			20 – 40 seconds		
Ramp-down Rate			5°C/second max.		
Time 25°C to peak Temperature (T <sub>p</sub> )			8 minutes max.		
Do not exceed		260°C			
		00000 D1.T			
Wave Soldering Parameters 260°C Peak Temper 10 seconds max.		•			





Note:

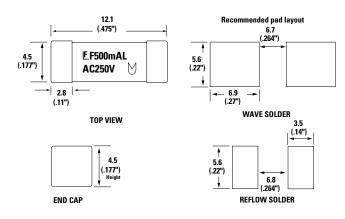
1. Rerating depicted in this curve is in addition to the standard derating of 15% for continuous operation.

### **Product Characteristics**

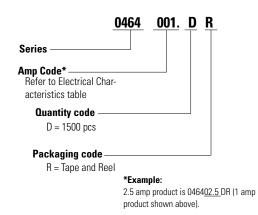
Materials	Body: Ceramic Terminations: Silver-plated Caps		
Product Marking	Brand, Ampere Rating, Voltage Rating, UMF Logo		
Operating Temperature	-55°C to 125°C		
Moisture Sensitivity Level	Level 1, J-STD-020		
Solderability	IEC 60127-4		
Insulation Resistance (after Opening)	IEC 60127-4 (0.1Mohm min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



### **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

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