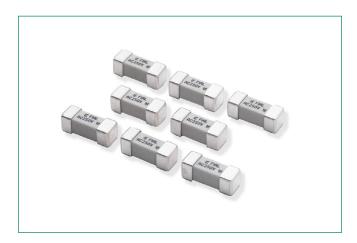
UKA ((RoHS) HF PS M



Description

The 464 Series fuse is a surface mount Nano^{2®} 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⟩ E	NBK030205-E10480B	1A - 5A		
E	NBK101105-E184655	6.3A		
М	E184655	0.25A - 6.3A		
\triangle	HU-003208	0.5A - 6.3A		
Œ	N/A	0.5A - 6.3A		
UK	N/A	0.5A - 6.3A		

Electrical Specifications by Item

Ampere		Max	Interrupting	upting Nominal Cold Nominal Melting Nominal Agency App					ncy Appr	pprovals	
Rating (A)	g Amp Code Voltage Rating (V) Resistance (Ohms)	12t (A2cac)	Voltage Drop (mV)	PS	M	€	UK	A			
0.500	.500	250		0.2373	0.22	600	-	X	X	X	Х
0.800	.800	250		0.1159	0.308	400	-	Х	×	Х	×
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	Х	Х	X	X
1.60	01.6	250		0.0448	1.15	300	Х	Х	×	Х	×
2.00	002.	250	100A@250VAC	0.0354	2.48	300	Х	X	×	Х	×
2.50	02.5	250		0.0288	3.99	300	Х	Х	Х	X	X
3.15	3.15	250		0.0206	8.05	300	Х	Х	Х	X	Х
4.00	004.	250		0.0156	13.85	300	Х	Х	×	X	×
5.00	005.	250		0.0119	23.6	300	Х	Х	Х	X	Х
6.30	06.3	250		0.0093	35.912	300	Х	Х	×	Х	×

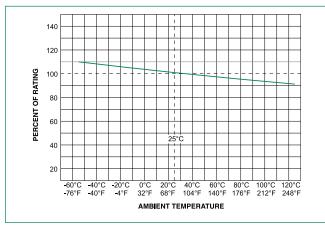
Notes:

- 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 SeriesNANO^{2®} > 250V UMF > Fast-Acting Fuse

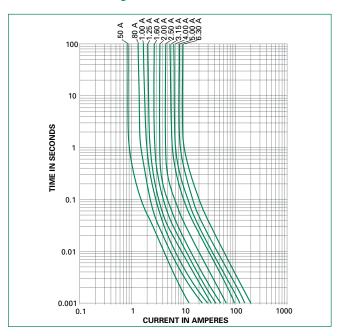
Temperature Re-rating Curve



Note:

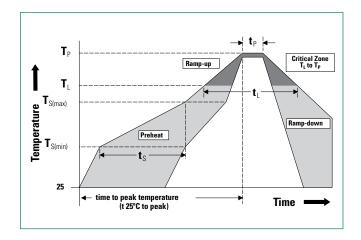
1. Rerating depicted in this curve is in addition to the standard derating of 15% for continuous operation.

Average Time Current Curves



Soldering Parameters

Reflow Condition		Pb – Free			
		assembly			
	-Temperature Min (T _{s(min)})		150°C		
Pre Heat	- Temperature Max	200°C			
	-Time (Min to Max) (t _s)		60 – 180 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		
nellow	- Temperature (t _L)		60 – 150 seconds		
Peak Temperature (T _P)			260 ^{+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 peak Temperature (T _p)			8 minutes max.		
Do not exceed			260°C		
		00000 D I T			
Wave Soldering Parameters		260°C Peak Temperature, 10 seconds max.			



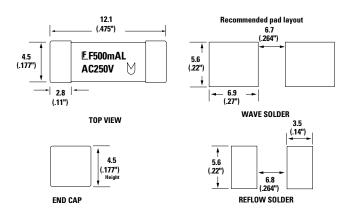


Product Characteristics

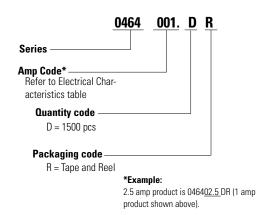
Materials	Body: Ceramic Terminations: Silver-plated Caps Brand, Ampere Rating, Voltage Rating, UMF Logo		
Product Marking			
Operating Temperature	-55°C to 125°C		
Moisture Sensitivity Level	Level 1, J-STD-020		
Solderability	IEC 60127-4		
Insulation Resistance (after Opening)	IEC 60127-4 (0.1Mohm min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

Disclaimer Notice - 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.

