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RoHS PO HF

FL (P

468 Series 1206 Slo-Blo® Fuse

Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
91	E10480	0.5A - 3A
(SP)	29862	0.5A - 3A

Electrical Characteristics for Series

% of Ampere Rating	OpeningTime at 25°C
100%	4 hours, Minimum
200%	1 sec., Min.; 120 sec., Max.
300%	0.05 sec., Min.; 1.5 sec., Max
800%	0.0015 sec., Min.; .05 sec., Max.

Additional Information



Electrical Specifications by Item



Description

The 468 Series Slo-Blo[®] Surface Mount Fuse (SMF) is a small (1206 size) thin-film device designed for secondary protection of circuits used in space constrained applications such as hand-held portable electronic devices.

This series is 100% lead-free and meets the requirements of the RoHS directive. New Halogen-Free 468 Series fuses are available-to order use the "HF" suffix. See Part Numbering section for additional information.

Features

- Complies with electronic industry environmental standards for lead reduction.
- Product is compatible with lead-free solders and higher temperature profiles.
- Time delay feature withstands high inrush currents and prevents nuisance openings.
- Package is visually distinct from fastacting version for easy identification.
- Top side marking allows visual verification of amperage rating.

Applications

Secondary protection for space constrained applications:

- Cell phones
- Battery packs
- Digital cameras
- DVD players
- Hard disk drives.

Ampere Rating	Amp		Nom Voltage	age Power	Agency Approvals				
(A) Code	Rating Rating (V)	(Ohms)	l ² t (A ² sec)	Drop (mV)	Dissipation (W)	77	()		
0.50	.500	63	50A @63 VAC/VDC	0.27000	0.0310	156.77	0.0784	х	х
1.00	001.	63		0.0790	0.1270	94.70	0.0947	х	х
1.50	01.5	63		0.0440	0.2880	82.32	0.1235	х	х
2.00	002.	63	35A @63 VAC 50A @63 VDC	0.0325	0.5060	77.27	0.1545	х	x
2.50	02.5	63		0.0240	1.0110	73.92	0.1848	х	x
3.00	003.	32	50A @32 VAC/VDC	0.01950	1.2700	72.95	0.2189	х	x

1. Measured at 10% of rated current, 25°C.

2. Measured at rated voltage.

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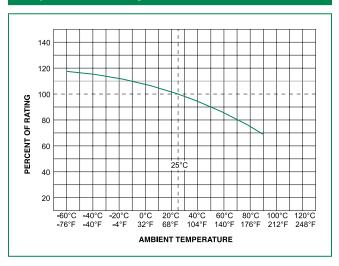
100

10

Average Time Current Curves

δĀ

Temperature Re-rating Curve



Note:

1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Example:

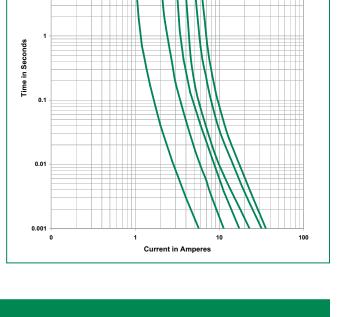
- For continuous operation at 70 degrees celsius, the fuse should be derated as follows:
- $I = (0.75)(0.80)I_{RAT} = (0.60)I_{RAT}$
- The temperature derating curve represents the nominal conditions. For questions about temperature derating curve, please consult Littelfuse technical support for assistance.

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 – 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	
	-Temperature (t _L)	60 – 150 seconds	
PeakTemperature (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	

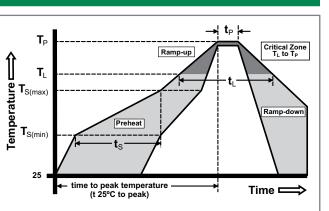
Wave Soldering

260°C, 10 seconds max.



1.5A 2.5 3A

₹





Product Characteristics

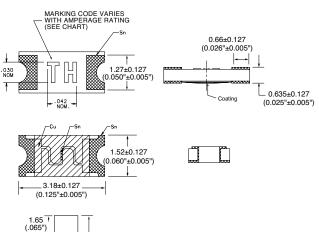
	Body: Epoxy Substrate
Materials	Terminations: 100% Tin over Nickel over
Waterials	Copper
	Element Cover Coat: Conformal Coating
Operating Temperature	-55°C to 90°C. Consult temperature re-rating curve chart. For operation above 90°C please contact Littelfuse
Thermal Shock	Withstands 5 cycles of – 50°C to 125°C
Humidity	MIL-STD-202, Method 103, Condition D

VibrationWithstands 10-55 Hz per MIL-STD-202,
Method 201 and
10-2000 Hz at 20 g's per MIL-STD-202,
Method 204, Condition DInsulation Resistance
(After Opening)Greater than 10,000 ohms.Resistance to
Soldering HeatMIL-STD-202, Method 210,
Condition D

Dimensions

1.52 +

Packaging



⁵") _____ 4.83 ⁰") ____ (.190") <u>↓</u> ____ (.190") <u>↓</u> _____ (.080") WAVE SOLDER



Part Marking System

Amp Code	Marking Code
.500	TF
001.	ТН
01.5	тк
002.	TN
02.5	то
003.	ТР

Part Numbering System

0468002.NRHF

SERIES -

AMP Code

The dot is poisitioned before the Packaging Suffix with whole ratings and within the numbering sequence for fractional ratings. Refer to Amp Code column in the Electrical Specifications table.

PACKAGING Code _____

NR = Tape and Reel, 5000 pcs

'HF' SUFFIX

HALOGEN FREE ITEM

Example:

1.5 amp product is 0468<u>01.5</u>NRHF (2 amp product shown above).

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
Tape & Reel – 8mm tape	EIA-481 Rev. D (IEC 60286, part 3)	5000	NR