Rohs 🔊 HF 🗣 🏵

Flat top surface for pick-and-

Element-covering material is

Lead-free, Halogen-free and

Recognized to UL/CSA/NMX

248-1 and UL/CSA/NMX 248-

resistant to industry standard

place operations

cleaning operations

RoHS compliant



Additional Information





Electrical Characteristics for Series

Resources

Accessories

Samples

Description

The 466 Series Fast-Acting 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 466 Series fuses are available to order using the "HF" suffix. See Part Numbering section for additional information.

Features & Benefits

- Product is compatible with lead-free solders and higher temperature profiles
- Product is marked on top surface with code to allow amperage rating identification without testing
- Low profile for height sensitive applications

Applications

Secondary protection for space constrained applications:

14

- Cell phones
- DVD playersHard disk drives
- Battery packsDigital cameras

Agency Approvals

% of Ampere Rating	Opening Time at 25°C	Agency	Agency File Number	Ampere Range
100%	4 hours, Minimum	71	E10480	0.125A - 5A
200%	5 sec., Maximum	() E	29862	0.125A - 5A
300%	0.2 sec., Maximum		20002	011207 (07 (

Electrical Specifications by Item

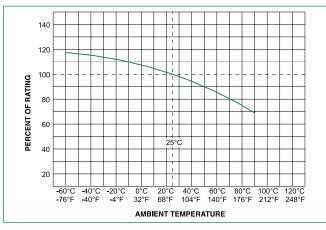
Ammone Dating	A	Max		Nominal Cold	Nominal	Nom	Nom Power	Agency A	Approvals
Ampere Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating	Resistance (Ohms)	Melting I²t (A²sec)	Voltage Drop (mV)	Dissipation (W)	91	() ()
0.125	.125	125		3.925	0.00064	634.37	0.0793	х	х
0.200	.200	125	50A @ 125VAC/	1.100	0.00055	254.28	0.0509	х	х
0.250	.250	125	VDC	0.691	0.0022	207.01	0.0518	х	х
0.375	.375	125		0.351	0.0045	169.18	0.0634	х	х
0.500	.500	63	50A @ 63VAC/VDC	0.248	0.0060	158.47	0.0792	х	х
0.750	.750	63		0.106	0.0276	98.65	0.0740	х	х
1.00	001.	63		0.075	0.0423	79.97	0.0800	х	х
1.25	1.25	63		0.057	0.0640	85.71	0.1071	х	х
1.50	01.5	63		0.046	0.1103	82.97	0.1244	х	х
1.75	1.75	63		0.038	0.1835	80.73	0.1413	х	х
2.00	002.	63		0.030	0.2326	78.73	0.1575	х	х
2.50	02.5	32	50A @ 32VAC/VDC	0.023	0.3516	76.99	0.1925	х	х
3.00	003.	32		0.019	0.5760	75.99	0.2280	х	х
4.00	004.	32		0.014	1.764	74.50	0.2980	х	х
5.00	005.	32		0.011	2.500	73.75	0.3688	х	х

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



Fuse Datasheet

Temperature Re-rating Curve



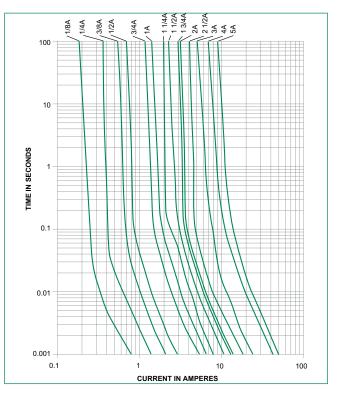
Note:

1. Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

Example: For continuous operation at 70 degrees celsius, the fuse should be rerated as follows: $I = (0.75)(0.80)I_{BAT} = (0.60)I_{BAT}$

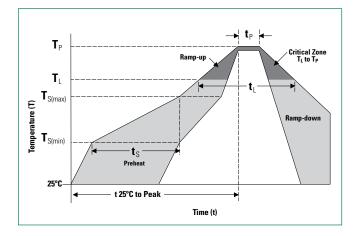
2. The temperature derating curve represents the nominal conditions. For questions about temperature derating curve, please consult Littelfuse technical support for assistance.





Reflow Condition		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 – 180 seconds	
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	
Peak Temperature (T _P)		260 ^{+0/-5} °C	
Time within (t _p)	15°C of actual peak Temperature	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	

Soldering Parameters



260°C, 10 seconds max.

Fuse Datasheet

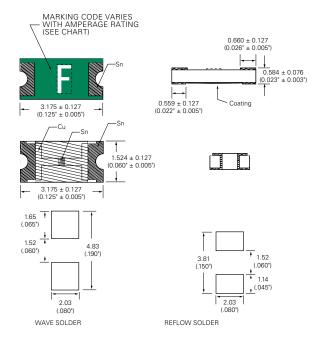
Product Characteristics

Materials	Body: Advanced High Temperature Substrate Terminations: 100% Tin over Nickel over Copper Element Cover Coat: Conformal Coating		
Operating	– 55°C to 90°C.		
Temperature	Consult temperature re-rating curve chart.		
Thermal Shock	Withstands 5 cycles of –55°C to 125°C		
Humidity	MIL-STD-202, Method 103, Condition D		
Vibration	MIL-STD-202, Method 201		
Insulation Resistance (After	Greater than 10,000 ohms		
Opening)			
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition D		

Part Marking System

Amp Code	Marking Code
.125	В
.200	C
.250	D
.375	Ε
.500	F
.750	G
001.	Н
1.25	J
01.5	К
1.75	L
002.	Ν
02.5	0
003.	Р
004.	S
005.	т

Dimensions



Part Numbering System

0466002.NRHF

SERIES —

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

QUANTITY CODE

N = 5000 pcs

PACKAGING Code

R = Tape and Reel

'HF' SUFFIX

Halogen-free

Example

0.125 amp product is 0466.125NRHF (2 amp product shown above).

Packaging

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

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 0308.375UR
 0308.500UR
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 S1206-F

 3.0A
 9321315278
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 R451001.L
 3-103-119
 3-103-123
 3-103

 127
 0154002.DRL
 0154.000RL
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 189140.0,8
 189140.0,63
 189140.0,25
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 0494002.SNRHF
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 0494.250NRHF
 0494.375NRHF
 0494.500NRHF

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