

466 Series 1206 Fast-Acting Fuse

RoHS (96) HF



Agency Approvals				
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE		
91	E10480	0.125A - 5A		
(Sft)	29862	0.125A - 5A		

Electrical Characteristics for Series

% of Ampere Rating	Opening Time at 25°C
100%	4 hours, Minimum
200%	5 sec., Maximum
300%	0.2 sec., Maximum

Additional Information





Samples

Electrical Specifications by Item

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

- 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
- Flat top surface for pickand-place operations

- Element-covering material is resistant to industry standard cleaning operations
- Lead-free, Halogen-free and RoHS compliant

Applications

Secondary protection for space constrained applications:

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

Ampere	Amp	Max	Interrupting	Nominal Cold	Nominal	Nom	Nom Power		Approvals
Rating (A)	Code	Voltage Rating (V)	Rating	Resistance (Ohms)	Melting I²t (A²sec)	Voltage Drop (mV)	Dissipation (W)	77	
0.125	.125	125		3.925	0.00064	634.37	0.0793	X	Х
0.200	.200	125	50A @125 V AC/	1.100	0.00055	254.28	0.0509	X	X
0.250	.250	125	DC	0.691	0.0022	207.01	0.0518	X	Х
0.375	.375	125		0.351	0.0045	169.18	0.0634	X	X
0.500	.500	63	50A @63 V AC/DC	0.248	0.0060	158.47	0.0792	X	Х
0.750	.750	63		0.106	0.0276	98.65	0.0740	X	Х
1.00	001.	63		0.075	0.0423	79.97	0.0800	X	Х
1.25	1.25	63		0.057	0.0640	85.71	0.1071	X	Х
1.50	01.5	63		0.046	0.1103	82.97	0.1244	X	Х
1.75	1.75	63		0.038	0.1835	80.73	0.1413	X	X
2.00	002.	63		0.030	0.2326	78.73	0.1575	Х	X
2.50	02.5	32	50A @32 V AC/DC	0.023	0.3516	76.99	0.1925	X	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	X	Х
5.00	005.	32		0.011	2.500	73.75	0.3688	X	X

1 Measured at 10% of rated current 25°C

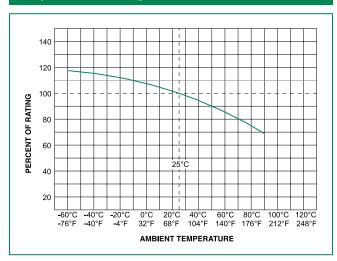
2. Measured at rated voltage

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Specifications are subject to change without notice. Application testing is strongly recommended. Revised: 10/10/16



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)|_{RAT} = (0.60)|_{RAT}
- The temperature derating curve represents the nominal conditions. For questions about temperature derating curve, please consult Littlefuse technical support for assistance.

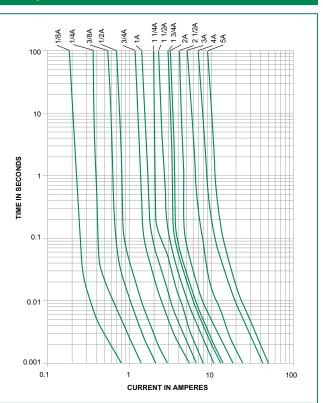
Soldering Parameters

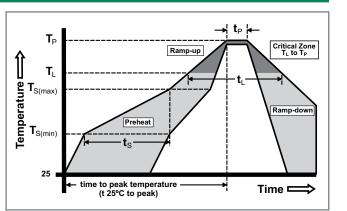
Reflow Condition		Pb – free assembly	
Pre Heat	-Temperature Min (T _{s(min)})	150°C	
	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 seconds	
Average R (T _L) to pea	amp-up Rate (LiquidusTemp k)	5°C/second max.	
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max.	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 – 150 seconds	
PeakTemp	erature (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.







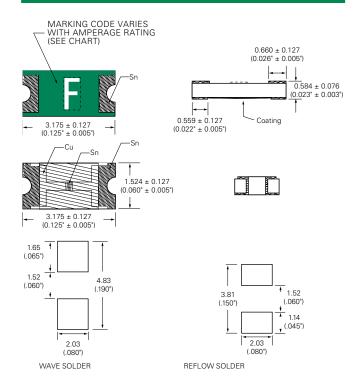


Product Characteristics				
Materials	Body: Advanced High Temperature Substrate Terminations: 100% Tin over Nickel over Copper Element Cover Coat: Conformal Coating			
Operating Temperature	– 55°C to 90°C. Consult temperature re-rating curve chart.			
Thermal Shock	Withstands 5 cycles of –55°C to 125°C			
Humidity	MIL-STD-202, Method 103, Condition D			
Vibration	MIL-STD-202, Method 201			
Insulation Resistance (After Opening)	Greater than 10,000 ohms			
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	E
.500	F
.750	G
001.	н
1.25	J
01.5	К
1.75	L
002.	N
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 poisitioned before the Packaging Suffix with whole ratings and within the numbering sequence for fractional ratings.

N = 5000 pcs

PACKAGING Code R = Tape and Reel

'HF' SUFFIX **HALOGEN FREE ITEM** .125 amp product is 0466.125NRHF (2 amp product shown above).

Pac	Ind

Fackaging			
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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 SFT-125MA
 TF16SN2.00TTD
 TF16SN3.15TTD
 41921000000
 TR/3216LR

 500MA
 CCP2B20TTE
 TR-3216FF4-R
 SST 1-1K
 SST 5 -1K
 SST 2-1K
 TR2-TCP500-R
 F60C500V12AS
 FCC16501ABTP

 FCC16102ABTP
 FHC16322ADTP
 0308.250UR
 0308.375UR
 0308.500UR
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 0308001.UR
 030801.5UR
 FCC16202ABTP
 3

 122-714
 3-122-720
 3-122-718
 3-122-712
 3-122-716
 03081.25UR
 CQ06LF 5A 32V
 CQ06LT 5A 32V
 SET 2A 125V (G)
 SET 1A 125V (G)

 SEF 10A 125V (G)
 SEF 4A 125V (G)
 SEF 6A 125V (G)
 SEF 7A 125V (G)
 SET 3A 125V (G)
 SET 5A

 125V (G)
 SET 7A 125V (G)
 F0603G0R03FNTR
 SKY87604-12
 SKY87604-13
 0154002.DRL
 0154008.DRL