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466 Series 1206 Fast-Acting Fuse

Rohs 🕫 HF 🔊 🚯



Agency Approvals					
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE			
91	E10480	.125A - 5A			
(Sft)	29862	.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
- Alloy-based element construction provides superior inrush withstand characteristics (I²t) over ceramic or glass-based 1206 chip fuse products
- Lead-free, Halogen-free and RoHS compliant

Applications

Secondary protection for space constrained applications:

- Cell phones
- DVD players
- Battery packsDigital cameras
- Hard disk drives
- Agency Approvals Nominal Cold Nom Power Max Nominal Nom Ampere Interrupting Amp Voltage Drop Voltage Rating Rating Resistance Melting Dissipation *61* (SP Rating Code (A) (V) (Ohms) I²t (A²sec) (mV) (W) 0.125 .125 125 3.925 0.00064 634.37 0.0793 Х х 0.200 .200 125 50A @125 V AC/ 1.100 0.00055 254.28 0.0509 Х Х 0.250 .250 125 DC 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 0.248 0.0060 158.47 0.0792 Х Х 0.750 .750 0.106 63 0.0276 98.65 0.0740 х Х 1.00 001. 63 0.075 0.0423 79.97 0.0800 х х 50A @63 V AC/DC 1.25 1.25 63 0.057 0.0640 85.71 0.1071 Х х 1.50 01.5 63 82.97 0.046 0.1103 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 0.023 0.3516 76.99 0.1925 х х 003. 3.00 32 0.019 0.5760 75.99 0.2280 Х х 50A @32 V AC/DC 4.00 004 32 0.014 1.764 74.50 0.2980 Х х 0.3688 5.00 005 32 0.011 2.500 73.75 Х х

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: 05/18/15



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		
	-Temperature Min (T _{s(min)})	150°C		
Pre Heat	-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		
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 peakTemperature (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	С	
.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 ———					
Rofor to Amp Codo colu	mn i	n tha			

AMP Code Refer to Amp Code column in the Electrical Specifications table. The dot is posisitioned 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).

Pa	ck	20	in	0

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