

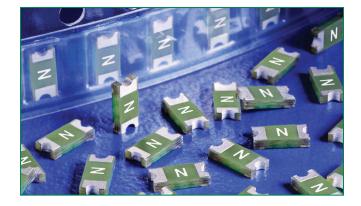
466 Series 1206 Fast-Acting Fuse











Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE		
717	E10480	0.125A - 5A		
(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







Resources



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

- 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

Electrical Specifications by Item

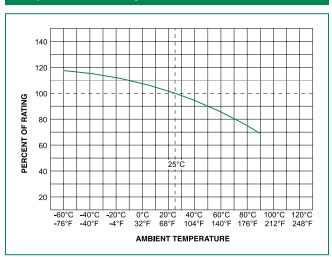
Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A²sec)	Nom Voltage Drop (mV)	Nom Power Dissipation (W)	Agency A	Approvals (1)
0.125	.125	125		3.925	0.00064	634.37	0.0793	X	X
0.200	.200	125	50A @125 V AC/ DC	1.100	0.00055	254.28	0.0509	X	X
0.250	.250	125		0.691	0.0022	207.01	0.0518	Х	X
0.375	.375	125		0.351	0.0045	169.18	0.0634	Х	X
0.500	.500	63		0.248	0.0060	158.47	0.0792	Х	X
0.750	.750	63		0.106	0.0276	98.65	0.0740	Х	X
1.00	001.	63		0.075	0.0423	79.97	0.0800	Х	X
1.25	1.25	63	50A @63 V AC/DC	0.057	0.0640	85.71	0.1071	Х	X
1.50	01.5	63		0.046	0.1103	82.97	0.1244	Х	X
1.75	1.75	63		0.038	0.1835	80.73	0.1413	Х	X
2.00	002.	63		0.030	0.2326	78.73	0.1575	Х	X
2.50	02.5	32		0.023	0.3516	76.99	0.1925	Х	X
3.00	003.	32	50A @32 V AC/DC	0.019	0.5760	75.99	0.2280	Х	X
4.00	004.	32		0.014	1.764	74.50	0.2980	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



Temperature Re-rating Curve



Note:

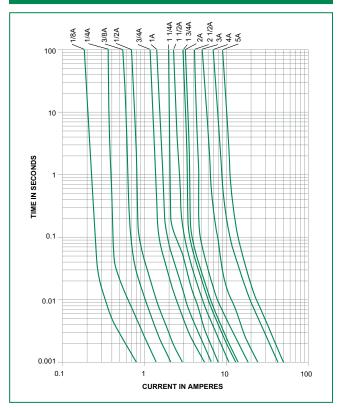
 Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

Example:

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

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

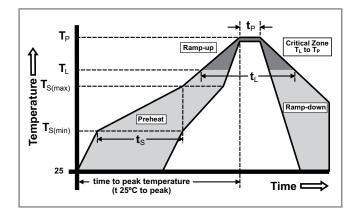
Average Time Current Curves



Soldering Parameters

Reflow Co	ondition	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 F	Ramp-up Rate (Liquidus Temp ak)	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	
PeakTemp	perature (T _P)	260+0/-5 °C	
Time with	in 5°C of actual peak ure (t _p)	20 – 40 seconds	
Ramp-dov	vn Rate	5°C/second max.	
Time 25°C	to peakTemperature (T _P)	8 minutes max.	
Do not ex	ceed	260°C	





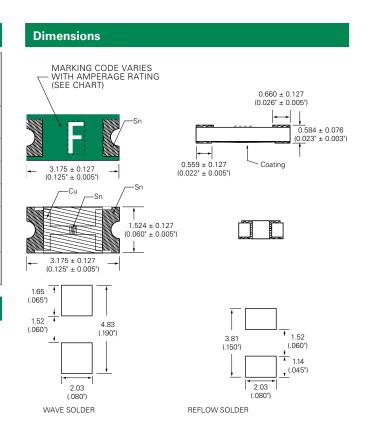


Product Characteristics

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	K		
1.75	L		
002.	N		
02.5	0		
003.	Р		
004.	S		
005.	Т		



Part Numbering System



.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