











Additional Information







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
- Flat top surface for pick-andplace operations
- Element-covering material is resistant to industry standard cleaning operations
- Lead-free, Halogen-free and RoHS compliant
 - Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-

Applications

Secondary protection for space constrained applications:

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

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

Agency Approvals

Agency	Agency File Number	Ampere Range
<i>71</i> .	E10480	0.125A - 5A
(29862	0.125A - 5A

Electrical Specifications by Item

American Detina	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Nomina	Nominal	Nom	Nom Power Dissipation (W)	Agency Approvals	
Ampere Rating (A)				Resistance (Ohms)	Melting Voltage Drop I²t (A²sec) (mV)	Voltage Drop (mV)		71 2	(
0.125	.125	125		3.925	0.00064	634.37	0.0793	X	X
0.200	.200	125	50A @ 125VAC/	1.100	0.00055	254.28	0.0509	X	X
0.250	.250	125	VDC	0.691	0.0022	207.01	0.0518	X	Х
0.375	.375	125		0.351	0.0045	169.18	0.0634	X	Х
0.500	.500	63		0.248	0.0060	158.47	0.0792	X	X
0.750	.750	63		0.106	0.0276	98.65	0.0740	X	X
1.00	001.	63		0.075	0.0423	79.97	0.0800	X	X
1.25	1.25	63	50A @ 63VAC/VDC	0.057	0.0640	85.71	0.1071	X	X
1.50	01.5	63		0.046	0.1103	82.97	0.1244	X	X
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	X	X
2.50	02.5	32		0.023	0.3516	76.99	0.1925	X	X
3.00	003.	32	50A @ 32VAC/VDC	0.019	0.5760	75.99	0.2280	X	X
4.00	004.	32		0.014	1.764	74.50	0.2980	X	X
5.00	005.	32		0.011	2.500	73.75	0.3688	Х	X

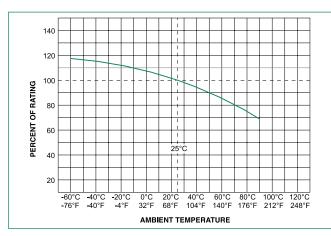
Measured at 10% of rated current, 25°C.

Measured at rated voltage.



466 Series 1206 Fast-Acting Fuse

Temperature Re-rating Curve

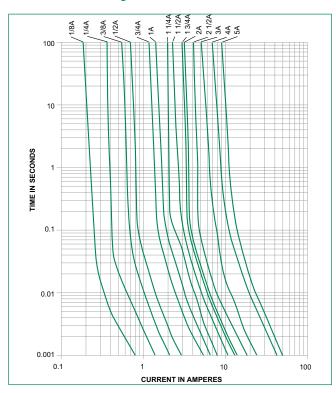


1. Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

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

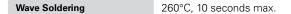
2. The temperature derating curve represents the nominal conditions. For questions about temperature derating curve, please consult Littelfuse technical support for assistance.

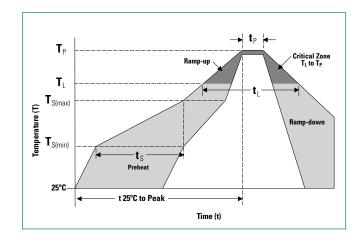
Average Time Current Curves



Soldering Parameters

Reflow Con	dition	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 Ratto peak)	mp-up Rate (Liquidus Temp (T _L)	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 _n)	n 5°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	





466 Series 1206 Fast-Acting Fuse

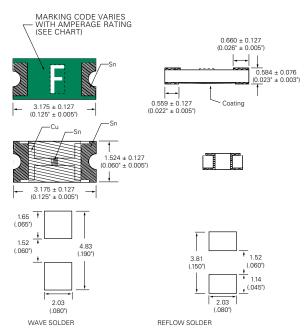
Product Characteristics

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 Opening)	Greater than 10,000 ohms			
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition D			

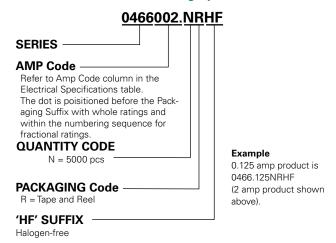
Part Marking System

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	O
003.	P
004.	S
005.	Т

Dimensions



Part Numbering System



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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