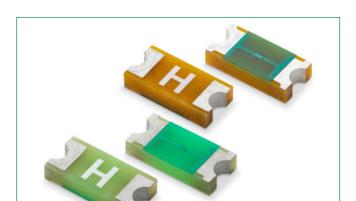
466 Series 1206 Fast-Acting Fuse



Additional Information







Resources

Accessories

Samples

Agency Approvals

Agency	Agency File Number	Ampere Range
<i>71</i>	E10480	0.125 A - 5 A
(10000000000000	29862	0.125 A - 5 A
(€	NA	0.125 A - 2 A
UK	NA	0.125 A - 2 A
\triangle	J50518280	0.125 A - 5 A

(€ LK △ ROHS Ø HF AL ®

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
 CE Mark indicates suitability 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-
- Conforms to EN 60127-1 and EN 60127-7
- for the European Market
- UKCA Mark indicates suitability for the UK Market

Applications

Secondary protection for space constrained applications:

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

Electrical Characteristics for Series

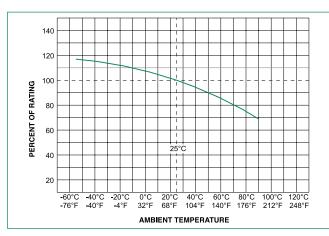
% of Ampere Rating	Opening Time at 25°C
100%	4 hours, Minimum
200%	5 sec., Maximum
300%	0.2 sec., Maximum

Electrical Specifications by Item

Ampere	A	Max	l4	Nominal Cold	Nominal	Nom	Nom Power Agency Approvals					
Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating	Resistance (Ohms)	Melting I ² t (A ² sec)		Dissipation (W)	Œ	CA		27 7	(f)
0.125	.125	125		3.925	0.00064	634.37	0.0793	X	X	X	X	X
0.200	.200	125	50A @ 125VAC/	1.100	0.00055	254.28	0.0509	X	X	Х	X	Х
0.250	.250	125	VDC	0.691	0.0022	207.01	0.0518	X	X	X	X	X
0.375	.375	125		0.351	0.0045	169.18	0.0634	X	X	X	X	Х
0.500	.500	63		0.248	0.0060	158.47	0.0792	X	X	X	X	X
0.750	.750	63		0.106	0.0276	98.65	0.0740	X	X	X	X	Х
1.00	001.	63	50A @ 63VAC/VDC	0.075	0.0423	79.97	0.0800	X	X	X	X	X
1.25	1.25	63		0.057	0.0640	85.71	0.1071	X	X	X	X	X
1.50	01.5	63		0.046	0.1103	82.97	0.1244	X	X	X	X	X
1.75	1.75	63		0.038	0.1835	80.73	0.1413	X	X	X	X	Х
2.00	002.	63		0.030	0.2326	78.73	0.1575	X	X	X	X	X
2.50	02.5	32		0.023	0.3516	76.99	0.1925	-	-	X	X	Х
3.00	003.	32	50A @ 32VAC/VDC	0.019	0.5760	75.99	0.2280	-	-	X	X	X
4.00	004.	32		0.014	1.024	74.50	0.2980	-	-	X	X	Х
5.00	005.	32		0.011	1.600	73.75	0.3688	-	-	X	X	X
1. Measured at 10% of rated current. 25°C. 2. Measured at rated voltage.												

466 Series 1206 Fast-Acting Fuse

Temperature Re-rating Curve

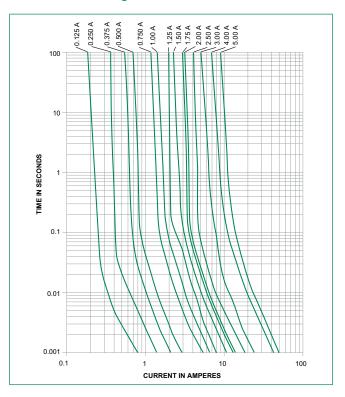


1. Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

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

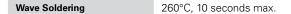
2. The temperature derating curve represents the nominal conditions. For questions about temperature derating curve, please consult Littlefuse technical support for assistance.

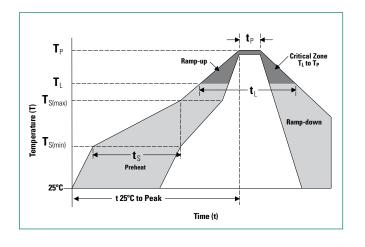
Average Time Current Curves



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 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		
nellow	-Temperature (t _L)	60 – 150 seconds		
Peak Temperature (T _p)		260 ^{+0/-5} °C		
Time within 5°C of actual peak Temperature (t _n)		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

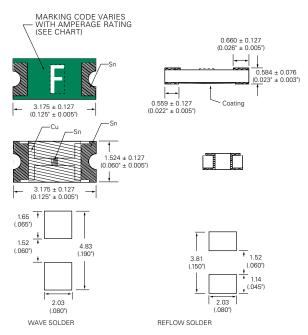
Product Characteristics

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

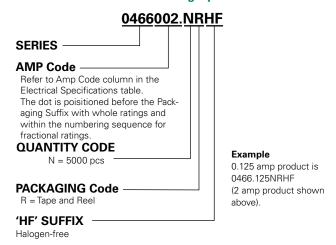
Part Marking System

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.	P
004.	S
005.	Т

Dimensions mm (in)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code		
8mm Tape and Reel	EIA-481, IEC 60286-3	5000	NR		

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