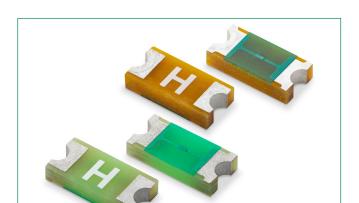
466 Series 1206 Fast-Acting Fuse



Additional Information







Resources

Accessories

Samples

Agency Approvals

Agency	Agency File Number	Ampere Range
7U	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

(€ ĽK △ ROHS Ø HF 🕦 ®

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

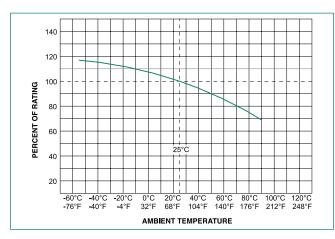
% of Ampere Rating	Opening Time at 25°C
100%	4 hours, Minimum
200%	5 sec., Maximum
300%	0.2 sec., Maximum

Electrical Specifications by Item

Ampere	A	Max	l	Nominal Cold	Nominal	Nom	Nom Power		Ager	ıcy Appr	ovals	
Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating	Resistance (Ohms)	Melting I ² t (A ² sec)	Voltage Drop (mV)	Dissipation (W)	Œ	UK	A	71 .	(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	X	X	X
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	X
1.00	001.	63		0.075	0.0423	79.97	0.0800	X	X	X	X	X
1.25	1.25	63	50A @ 63VAC/VDC	0.057	0.0640	85.71	0.1071	X	X	X	X	Х
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	X
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

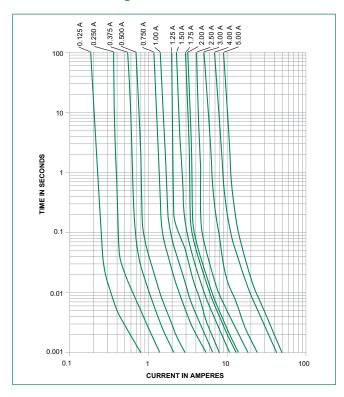


1. Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

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

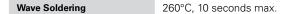
2. The temperature derating curve represents the nominal conditions. For questions about temperature derating curve, please consult Littelfuse technical support for assistance.

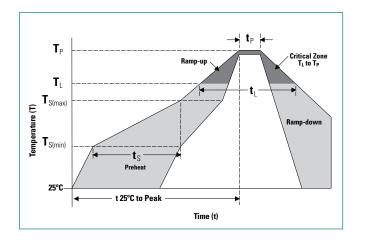
Average Time Current Curves



Soldering Parameters

Reflow Con	dition	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 Ra to 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 Tempe	rature (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

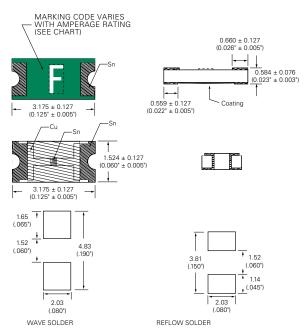
Product Characteristics

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

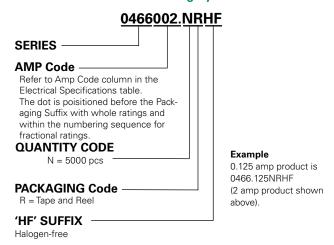
Part Marking System

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.	P
004.	S
005.	Т

Dimensions mm (in)



Part Numbering System



Packaging

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

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