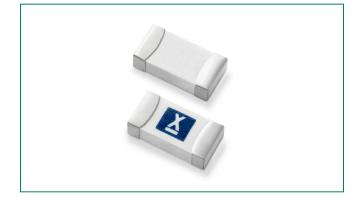


407 Series – 1206 Time-Lag Fuse



Agency Approvals					
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE			
c 🗫 us	E10480	1A – 8A			

Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time at 25°C
100%	1A – 8A	4 hours Minimum
200%	1A – 8A	1 sec Min; 120 secs Max
300%	1A – 8A	0.1 sec Min; 3 secs Max
800%	1A – 8A	0.002 sec Min; 0.05 secs Max

Additional Information





Samples

Description

Littelfuse 407 Series is a 100% lead-free, RoHS compliant and halogen-free fuse designed specifically to provide overcurrent protection to circuits that operate under high working ambient temperatures up to 150° C and high in-rush currents. The general design ensures excellent temperature stability and performance reliability. This high I²t time lag fuse is designed to have ultra-high in-rush current withstand capability to avoid nuisance fuse open.

Features

- Operating Temperature from -55° C to +150° C
- UL Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- compliant and Halogen-free
- Suitable for both leaded and lead-free reflow/wave soldering

RoHS 🕫 HF c 🔂 us

• 100% Lead-free, RoHS • Ultra high I²t values

Benefits

- Avoids nuisance opening due to high inrush and surge current inherent in the system
- High current ratings in small size

Applications

- Displays
- Servers
- Computers
- Printers

- Scanners
- Data Modems
- Gaming Consoles

Surface Mount Fuses

Ceramic Fuse > 407 Series



Electrical Specifications by Item

Ampere Rating (A)	Amp Code	Max. Voltage Rating (V)	Interrupting Rating (AC/DC) ¹	Nominal Resistance (Ohms)²	Nominal Melting l²t (A²Sec.)³	Nominal Voltage Drop At Rated Current (V)⁴	Nominal Power Dissipation At Rated Current (W)	Agency Approval
1.00	001.	63		0.360	0.142	0.456	0.456	х
1.25	1.25	63	50A@63VDC	0.200	0.329	0.404	0.500	х
1.50	01.5	63		0.180	0.567	0.347	0.525	х
2.00	002.	63		0.100	0.870	0.323	0.640	х
2.50	02.5	32		0.055	1.000	0.252	0.625	х
3.00	003.	32		0.040	1.300	0.187	0.570	х
3.50	03.5	32	50A@32VDC	0.030	2.260	0.153	0.525	х
4.00	004.	32		0.025	4.180	0.142	0.560	х
4.50	04.5	32		0.020	5.200	0.134	0.585	х
5.00	005.	32		0.016	7.800	0.133	0.650	х
5.50	05.5	24	50A@24VDC	0.014	8.550	0.130	0.715	х
6.00	006.	24		0.012	15.560	0.128	0.780	х
7.00	007.	24	60A@24VDC	0.010	16.230	0.110	0.770	х
8.00	008.	24		0.009	24.120	0.097	0.800	х

Note:

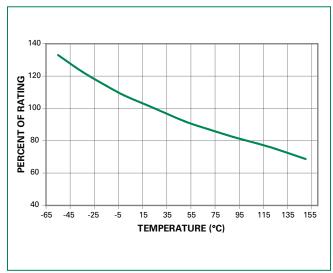
1. AC Interrupting Rating tested at rated voltage with unity power factor. DC Interrupting Rating tested at rated voltage with time constant < 0.8 msec.

2. Nominal Resistance measured with < 10% rated current.

3. Nominal Melting I²t measured at 1 msec opening time.

4. Nominal Voltage Drop measured at rated current after temperature has stabilized.

Temperature Re-rating Curve



Note:

Re-rating depicted in this curve is in addition to the standard re-rating of 20% for continuous operation.

Example:

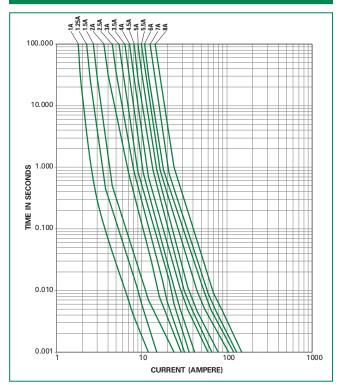
For continuous operation at 75° C, the fuse should be rerated as follows:

 $I = (0.80)(0.85)I_{RAT} = (0.68)I_{RAT}$

 Devices designed to carry rated current for 4 hours minimum. It is recommended that devices be operated continuously at no more than 80% rated current. See *Temperature Re-rating Curve* for additional derating information.

• Devices designed to be mounted with marking code facing up.

Average Time Current Curves





Soldering Parameters

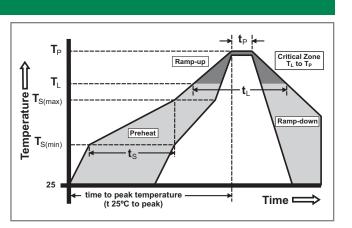
Reflow Co	ndition	Pb – free assembly	
	-Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 seconds	
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		3° C/second max.	
$T_{S(max)}$ to T_L	- Ramp-up Rate	5° C/second max.	
Reflow	- Temperature (T _L) (Liquidus)	217° C	
	- Temperature (t _L)	60 – 150 seconds	
PeakTemp	erature (T _P)	260+0/-5 ° C	
Time with Temperatu	in 5°C of actual peak ıre (t _p)	10 – 30 seconds	
Ramp-dow	vn Rate	6° C/second max.	
Time 25°C	to peakTemperature (T _P)	8 minutes max.	
Do not exc	eed	260°C	

Wave soldering

260°C, 10 seconds max.

Product Characteristics

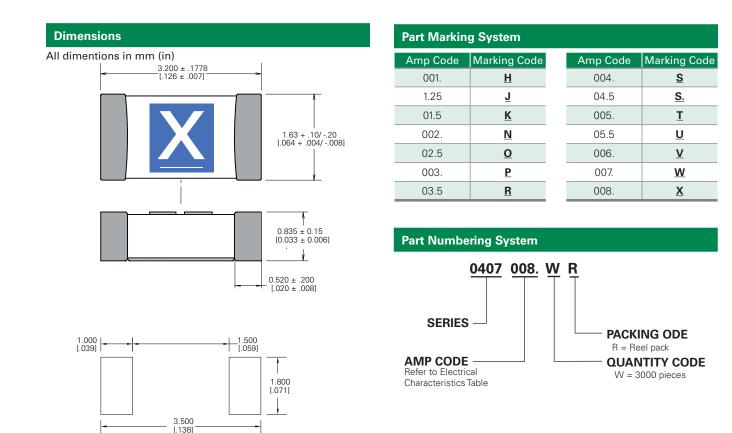
Materials	Body: Advanced Ceramic Terminations: Ag / Ni / Sn (100% Lead- free) Element Cover Coating: Lead-free Glass		
Moisture Sensitivity Level	IPC/JEDEC J-STD-020, Level 1		
Solderability	IPC/ECA/JEDEC J-STD-002, Condition C		
Humidity Test	MIL-STD-202, Method 103, Conditions D		
Resistance to Solder Heat	MIL-STD-202, Method 210, Condition B		
Moisture Resistance	MIL-STD-202, Method 106		
Thermal Shock	MIL-STD-202, Method 107, Condition B		
Mechanical Shock	MIL-STD-202, Method 213, Condition A		
Vibration	MIL-STD-202, Method 201		
Vibration, High Frequency	MIL-STD-202, Method 204, Condition D		
Dissolution of Metallization	IPC/ECA/JEDEC J-STD-002, Condition D		
Terminal Strength	IEC 60127-4		



Surface Mount Fuses

Ceramic Fuse > 407 Series





Packaging						
Packaging Option	Form Factor	Packaging Specification	Quantity	Quantity & Packaging Code		
8mm Tape and Reel	Surface Mount	EIA-481, IEC 60286, Part 3	3000	WR		

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at https://www.littelfuse.com/legal/disclaimers/product-disclaimer.aspx.

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