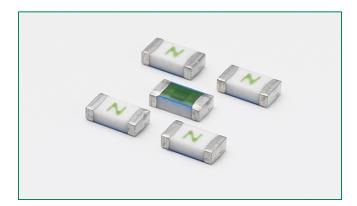


437 Series - 1206 Fast-Acting Fuse









Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE	
71 2	E10480	0.250A ~ 8A	
⊕ ;	LR29862	0.250A ~ 8A	

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time at 25°C
100%	250mA - 8A	4 hours, Minimum
250%	750mA - 8A	5 seconds, Maximum
350%	250mA -500mA	5 seconds, Maximum
350%	750mA - 8A	1 second, Maximum

Description

This 100% Lead-free, RoHS compliant and Halogen-free fuse series has been designed specifically to provide over current protection to circuits that see high working ambient temperatures (up to 150°C).

The general design ensures excellent temperature stability and performance reliability.

In addition to this, the high I2t values typical of the Littelfuse Ceramic Fuse family ensure high inrush current withstand capability.

Features

- Operating Temperature from -55°C to +150°C
- 100% Lead-free and RoHS compliant
- Suitable for both leaded and lead-free reflow / wave soldering

Applications

- LCD Displays
- Servers
- Printers

- Scanners
- Data Modems

Additional Information







Samples

Electrical Specifications by Item

Ampere	Ampere Max.			Nominal Nominal		Nominal Voltage	Nominal Power	Agency Approvals	
Rating (A)	Amp	Voltage Rating (V)	Interrupting Rating			Drop At Rated Current (V) ⁴	Dissipation At Rated Current (W)	71	(
250mA	.250	125	50 A @ 125 V AC/DC	2.290	0.003	0.78	0.195	Х	X
375mA	.375	125	50 A @ 125 V AC/DC	1.330	0.010	0.60	0.225	Х	Х
500mA	.500	63	50 A @ 63 V AC/DC	0.908	0.018	0.52	0.260	X	X
750mA	.750	63		0.665	0.064	0.45	0.335	Х	Х
1A	001.	63		0.420	0.100	0.41	0.415	Х	Х
1.25A	1.25	63		0.318	0.256	0.40	0.496	Х	Х
1.5A	01.5	63		0.209	0.324	0.39	0.579	Х	Х
1.75A	1.75	63		0.0703	0.075	0.27	0.474	Х	X
2A	002.	63		0.058	0.144	0.17	0.345	Х	Х
2.5A	02.5	32	50 A @ 32 V AC/35 V DC	0.043	0.225	0.14	0.363	Х	Х
3A	003.	32		0.033	0.400	0.15	0.462	Х	Х
3.5A	03.5	32		0.027	0.576	0.16	0.560	Х	Х
4A	004.	32		0.022	1.024	0.16	0.618	Х	Х
5A	005.	32		0.016	1.936	0.09	0.484	Х	Х
7A	007.	32		0.010	4.900	0.11	0.760	Х	Х
	008.	32		0.0084	6.400	0.067	0.539	Х	X

Revised: 08/14/14

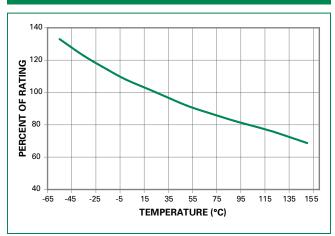
- 1. AC Interrupting Rating tested at rated voltage with unity power factor. DC Interrupting Rating tested at rated voltage with time constant < 0.8 msec.
- 2. Nominal Resistance measured with < 10% rated current.
- 3. Contact Littelfuse if application transient surges are less than 1 ms.
- 4. Nominal Voltage Drop measured at rated current after temperature has stabilized.

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 Rerating Curve" for additional rerating information.

Devices designed to be mounted with marking code facing up.



Temperature Rerating Curve



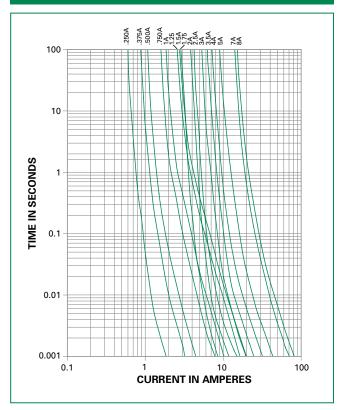
Note:

 Rerating depicted in this curve is in addition to the standard rerating of 20% for continuous operation.

Example:

For continuous operation at 75 degrees celsius, the fuse should be rerated as follows: $I=(0.80)(0.85)I_{RAT}=(0.68)I_{RAT}$

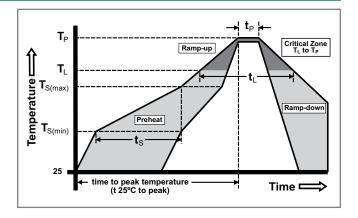
Average Time Current Curves



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 R (T _L) to pea	amp-up Rate (Liquidus Temp k)	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	perature (T _P)	260+0/-5 °C	
Time with Temperatu	in 5°C of actual peak ure (t _p)	10 – 30 seconds	
Ramp-dov	vn Rate	6°C/second max.	
Time 25°C	to peak Temperature (T _P)	8 minutes max.	
Do not exc	ceed	260°C	





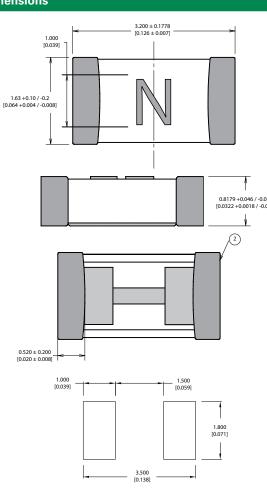


Product Characteristics

Materials	Body: Advanced Ceramic Terminations: Ag / Ni / Sn (100% Lead-free) Element Cover Coating: Lead-free Glass		
Moisture Sensitivity Level IPC/JEDEC J-STD-020C, Level 1			
Solderability	IPC/EIC/JEDEC J-STD-002B, Condition B		
Humidity Test	MIL-STD-202, Method 103B, Conditions D		
Resistance to Solder Heat	MIL-STD-202, Method 210F, Condition B		
Moisture Resistance	MIL-STD-202, Method 106G		

Thermal Shock	MIL-STD-202, Method 107G, Condition B		
Mechanical Shock	MIL-STD-202, Method 213B, Condition A		
Vibration	MIL-STD-202, Method 201A		
Vibration, High Frequency	MIL-STD-202, Method 204D, Condition D		
Dissolution of Metallization	IPC/EIC/JEDEC J-STD-002B, Condition D		
Terminal Strength	IEC 60127-4		

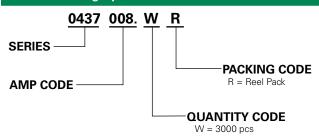
Dimensions



Part Marking System

Amp Code	Marking Code
.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
03.5	R
004.	S
005.	Т
007.	w
008.	Х

Part Numbering System



Packaging

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