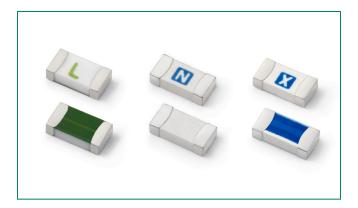


437 Series - 1206 Fast-Acting Fuse





Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE		
c '911 ° us	E10480	0.250A ~ 8A		
⊕ ;	29862	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, Halogen-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		Max.		Nominal Nominal Resistance (Ohms) ² (A ² Sec.) ³	Nominal	Nominal Voltage	Nominal Power	Agency Approvals	
Rating (A)	Amp		Interrupting Rating ¹		Drop At Rated Current (V) ⁴	Dissipation At Rated Current (W)	c FL °us	⊕ ;	
250mA	.250	125	50 A @ 125 V AC/DC	2.290	0.003	0.78	0.195	Х	Х
375mA	.375	125	50 A @ 125 V AC/DC	1.330	0.010	0.60	0.225	Х	Χ
500mA	.500	63		0.908	0.018	0.52	0.260	Х	X
750mA	.750	63		0.665	0.064	0.45	0.338	Х	Х
1A	001.	63		0.420	0.100	0.41	0.410	Х	Х
1.25A	1.25	63	50 A @ 63 V AC/DC	0.318	0.256	0.40	0.500	Х	Х
1.5A	01.5	63		0.209	0.324	0.39	0.585	Х	Χ
1.75A	1.75	63		0.071	0.075	0.27	0.473	Х	Х
2A	002.	63		0.058	0.225	0.20	0.400	Х	X
2.5A	02.5	32		0.043	0.441	0.15	0.375	Х	Х
3A	003.	32		0.033	0.506	0.14	0.420	Х	X
3.5A	03.5	32		0.027	0.777	0.13	0.455	Х	X
4A	004.	32	50 A @ 32 V AC/35 V DC	0.022	1.024	0.13	0.520	Х	X
5A	005.	32		0.0159	2.30	0.13	0.650	Х	X
7A	007.	32		0.0100	5.02	0.13	0.910	Х	X
8A	008.	32		0.008	7.23	0.13	1.040	х	X

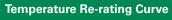
Notes

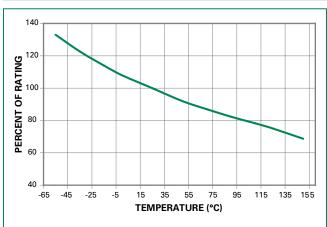
- 1. AC Interrupting Rating tested at rated voltage with unity power factor. DC Interrupting Rating tested at rated voltage with time constant < 0.8 msec.
- 2. Nominal Resistance measured with < 10% rated current.
- 3. Contact Littelfuse if application transient surges are less than 1 ms.
- 4. Nominal 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 Re-rating Curve" for additional re-rating information.

Devices designed to be mounted with marking code facing up.







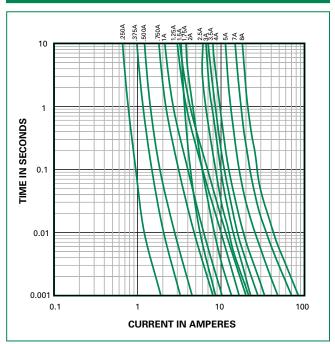
Note:

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

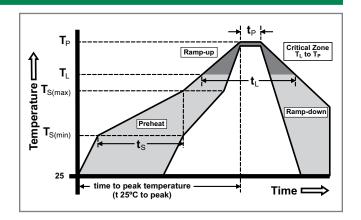




Soldering Parameters

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 (LiquidusTemp k)	3°C/second max.	
T _{S(max)} to T _I	- Ramp-up Rate	5°C/second max.	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
nellow	-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-dov	vn Rate	6°C/second max.	
Time 25°C	to peakTemperature (T _P)	8 minutes max.	
Do not exc	ceed	260°C	





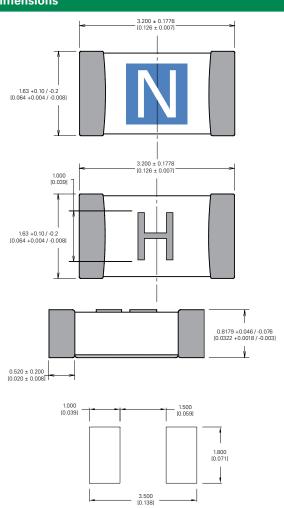


Product Characteristics

Materials	Body: Advanced Ceramic Terminations: Ag / Ni / Sn (100% Lead-free) Element Cover Coating: Ceramic/Lead-free Glass		
Moisture Sensitivity Level	IPC/JEDEC J-STD-020, Level 1		
Solderability	IPC/EIC/JEDEC J-STD-002, Condition B		
Humidity Test	MIL-STD-202, Method 103, Condition 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/EIC/JEDEC J-STD-002, Condition D
Terminal Strength	IEC 60127-4

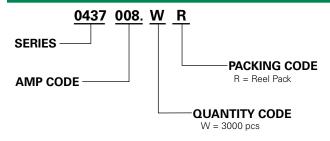
Dimensions



Part Marking System

			,
Amp Code	Marking Code	Amp Code	Marking Cod
.250	D	002.	N
.375	E	02.5	0
.500	F	003.	Р
.750	G	03.5	R
001.	Н	004.	S
1.25	J	005.	Т
01.5	К	007.	W
1.75	L	008.	X

Part Numbering System



Packaging

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

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