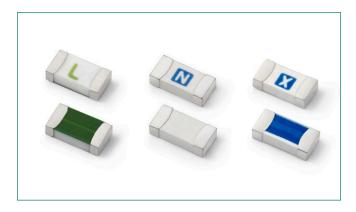
Surface Mount Fuses Ceramic Fuse > 437 Series

437 Series - 1206 Fast-Acting Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range		
c FU °us	E10480	0.250A - 8A		
(P)	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 might encounter 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
 UL Recognized to UL/
- Suitable for both leaded and lead-free reflow / wave soldering
 - UL Recognized to UL/ CSA/NMX 248-1 and UL/ CSA/NMX 248-14

Applications

- LCD Displays
- ServersPrinters

- Scanners
- Data Modems

Additional Information







Resources



Samples

Electrical Specifications by Item

Ampere	mpere Max.		ix.	Nominal Nominal	Nominal Voltage	Nominal Power	Agency Approvals		
Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating ¹	Resistance (Ohms) ²	Melting I ² t (A ² Sec.) ³	Drop At Rated Current (V) ⁴	Dissipation At Rated Current (W)	c 'AL °us	® :
0.25	.250	125	50 A @ 125 V AC/DC	2.29	0.003	0.78	0.195	Х	Х
0.375	.375	125	50 A @ 125 V AC/DC	1.33	0.01	0.6	0.225	X	X
0.5	.500	63		0.908	0.018	0.52	0.26	X	X
0.75	.750	63		0.665	0.064	0.45	0.338	X	X
1.0	001.	63		0.42	0.1	0.41	0.41	X	X
1.25	1.25	63	50 A @ 63 V AC/DC	0.318	0.256	0.4	0.5	X	X
1.5	01.5	63		0.209	0.324	0.39	0.585	X	X
1.75	1.75	63		0.071	0.075	0.27	0.473	X	X
2.0	002.	63		0.058	0.225	0.2	0.4	X	X
2.5	02.5	45		0.043	0.441	0.15	0.375	X	×
3.0	003.	45		0.033	0.506	0.14	0.42	X	X
3.5	03.5	45	50A @ 45V AC/63V DC	0.027	0.777	0.13	0.455	X	X
4.0	004.	45		0.022	1.024	0.13	0.52	X	X
5.0	005.	45		0.0159	2.3	0.13	0.65	×	Х
7.0	007.	32	EO A @ 22 V AC/2E V DC	0.01	5.02	0.13	0.91	X	Х
8.0	008	32	50 A @ 32 V AC/35 V DC	0.008	723	0.13	1.04	×	×

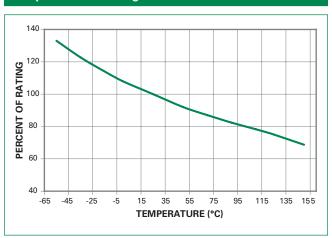
Notes

- 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.
- Ac interrupting nating tested at rated voltage with unity
 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.



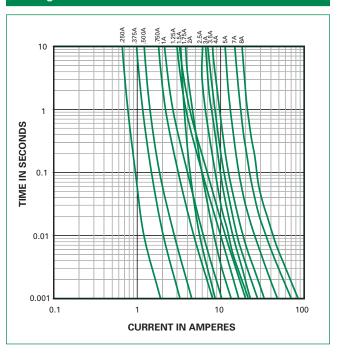
Temperature Re-rating Curve



1. 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: $I = (0.80)(0.85)I_{pAT} = (0.68)I_{pAT}$

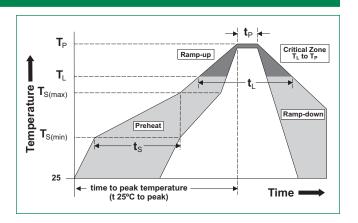
Average Time Current Curves



Soldering Parameters

Reflow Cond	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 Ran	Average Ramp-up Rate (Liquidus Temp (T _L) to peak)		
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 Temper	260 ^{+0/-5} °C		
Time within 5°C of actual peak Temperature (tp)		10 – 30 seconds	
Ramp-down Rate		6°C/second max.	
Time 25°C to peak Temperature (T _p)		8 minutes max.	
Do not exce	260°C		

Wave Soldering	260°C, 10 seconds max.



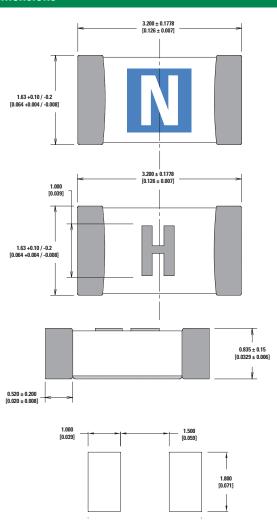
Surface Mount Fuses Ceramic Fuse > 437 Series

Product Characteristics

Materials Body: Advanced Ceramic Terminations: Ag / Ni / Sn (100% Lead-free) Element Cover Coating: Ceramic/Lead-free		
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	MII-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

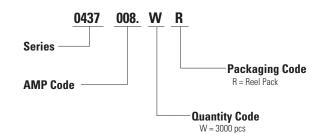


Part Marking System

Amp Code	Marking Code
0.25	D
0.375	E
0.5	F
0.75	G
1.0	Н
1.25	J
1.5	К
1.75	L

Amp Code	Marking Code
2.0	N
2.5	0
3.0	Р
3.5	R
4.0	S
5.0	Т
7.0	W
8.0	X

Part Numbering System



Packaging

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

Disclaimer Notice - Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-saving,

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00970019XP 00970021HXNVDL 00970021N 00970023S 00970023XP 00970024M 00970025XPA 00970038Z 00970054XPA
00BS0232P 01000020Z 01000054Z 01000056Z 01000057H 01000057Z 01000058Z 01000062Z 01000064Z 01000065Z 01000066Z
01000067Z 01010001Z 01010002Z 01010003Z 01020071Z 01020074Z 01020076Z 01020078H 01020079Z