Surface Mount Fuses

Ceramic Fuse > 440 Series

查询"440"供应商

RoHS HF 440 Series, 1206 High I't Fuse



Agency Approvals				
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE		
91	E10480	1.75A - 8A		
۹.	Pending	1.75A - 8A		

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	OpeningTime at 25°C
100%	1.75A - 8A	4 hours, Minimum
350%	1.75A - 8A	5 secs., Maximum

Electrical Specifications by Item

Description

The 440 Series is a 100% Lead-free, RoHS compliant and Halogen-free fuse series designed specifically to provide over-current protection to circuits that operate under high working ambient temperatures up to 150°C and high inrush currents.

The general design ensures excellent temperature stability and performance reliability.

This high I²t fuse series is designed to have ultra high inrush current withstand capability to avoid nuisance fuse open.

Features

- **Operating Temperature** from -55°C to +150°C
- Suitable for both leaded and lead-free reflow / wave soldering

Ultra high I²t values

100% Lead-free, RoHS ٠ compliant and Halogenfree

Applications

- Automotive Electronics
- LCD Displays
- Servers
- Notebook Computers
- Printers Scanners
- Data Modems
- Hard Disk Drives

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Ampere Rating	Rating Code Voltage		Interrupting Rating (AC/DC) ¹	Resistance Melt	Nominal Melting I ² t	Melting I ² t Drop At Rated	Nominal Power Dissipation At	Agency Approvals	
(A)		Rating (V)	-275 14	(Ohms)²	(A ² Sec.) ³	Current (V)⁴	Rated Current (W)		
1.75	1.75	32	B7	0.04121	0.3312	0.07769	0.136	x	х
2	002.	32	WWW.W	0.03582	0.4326	0.07921	0.158	х	х
2.5	02.5	32		0.026706	0.8191	0.0747	0.187	х	х
3	003.	32		0.022	1.232	0.7418	0.223	x	х
3.5	03.5	32	50 A @ 32 V AC/DC	0.01877	1.789	0.07566	0.265	x	х
4	004.	32		0.01515	2.601	0.07088	0.284	×	х
5	005.	32		0.01119	4.761	0.06544	0.327	х	х
7	007.	32		0.00794	8.464	0.06963	0.487	x	х
8	008.	32	- sty	0.00646	12.95	0.065526	0.524	x	x

Notes:

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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.

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 Derating Curve" for additional derating information.

Devices designed to be mounted with marking code facing up.



Specifications are subject to change without notice. Please refer to www.littelfuse.com/series/440.html for current information.

Expertise Applied | Answers Delivered

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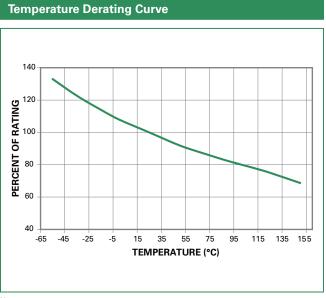
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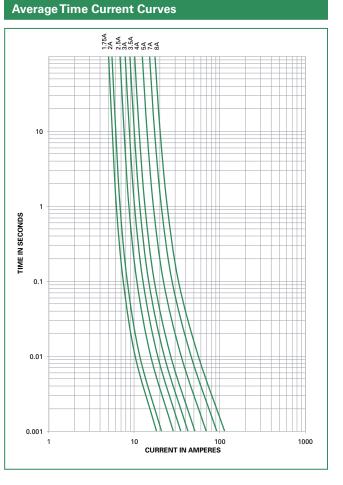


Note:

1. Derating depicted in this curve is in addition to the standard derating of 20% for continuous operation.

Example:

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

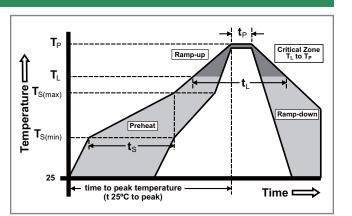


Soldering Parameters

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 (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	
Rellow	-Temperature (t _L)	60 – 150 seconds	
Peak Temperature (T _P)		260 ^{+0/-5} °C	
Time within 5°C of actual peak Temperature (t _p)		10 – 30 seconds	
Ramp-down Rate		6°C/second max.	
Time 25°C to peak Temperature (T _P)		8 minutes max.	
Do not exc	ceed	260°C	

Wave Soldering

260°C, 10 seconds max.





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Dimensions

Product Characteristics

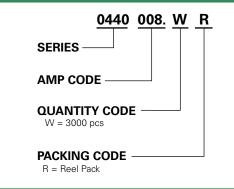
Materials	Body: Advanced Ceramic Terminations: Ag / Ni / Sn (100% Lead-free) Element Cover Coating: Lead-free Glass		
Moisture Sensitivity Level	IPC/JEDEC J-STD-020C, Level 1		
Solderability	IPC/ECA/JEDEC J-STD-002B, Condition C		
Humidity Test	MIL-STD-202, Method 103B, Conditions D		
ESD Immunity	IEC 61000-4-2, 8kV Direct		
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/ECA/JEDEC J-STD-002C, Condition D
Terminal Strength	IEC 60127-4

1.000 + 1.000

Part Marking System				
Amp Code	Marking Code			
1.75	L			
002.	N			
02.5	0			
003.	Р			
03.5	R			
004.	S			
005.	т			
007.	w			
008.	x			

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	
8mm Tape and Reel	EIA-481-1 (IEC 286, part 3)	3000	WR	

3.500 [.138]

