

Agency Approvals

Agency

c **SU**[°]us

% of Ampere Rating

100%

250%

443LC Series Fuse



Agency File Number

E10480

Ampere Range

0.500A - 5.00A

Opening Time

4 hours, Minimum

120 seconds, Maximum

Description

The 443LC Series 280V Nano² Fuse is a small square surface mount fuse that is designed to enable compliance with the RoHS directive. This product is fully compatible with lead-free solder alloy and higher temperature profiles associated with lead-free assembly.

Features

- 280VAC voltage rating
- Slo-Blo[®] Fuse
- Available 0.50A 5.00A
- RoHS Compliant and halogen-free
- Fully compatible with lead-free solder alloys and higher temperature profiles associated with lead-free assembly

RoHS C The us

 UL Recognized to UL/ CSA/NMX 248-1 and UL/ CSA/NMX 248-14

Applications

- AC/DC power adaptor
- Telecom equipment system power
- Portable system built-in
 AC/DC converter
- High voltage DC/DC converter
- Lighting System
- LED Lighting

Additional Information

Datasheet





Electrical Specifications by Item

Electrical Characteristics for Series

Ampere Rating		Мах	Interrupting	Nominal Cold	Nominal Melting	Nominal	Agency Approvals
(A)	Amp Code	Voltage Rating (V)	Rating	Resistance (Ohms)	• I	Voltage Drop (mV)	c 🔁 us
0.50	.500	280	50A @280VAC	0.600	1.61	448	x
0.75	.750	280		0.275	3.025	285	x
1	001.	280		0.180	10.17	234	X
1.50	01.5	280		0.100	14.72	196	x
2	002.	280		0.052	18.06	154	X
2.50	02.5	280		0.035	18.13	139	х
3	003.	280		0.028	51.44	113	X
3.50	03.5	280		0.019	53.14	98	x
4	004.	280		0.016	122.50	81	x
5	005.	280		0.0115	180.60	80	x

Notes:

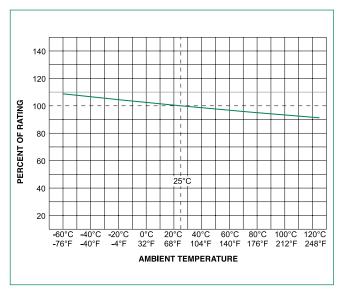
1. Cold resistance measured at less than 10% of rated current at 23°C.

2. Agency Approval Table Key: X=Approved or Certified, P=Pending and Blank=Not Approved

3. Have special electrical characteristic needs? Contact Littelfuse to learn more about application specific options.

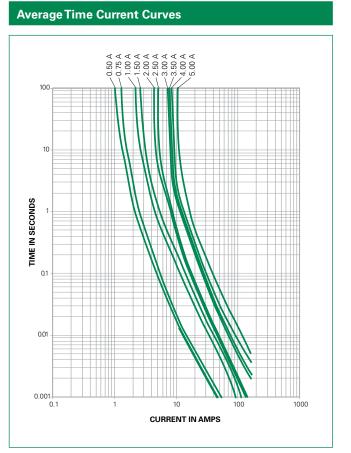


Temperature Re-rating Curve



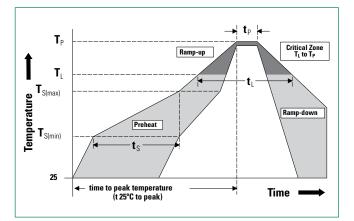
Note:

1. Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.



Soldering Parameters

Reflow Condition		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 secs
Average ramp up rate (Liquidus Temp (T_L) to peak		5°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
Peak Temperature (T _P)		260+0/-5 °C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-down Rate		5°C/second max.	
Time 25°C to peak Temperature (T _P)		8 minutes max.	
Do not exceed		260°C	
Wave Soldering Parameters 260°C Peak Ten			rature, 3 seconds ma>



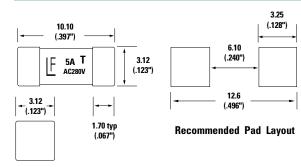


Product Characteristics

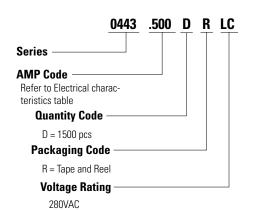
Materials	Body: Ceramic Cap: Silver Plated Brass		
Product Marking	Body: Brand Logo, Current Rating Rated Voltage, T - C Characteristic "T"		
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms, Minimum)		
Solderability	MIL-STD-202, Method 208		
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test Condition B (10 sec at 260°C)		
Moisture Sensitivity Level	Level 1 J-STD-020		
PCB Recommendation for Thermal Management	Min. copper layer thickness = 100um Min. copper trace width = 10mm Alternate methods of thermal management may be used. In such cases, under normal operations, the maximum temperature of the fuse body should not exceed 80°C in a 25°C ambient environment.		

Operating Temperature	-55°C to 125°C with proper derating		
	MIL-STD-202, Method 107,		
Thermal Shock	Test Condition B (5 cycles -65°C		
	to +125°C)		
Vibration	MIL-STD-202, Method 201		
VIDration	(10-55 Hz)		
Malatana Daslatanas	MIL-STD-202, Method 106,		
Moisture Resistance	High Humidity (90-98%RH), Heat (65°C)		
Calt Crement	MIL-STD-202, Method 101,		
Salt Spray	Test Condition B		
	MIL-STD-202, Method 213,		
Mechanical Shock	Test Condition I (100 G's peak for		
	6 milliseconds)		

Dimensions



Part Numbering System



Example:

1.5amp product is 0443 01.5 D R LC (0.5amp product shown above).

Packaging					
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code		
24mm Tape and Reel	EIA-RS 481-2 (IEC 286, part 3)	1500	DR		

3.43

(.135")

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