Surface Mount Fuses

NANO^{2®} > 250V > Slo-Blo[®] Fuse > 443E Series

443E Series Fuse















Agency Approvals

Agency	Agency File Number	Ampere Range		
(l)	E242325	1.25A		
<u></u>	40046623	1.25A		
œc	CQC17012176681	1.25A		
c FL °us	E10480	1.25A		
Œ	-	1.25A		

Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time at 25°C		
100%	1.25 A	4 hours Minimum		
200%	1.25 A	120 secs Maximum		

Description

The 443E Series is a Nano^{2®}, 250 V fuse. It is a surface mount Universal Modular Fuse (UMF) that complies with IEC 60127-4. It is RoHS-compliant and fully compatible with lead-free solder alloy and higher temperature profiles associated with lead-free assembly.

Features

- 250 VAC/VDC voltage rating with 200 A interrupting rating
- Slo-Blo® Fuse
- RoHS-compliant
- Fully compatible with leadfree solder alloys and higher temperature profiles associated with lead-free assembly

Benefits

- Avoids nuisance opening due to high inrush and surge current inherent in the system
- Suits high voltage applications requiring high interrupting current

Applications

- AC/DC power adaptor
- Telecom equipment system power
- Portable system built-in AC/DC converter

Electrical Specifications by Item

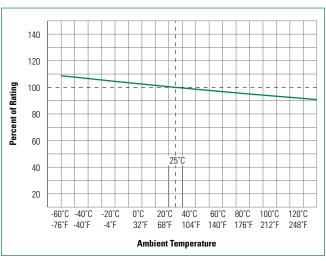
Ampere Rating	Amp	Max. Voltage	Interrupting Rating	Nominal Cold	Nominal Melting l²t	Nominal Voltage	Nominal Power Dissipation at Rated Current (W)						
(A)	Code	Rating (V)	(AC/DC)	(Ohms)	(A ² Sec.) ²			(P)		(ec)	c 71 2°us	Œ	
1.25	1.25	250	200A @ 250VAC/ 200A @ 250VDC	0.100	3.97	165	0.456	×	×	×	×	х	

Note:

- 1. Nominal Cold Resistance measured at less than 10% of rated current at 23° C.
- 2. Nominal Melting I²t is measured at 10 the Ampere Rating (I_n)
 3. Agency Approval Table key: X = Approved or Certified, P = Pending and Blank = Not Approved
- 4. Have special electrical characteristic needs? Contact Littelfuse to learn more about application specific options



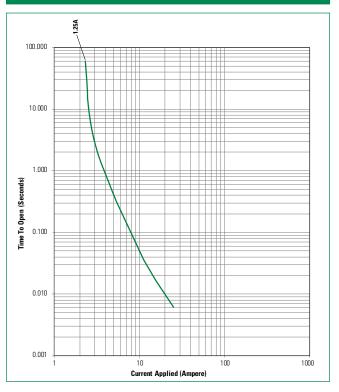
Temperature Re-rating Curve



Note:

Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

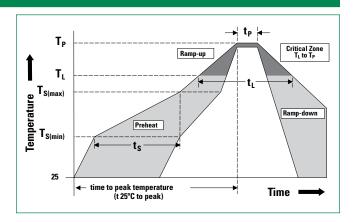
Average Time Current Curves



Soldering Parameters

Reflow Cond	Pb – free assembly		
Pre Heat	-Temperature Min (T _{s(min)})	150° C	
	-Temperature Max (T _{s(max)})	200° C	
	-Time (Min to Max) (t _s)	60 – 180 seconds	
Average Ran	5° C/second max.		
$T_{S(max)}$ to T_L -	5° C/second max.		
Reflow	-Temperature (T _L) (Liquidus)	217° C	
	-Temperature (t _L)	60 - 150 seconds	
Peak Temper	260+0/-5° C		
Time within	20 – 40 seconds		
Ramp-down	5° C/second max.		
Time 25°C to	8 minutes max.		
Do not exce	260° C		

Wave soldering 260° C Peak Temperature, 3 seconds max.

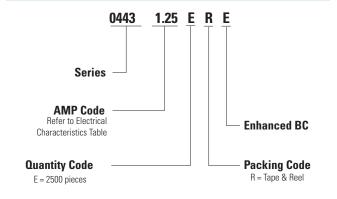


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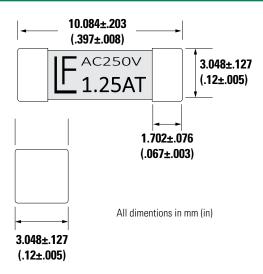
Product Characteristics

Materials	Body: Ceramic Cap: Silver Plated Brass		
Product Marking	Voltage rating, Ampere rating, T-Characteristic, "T" and Brand		
Temperature Humidity Bias	MIL-STD-202, Method 103, (85° C, 85%RH with 10% hold current)		
Solderability	MIL-STD-202, Method 208 (95% coverage)		
Resistance to Soldering Heat	MIL-STD-202, Method 210		
Pulse Test	IEC 60127-1; 9.5 (25° C +/-5° C, pulse 100% rated current)		
Terminal Strength Test	MIL-STD-202, Method 211, Test Condition A (5N force to the side for 60sec)		
Endurance Test	IEC 60127-1; 9.4 (25° C +/-5° C, 100% rated current for 1 hour, stop current for 15 mins. 100 cycles. Test for voltage drop to determine maximum power disipation)		
Operating Temperature	–60° C to 130° C		
Temperature Cycling	JESDD22 - A104 (-40° C to 125° C)		
High Frequency Vibration	MIL-STD-202, Method 204 (55Hz - 2Hz, 10G)		
Low Temperature Storage	MIL-STD-202, Method 108 (-40° C for 1000 hours)		
High Temperature Storage	MIL-STD-202, Method 108 (125° C for 1000 hours)		
Mechanical Shock	MIL-STD-202, Method 213, (50 G's peak for 11 milliseconds, halfsine waveform/10 – 55 Hz)		
High Temperature Operating Life Test	JESD 22 - A108 (125° C rated current at any voltage = to rated voltage); 1000H duration</th		

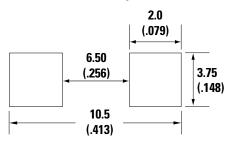
Part Numbering System



Dimensions



Recommended Pad Layout



Packaging

Packaging Option	Form Factor	Packaging Specification	Quantity	Quantity & Packaging Code
24mm Tape and Reel	Surface Mount	EIA-RS 481-2 (IEC 60286-3)	2500	ERE

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