

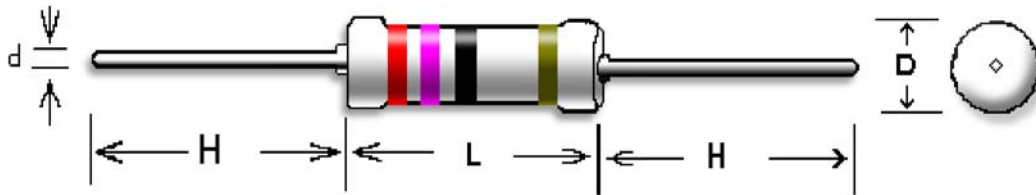
LFR - Economy Line-feed Protection Resistor

Specifications Per

- IEC 115-1 115-4

Features

- Multi-function Advanced Design
- Anti-Transient/lightning/ESD characteristics
- Cut-off on Sustained Overload
- Flameproof Conformal Multi-layer Coating



Dimensions

Type	Body Length (L, mm)	Body Diameter (D, mm)	Lead Wire Length (H, mm)	Lead Wire Diameter (d, mm)	Net Weight Per 1000Pcs
LFR50	8.8 ±1.0	3.2 ±0.2	28 ±3.0	0.6 ±0.03	340 Grams
LFR100	11.0 ±1.0	4.0 ±0.5	28 ±3.0	0.7 ±0.03	500 Grams

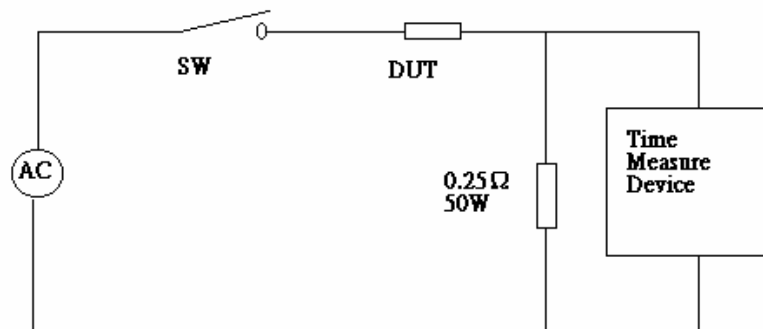
General Specifications

Type	Power Rating (at 70°C)	Max. Working Voltage	Max. Overload Voltage	Resistance Range Min.	Resistance Range Max.	Resistance Tolerance	Standard Resistance Values
LFR50	1/2W	350V	600V	1Ω	100Ω	±1%, ±5%	E-24/96
LFR100	1W	350V	600V	1Ω	120Ω	±1%, ±5%	E-24/96

Special resistance values available on special order.

Test Scheme

When the SW is closed time measure device will start to count the fusing time, and the DUT (Device Under Test) will fuse without flame.

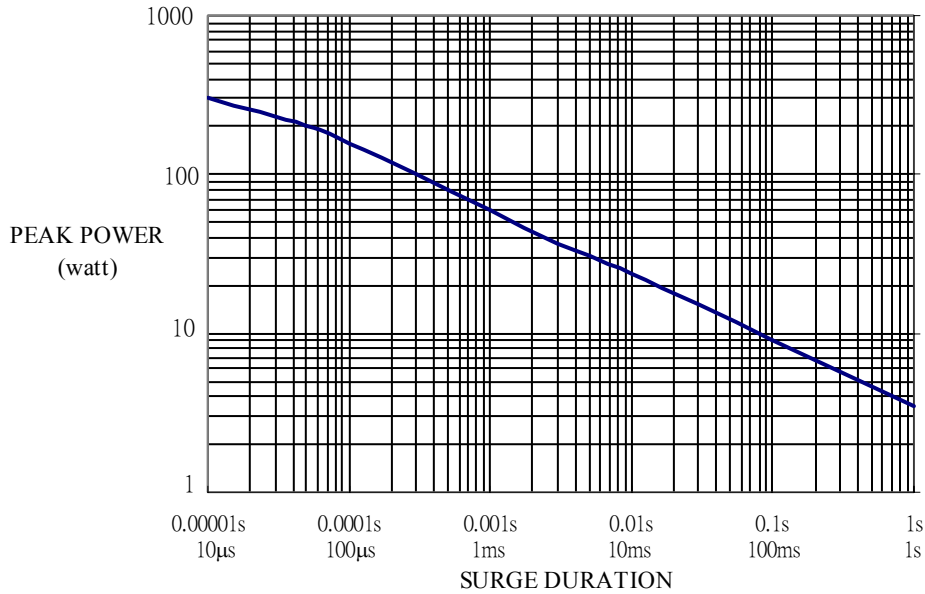


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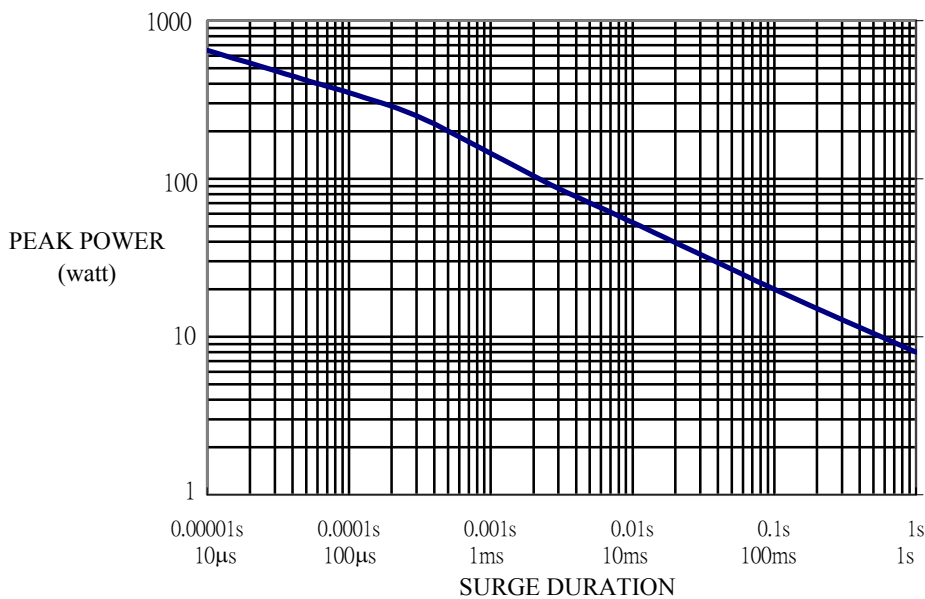
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Surge Capability

LFR50
SURGE PERFORMANCE



LFR100
SURGE PERFORMANCE



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Technical Specifications

Characteristics	Limits
Dielectric Withstanding Voltage, VAC or DC	350
Temperature Coefficient, PPM/°C	±200
Operating Temperature Range, °C	-55~+155
Fusing Condition	Interrupts in max. 60 seconds at 12W overload
Insulation Resistance, MΩ	10 ⁴
Voltage Coefficient, PPM / V	25

Performance Specifications

Tests Characteristics	Test Conditions	Limit			
Short Time Overload	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±(2% + 0.05R)			
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	±(5% + 0.05R)			
Load Life 1,000 hours	IEC 60115-1 4.25.1 Rated load 1.5 hours ON, 0.5 hours OFF, at 70°C	±(5% + 0.05R)			
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	±(1% + 0.05R)			
Solderability	MIL-STD-202 Method 208 Solder area covered after 230±5°C/5±0.5 seconds w/ flux applied	95% Min.			
Vibration	MIL-STD-202 Method 204 Six hours in each parallel and axial direction w/ a simple harmonic motion having an amplitude of 1.52mm and 10 to 20,000 Hz.	±(1% + 0.05R)			
Terminal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	±(1% + 0.05R)			
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	±(1% + 0.05R)			
Surge Test	Surge voltage = $\sqrt{(2400 \times P \times R)}$ DC <i>P is power rating, R is resistance value, surge voltage is not more than listed at right.</i> Surge spec = 1.2/50µs Period = 1 sec Number of surges = 50	<table border="0"> <tr> <td>LFR50: 7KV</td> <td rowspan="2">±(5% + 0.05R)</td> </tr> <tr> <td>LFR100: 10KV</td> </tr> </table>	LFR50: 7KV	±(5% + 0.05R)	LFR100: 10KV
LFR50: 7KV	±(5% + 0.05R)				
LFR100: 10KV					

Ordering Information

Type	Tolerance	Resistance Value	Packaging	Special Request (Optional)
LFR50 LFR100	J (5%) F (1%)	10R	TB (Tape/Box)	LV (Low value)

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