

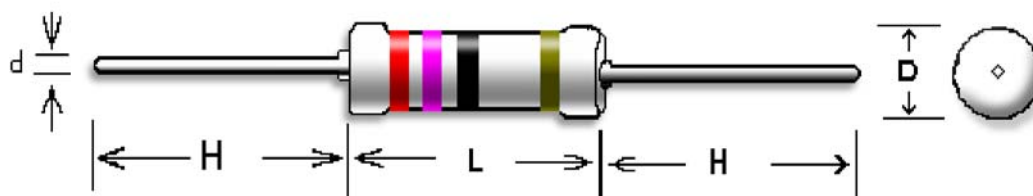
SCP - Short Circuit Protection Resistor

Specifications Per

- IEC 115-1 115-4

Features

- Multi-function Advanced Design
- Transient Withstanding for Power-line Coupling
- Cut-off on Overload or Accidental Short Circuit
- Flameproof Multi-layer Coating Meets UL-94V-0
- Flameproof Feature Meets Overload Test UL-1412
- Better Alternative to Wire-wound Resistor



Dimensions

Type	Body Length (L , mm)	Body Diameter (D , mm)	Lead Wire Length (H , mm)	Lead Wire Diameter (d , mm)	Net Weight Per 1000Pcs
SCP50	8.8 ±1.0	3.2 ±0.2	28 ±3.0	0.6 ±0.03	340 Grams
SCP101	8.8 ±1.0	3.2 ±0.2	28 ±3.0	0.6 ±0.03	340 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
SCP50	1/2W	350V	600V	2.2Ω	3.3KΩ	±5%	E-24
SCP101	1W	350V	700V	2.2Ω	3.3KΩ	±5%	E-24

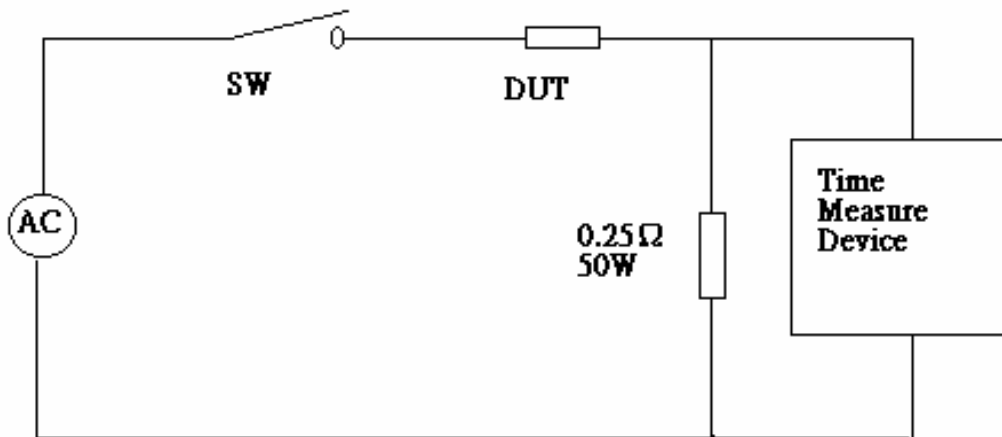
Special resistance values available on special order.

Jun. 06, 2004

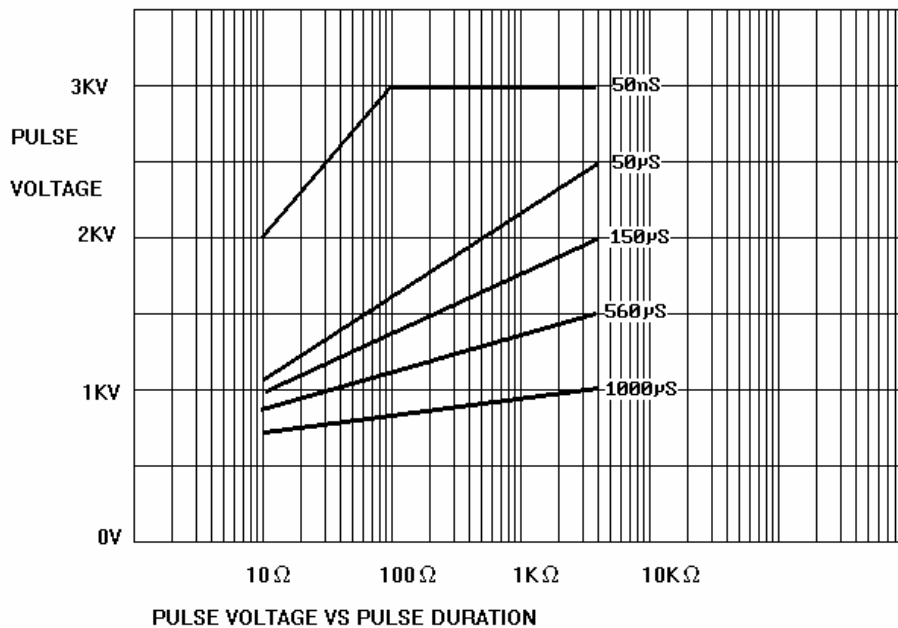
SCP - Short Circuit Protection Resistor

Fusing 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.



Surge Capability



Jun. 06, 2004

SCP - Short Circuit Protection Resistor

Technical Specifications:

Characteristics		Limits
Dielectric Withstanding Voltage, V AC or DC		350
Temperature Coefficient, PPM / °C		±400
Operating Temperature Range, °C		-55~+155
Fusing Condition	SCP50	Interrupts in max. 60 seconds at 12W overload
	SCP101	Interrupts in max. 60 seconds at 16W overload
Insulation Resistance, MΩ		10 ⁴ Min.
Voltage Coefficient, PPM / V		25
Power Derating, Linear		100% at 70°C, down to zero at 155°C

Performance Specifications:

Test Characteristics	Test Conditions	Limits
Short Time Overload	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±(3% + 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	IEC 60115-1 4.22 Six hours in each parallel and axial direction w/ a simple harmonic motion having an amplitude of 0.75mm and 10 to 500 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)

Ordering Information

Type	Tolerance	Resistance Value	Packaging	Special Request (Optional)
SCP50	J (5%)	3K	TB (Tape/Box)	LV (Low value)

Jun. 06, 2004