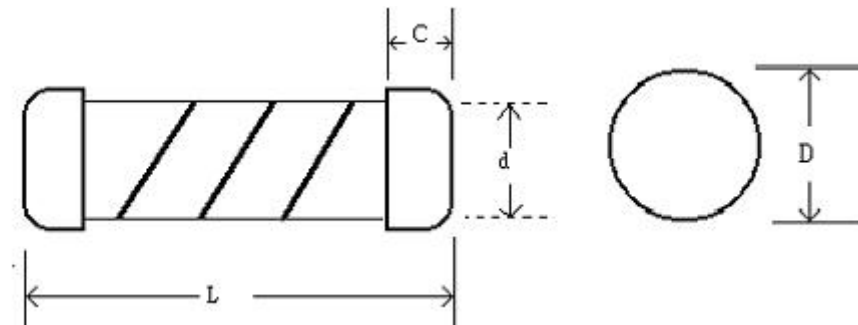


# SL - Slug Resistor

## Features:

Specially treated metal caps withstand abrasions, impacts, and corrosions, so as to reduce contact resistance during operation. Conductive film is enhanced to withstand abrasions, impacts, and corrosions as well. Suitable for clip-in (embedded) applications like switches with neon indicators, neon/LED modules, LED display arrays, etc.



## Dimensions

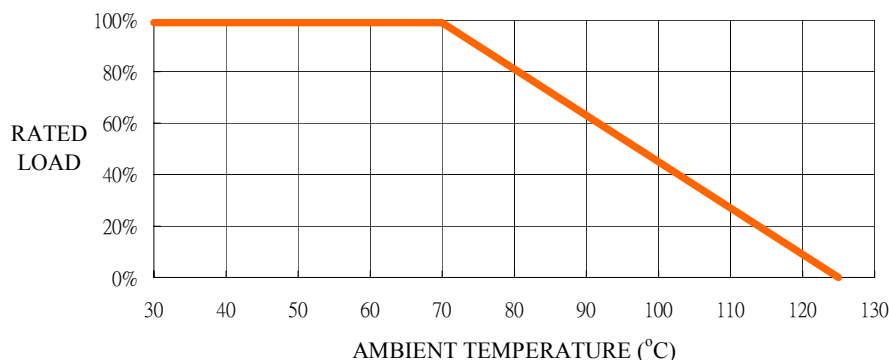
Type	Body Length (L)	Body Diameter (d)	Cap Length (C)	Cap Diameter (D)
SL16	3.45 ± 0.1 mm	1.0 ± 0.05 mm	0.6 mm Min.	1.35 ± 0.1 mm
SL25	6.40 ± 0.2 mm	1.7 ± 0.10 mm	1.3 ± 0.1 mm	2.1 ± 0.1 mm
SL51	7.80 ± 0.2 mm	2.6 ± 0.1 mm	1.8 ± 0.1 mm	3.00 ± 0.05 mm

## Electrical Specifications

Type	Power Rating At 70 °C	Max Working Voltage	Max overload Voltage	Tolerance	Resistance Range
SL16	1/8W	225VAC rms	350VAC rms	±5%, ±10%	1Ω~1MΩ
SL25	1/4W	300VAC rms	600 VAC rms	±5%, ±10%	1Ω~4.7MΩ
SL51	1/2W	350VAC rms	700VAC rms	±5%, ±10%	10Ω~9.1MΩ

*Special sizes, values, and specifications not listed available on special order.*

POWER DERATING CURVE



Oct. 22, 2004

# SL - Slug Resistor

## Technical Specifications:

Characteristics	Limits
Temperature Coefficient, PPM / °C	+200~-800
Operating Temperature Range, °C	-55 ~ +125
Voltage Coefficient, PPM / V	<25

## Performance Specifications:

Test Characteristics	Test Conditions	Limits
Short Time Over Load	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±(1%+0.05R)
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	±5%
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%
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	±(1%+0.05R)
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)
Thermal Endurance	IEC 60115-1 4.25.3 1000 hours at 125°C without load	±(1%+0.05R)
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +125°C 30minutes, 5 cycles	±(2%+0.05R)

## Ordering Information

Type	Tolerance	Resistance Value	Packaging	Special Request (Optional)
SL25	J (5%)	10K	B (BULK)	LV (Low value) HM (High meg)

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