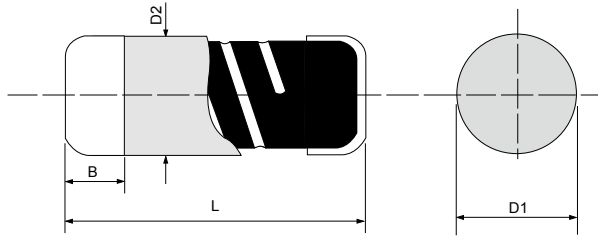


# SLC Slug Resistor Center Coated

Quality • Reliability  
Cost-Down via Innovation.

SLC



## Features

- Suitable for Clip-in (embedded) application like switches with neon indicators, neon/LED modules, LED display, etc.
- Conductive film is enhanced to withstand abrasions, impacts, and corrosions as well.
- Specially treated metal caps withstand abrasions, impacts and corrosions, so as to reduce contact resistance during operation.
- Products meet RoHS requirements and do not contain substances of very high concern identified by European Chemicals Agency

## DIMENSIONS

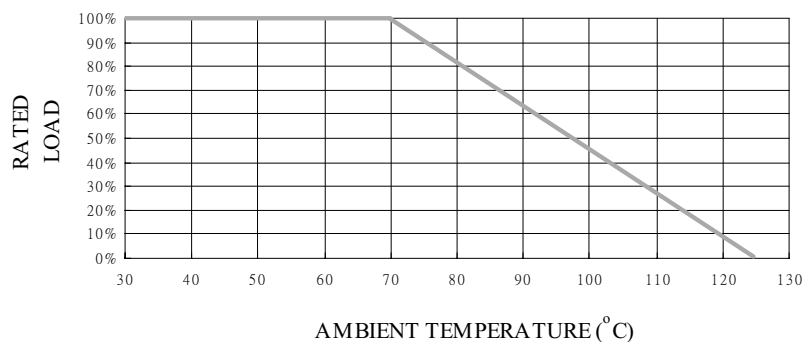
Type	Body Length (L, mm)	Cap Diameter (D1, mm)	Body Diameter (D2, mm)	Soldering Spot (B, mm)	Net Weight Per 1000 pcs
SLC16	3.52 ± 0.15	1.35 ± 0.1	D1+0.02/ -0.15	0.6 Min.	17 grams
SLC25	5.90 ± 0.20	2.20 ± 0.1	D1+0.02/ -0.2	1.0 Min.	66 grams
SLC51	8.50 ± 0.50	3.00 ± 0.2	D1+0.05/ -0.35	1.3 Min.	186 grams

## ELECTRICAL SPECIFICATIONS

Type	Power Rating (at 70°C)	Maximum Working Voltage	Maximum Overload Voltage	Tolerance	Resistance Range
SLC16	1/6W	225VAC rms	350VAC rms	±5%, ±10%	1Ω ~ 1MΩ
SLC25	1/3W	300VAC rms	600VAC rms	±5%, ±10%	1Ω ~ 4.7MΩ
SLC51	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



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## ■ PART NUMBER

Example: SLC25K10K0TKZBK500

<b>SLC25</b>	<b>K</b>	<b>10K0</b>	<b>TKZ</b>	<b>BK500</b>
Type	Tolerance	Resistance	TCR	Packaging
	J (5%) K (10%)	10KΩ <b>4-character code</b> containing - 3 significant digits 1 letter multiplier  <u>OHM MULTIPLIER</u> R = 1 K = 10 <sup>3</sup> M = 10 <sup>6</sup> G = 10 <sup>9</sup>	<b>3-character code</b>  TKZ = Default Product Temperature Coefficient.  Information of typical product temperature coefficient can be found in the Technical Summary section of the datasheet.*	Bulk 500 pieces <b>5-character code</b>  BK = Bulk  BK + Quantity

\* For the availabilities of non-default temperature coefficient, please check with us. Reference for TCR letter codes can be found in section (4) of Part Number Construction in the Appendices.

## ■ TECHNICAL SPECIFICATIONS

Characteristics	Limits
Dielectric Withstanding Voltage, VAC or DC	250
Temperature Coefficient, PPM / °C*	+200~-800
Operating Temperature Range, °C	-55 ~ +125
Insulation Resistance, MΩ	>10 <sup>2</sup>

\* Not applicable to all resistance values. Please check with us regarding the PPM of specific resistance value(s).

## ■ PERFORMANCE SPECIFICATIONS

Characteristics	Test Conditions	Limits
Short Time Over Load	<b>IEC 60115-1 4.13</b> 5 seconds 2.5x rated voltage (not over max. overload voltage)	±1%
Load Life In Humidity	<b>IEC 60115-1 4.24</b> 56 days rated load (not over max. working voltage) at (40±2)°C and (93±3)% relative humidity	±5%
Load Life 1,000 hours	<b>IEC 60115-1 4.25.1</b> Rated load (not over max. working voltage) with 1.5 hours ON, 0.5 hours OFF, at (70±2)°C	±5%
Resistance To Soldering Heat	<b>IEC 60115-1 4.18.2</b> Dip the resistor into a solder bath measured (260±5)°C and hold it for a 10±1 seconds	±1%
Vibration	<b>IEC 60115-1 4.22</b> Six hours in each parallel and axial direction with a simple harmonic motion having an amplitude of 0.75mm and 10 to 500 Hz.	±1%
Thermal Endurance	<b>IEC 60115-1 4.25.3</b> 1000 hours at 125°C without load	±1%
Thermal Shock	<b>IEC 60115-1 4.19</b> -55°C 30minutes, +125°C 30minutes, 5 cycles	±2%