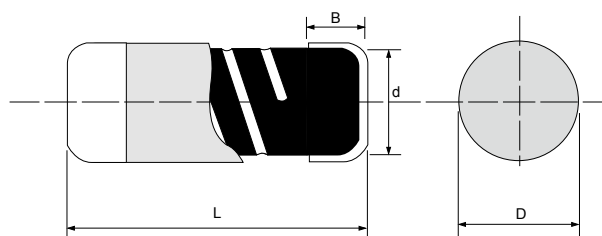


Quality • Reliability
Cost-Down via Technology

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

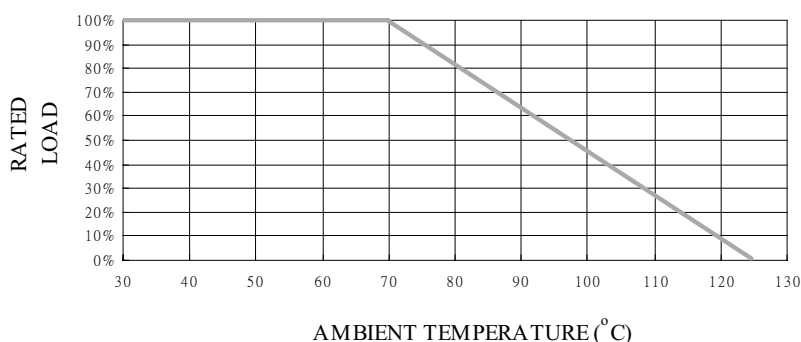
Type	Body Length (L, mm)	Core Diameter (d, mm)	Cap Length (B, mm)	Body Diameter (D, mm)
SLC16	3.52 ± 0.08	1.0 ± 0.05	0.6 Min.	1.35 ± 0.1
SLC204	3.52 ± 0.08	1.3 ± 0.05	0.6 Min.	1.35 ± 0.1
SLC25	5.90 ± 0.20	1.7 ± 0.10	1.0 Min.	2.20 ± 0.1
SLC51	8.50 ± 0.20	2.5 ± 0.10	1.3 Min.	3.00 ± 0.2

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
SLC204	1/4W	200VAC 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

SLC25	K	10K0	TKZ	BK500
Type	Tolerance J (5%) K (10%)	Resistance 10KΩ 4-character code containing - 3 significant digits 1 letter multiplier <u>MULTIPLIER</u> R = 1 K = 10 ³ M = 10 ⁶ G = 10 ⁹	TCR 3-character code TKZ = Default Product Temperature Coefficient. Information of typical product temperature coefficient can be found in the Technical Summary section of the datasheet.*	Packaging Bulk 500 pieces 5-character code 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 ²

* 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	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±1%
Load Life In Humidity	IEC 60115-1 4.24 56 days rated load at (40±2)°C and (93±3)% relative humidity	±5%
Load Life 1,000 hours	IEC 60115-1 4.25.1 Rated load with 1.5 hours ON, 0.5 hours OFF, at (70±2)°C	±5%
Resistance To Soldering Heat	IEC 60115-1 4.18.2 Dip the resistor into a solder bath measured (260±5)°C and hold it for a 10±1 seconds	±1%
Vibration	IEC 60115-1 4.22 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	IEC 60115-1 4.25.3 1000 hours at 125°C without load	±1%
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +125°C 30minutes, 5 cycles	±2%