

NOTE: This series will be phased out effectively March, 2015.

Features

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

DIMENSIONS

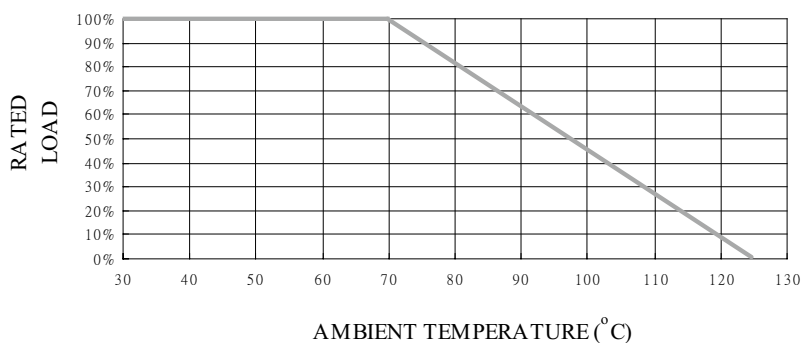
Type	Body Length (L, mm)	Core Diameter (d, mm)	Cap Length (C, mm)	Body Diameter (D, mm)
SL16	3.52 ± 0.08	1.0 ± 0.05	0.6 Min.	1.35 ± 0.1
SL204	3.05 ± 0.10	1.3 ± 0.05	0.9 ± 0.05	1.60 ± 0.1
SL25	5.90 ± 0.20	1.7 ± 0.10	1.0 ± 0.10	2.20 ± 0.1
SL51	8.50 ± 1.00	2.6 ± 0.10	1.3 ± 0.10	3.00 ± 0.2

ELECTRICAL SPECIFICATIONS

Type	Power Rating (at 70°C)	Maximum Working Voltage	Maximum Overload Voltage	Tolerance	Resistance Range
SL16	1/6W	225VAC rms	350VAC rms	$\pm 5\%$, $\pm 10\%$	$1\Omega \sim 1M\Omega$
SL204	1/6W	200VAC rms	350VAC rms	$\pm 5\%$, $\pm 10\%$	$1\Omega \sim 1M\Omega$
SL25	1/4W	300VAC rms	600VAC rms	$\pm 5\%$, $\pm 10\%$	$1\Omega \sim 4.7M\Omega$
SL51	1/2W	350VAC rms	700VAC rms	$\pm 5\%$, $\pm 10\%$	$10\Omega \sim 9.1M\Omega$

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

POWER DERATING CURVE



■ PART NUMBER

Example: SL204K10K0TKZBK5K0

SL204	K	10K0	TKZ	BK5K0
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 5000 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
Temperature Coefficient, PPM / °C*	+200~-800
Operating Temperature Range, °C	-55 ~ +125

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

■ PERFORMANCE SPECIFICATIONS

Tests 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%