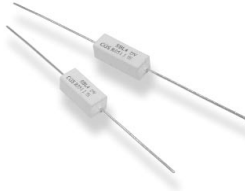


Type SBL Series

Type SBL Series



The SBL Series is a low ohmic non-inductive resistor with a low temperature coefficient in a fully insulated ceramic housing. It is ideal for applications in power supply regulation, motor control current monitoring, feedback control loops, overload sensors and radio frequency applications. The solid metal element has welded copper terminals and is encapsulated in a ceramic housing, filled with compressed silica sand.

Key Features

- 4 Watts & 5 Watts Versions
- Solid Metal Element
- Non-Inductive
- Low Temperature Coefficient
- High Reliability
- Custom Design (Subject to Volume)
- 4 Watt Device Available in Distribution

Characteristics - Electrical

| | |
|-------------------------------------|---|
| Resistance Values (4 Watt): | R005, R01, R015, R018, R022, R033, R047, R051 |
| Resistance Values (5 Watt): | R01, R015, R018, R022, R033, R047, R051 |
| Resistance Tolerance: | ± 5% |
| Rated Dissipation (4 Watt): | 4 Watts at 70°C |
| Rated Dissipation (5 Watt): | 5 Watts at 70°C |
| Dielectric Strength: | 2000 Volts |
| Insulation Resistance: | < 10000 Mohms |
| Maximum Continuous Working Voltage: | $\sqrt{\text{Power} \times \text{Resistance}}$ AC RMS |

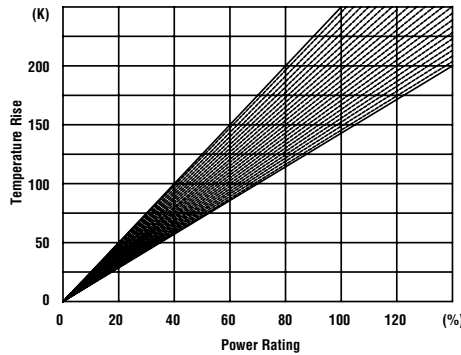
Characteristics - Mechanical

| | |
|--------------------|---------------------------|
| Climatic Category: | -55 / 250 / 56 |
| Temperature Range: | -55°C to +250°C |
| Derating: | Linear from 70°C to 250°C |

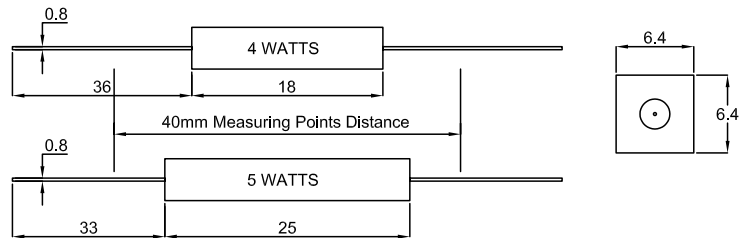
Characteristics - Environmental

| | |
|----------------------------|--|
| Resistance to Solder Heat: | 260°C (ΔR ± 0.2% typical) |
| Terminal Strength: | 3lb pull test |
| Solderability: | Meets MIL Std 202 |
| Marking: | Black ink on ceramic body - Manufacturer, Resistance Value and Tolerance |

Temperature Rise



Dimensions



How to Order

| | | | |
|--------------------|----------------------------|---|------------------|
| SBL | 4 | R051 | J |
| Common Part | Power Dissipation | Resistance Value | Tolerance |
| SBL - Standard | 4 - 4 Watts 5 - 5 Watts | R005, R01, R015, R018, R022, R033, R047, R051 (5 Watt Version only R01 - R051) | J ±5% F ±1% |