

## Low Ohmic - Current Sense Resistors

### Type SBL Series

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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 ( $\Delta R \pm 0.2\%$ 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%

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