

# **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

# **Low Ohmic - Current Sense Resistors**



#### Type SBL Series

#### 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:	√Power x Resistance AC RMS

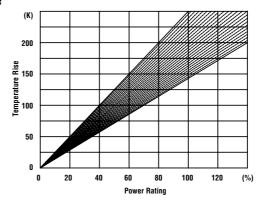
## Characteristics - Mechanical

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

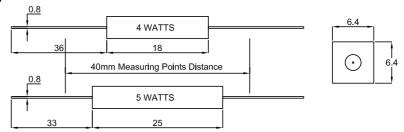
## Characteristics -Environmental

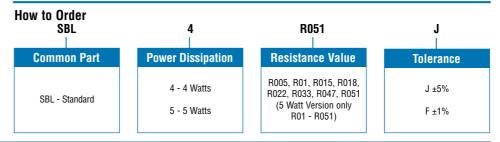
Resistance to Solder Heat:	260°C ( $\Delta R \pm 0.2\%$ typical)
Terminal Strength:	3lb pull test
Solderability:	Meets MIL Std 202
Marking:	Black ink on ceramic body - Manufacturer, Resistance Value and Tolerance

## **Temperature Rise**



#### **Dimensions**





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CPSL07R1000JB145 SR10-0.015-1% SR20-0.008-1% HPCR0402F12K0K9 HPCR0402F130RK9 HPCR0402F13K0K9

HPCR0402F17K4K9 HPCR0402F180KK9 HPCR0402F180RK9 HPCR0402F1K10K9 HPCR0402F220KK9 HPCR0402F220RK9

HPCR0402F24K0K9 HPCR0402F27K0K9 HPCR0402F2K00K9 HPCR0402F33K0K9 HPCR0402F430KK9 HPCR0402F4K30K9

HPCR0402F4K70K9 HPCR0402F680KK9 HPCR0402F680RK9 HPCR0402F390KK9 HPCR0402F39K0K9 HPCR0402F3K00K9 HPCR0402F560KK9 HPCR0402F560KK9 HPCR0402F560KK9 HPCR0402F560KK9 HPCR0402F5K00K9 HPCR0402F5K00K9 HPCR0402F5K00K9 HPCR0402F5K00K9 HPCR0402F5K00K9 HPCR0402F68K0K9 HPCR0402F6K20K9 HPCR0402F6K80K9 HPCR0402F7K50K9 HPCR0402F8Z0KK9 HPCR0402F910KK9
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