



Key features

- 4 watts at 70°C •
- solid metal element •
- non-inductive •
- low temperature coefficient •
- 250°C maximum temperature •
- high reliability •
- custom design (subject to volume) •
- down to R005 at 1% •

Specification

Electrical

Resistance Values:	R005, R01, R015, R018, R022, R033, R047, R051
Resistance Tolerance:	±5%, ±1%
Rated Dissipation:	4 Watts at 70°C Derating to zero at 250°C
Dielectric Strength:	2000 Volts
Insulation Resistance:	1000 M
Load Life (1000 Hours):	$\Delta R \pm 3\%$ average
Maximum Working Voltage:	$\sqrt{\text{Power} \times \text{Resistance}}$ AC RMS

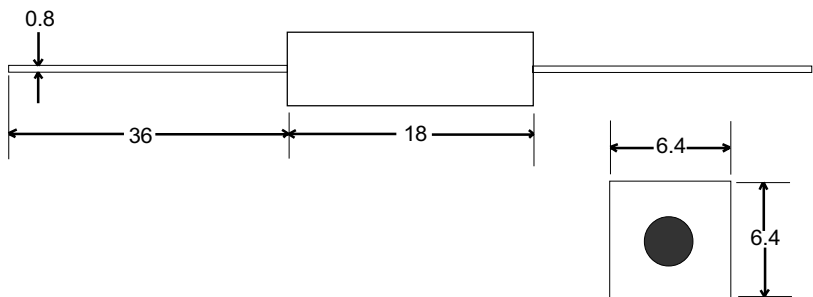
Mechanical

Terminal Strength:	3lb Pull Test
Solderability:	Equivalent to MIL Std 202

Environmental

Climatic Category:	-50/250/50
Temperature Range:	-55°C to +250°C
Resistance to Solder Heat:	At 260°C $\Delta R \pm 0.2\%$ typical

Dimensions



How to Order

SBL	4	R005	J
Common Part	Power Rating	Resistance Value	Tolerance
SBL - Standard	4 - 4 Watts	0.005 ohm (5 milli ohm) 0.01 ohm (10 milli ohm) R005 R01	F - ± 1% J - ± 5%

Special Resistors

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 motor 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. Higher power versions are available to special order.

Please Request Full Data
Sheet F0496