

Type OS Series

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The OS Series is designed for current sensing using a range of low TCR resistive alloys to create the value and current capability you require.

The ribbon is welded to 1mm diameter solid (OFHC) copper leads that are tin/lead electroplated. The OS is ideally suited to current detection in power supply circuits, electric meter sensing, protection feed back circuits and a wide range of automotive positions.

Key Features

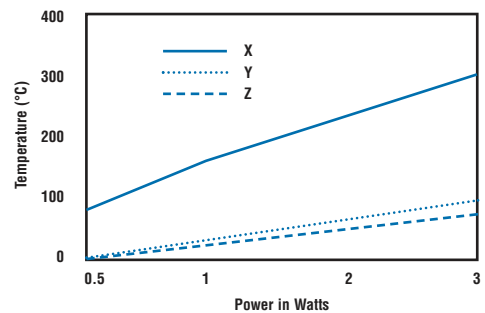
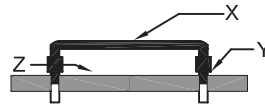
- Small Size Light Weight
- Easy to Mount
- Completely Non Inductive
- Temperature Range -55°C to +155°C
- High Power up to 5 Watts
- High Current up to 14 Amps
- Custom Designs Welcomed

Characteristics - Electrical

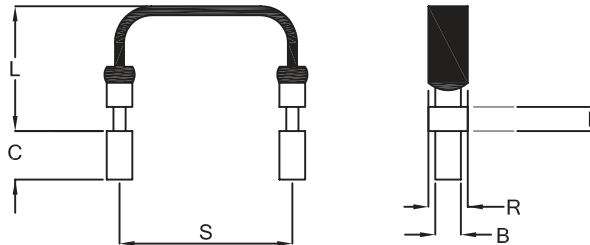
Resistance Value:	R005, R01, R015, R022, R025, R033, R047, R051 (or custom)
Resistance Tolerance:	5%, 10% (tighter by discussion)
Temperature Coefficient of Resistance:	Material 20ppm/°C Effective 100ppm/°C over range
Rated Ambient Temperature:	+70°C
Operating Temperature Range:	- 40°C + 200°C
Load Life @ 125°C:	1000 hours $\Delta R < \pm 2\%$ max.
Temperature Cycling:	- 40°C + 125°C 1000 $\Delta R < \pm 2\%$ max.
Moisture No Load:	1000 hours $\Delta R < \pm 1\%$ max.
Pack Quantity:	500 boxed - loose pack

Temperature Rise Curve

Typical Temperature Rise Under Load Condition Type OS3



Dimensions



Type	S	L	C ±0.25	P ±0.1	R ±0.1	B ±0.05
OS-1	11.43	5.0±2.5	3.2	1.2	2.0	1.7
OS-3	15.20	25.4 Max	3.2	1.2	2.0	1.7
OS-5	20.30	25.4 Max	3.2	1.2	2.0	1.7

How to Order

OS	3	R01	15	J
<b>Common Part</b>	<b>Rated Power</b>	<b>Resistance Value</b>	<b>Insertion Pitch</b>	<b>Tolerance</b>
OS - Open Wire Resistor (Radial) LW - Leaded Wire (Axial) Resistor (Custom)	1 - 1 Watt 3 - 3 Watt 5 - 5 Watt (Or Custom)	0.01 Ohm (10 milli Ohm) R01	12 - 12mm 15 - 15mm 20 - 20mm	J ±5% K ±10% Tighter by Discussion