

### FCSL Series

The FCSL Series incorporates proven metal foil technology to produce the ultimate in a Current Sense Resistor. FCSL features the effective combination of very low and stable TCRs (Temperature Coefficient of Resistance) down to 50ppm available in a wide selection of very low ohmic values down to 1 milli-Ohm. Ohmite offers power ratings up to 10 watts. The FCSL is the ideal choice for your current sensing applications and has been extended to include a four-terminal version, the FC4L.



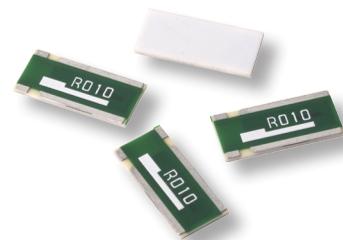
### CS3 Series

The CS3 Series utilizes state of the art technology to achieve highly reliable non-inductive performance. The CS3 is ideal for current monitoring and control applications. The four-terminal Kelvin connect design is ideal for precision current measurements utilizing two terminals for voltage and two terminals for current measurement.

### LVK Series

The LVK chip features four terminals, also known as a "Kelvin" configuration. This configuration enables current to be applied through two opposite terminals and a sensing voltage to be measured across the other two terminals, eliminating the resistance and temperature coefficient of the terminals for a more accurate current measurement.

Isolating the voltage and current terminals facilitates very accurate current measurement. Ohmite's proprietary technology offers an excellent Temperature Coefficient of Resistance (TCR) even for very low resistance values. The resistive element consists of a durable, anti-corrosive metal alloy that combines reliable performance with the ability to withstand harsh environments.



### FC4L Series

Ohmite extends its FCSL Series with this four-terminal Kelvin type FC4L derivative in package sizes up to 5 watts. Employing the same Ni-Cu-Mn resistive element, this product affords the user an added advantage of a built-in four-terminal design to make board design easier. The four terminals are divided by two larger electrodes for current management and two smaller electrodes for voltage measurement. Maximum inrush currents of 100 amps offers confidence to end users.



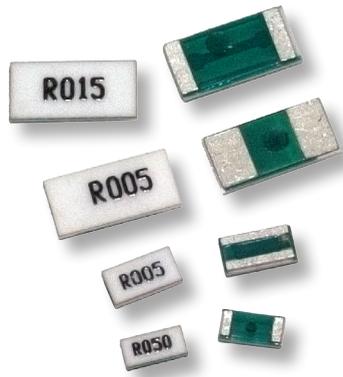
### EBW Series

The EBW Series are manufactured using electron beam welding technology. This allows the joining of different alloys with great accuracy and tolerance. The EBW Series have heavy copper connectors, excellent long term stability and low inductance. These components can tolerate soldering temperatures of 350° C for 30 seconds or 250° C for 10 minutes. These can be mounted using re-flow soldering or welding on copper. The EBWA can handle a power of 5 watts up to 100A at 0.5mΩ. The EBWB can handle a constant power of 7 watts at 0.2mΩ and a continuous load of 180A at 0.2mΩ.

# Current Sense Products

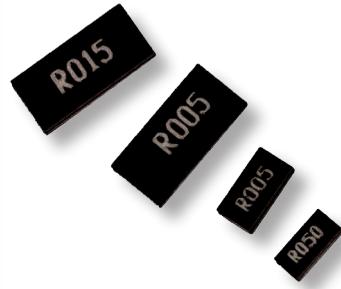
Current Sense Resistors enable the measurement of current flow in a circuit by monitoring a voltage drop across a precisely calibrated resistance. Ohmite has multiple part series for Current Sense applications. Ohmite produces Current Sense Resistors down to ultra-low values while still maintaining resistive stability. Ohmite Current Sense Resistors are offered in two and four terminal configurations. Due to multiple mountings, constructions, and configurations, Ohmite is confident customers will find the proper Current Sense Resistor required to fit their needs.

**OHMITE**®



### MCS Series

The MCS Series Current Sense Resistors are constructed with a Cu terminal electrode and lead-free terminations (60% Sn, 40% Ni). This electrode sits atop a 96% alumina substrate thermo dissipation protective layer and carries low inductance. The part is finished with a flame-retardant epoxy protective coating (UL-94-V0). The MCS Series is available in ultra-low resistance values using precision alloys creating part stability down to 50ppm.



### LVT Series

Using a metal alloy strip as the resistive medium, the TCRs are kept at low levels. TCRs range from 150ppm to 50ppm depending on the value and size chosen. All popular sizes and values are covered with this series. Sizes include 0402, 0603, 0805, and 1206. These sizes are available from 2 milli-ohms up to 20 milli-ohms producing a nice range for current sense applications looking to minimize power consumption. The Ohmite LVT series is constructed in a Flip Chip style providing an economical current sense chip.



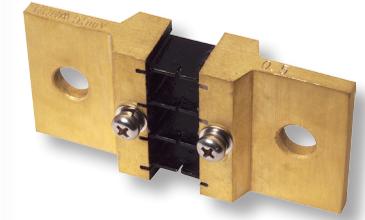
### 10 Series

Ohmite's 10 Series Current Sense Resistors are available in a standard two-terminal axial and a four-terminal Kelvin design. 1% tolerances are standard with a fixed measuring point. The element design is non-inductive below 0.25 ohms. Ohmite's four-terminal current-sense design is specifically designed for low-resistance applications requiring the highest accuracy and temperature stability.



### TGHG Series

The TGHG Series uses state of the art technology to provide highly reliable, non-inductive performance. The TGHG is produced in a SOT-227 package with a four-terminal Kelvin configuration. The SOT-227 package can be mounted to a heatsink creating up to 100 watts of power dissipation.



### S Series Shunts

Ohmite S Series Shunts are ideal for lab environments or other applications requiring current handling up to 1200 amps. Large brass terminals are available in multiple types with the resistive element produced in a plate-style construction. Additional connection points with attached hardware are used for voltage measurement. Multiple voltage drop applications are supported, with 60mv and 75mv being most popular. Accuracy class of 0.5% is standard and custom versions can be supported.

### 60 Series

Ohmite's Four Terminal Bare Element Resistors provide ultra-low resistance values (to 0.0005Ω) for relatively high current requirements, with the advantages of a Kelvin configuration and PC board mounting capability. These Shunt Resistors are specifically designed for low resistance applications requiring the highest accuracy and temperature stability. This four-terminal version of Ohmite's 60 Series Resistor is specially designed for use in a Kelvin configuration, in which a current is applied through two opposite terminals and sensing voltage is measured across the other two terminals.



### SH Series Shunt

These precision metal-clad Resistors are designed with a four-terminal technique and are distinguished by high load capacity as well as excellent accuracy. Isolated voltage and current connections make them suitable for very precise current measurements. The large slotted connection ensures easy installation on large current bus bars. The SH Series design enables low inductance using a single flat element.

