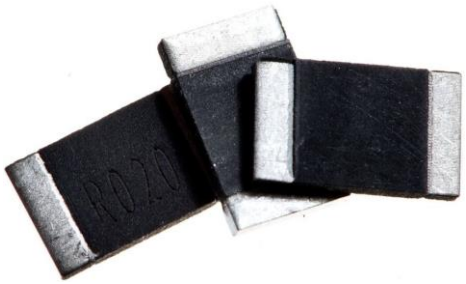
Fast Facts

LRMAP2817

Low Resistance Metal Alloy Power Resistors

Features:

- 5W rating at 70°C on FR4
- Values 1 to 100mΩ
- Compact 2817 footprint
- Tolerance down to 0.5%
- TCR down to 50ppm/°C



Description:

LRMAP2817 is a high power, low value SMT shunt resistor. With values down to 1mΩ and a power rating on FR4 of 5W, the maximum measurable current is 71A, and in most cases restricted only by the capacity of the PCB tracks. With 0.5% tolerance and 50ppm/°C, this combines good precision with the high surge capacity of metal alloy technology.

The compact 2817 footprint, measuring just 7.1 x 4.3mm, is gaining popularity for space-constrained designs, and is compatible with the 2816 size adopted for some components.

Available in the full E24 value range plus integer milliohm values below 10mΩ and integer multiples of 10mΩ up to 100mΩ LRMAP2817 gives designers a high degree of flexibility, and the wide temperature range of -65 to +170°C makes this rugged component suitable for demanding applications.

Applications:

- Power supply
- Motor drive
- Battery monitoring
- Solar cell monitoring
- Process control

Benefits:

- Low thermal impedance minimises the temperature rise and enhances reliability of the assembly.
- High surge tolerance gives reliable product performance under inrush and momentary short circuit conditions.
- Good long term stability of value, low TCR and low tolerance all mean that a small part of the designer's error budget is consumed, enabling more design freedom elsewhere in the circuit.