

SRT Resistor Technology

Pressinformation Sensor+Test 2007

PTC Temperaturesensors up to 100kOhms

At the measurement fair Sensor+Test 2007 SRT Resistor Technology is presenting temperature sensors with resistor value of 100 kOhm and higher. These PTC-resistors with linear characteristics are produced in Thickfilm Technology, and are available as well as chips as also as leaded components. In the resistance range higher than 10 kOhms the TCR is in the range of +2800 ppm/K.

The chip-versions are produced in the chip-sizes 0402 up to 1210 and have mainly at the sizes 0402 and 0603 a fast response to temperature changes. The high values at the sizes 1206 and 1210 are achieved by using a special meander-structure by fine-line printing. The contact material at the standard version consists of a PtAg-alloy with good solderability, which also is suited for conductive gluing and for high-temperature applications up to 200°C. Further these contacts have non-magnetic properties, so they can be used in high magnetic fields as existing in medical applications.

The leaded versions are based on the chip sizes 1206 and 1210, and have flexible wire-leads fixed with high-temperature solder to the resistor element. A silicon-resin coating is protecting the resistor element against moisture and dirt from the environment. Both versions have the typical long-term stability of Thickfilm resistors with resistor-changes below 1% at the standard test procedures, and are manufactured with the same economic processes as existing resistor series.

