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BREL International

For Immediate Release

Leaded Miniature Resistors for various applications

Miniature resistors are not only available in surface mount, but also leaded versions are used in the design of miniature electronic products like hearing aid amplifiers. For several decades BREL International in cooperation with SRT Resistor Technology GmbH and its predecessor Siegert GmbH has been producing the smallest leaded resistor in the world with a diameter of 0.8mm and length 2.2mm as a capless carbon film resistor. By using thickfilm and thinfilm resistor technologies, a new series of axial leaded miniature resistors is now available, covering the standard range as well as the high value and the precision range of miniature resistors.

The standard MRS type is available in the resistance range from 1R0 ohm to 10 megohm and now has tighter tolerances to ±1% and a lower TCR of 100pm/^{o}C, than the previous carbon film model. For special applications of sensor and industrial electronics, there are new to the market two other types with high resistance values and high precision characteristics. The first, the high value MRH type, covers the resistance range from 10 megohm to 10 gigaohm and offers in the range up to 100 megohm a tolerance ±5% and TCR 100ppm/ ^{o}C. The second, the precision MRP type, is produced in the resistance range from 10R ohm to 100K ohm and is supplied with tolerances from 0.1% to 1% and with TCR of 25 and 50 ppm/ ^{o}C. The resistance elements are protected by a high-grade epoxy-moulding, providing all versions with high mechanical and electrical long-term stability. The standard type additionally has a colour-code for resistance value and tolerance.

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