

RC SERIES:

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PRECISION METAL FILM RESISTORS

The real world is still analogue. Regardless of their digital sophistication, sensing and measurement systems which interface to it depend on the stability and precision of their analogue sections.

Welwyn Components now offers a range of resistive products tailored to precision applications.

The RC and CAR series of precision metal film resistors offers tight tolerances and low TCRs over a wide resistance range, and are the ideal choice where long-term stability is paramount.

John Graham, marketing and sales director, Welwyn Components, said: "A key parameter of the RC and CAR series is the defined low total excursion on resistance value over the life of the product, including storage, solder processing, temperature fluctuations and environmental stress."

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With resistance tolerances down to $\pm 0.05\%$, the RC series features low noise, $\pm 5\text{ppm}/^\circ\text{C}$ temperature coefficient, and negligible voltage coefficient. The CAR series shares these qualities and extends the tolerance to $\pm 0.01\%$. Both are sealed in a high grade epoxy coating giving typical 12 month low power drifts of $\pm 0.03\%$ for RC and just $\pm 30\text{ppm}$ for CAR. For bridges or networks where ratio precision is required, a matching service is available. Using CAR, this offers ratio tolerance to $\pm 50\text{ppm}$ and TCR tracking to $\pm 1\text{ppm}/^\circ\text{C}$.

Applications include precision balances, test & measurement equipment, process control and medical systems such as ECG monitors and in-vitro analysis products. In addition, with optional release to CECC40101-004 or -804, the RC series is suitable for high reliability military, avionics and space applications.

These precision metal film resistors offer power ratings from 0.25 watts to 1 watt at 70°C ambient. With limiting element voltages of 250 to 500 volts, the series are offered in E96 values from 1R ohm to 10M megohms and have an operating temperature range from -55 to $+155^\circ\text{C}$.

ENDS.

Welwyn Components Ltd is a manufacturing subsidiary of TT electronics plc, specialising in a wide range of resistive products, volume hybrid and micro assembly technologies for automotive, industrial, communications, defence, avionics and medical applications.

TT electronics plc is one of the largest suppliers of electronic components worldwide, across automotive, industrial, communications, defence, avionics and medical markets, providing products to OEMs, major distributors and electronic manufacturing services.

Visit our corporate web site for further information: <http://www.ttelectronics.com/>