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Vitreous-enamelled resistors toughen up modern electronic controls

Proven power resistors are impervious, rugged, and compatible with WEEE and ELV

Bedlington, UK, XX Month Year: With millions of component hours logged in continuous reliability testing, Welwyn Components W20-series vitreous enamelled wirewound resistors deliver rugged, dependable power handling for automotive electronics and other equipment used in harsh or hostile environments.

These proven resistors benefit from a proprietary lead free vitreous enamel coating, which requires no flame-retardant additives and provides superior environmental protection. They can be used in products meeting strict regulations on disposal, such as the EU WEEE and ELV (End of Live Vehicles) directives, and remove reliance on exemptions for RoHS compliance.

In addition to protecting the resistor, thereby promoting stable performance, the impervious coating also allows the W20 series to operate at temperatures up to 375°C and so deliver high power ratings in relation to body size. The W24 series, which has a nominal power rating of 14W, has an 8.0mm-diameter axial-leaded body of length 53.5mm. The resistors can also withstand overloads up to 25 times rated power for 1000 milliseconds.

Vitreous-enamelled resistors such as the W20 series meet the requirements of modern automotive subsystems such as cable harnesses, which must be impervious to contaminants, and ECUs exposed to high temperatures in the engine bay or close to the exhaust or transmission. The impervious coating also allows use in electronic systems deployed in harsh industrial environments, such as systems exposed to sulphur-bearing exhaust gases. When used in domestic heating-control units, superior pulse performance helps designers meet high market expectations for lifetime reliability.

In addition to these emerging applications, vitreous-enamelled resistors such as the W20 series continue to be the power resistor of choice in applications such as military and aerospace equipment needing CECC-approved parts, power supply inrush current limiting, active discharge of reservoir capacitors, and dummy load banks in test fixtures.

The W20 commercial series comprises five families with nominal power ratings of 3W, 5W, 7W, 10W and 14W, and with voltage ratings from 100V to 750V. Resistance values from 1Ω to 100kΩ are available in E24 values, and typical TCR is ±75ppm/°C. Device families certified to CECC 40-201-002 are designated JB, HB, KB, LB, MB, and are rated from 2.9W to 14.0W.

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About Welwyn Components

Welwyn Components Limited is a manufacturing subsidiary of technology group TT electronics plc, specialising in a wide range of multi-market resistive products, custom micro assembly & packaging technologies.

TT electronics plc is a focused, global electronics company supplying the world's leading manufacturers in the automotive, avionics, defence and industrial electronics markets. The Group operates in four key sectors: sensors and electronic systems, electronic components, electronic manufacturing services and secure power and industrial. TT electronics operates from headquarters based in Weybridge, Surrey. From this base the Group controls operations across the world in both developed and developing economies.

Additional information is available from our corporate website: <http://www.ttelectronics.com/>

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