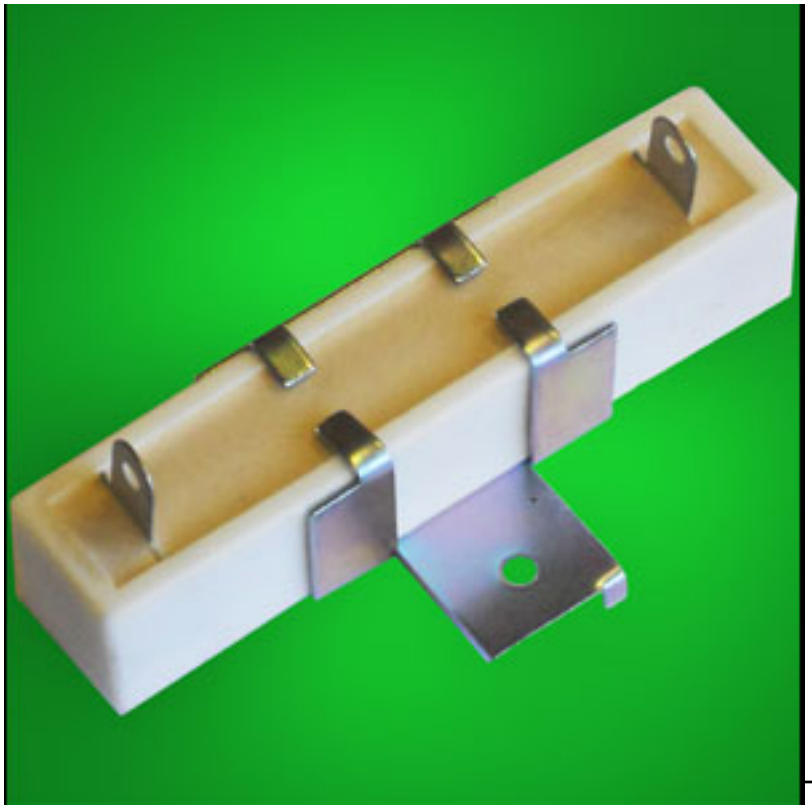
High-power resistors target hybrid electric vehicles



TT electronics has introduced the WPRT Series of Wirewound Power Radial Terminal Resistors, qualified to AEC-Q200 and designed to address the specific requirements of high-power applications including hybrid electric vehicles (HEVs).

With the introduction of the WPRT Series, TT electronics now offers the industry's widest range of ratings and configurations. This new resistor family is constructed from a high purity ceramic rod with force-fit end-caps, over which is wound a wire element. This is then placed within a ceramic case using fireproof insulation cement. As a result, the resistors are totally flameproof under specified temperature and overload conditions.

The unique design has been optimized for its surge performance, making it ideal for electric vehicles and motor drives. Manufactured to the highest tolerance, the WPRT Series also improves assembly, as it fits perfectly into automotive protective mouldings.

The WPRT Series can be used in HEV pre-charge and BDU discharge applications, as well as protecting motors from inrush current. Its surge-protection design means it is also suitable for UPS systems.

The range comprises six power ratings; from 10W to 50W, with a maximum of 250W overload withstand for the WPRT50 (50W) range. Availability conforms to E24

standard resistor values.

Pricing for the WPRT Series is dependent upon configuration and volume.

For further information and data sheet downloads please visit: http://www.welwyn-tt.com/pdf/datasheet/WPRT.pdf [1]

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