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Unspiralled HSF Series provides up to triple the surge rating compared to standard CHP…

IRC DEVELOPS RUGGED SURGE RESISTORS TO MANAGE OVERLOADS IN MOTOR CONTROL CIRCUITS

BOONE, NC (August 11, 2004) — TT electronics IRC Wirewound and Film Technologies Division recently introduced a surface mount high surge resistor for use in small motor control circuit designs in automotive and industrial applications. The rugged High Surge Film (HSF) Series resistor is uniquely designed to handle a pattern of overloads within the circuit, and IRC has been selected to supply its HSF resistors to a major Tier 1 automotive supplier.

The cylindrical design of the HSF resistor provides excellent heat dissipation and much higher surge/pulse capability than comparably rated flat chips. The part can also serve as a replacement for costly surface mount wirewound resistors and is especially suited for harsh environment applications where heat and vibration are of concern.

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"Based on discussions with design engineers with several customers, we identified a need for an extended surge component to serve in demanding safety critical applications," explained David Winkler, IRC-WAFT Product Manager. "We developed a new product combining the economical cost structure of a film component and the surge capability needed by these customers. This resistor is especially attractive as a replacement for high cost surface mount wirewound resistors."

The HSF Series features a MetalGlaze™ thick film element fired at 1,000ºC to a solid ceramic substrate and a high temperature dielectric coating ideally suited for harsh automotive and industrial applications. The rugged HSF resistor is fully rated to 1 watt @ 70ºC with a maximum operating temperature of 150ºC. Available in resistance ranges from10Ω to 10KΩ with 10% tolerance, the part features TCRs of ±50 and ±100ppm/ºC. Devices outside these specifications may be available for special applications.

Typical pricing for the HSF resistor is $0.14 to $0.16 each in quantities of 100K pieces with lead times from 6-8 weeks.

For additional information about the IRC Wirewound and Film Technologies Division contact them at 828-264-8861,via mail at P.O. Box 1860 Boone, N.C. 28607, e-mail at waft.sales@irctt.com, or visit IRC on the web at www.irctt.com.

IRC Inc. is a leading international manufacturer of advanced film, metal glaze and wirewound resistive products with facilities in Boone, N.C.; Smithfield, N.C.; Barbados, West Indies; and Corpus Christi, Texas. IRC is part of TT electronics plc, a leading global electronics company manufacturing a range of specialist products, including electronic passive components, electromechanical and electronic assemblies and sensor modules for the automotive, telecommunications, computer, medical and aerospace markets. TT electronics' Web site can be found at: www.ttelectronics.com.

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