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Discrete, network resistors ideal for operation in harsh environments...

IRC'S FAMILY OF HIGH TEMPERATURE RESISTIVE DEVICES RATED TO 200°C FOR AUTOMOTIVE, AEROSPACE APPLICATIONS

CORPUS CHRISTI, TX (October 5, 2007) — Providing design engineers with a range of discrete and network resistive devices for applications requiring a high degree of stability and reliability, TT electronics IRC Advanced Film Division offers a comprehensive range of high temperature resistive products, including the PFC-HT Series chip resistor, PFC-HT Divider Series voltage divider, 1900 Series DIP resistor network and 4700 Series SIP resistor network. The devices are constructed using IRC's patented TaNFilm[®] self passivating resistive technology.

“We offer a full complement of high temperature packages, from discretes to high pin count networks,” said Jerry Seams, applications engineering manager for IRC Advanced Film Division. “By utilizing our TaNFilm technology, we are able to provide customers with a range of resistive products with the stability and reliability necessary for high temperature requirements—up to 200°C—including automotive underhood and aerospace applications.

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Additional applications for the high temperature products include satellites, down-hole instrumentation, and oil and gas well-logging equipment.

The PFC-HT Series chip resistors are available in 0603, 0805 and 1206 chip sizes, and feature a resistance range from 10Ω to $85K\Omega$, with tolerances to $\pm 1\%$ and absolute TCRs down to $\pm 25\text{ppm}/^\circ\text{C}$. Voltage and power ratings are $33.3\text{V}/62.5\text{mW}$, $50\text{V}/100\text{mW}$ and $100\text{V}/125\text{mW}$, respectively, with an operating temperature range of -55°C to $+200^\circ\text{C}$.

Resistance range for the 1206 PFC-HT Divider Series is 100Ω to $25K\Omega$ per resistor, with a power rating of 100mW per resistor, absolute TCR to $\pm 25\text{ppm}/^\circ\text{C}$ and a maximum voltage rating of 100V . Operating temperature ranges from -65°C to $+200^\circ\text{C}$.

The high temperature chip resistor and voltage divider feature wraparound non-leaching terminations, with either gold-plated or 100% tin (Pb-free) versions specifically designed to enable the devices to operate at elevated temperatures.

The 1900 Series DIP resistor network features a resistance range from 50Ω to $100K\Omega$, standard tolerances down to $\pm 0.1\%$, and available TCR down to $\pm 10\text{ppm}/^\circ\text{C}$. Operating temperature ranges from -55°C to $+150^\circ\text{C}$.

The 4700 Series precision SIP network has a resistance range of 20Ω to $400K\Omega$, standard tolerances down to $\pm 0.05\%$, and available TCRs to $\pm 50\text{ppm}/^\circ\text{C}$, $\pm 100\text{ppm}/^\circ\text{C}$ and $\pm 300\text{ppm}/^\circ\text{C}$. Voltage rating is 100V and power rating ranges from 0.36W to 1.08W , depending on pin count. Operating temperature ranges from -55°C to $+125^\circ\text{C}$.

IRC will also produce devices outside these specifications to meet customer requirements. Both the 1900 Series and 4700 Series devices are qualified to MIL-PRF-83401, while the PFC-HT and PFC-HT Divider products are qualified to MIL-PRF-55342.

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Please contact the IRC factory for pricing and lead time information for the high temperature products.

For datasheets or more information on IRC's high temperature products, please access the Web site at <http://www.irctt.com/products.aspx?frmCategory=29>. For additional information, please contact the TT electronics IRC Advanced Film Division Sales & Marketing Department at 361-992-7900; via mail at 4222 S. Staples St., Corpus Christi, TX 78411; or e-mail at afdsales@irctt.com.

IRC Inc. is a leading international manufacturer of advanced film, metal glaze and wirewound resistive products with facilities in Corpus Christi, Texas, Boone, N.C., Smithfield, N.C., and Barbados. IRC is part of TT electronics plc, a global electronics company manufacturing a broad range of advanced electronic components, assemblies and sensor modules for the automotive, telecommunications, computer and aerospace markets.

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To request the electronic image, call 919-872-8172, or e-mail: bgaddy@btbmarketing.com
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