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Special termination options make resistors ideal for extreme applications...

IRC'S HIGH TEMPERATURE CHIP RESISTORS RATED FOR 200° C OPERATION

CORPUS CHRISTI, TX (May 2, 2006) — Providing design engineers with a resistor suitable for extremely high operating temperatures, TT electronics IRC Advanced Film Division has developed a series of tantalum nitride chip resistors rated for operation at 200°C. Designated the PFC-HT Series, the chip resistors utilize IRC's proprietary TaNFilm® self-passivating resistive element technology, and feature a wraparound non-leaching termination style, with either gold-plated or 100% tin (lead-free) versions specifically designed to enable the devices to operate at elevated temperatures.

According to Jerry Seams, Applications Engineering Manager for IRC's Advanced Film Division, the PFC-HT Series chip resistors were designed for use at extremely high temperatures such as down-hole oil drilling sensing equipment.

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“In addition to designing the resistor itself for high-temperature operation, the challenge also included developing a method to attach to the PC board at such temperature extremes,” said Seams. “The resistors are available with either 100% tin or gold-plated terminations that will not reflow at 200°C, enabling engineers to use epoxies and solders designed for high temperature applications.”

In addition to the down-hole sensor measurement applications for which they were designed, Seams continued, the PFC-HT Series devices are also suitable for automotive engine compartment and aerospace applications.

Available in industry standard 0603, 0805 and 1206 chip sizes, the PFC-HT Series chip resistors have voltage and power ratings of 33.3V/62.5mW, 50V/100mW and 100V/125mW, respectively. Resistance range is from 10Ω to 85KΩ, with tolerances to ±1%. The resistors have absolute TCRs from ±25ppm/°C to 100ppm/°C, with an operating temperature range from -55°C to +200°C.

Pricing for the PFC-HT Series devices is \$0.30 each in quantities of 10,000. Lead time is from stock to 8 to 9 weeks.

For datasheets or more information on IRC's PFC-HT Series, please visit <http://www.irctt.com/pages/hightemp.cfm>. 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'S HIGH TEMPERATURE CHIP RESISTORS RATED FOR 200°C OPERATION, PG. 3

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: bpolizzotto@btbmarketing.com

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