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Cylindrical surge resistors provide stability and excellent thermal compliance...

IRC'S FAMILY OF POWER MELF RESISTORS RATED UP TO 2W FOR HARSH ENVIRONMENT APPLICATIONS

MUNICH, Germany (November 14, 2006) — Providing design engineers with a family of resistors designed specifically for surge and pulse applications, TT electronics IRC Wire and Film Technologies Division's family of power MELF resistors feature extended performance capability with ratings up to 2W. Consisting of the CHP, SMC and HSF Series resistors, the devices in the power MELF family all utilize IRC's Metal Glaze™ resistive element on ceramic substrates.

According to David Winkler, product manager for IRC's Wire and Film Technologies Division, the resistors in the power MELF family provide excellent thermal compliance as well as a variety of surge capabilities. "The rugged CHP and SMC Series resistors are rated up to 2W and provide maximum thermal compliance, while the HSF Series resistors offer as much as three times the surge rating of standard CHP resistors, which equates to up to 10 times the surge rating of similar-sized flat thick film chip resistors," said Winkler. "The range of capabilities allows customers to select the best device to provide stable performance in harsh environment applications."

The Metal Glaze thick film element on the CHP Series devices is fired at 1000°C to a solid ceramic substrate. The resistors feature power ratings of 1/4W, 1/2W, and 1W @ 70°C and 2W at 25°C. Resistance values range from 0.2Ω to 2.2MΩ with standard tolerance to ±0.5%, maximum voltage of up to 1000V and TCRs to ±25ppm/°C.

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The SMC Series resistors feature metal caps fitted on the terminals of the cylindrical resistor body to give the devices exceptional thermal compliance. The resistors have a maximum power rating of 1W at 70°C for the 2512 package and 2W @ 70°C for the 3610 size. Resistance range is 1Ω to 2.0MΩ , with standard tolerance to ±1%, and TCRs to ±50ppm/°C.

The HSF Series resistors feature an unspiralled thick film element and are designed to fit within the footprint of a standard 2512 chip. Power rating is 1W @ 70°C and working voltage is 350V. The following resistance values are offered: 5.9Ω, 11Ω, 27Ω, 68Ω, and 270Ω, with a tolerance of ±10%, and TCRs to ±50ppm/°C.

Maximum operating temperature for the resistors is +150°C. IRC will also produce devices outside these specifications to meet customer requirements.

Typical pricing for the power MELF resistors is approximately \$0.18 each in quantities of 10K. Lead-time is from stock to 4 to 6 weeks.

For additional information on IRC's power MELF family or to discuss design options, contact the TT electronics IRC Wire and Film Technologies Division at +1-828-264-8861, via mail at 736 Greenway Road, Boone, N.C. 28607, e-mail at waftsales@irctt.com, or visit IRC on the web at <http://www.irctt.com/pages/surgepower.cfm>.

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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. TT electronics' Web site can be found at: www.ttelectronics.com.

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Datasheet: <http://www.irctt.com/pages/surgepower.cfm>