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Current sense chip resistors ideal for automotive, high power applications…

IRC'S SURFACE MOUNT CHIP RESISTORS FEATURE LOW RESISTANCE AND HIGH POWER CAPABILITIES IN SMALL PACKAGE

CORPUS CHRISTI, TX (September 7, 2007) — Providing power electronics design engineers with high power devices for space-constrained applications, TT electronics IRC Advanced Film Division offers a 3W surface mount chip resistor. Designated the LRF3W Series, the chip resistors are offered in a package size traditionally rated at 1W.

"The surface mount resistors, in a 1225 package, have terminations on the long end of the devices, creating a low inductance part and resulting in less stress on the solder joints," said Gary Bleasdell, thick film business unit director for IRC's Advanced Film Division. "The thermal properties of the chip are also much better than traditional designs, allowing it to be rated to 3W as opposed to 1W."

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Because of its high power rating in the space-saving package, the LRF3W Series resistor is ideal for high current-sensing applications including fuel-gauging and over-current detection, AC/DC power supplies and VRMs, motorized seats, power windows, seat heaters and automotive fuel pump collision cut-off.

The LRF3W Series chip resistor features a resistance range from 0.002Ω to 0.100Ω, with absolute tolerances of ±1%, ±2%, ±5% and ±10%. Power dissipation is up to 3W at 70°C, with TCR as low as ±100ppm/°C. Operating temperature ranges from -55°C to +150°C. The chip resistors feature leach-resistant wrap-around terminations with either tin/lead or lead free matte tin over nickel plating. IRC will also produce devices outside these specifications to meet customer requirements.

Pricing for the LRF3W Series chip resistor is $0.20 at 1800-piece MOQ. Please contact the factory for lead times.

For datasheets or more information on IRC's LRF3W Series surface mount chip resistor, please access the Web site at http://www.irctt.com/products.aspx?frmCategory=22. 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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