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Unspiraled resistor exhibits superior surge protection, provides compact alternative to larger through-hole components...

IRC'S SURFACE MOUNT RESISTOR MEETS GR1089 LIGHTNING STRIKE SPECIFICATIONS

BOONE, NC (December 21, 2006) — Providing telecommunications design engineers with a surface mount device that is less susceptible to surges, TT electronics IRC Wire and Film Technologies Division has certified their HSF Series resistor to meet or exceed GR1089 lightning strike specifications. The HSF Series resistor provides secondary lightning protection for board-level telecom applications.

According to David Winkler, product manager for IRC's Wire and Film Technologies Division, conventional devices that meet the GR1089 lightning strike specification are relatively bulky through-hole wirewound components. "Not only does the HSF Series resistor provide engineers with a smaller surface mount option, but it is as capable of handling strong surges as many larger devices," said Winkler. "Meeting the specifications of the lightning strike portion of the GR1089 standard gives engineers the reliability they need for their telecommunications equipment."

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“Typical thick film devices are more vulnerable to surges because the trimmed path of the resistive element provides a failure point where the resistor material narrows,” Winkler continued. “The HSF Series resistor is unspiraled, completely removing this failure mode under these types of strikes, even in the lower resistance values where power is maximized. When the components were subjected to 1000V with the standard 10 x 1000 μ second profile, the HSF products realized a resistance change of less than 0.2%.”

The HSF Series resistors feature a power rating of 1W at 70°C and a working voltage of 350V. The device is available in resistance values of 5.9 Ω , 11 Ω , 27 Ω , 68 Ω , and 270 Ω , with a tolerance of $\pm 10\%$, and TCRs to ± 50 ppm/°C. Maximum operating temperature is +150°C. IRC will also produce devices outside these specifications to meet customer requirements.

Typical pricing for the HSF Series 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 HSF Series resistors or to discuss design options, contact the TT electronics IRC Wire and Film Technologies Division at 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/products.aspx?frmCategory=37>.

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

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Datasheet: http://www.irctt.com/file.aspx?product_id=70&file_type=datasheet