



**FOR IMMEDIATE RELEASE, BN708
March 20, 2006**

*For more information, contact:
David Winkler, Product Manager
828-264-8861
david.winkler@irctt.com*

*Beth Polizzotto, BtB Marketing
Communications
919-872-8172
bpolizzotto@btbmarketing.com*

High voltage resistors ideal for voltage divider circuits in power supplies...

IRC'S RUGGED PRECISION RESISTOR RATED UP TO 20,000V FOR MEDICAL, MILITARY AND INDUSTRIAL APPLICATIONS

BOONE, N.C. (March 20, 2006) — Providing design engineers with a precision high voltage power resistor capable of measurement and control functions in high voltage power electronics applications, TT electronics IRC Wirewound and Film Technologies Division has developed a rugged thick film resistor with voltage ratings up to 20KV. Designated the CGH/CMH Series, the resistors utilize IRC's proprietary thick film MetalGlaze™ resistive element which provides ideal stability, precision, and high voltage characteristics for a wide range of high power applications.

According to David Winkler, product manager at IRC's Wirewound and Film Technologies Division, the CGH Series resistors are ideal for use in voltage divider circuits in high voltage power supplies. "The resistors exhibit a low VCR (voltage coefficient of resistance), giving them excellent stability to provide accurate voltage measurements," said Winkler. "And precision can be further enhanced by ordering the resistors as matched pairs to provide divider accuracy down to $\pm 0.1\%$." The CGH Series can also be used as a high voltage bleeder resistor to safely discharge voltage in a power supply, Winkler continued.

- more -

IRC'S RESISTOR RATED UP TO 20KV FOR MEDICAL, MILITARY AND INDUSTRIAL APPS, PG. 2

Additional applications for the CGH Series high voltage resistors include: medical and laboratory applications, such X-ray machines, CAT scans, and particle detectors and accelerators; military devices, such as radar power supply and night vision image intensifiers; digital transmission in broadcasting; and industrial applications, including laser controllers, vacuum processing, and electron-beam welding, evaporation and deposition.

The CGH Series resistors have power ratings from 1/4W to 5W, and are available in resistance values ranging from 100k Ω to 2000M Ω at tolerances down to $\pm 0.5\%$; with TCRs down to ± 50 ppm/ $^{\circ}$ C. Voltage rating ranges from 750V to 20KV.

IRC will also produce devices outside these specifications to meet customer requirements. The high reliability version, designated the CMH Series, is military approved to MIL-R-49462 (type RHV) for all values from 0.25W through 5W.

The CGH Series resistors are constructed by applying IRC's proprietary MetalGlaze™ thick film resistive material to a high alumina ceramic core and fired at 1000 $^{\circ}$ C, giving the resistor its inherent ruggedness under extreme environmental conditions. After precision laser trimming, the resistors are epoxy-encapsulated.

Typical pricing for the CGH Series resistors ranges from \$1.25 to \$4.00, depending on wattage, in quantities of 10,000. Lead-time is from stock to 4 to 6 weeks.

For additional information on IRC's CGH Series resistors or to discuss design options, contact the TT electronics IRC Wirewound and Film Technologies Division at 828-264-8861, via mail at 736 Greenway Road, Boone, N.C. 28607, e-mail at waftsales@ircctt.com, or visit IRC on the web at www.ircctt.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. TT electronics' Web site can be found at: www.ttelectronics.com.

– 30 –

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

Keywords: TT electronics, IRC, CGH, CMH, resistor, high voltage, high reliability

URL: http://www.ircctt.com/pdf_files/CGH.pdf