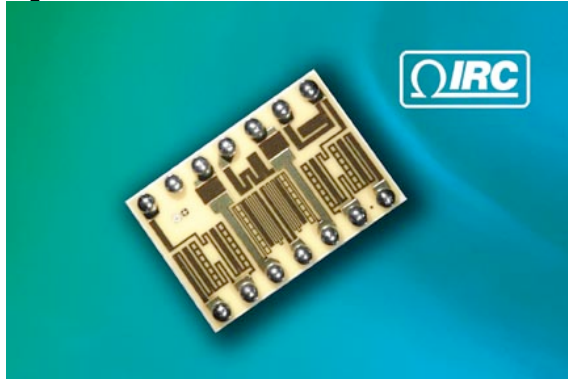


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*For more information, contact:
Jerry Seams, Applications Engineer
IRC, Inc.
361-985-3132
jerry.seams@ircct.com*

*Beth Gaddy, BtB Marketing
919-872-8172
bgaddy@btbmarketing.com*

Ceramic BGA provides tight tolerances, ratios...

IRC'S PRECISION CERAMIC BGA PACKAGED RESISTOR NETWORKS ELIMINATE PARASITIC EFFECT, SHUNT RESISTANCE

CORPUS CHRISTI, TX (April 24, 2007) — Providing design engineers with a precision device for applications requiring tight tolerances and ratios, TT electronics IRC Advanced Film Division has developed a series of precision resistor networks in a ceramic ball grid array package. Designated the CHC-Precision Series, the BGA package features all circuits on the bottom side of the device in order to eliminate wrap-around terminations.

According to Jerry Seams, new business development and applications engineer for IRC Advanced Film Division, the design of the CHC-Precision BGA package provides customers with several advantages. "The single-sided monolithic design allows us to eliminate parasitic effects due to wrap-around terminations," said Seams. "Additionally, with a high precision device such as this, it is essential to be able to wash under the component in order to eliminate the detrimental shunting effects of uncleaned assembly process residues."

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IRC'S PRECISION CERAMIC BGA ELIMINATES PARASITIC EFFECT, SHUNT RESISTANCE, PG. 2

The CHC-Precision Series BGA Series networks are ideal for industrial applications, process control and monitoring, medical equipment, instrumentation and metering.

The CHC-Precision BGA Series resistor networks are available in 8- and 16-pad packages. The ball grid array features a resistance range from 10 Ω to 100K Ω , with a maximum working voltage of 50V. The device features TCR tracking to ± 5 ppm/ $^{\circ}$ C, ratio tolerances to $\pm 0.05\%$, absolute tolerances to $\pm 0.1\%$, and absolute TCRs to ± 25 ppm/ $^{\circ}$ C. Operating temperature range is -55 $^{\circ}$ C to +150 $^{\circ}$ C. IRC will also produce devices outside these specifications to meet customer requirements.

The CHC-Precision Series ball grid array utilizes IRC's patented TaNFilm[®] (tantalum nitride) technology. IRC's TaNFilm process produces precision tantalum nitride thin film resistive elements that are immune from corrosion problems in humid environments. The self-passivating properties of tantalum nitride result in a more stable, reliable resistive device. This process allows IRC to manufacture custom circuit configurations and multiple resistance values without compromising tight tolerance or tracking characteristics.

Pricing for the CHC-Precision Series BGA package is \$1.00 each in quantities of 10K pieces. Lead time is from stock to 10 weeks ARO.

For datasheets or more information on IRC's CHC-Precision Series BGA, please access the Web site at <http://www.irctt.com/products.aspx?frmCategory=45>. 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.

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IRC'S PRECISION CERAMIC BGA ELIMINATES PARASITIC EFFECT, SHUNT RESISTANCE, 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: bgaddy@btbmarketing.com

Keywords: TT electronics, IRC, CHC-Precision Series, Precision, BGA, Ceramic
URL: <http://www.irctt.com/products.aspx?frmCategory=45>