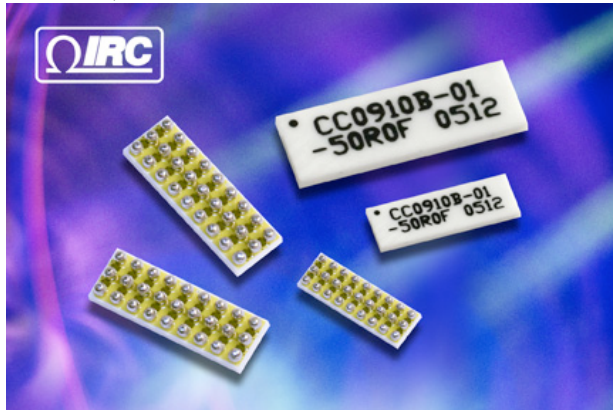


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Single-side BGA construction eliminates exposed signal path for pirates' probes...

IRC'S BALL GRID ARRAY PACKAGE DESIGN PREVENTS CONTENT PIRACY IN DIGITAL CONSUMER ELECTRONICS APPLICATIONS

CORPUS CHRISTI, TX (June 13, 2006) — Providing design engineers with an additional layer of protection against digital content piracy, TT electronics IRC Advanced Film Division has developed a high speed digital termination ball grid array package designed to prevent signal theft in consumer electronics devices. Designated the CHC Series, the company's BGA termination network is constructed with no exposed conductors, making it difficult for would-be content pirates to probe after mounting.

“Unlike our competitor's devices which include vias that run from the ball terminations on the bottom of the device to the top of the device where they can be probed, our CHC ball grid arrays are constructed with all of the termination balls and circuitry on the bottom side of the device,” said Jerry Seams, new business and applications engineering manager for IRC's Advanced Film Division. “Not only is there no way to probe the top side to steal digital content, but the elimination of vias provides better high frequency performance. In addition, our single sided BGA design reduces assembly cost by eliminating the need for top-side epoxy protection.”

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IRC's BGA PACKAGE PREVENTS CONTENT PIRACY IN CONSUMER ELECTRONICS APPS, PG 2.

The CHC Series ball grid array package is ideal for manufacturers of set-top boxes, digital TVs, personal video recorders, DVD players and other digital consumer electronics.

The CHC Series termination network is constructed with IRC's TaNFilm® process, which produces precision tantalum nitride thin film resistive elements that are immune from corrosion problems common to nichrome resistors in humid environments. The self-passivating properties of tantalum nitride result in a more stable, reliable resistive device.

The CHC Series arrays feature resistance ranges of 10Ω to 10KΩ with an absolute tolerance to ±1%. Absolute TCRs are ±100ppm/°C. Element power rating for the array is 100mW at 70°C with package power ratings to 1.6W at 70°C. Operating voltage is 25V and operating temperature range is from 0°C to +125°C. IRC will also produce devices outside these specifications to meet customer requirements.

Pricing for the CHC Series devices is \$1.00 each in quantities of 10,000. Lead time is from stock to 10 weeks.

For datasheets or more information on IRC's CHC Series ball grid array package, please access the Web site at <http://www.irctt.com/pages/highfrequency.cfm>. 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

Keywords: TT electronics, IRC, CHC Series, BGA Package, Anti-Piracy, TaNFilm

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