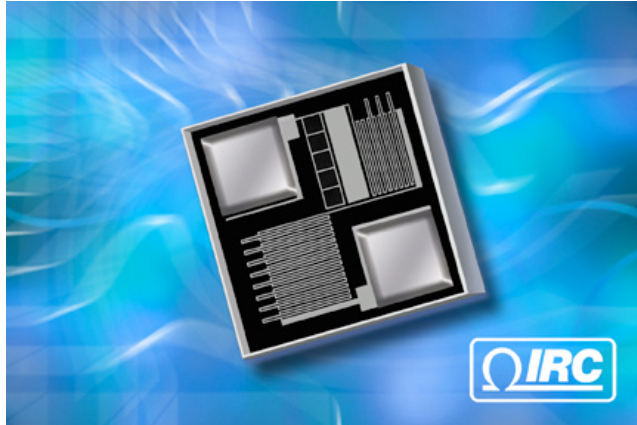


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*Ultraminiature silicon resistors provide stability in demanding hybrid circuit applications...*

## **IRC'S WIRE BONDABLE CHIP RESISTORS EXTEND RESISTANCE RANGE TO 400K $\Omega$**

CORPUS CHRISTI, TX (November 1, 2005) — Providing design engineers with tantalum nitride based resistors on silicon suited for the most demanding hybrid applications, TT electronics IRC Advanced Film Division has introduced a series of wire bondable chip resistors. Designated the WBC Series, the resistors feature IRC's self-passivating tantalum nitride thin film technology on silicon substrates.

According to Dr. Debasis Roy, Director of IRC Advanced Film Division's Thin Film Business Unit, the WBC Series resistors have a resistance range that is unmatched by any competitor. "We have extended the resistance values for these resistors to range from 10 $\Omega$  to 400K $\Omega$ ," he said. "The extended range allows for better surge protection in higher power applications, such as hybrid circuits." The tantalum nitride film provides precision tolerance and exceptional TCR tracking, Dr. Roy continued. Absolute tolerance ranges are down to  $\pm 0.1\%$ , with absolute TCRs to  $\pm 25\text{ppm}/^\circ\text{C}$ .

- more -

## **IRC'S WIRE BONDABLE CHIP RESISTORS EXTEND RESISTANCE RANGE TO 400KΩ, PG 2.**

IRC's self-passivating tantalum nitride resistor film provides excellent stability over time and temperature, giving the WBC resistors exceptional power dissipation.

The wire bondable chip resistors are available in 0202 and 0303 chip sizes. The 0303 center-tapped chips can be used in feedback circuits of amplifiers, where ratio matching, high power and close tracking between two resistors is critical.

As with all IRC products, devices outside these specifications can be produced to meet specific customer requirements. Pricing for the WBC Series resistors typically starts at \$1.00 in quantities of 1,000 pieces.

For more information on IRC's WBC Series resistors or to discuss design options, 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; e-mail at [afdsales@irctt.com](mailto:afdsales@irctt.com) or visit the IRC Web site at [www.irctt.com](http://www.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: [bpolizzotto@btbmarketing.com](mailto:bpolizzotto@btbmarketing.com)***

Keywords: TT electronics, IRC, WBC Series, resistors, TaNSil

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