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*Custom high frequency resistive substrates available to design engineers in two weeks...*

## **IRC PROVIDES FAST TURN-AROUND TIME FOR HIGH FREQUENCY SUBSTRATE ORDERS**

CORPUS CHRISTI, TX (July 1, 2005) — Providing design engineers with a simple, quick option for obtaining production quantities of high frequency resistive substrates in as little as two weeks, TT Electronics IRC Advanced Film Division has developed a method to reduce turn-around time from order to product delivery. IRC's high frequency substrates are custom built to each customer's requirements, and are available with solderable or wire bondable conductors.

In addition to high frequency performance up to 40Ghz, IRC's patented TaNFilm<sup>®</sup> tantalum nitride thin film resistive elements provide stability over time and temperature to ensure accuracy, even in moist environments where other materials can experience corrosion problems. IRC supplies its precision thin film technology on either silicon or ceramic substrates, depending on the customer's design requirements.

## **IRC PROVIDES FAST TURN-AROUND FOR HF SUBSTRATE ORDERS, PG 2**

“Our timetable is a real asset to design engineers,” said Kevin Palmer, regional sales manager for IRC AFD. “A design engineer just needs to supply us with a substrate drawing, preferably in AutoCad, Gerber or GDSII, and we’ll turn around production quantities in as little as two to three weeks. Because of our experience with high frequency thin films, our engineering and manufacturing teams were able to shorten the production time and cost without sacrificing the quality of the product.”

IRC’s application engineers are also available to assist customers in developing more complex substrate designs, Palmer continued.

IRC uses advanced photolithographic and plasma-etching techniques to produce conductor track and gaps down to 19 microns, plated through vias and edge terminations necessary for performance in microwave and high frequency applications. Thin film elements can be laser trimmed to tolerances as tight as  $\pm 0.1$  percent.

IRC’s TaNFilm tantalum nitride thin film technology provides the superior reliability and high frequency performance essential to the automotive, medical, industrial, computer, aerospace and telecommunications markets. With applications ranging from collision detection radar systems in automobiles to deep tissue heating for medical applications, IRC thin film technology provides solutions for a broad spectrum of industries and applications.

Because most applications are custom, pricing and minimum order quantity are available upon request.

### **IRC PROVIDES FAST TURN-AROUND FOR HF SUBSTRATE ORDERS, PG 3**

For more information on IRC's high frequency thin film resistive products, contact the TT Electronics IRC Advanced Film Division Sales and 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 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, North Carolina, Smithfield, North Carolina, 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)*

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