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*Microwave substrates now available in 0.010 inch thickness...*

## **IRC ENHANCES THIN FILM MICROWAVE CIRCUITS WITH POLISHED CERAMIC SUBSTRATES**

CORPUS CHRISTI, TX (January 24, 2006) — Providing design engineers with better edge definition on transmission lines and distributed circuit elements, TT electronics IRC Advanced Film Division has enhanced its thin film microwave circuit capabilities with polished ceramic substrates. Now available in 0.010 inch thickness, the polished substrates reduce propagation delay due to shorter signal paths.

According to Jerry Seams, Applications Engineering Manager for TT electronics IRC Advanced Film Division, the polished ceramic results in reduced in-circuit transmission line losses. “The polished ceramic provides approximately 0.2dB improvement in line loss per inch on 0.025 inch thick alumina transmission line,” said Seams. “Additionally, the 0.010 inch thickness of the substrate allows for smaller circuit and element geometries, as well as reduced circuit size.”

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## **IRC ENHANCES THIN FILM CIRCUITS WITH POLISHED CERAMIC SUBSTRATES, PG. 2**

Other standard finish thicknesses are available in 0.015”, 0.020” and 0.025”, Seams continued. Polished ceramic substrates are available in 0.010”, 0.015” and 0.025” thicknesses.

Typical applications for the polished ceramic substrates include routers and switches, servers, computers, and microwave telecom links, as well as wireless applications. The substrates are also suitable for RF and microwave applications, including military, radar, avionics, and satellites.

Pricing for the polished ceramic substrates varies with complexity and volume. Lead time for the devices is from stock to 2 to 6 weeks.

For datasheets or more information on IRC’s polished ceramic microwave circuits, please visit <http://www.irctt.com/microwave/index.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](mailto: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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**URL: <http://www.irctt.com>**