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*Thick film military chips ideal for high reliability avionics, communications systems...*

## **IRC'S THICK FILM RESISTORS MEET MIL-PRF-55342 R LEVEL REQUIREMENTS**

CORPUS CHRISTI, TX (April 17, 2007) — Providing design engineers with a reliable U.S.-based source for military-qualified thick film resistors, TT electronics IRC Advanced Film Division has qualified their thick film resistors to “R” level military requirements. Designated the TMC Series, the general purpose thick film military chip resistors conform to MIL-PRF-55342 standards.

According to Gary Bleasdel, thick film business unit director for IRC's Advanced Film Division, R level equates to a failure rate of 0.01% or less for a specified device, and IRC's TMC Series resistors have reached this qualification. “The qualification process involves the accumulation of more than 9 million device hours of testing without any failures to be certified to R level,” said Bleasdel. “Having MIL-qualification for our thick film chip resistors is a great complement to our thin film resistor line, which has been military-qualified to “S” level for a number of years.”

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## **IRC'S THICK FILM RESISTORS MEET MIL-PRF-55342 R LEVEL REQUIREMENTS, PG. 2**

The TMC Series chips are ideal for high reliability applications, including military and aerospace systems, weapon systems, aircraft and communication equipment.

The TMC Series thick film military chip resistors are available in 1206 Mil/7, 2010 Mil/8, and 2512 Mil/9 package sizes. Resistance ranges from 5.62Ω to 1MΩ for the 1206 chip, and 5.62Ω to 15MΩ for the 2010 and 2512 packages. Operating temperature range is -55°C to +150°C. The TMC Series chip resistors are qualified to K and M characteristics.

In addition to their thick film military products, IRC's thin film PFC Series military chips have met MIL-PRF-55342 "S" level failure rate (0.001%) for a number of years. The PFC Series resistors are qualified to K and M characteristics. The PFC chips are also qualified to DSCC 94015 and 94016 moisture resistance specifications. IRC AFD also has a number of military-qualified resistor network products available under MIL-R-83401.

The addition of the TMC Series chip resistors rounds out IRC Advanced Film Division's military product offering.

Pricing for the custom TMC Series chip resistors is available upon request.

For datasheets or more information on IRC's thick film military chip resistors, please access the Web site at <http://www.irctt.com/pages/military.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).

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### **IRC'S THICK FILM RESISTORS MEET MIL-PRF-55342 R LEVEL REQUIREMENTS, 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](mailto:bgaddy@btbmarketing.com)*

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Datasheet: <http://www.ircct.com/pages/military.cfm>