

**FOR IMMEDIATE RELEASE, BN912**  
**February 17, 2009**

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*Open-air design, flexible leads isolate hotspots from PC board, prevent thermal damage...*

## **IRC DEVELOPS OPEN AIR CURRENT SENSE RESISTORS WITH EXTENDED POWER RATINGS, SUPERIOR THERMAL PERFORMANCE**

WASHINGTON, D.C. (February 17, 2009) — Providing design engineers with a robust current sense device with enhanced thermal performance capabilities, TT electronics IRC has expanded its family of open-air current sense resistors. Designated the OARS-3 Series, the metal alloy strip resistors feature a flameproof open-air surface mount design, providing superior thermal temperature cycling and allowing the resistors to operate to power ratings of at least 3 watts.

According to IRC Application Engineer Bryan Yarborough, recent thermal testing has shown that unlike other resistor technologies, the OARS-3 Series resistor will not experience degradation of performance at extreme temperatures. Although the part was originally specified for a maximum of 3 watts at 70°C, the resistor is capable of handling to 4 watts under ambient conditions and without forced air. The unique construction of the resistor, including the open-air design and flexible leads, isolates the hotspot from the circuit board material, preventing circuit board damage.”

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## **IRC'S OPEN AIR SENSE RESISTORS WITH EXTENDED POWER RATING, PG. 2**

The flameproof OARS-3 Series resistor consists of a heavy gauge metal resistance alloy with solder compliant copper terminations. The open-air resistors are ideal for surge and pulse circuits, AC power applications, current sensing and feedback circuits while presenting a low inductance signature.

The OARS-3 Series resistors feature a resistance range from 2mΩ to 15mΩ, with tolerance to ±1% or ±5%. Inductance values are less than 10 nanohenries, with operating temperatures ranging from -40°C to >125°C. RoHS-compliant and zero ohm jumper versions are also available.

Typical pricing for OARS-3 Series resistors is approximately \$0.75 each in minimum order quantities of 1900 pieces. Lead time is from stock to 12 weeks.

For additional information on IRC's OARS-3 resistors or to discuss design options, please access the Web site at <http://www.irctt.com/products.aspx?frmCategory=22>. For additional information, please contact the TT electronics IRC 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. TT electronics' Web site can be found at: [www.ttelectronics.com](http://www.ttelectronics.com).

*To request the electronic image, call 919-872-8172, or e-mail: [beth.gaddy@btbmarketing.com](mailto:beth.gaddy@btbmarketing.com)*

Keywords: TT electronics, IRC, OARS-3, resistor, open air, current-sense, power rating, thermal expansion, thermal isolation

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