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Divider features extended resistance range, provides superior alternative to matched sets...

IRC ENHANCES SOT23 VOLTAGE DIVIDER FOR PRECISION APPLICATIONS

LAS VEGAS, NV (May 12, 2009) —Providing design engineers with an ultra-stable, compact alternative to discrete resistor matched sets for high reliability divider circuits, TT electronics IRC has enhanced its SOT23 surface mount voltage divider for space-constrained applications. The new DIV23 Series voltage divider utilizes IRC's patented self-passivating TaNFilm[®] (Tantalum Nitride) on silicon technology and features an extended resistance range to 200KΩ.

“Tantalum nitride technology does not dissolve when exposed to moisture and voltage, making it a much more stable solution for applications that require reliable performance even when exposed to harsh environments,” said Dr. Debasis Roy, director of thin film business unit for IRC's Advanced Film Division. “The stability, coupled with the device's extremely small footprint, makes the DIV23 voltage dividers ideal for ultra-sensitive applications, including those in the military and aerospace markets.”

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IRC's TaNFilm[®] process also enables custom circuit configurations and multiple resistance values without compromising tight tolerance or tracking characteristics. The precision surface mount voltage dividers can be used as input dividers in amplifiers for instrumentation, telecommunications, and avionics applications.

The DIV23 Series surface mount voltage dividers feature an element power rating of 100mW@70°C, with a package power rating of 1.0W@70°C. Resistance ranges from 10Ω to 200KΩ per resistor, with absolute tolerance to ±0.1% and R1 ratio tolerance to ±0.05%. Absolute TCR is to 25ppm/°C and tracking TCR is down to 2ppm/°C. Rated operating voltage is 100V. Operating temperature range is from -55°C to +125°C.

Housed in industry standard SOT23 packages, with R1 connecting to pin 1 and R2 connecting to pin 2, and measuring just 0.1125" x 0.051" with a board mounted profile of 0.0305", the DIV23 Series dividers are available in standard tape and reel packaging and are compatible with high speed assembly equipment and solder processes. The voltage divider is available with either RoHS-compliant or Sn/Pb terminations.

Typical pricing for the DIV23 voltage divider starts at \$0.59 each in minimum order quantities of 1K pieces. Lead time is from stock to 10 weeks.

For datasheets or more information on IRC's DIV23 voltage divider, please access the Web site at <http://www.irctt.com/products.aspx?frmCategory=33>. 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.

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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: beth.gaddy@btbmarketing.com

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