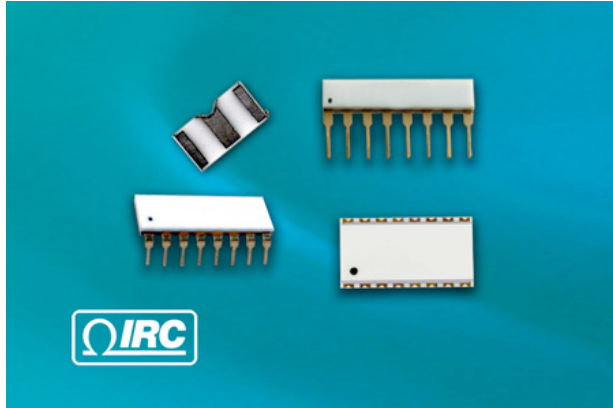


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High stability resistor networks ideal for medical instrumentation, process controls...

IRC DEVELOPS FAMILY OF PRECISION NETWORKS USING HIGH STABILITY TANTALUM ULTRIDE

CORPUS CHRISTI, TX (December 13, 2007) — In response to customers demands for increased stability, higher precision resistors, TT electronics IRC Advanced Film Division has developed a family of precision resistor networks using their Tantalum Ultride™ technology. Consisting of the SON-U, DIP-U, SIP-U and PFC-UD Series devices, the networks are constructed using IRC's Tantalum Ultride film material on high purity alumina substrates.

“Our ultra precision, high stability Tantalum Ultride film material was developed from our proprietary Tantalum Nitride (TaNFilm®) formulation,” said Jerry Seams, applications engineering manager for IRC Advanced Film Division. “Tantalum Ultride provides superior corrosion resistance to traditional nichrome films, as well as enhanced precision and stability. In addition, the Tantalum Ultride networks are constructed with no internal solder connections, so they are not susceptible to dendritic growth.”

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IRC DEVELOPS FAMILY OF ULTRA STABLE PRECISION RESISTOR NETWORKS, PG. 2

The ultra precision networks are ideal for medical applications, including CT machines, MRI, PET and ultrasound equipment; petrochemical exploration and data logging instruments; instrumentation and test instruments including DMMs, measurement bridges, strain gauge circuits and input attenuators; as well as missile guidance and military avionics.

The DIP and SIP networks feature a resistance range of 1K Ω to 100K Ω with a resistor element power rating of 0.040 watts @ 70°C. The SON and PFC-UD networks are offered in a resistance range of 1K Ω to 50K Ω , with a resistor element power rating of 0.025 watts @ 70°C. All four high stability networks feature absolute TCR to ± 10 ppm/°C and tracking TCR to ± 1 ppm/°C, with a voltage coefficient of < 0.1 ppm/volt. Absolute tolerance is to $\pm 0.02\%$ and ratio tolerance is to $\pm 0.01\%$. Operating temperature range is from -55°C to +125°C.

Networks are all custom devices and pricing and lead times vary as to the complexity of the device. Please contact the factory.

For datasheets or more information on IRC's precision resistor networks, please access the Web site at <http://www.irctt.com/products.aspx?frmCategory=45>. 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.

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.

To request the electronic image, call 919-872-8172, or e-mail: bgaddy@btbmarketing.com

Keywords: TT electronics, IRC, Tantalum Ultride, SIP, DIP, SON, PFC-UD, network, precision, stability

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