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*Corpus Christi facility to add production capacity for thick film surge resistors...*

## **SURFACE MOUNT PULSE WITHSTANDING CHIP RESISTORS FROM IRC PROVIDE 50% INCREASE IN POWER DISSIPATION**

CORPUS CHRISTI, Texas (February 23, 2005) – In response to design engineers' demands for smaller surface mount circuit protection resistors, TT Electronics IRC Advanced Film Division has developed a series of pulse withstanding thick film resistors with improved power ratings in reduced chip sizes. Designated the PWC Series, the thick film resistors deliver up to 50 percent higher power ratings than conventional thick film resistors—up to 1.5W in a standard 2512 size chip.

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## **IRC DEVELOPS PULSE WITHSTANDING CHIP RESISTORS, PG 2**

“As electronic design engineers have increased the power density of their equipment, the demand for smaller surface mount single-chip circuit protection resistors has also increased,” explained Gary Bleasdel, new business development manager for TT electronics IRC Advanced Film Division. “We developed the PWC Series resistors to provide an economical alternative to bulky molded wirewound components or multi-chip solutions that consume valuable board space and may require additional placement costs,” he said.

“To meet the increased demand for the PWC Series resistors, IRC’s Advanced Film Division will manufacture this product at its Corpus Christi, TX facility,” Bleasdel explained. “This will provide customers with a second source, since IRC’s sister division, Welwyn Components, also manufactures this part in the UK.”

Conventional thick film resistors typically provide power ratings up to 1W in a 2512 chip size. According to Bleasdel, IRC is able to boost this power rating up to 50 percent through a combination of proprietary thick film materials and advanced manufacturing processes.

Applications for the PWC Series resistors include telecommunications, switchgears, power supplies and circuit protection devices.

The PWC Series resistors are available in four standard sizes (0805, 1206, 2010 and 2512) with power ratings from 0.125W to 1.5W, and limiting element voltage ratings for 100V to 500V. Resistance range is from 1 $\Omega$  to 10M $\Omega$ , with tolerance down to 0.5 percent. TCRs are 100 ppm/ $^{\circ}$ C for values over 10 $\Omega$ , and the operating temperature range is -55 $^{\circ}$ C to +155 $^{\circ}$ C.

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## **IRC DEVELOPS PULSE WITHSTANDING CHIP RESISTORS, PG 3**

The pulse withstanding capability of the PWC Series resistors ranges up to 5kV for a 2512 size with 1.2/50 $\mu$ s and 10/700 $\mu$ s pulse shapes as defined by IEC 60-115-1. The resistors have a thick film resistor element with an overglaze and organic protection screen-printed on alumina substrate. Wrap-around terminations feature an electroplated nickel barrier and tin-lead solder coating, which ensure leach resistance properties and high temperature (260°) solderability.

Typical pricing for the chip resistors is \$0.29 in quantities of 10,000 with lead times of eight to ten weeks. IRC will manufacture products as necessary to meet demand and requests.

For more information on IRC's PWC resistors, or to discuss design options, 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; e-mail at [www.afdsales.com](http://www.afdsales.com) or visit the IRC Web site at [www.irctt.com](http://www.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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