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Anodized substrates enable LEDs to be used as replacement solutions for costly lighting...

IRC'S LED ASSEMBLIES ON ANOTHERM[®] SUBSTRATES REPLACE INCANDESCENT, FLUORESCENT LIGHTING

MUNICH, Germany (November 14, 2006) — Providing lighting system design engineers with a cost-effective replacement for conventional lighting sources, TT electronics IRC Advanced Film Division's Anotherm[®] technology is being specified for a variety of high-brightness LED illumination and display applications. The Anotherm substrates provide the necessary thermal management for LED operation and to prolong the lifespan of the LEDs.

“Our Anotherm substrates are being populated with LEDs and used as replacements for incandescent and fluorescent lighting in a variety of applications, including highway signs, bridges and road lighting,” said Tom Morris, applications engineering manager for IRC's Advanced Film Division. “The Anotherm technology efficiently conducts heat away from the LEDs, increasing their lifespan and light output. This is particularly beneficial for applications like highway signage, which often require the use of highway crew and an aerial “bucket” truck, making replacement an expensive chore.”

The Anotherm substrate material enables design engineers to mount visible LEDs and other components directly to it, so there is no need for attached heatsinks, mounting hardware and other associated costs, Morris continued.

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IRC'S ANOTHERM® SUBSTRATES REPLACE INCANDESCENT, FLUORESCENT LIGHTING, PG. 2

Additional applications for the Anotherm® substrates include gaming and vending machines, outdoor signage and displays, emergency vehicle lighting, and architectural and general lighting.

The assemblies are constructed using IRC's Anotherm technology, a thermally-conductive aluminum alloy substrate insulated by a thermally conductive, chemically grown, anodized dielectric layer, with solderable screen printed conductors applied to the anodized layer.

The Anotherm substrates feature an insulation system consisting of a thin layer of anodized aluminum oxide that is chemically grown on the aluminum core, producing a dielectric layer approximately 0.0014 inches thick (35µm), which provides an inorganic insulation that is not affected by temperature or chemical exposure. This rugged construction gives Anotherm technology the ability to operate in extreme temperatures – up to 175°C. Maximum operating voltage is 250VAC, and thermal impedance is characterized at 0.02°C/W. IRC's Anotherm substrates are available RoHS compliant.

For datasheets or more information on IRC's Anotherm technology, please access the Web site at www.irctt.com/anotherm. For additional information, please contact the TT electronics IRC Advanced Film Division Sales & Marketing Department at +1-361-992-7900; 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.

- 30 -

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URL: <http://www.irctt.com/anotherm>