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For more information, contact:
Wilson Hayworth, Product Manager
+1-828-264-8861
wilson.hayworth@irctt.com

Beth Gaddy, BtB Marketing Communications
919-872-8172
bgaddy@btbmarketing.com

Another[®] resistive fluid heater technology is more than 95 percent energy-efficient...

IRC'S WINDSHIELD WASHER FLUID HEATER MODULE PROVIDES INSTANT HEAT TO REMOVE ICE, TAR, AND OIL FILM FROM WINDSHIELDS

BOONE, N.C. (January 30, 2007) — Providing vehicle design engineers with an instant heating technology for automotive and transportation windshield washer applications, TT electronics IRC Wire and Film Technologies Division, in cooperation with AB Automotive Electronics, a division of TT electronics that specializes in automotive control designs, has developed a windshield washer fluid heater module that utilizes patent-pending technologies and construction designs. The module combines IRC's anodized aluminum substrate technology with a thick film resistive element to produce a tubular instant fluid heater. Unlike conventional "reservoir style" washer fluid heating systems, the Another[®] Windscreen Module does not use any power until heated fluid is required, resulting in an energy-efficiency of more than 95%.

According to Wilson Hayworth, product manager for IRC's Wire and Film Technologies Division, the windshield washer fluid heater provides heated fluid in about five seconds. "Due to the power limitations of most vehicles at 14.5Vdc, a preheat period of typically five seconds is required prior to the first fluid dispense. Our windscreen fluid heater module is able to provide this heat due to the low thermal mass of the system," said Hayworth.

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IRC'S WINDSHIELD WASHER FLUID HEATER MODULE PROVIDES INSTANT HEAT, PG. 2

“The Anotherm module heats quickly and evenly, thus it does not boil away additives such as methanol or ethanol, which are often added to improve the cleaning effectiveness and prevent the windshield washer fluid from freezing.” The heating system will be available for model year 2009 platform releases, Hayworth continued.

The Anotherm[®] Windscreen Module includes integrated controls and is packaged for underhood environments. Typical operation is 50A (maximum) at 14.5Vdc. The heated fluid effectively removes ice, tar, oil film and bugs from windshields.

IRC has extensive experience working with automakers and Tier One suppliers to provide automotive assemblies of this type to meet the demanding specifications of the automotive industry.

Pricing and lead times vary for the custom Anotherm Windscreen Modules.

For additional information on IRC's Anotherm Windscreen Module or to discuss design options, contact the TT electronics IRC Wire and Film Technologies Division at 828-264-8861, via mail at 736 Greenway Road, Boone, N.C. 28607, e-mail at waftsales@ircct.com, or visit IRC on the web at http://www.ircct.com/tfs/anotherm_product_applications.aspx.

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.

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

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URL: http://www.ircct.com/tfs/anotherm_product_applications.aspx