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**American Standard  
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# Press Release

## **American Standard Circuits, Inc Receives Second Technology Patent**

### ASC receives patent for Silicone based Thermally Conductive PCB Material

**West Chicago, IL July 7, 2009:** American Standard Circuits, Inc. (ASC) reported it has received its second technology patent from the United States Patent & Trademark Office. U.S. Patent **7,540,081** covers Thermasil Film which is used to bond high or low frequency printed circuit boards (PCB) to a metal heat sink with a thermally conducting electrically insulating silicone based film. Thermasil can be made to any thickness from 3 mil to 25 mil and thermal conductivity can be tailored from 1.5 to 4.5 W/mK. ASC will license this technology to companies and fabricators interested in using this technology.

“ASC has a successful track record in developing technology solutions for its customers. This invention continues to highlight ASC’s commitment to advancing technology and enhances our Thermal Management Solutions portfolio. This complements our Electrasil offering which is both thermally and electrically conductive. Thermasil provides customers with cost, performance and quick delivery advantages. Laminates of any size can be custom made. Our R&D team continues to work on green technologies, specifically, in the areas of LED and Solar technology,” said Anaya Vardya, CEO of American Standard Circuits, Inc.

Dr. Sandy Kumar, one of the co-inventors of Thermasil film, believes that Thermasil is ideally suited for critical thermal management in LEDs, power electronics, defense, telecommunication and solar photovoltaic technologies. PCBs bonded with Thermasil to the heat sink can quickly dissipate the heat from electronic devices without making any electrical contact to the heat sink. This interfacial film is stable up to 600 °F. Thermasil can also be made in putty form to fill in complex shapes and air cavities. Another variant of Thermasil is where components need to be quickly assembled-disassembled and permanent bonding is not allowed.

### **About American Standard Circuits**

*American Standard Circuits (ASC) prides itself in being a Total Solutions Provider and manufactures quality rigid, metal-backed and flexible printed circuit boards using various types of substrates for a variety of applications.*

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*These products can go into high speed computing, high frequency telecommunication ranging from aerospace to deep space, defense, LEDs and other heat sinks , as well as automotive electronics, and navigation devices. ASC takes customer product orders ranging from small test and prototype quantities to large volume production. We provide all of our technologies in a time critical environment. Our staff is made up of world class, highly experienced Ph.D. materials scientists, engineers and Six Sigma black belts. Company certifications include ISO 9001:2000, MIL 31032 and ITAR registration. To learn more, visit [www.asc-i.com](http://www.asc-i.com).*