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SBE awarded second Power Ring patent and fourth patent overall

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Barre, Vermont: SBE Inc (dba S B Electronics) announced today the awarding of its second patent for its Power Ring Film Capacitor™ Product technology, an annular form factor capacitor which it has been developing for the past 4 years. U.S. Patent Number 7,453,114 titled “Segmenting End Electrode Capacitor and Method of Segmenting an End Electrode of a Capacitor” details the invention of a critical reliability feature of the Power Ring Capacitor in Automotive and other Transportation applications. Such applications require the ability for capacitors to sustain thousands of temperature cycles from -40°C to 105°C (engine coolant) during their lifetime. Without the implementation of this patented design feature, the annular shaped capacitor is not capable of reliable operation over the expected temperature ranges and operating environment.

SBE is working with many industry leaders in the fields of Hybrid Automotive, Electric Vehicle and Fuel Cell Powertrains, Alternative Energy Power Management systems, and High Energy Industrial using the Power Ring and has successfully designed in the technology into leading-edge projects around the world. SBE has also been awarded a U. S. Department of Energy Innovation Research Grant to further develop this technology for the U.S. Government’s FreedomCAR Hybrid Vehicle and Plug-In Hybrid Vehicle programs.

The issuance of this patent enhances the position of the technology in these and other fields. Additionally, the company has a number of patents pending for additional technology and inventions in these market applications.

“The issuance of our second Power Ring patent clearly differentiates our technology as a reliable solution to the industry-wide focus of weight, volume, and cost reduction for Power Inverters” stated Edward Sawyer, President and CEO of SBE. “Our company brings a unique approach to this space and is demonstrating to the industry the significant technical advantages that we bring to these applications. We expect to field a reliable solution to the Automotive Industry quest of a 105°C Coolant Capable Inverter for HEV and PHEV systems as well as ‘raise the bar’ for all inverter applications”.

SBE Inc. designs and manufactures Capacitors and Capacitor Assemblies for the Electrical and Electronics Industries from its facilities in Barre, Vermont. Originally a Sprague Electric Plant, SBE has been a leader in the Film Capacitor market for over 50 years producing over a Billion capacitors. The company continues to produce many of its industry-leading standard Orange Drop® products while developing exciting new technology in the field of Inverter, High Energy, Pulse, and High Voltage Capacitors. More information is available on our website www.sbelectronics.com.



At the *Leading Edge* of Film Capacitor Technology™