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FOR IMMEDIATE RELEASE

## **Micropac Industries Develops DC-DC Converter**

**GARLAND (March 15, 2013)** – Micropac Industries, Inc. (MPAD) has developed a DC-DC converter that utilizes the Intersil 70001 point-of-load regulator as a core element. This announcement was made at the recent shareholder’s meeting held in Garland, Texas. The Micropac 56000 DC-DC converter is designed to provide up to 6A output current at voltages from 0.8 to 3.3V at up to 125°C. The TID and SEE radiation hardened converter uses current-mode control operating at 1 MHz. The baseplate is used as the heat sink for optimum thermal performance.

Because weight is a significant concern for space flight applications, the 56000 converter uses a light-weight open architecture that provides hermetic protection for the integrated circuits while positioning larger passive devices adjacent to the hermetically sealed IC’s, achieving a total weight of 30 grams.

The 56000 converter provides numerous features including:

- Programmable soft start.
- Power good indicator.
- Output under-voltage and over-current protection.
- Input under-voltage protection.
- Automatic restart after fault.
- Synchronized parallel operation for greater than 6 amp applications.

The 56000 converter provides significant benefits to the system designer including:

- Radiation tolerant.

- Reduced weight.
- Significant size reduction through the elimination of support circuitry.
- Simplified power conversion architecture.
- Guaranteed performance over temperature range and load conditions.
- Significant reduction in system design engineering cost.
- Reduces time to market.

The 56000 converter is designed to provide power for FPGA's, DSP's and Microcontrollers in satellite and space system applications.

### **About Micropac Industries**

Founded in 1963, Micropac Industries, Inc. is a diversified, high technology company located in Garland, Texas, specializing in high reliability microcircuit multi-chip modules, Hall Effect devices and optoelectronic components/assemblies. Micropac develops and manufactures complete custom designs to meet specific customer applications and requirements. Our products are being used throughout the world in a wide variety of military/aerospace, space, medical and industrial applications. Visit [www.micropac.com](http://www.micropac.com) for more information.

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