1000 N. Main Street
Mansfield, TX 76063
www.mouser.com

(817) 804-3800

For Immediate Release

EDITORIAL/READER CONTACT:
Ellie Rovai
Marketing Communications Manager
Mouser Electronics, Inc.
(817) 804-3857 Direct
(817) 804-3803 Fax
ellie.rovai@mouser.com

Mouser Electronics Now Stocking Microchip Technology's Selectable Gain Amplifiers

Programmable Amplifiers Reduce Component Count, Design Size, and Costs

Mansfield, Texas, USA – March 20, 2007 – Mouser Electronics, Inc., the only distributor to release a new catalog every 90 days, today announced it is stocking the first amplifiers with a gain-select pin in place of a negative-input pin, enabling digital gain control for better system accuracy and dynamic range from Microchip Technology.

"One of Mouser's core competencies is to rapidly stock and market new products for our design engineering customers," said Mike Scott, Mouser's Vice President of Active Components, "and Microchip's continuous release of new products like the MCP6G0x family, allows us to create added value for the engineer's new product designs."

The MCP6G02 amplifiers can be used as drop-in replacements for op amps, as microcontroller-controlled amplifiers or as stand-alone gain blocks, eliminating the need for external resistors and leading to reduced component count, design size, and costs.

These amplifiers feature a low-voltage operation range of 1.8V to 5.5V, low quiescent current of 110 microamperes, and a high bandwidth of 350kHz for 10 V/V, 250kHz for 50 V/V, and 900kHz at 1 V/V. With less than one percent, they have lower gain error than traditional op amp solutions that use expensive one-percent resistors. The devices enable designers to select gains of 1, 10 or 50 V/V simply by driving the gain-input pin to the high, low or high "Z" state with the microcontroller, or connecting it directly to Vcc, Vss or No-Connect for op amp drop-in replacement or stand-alone operation. Additionally, the amplifiers adjust internal compensation when higher gain is selected, providing greater bandwidth at a lower current.

This family offers low-power performance as stand-alone devices or as MCU-controlled amplifiers, while still fitting the standard operational amplifier footprint, allowing designers the ability to digitally control gain for improved system accuracy and dynamic range.

-- continued --

The internal feedback resistors of the MCP6G0x amplifiers are laid out in consideration of thermal gradient issues to reduce gain error over temperature. The devices are capable of extended-temperature operation and are ideal for battery-powered, handheld devices such as those used for industrial, consumer and medical applications.

About Mouser

Mouser Electronics, Inc. is an electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers. Mouser.com features over 755,000 products online from more than 325 manufacturers. Mouser's 1,800+ page catalog is published every 90 days, providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 280,000 customers in 170 countries from its 432,000 sq. ft. state-of-the-art facility in Mansfield, Texas. For more information, visit www.mouser.com.

About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller and analog semiconductors, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at www.microchip.com.

Trademarks