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Microchip Technology Debuts Low-Power, High-Precision Op Amps

Company Now Has an Extensive Offering of High-Precision Op Amps With Gain Bandwidth Product (GBWP) from 10 kHz to 50 MHz

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller and analog semiconductors, today announced three new families of low-power, high-precision operational amplifiers (op amps); meaning the Company now has an extensive offering of high precision Op Amps with Gain Bandwidth Product (GBWP) from 10 kHz to 50 MHz. The [MCP6051/2/4 \(MCP605X\)](#), [MCP6061/2/4 \(MCP606X\)](#) and [MCP6071/2/4 \(MCP607X\)](#) op amps feature offset voltages of just 150 microvolts and are well suited for applications requiring low power consumption, low-voltage operation and high precision, such as those in the industrial, medical, consumer and other markets.

Developed in response to market demands for op amps providing low power and lower offset voltages, the MCP605X/6X/7X op amps are trimmed in-package to enable their low offset voltage, which results in reduced error at high gains. The devices feature operating voltage from 1.8V to 6.0V, making them ideal for portable applications; and their rail-to-rail input and output provides greater dynamic range, even at lower operating voltages. Additionally, they are unity-gain stable and operate over the extended temperature range of -40 to 125 degrees Celsius.

"Microchip has again leveraged its low-power, CMOS technology to provide additional families of industry-leading op amps, with the MCP605X/6X/7X devices," said Bryan Liddiard, vice president of Microchip's Analog and Interface Products Division. "These new devices lead the industry with their combination of low power consumption and low offset performance, and are expected to enable new markets for Microchip in portable instrumentation."

Device-Specific Features

The MCP605X op amps have a GBWP of 385 kHz and a quiescent current of 30 microamperes. The MCP606X op amps have a GBWP of 730 kHz and a quiescent current of 60 microamperes. The MCP607X op amps have a GBWP of 1.2 MHz and a quiescent current of 110 microamperes.

All of the op amps are well suited for applications requiring low power consumption, low-voltage operation and high precision, such as portable instrumentation devices used in the industrial (portable gas detectors, pressure-monitoring devices, toll-booth tags, digital multimeters, RFID readers, bar-code scanners); medical (blood glucose meters, wearable heart-rate monitors and body-temperature measurement sensors); and consumer (gaming consoles, set-top boxes and portable audio players) markets.

Development Support

PCB footprints and schematic symbols are expected to be available in August 2009 from Microchip's Web site at <http://www.microchip.com/cad>. The downloads will be available in a neutral format that can be exported to the leading EDA CAD/CAE design tools using the Ultra Librarian Reader from Accelerated Designs Incorporated.

Packaging & Availability

The following table summarizes package options and 10K-unit quantity pricing for the MCP605X/6X/7X op amps. Samples can be ordered in late June 2009 from <http://sample.microchip.com>. Volume-production quantities can be ordered in late June 2009 from <http://www.microchipdirect.com>.

Product	Package Option(s)	10k-Unit Quantity Pricing
MCP6051	8-pin SOIC, 2 mm x 3 mm TDFN	\$0.50
MCP6052	8-pin SOIC, 2 mm x 3 mm TDFN	\$0.67
MCP6054	8-pin SOIC, TSSOP	\$1.21
MCP6061	8-pin SOIC, 2 mm x 3 mm TDFN	\$0.48
MCP6062	8-pin SOIC, 2 mm x 3 mm TDFN	\$0.63
MCP6064	8-pin SOIC, 14-pin TSSOP	\$1.18
MCP6071	8-pin SOIC, 2 mm x 3 mm TDFN	\$0.46
MCP6072	8-pin SOIC, 2 mm x 3 mm TDFN	\$0.62
MCP6074	8-pin SOIC, 14-pin TSSOP	\$1.16

For further information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at <http://www.microchip.com/opamps>.

Microchip Customer Support

Microchip is committed to supporting its customers by helping design engineers develop products faster and more efficiently. Customers can access four main service areas at <http://www.microchip.com>. The Support area provides a fast way to get questions answered; the Sample area offers evaluation samples of any Microchip device; microchipDIRECT provides 24-hour pricing, ordering, inventory and credit for convenient purchasing of all Microchip devices and development tools; finally, the Training area educates customers through webinars, sign-ups for local seminar and workshop courses, and information about the annual MASTERS events held throughout the world.

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, Ariz., Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at <http://www.microchip.com>.

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