

SOLUTIONS



Web Site: www.microchip.com

Microchip Technology Shrinks 2.5-volt Micropower Operational Amplifier into a Tiny SOT-23 Package

Microchip Technology's new MCP606 2.5-volt micropower operational amplifier in the tiny SOT-23 package provides a low pin count analog solution for space-constrained embedded applications.

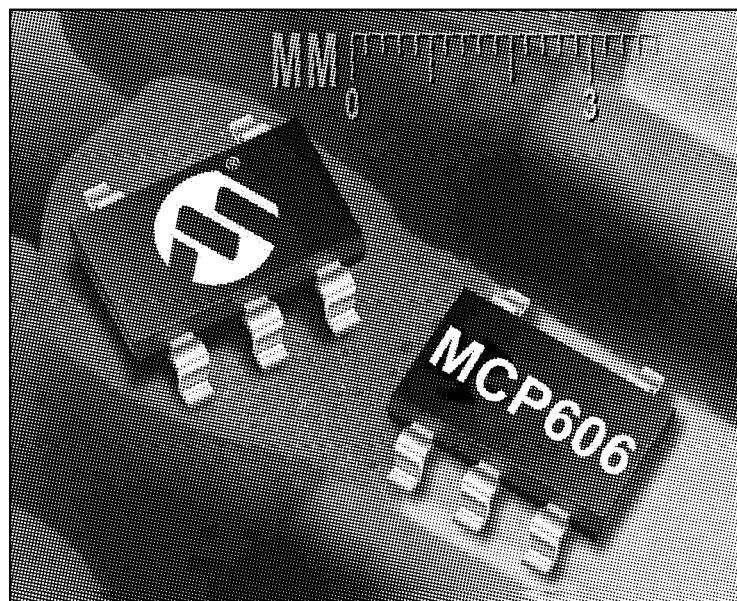
The MCP606 op amp offers significantly competitive offset voltage of less than 250 microvolts, which was achieved by offset voltage trimming using Microchip's non-volatile memory expertise.

The device features low supply current of 25 microamperes maximum with a single supply operation over the 2.5 to 5.5 volt range and a low bias current of one picoampere. The low offset voltage and bias current eliminate the need for offsetting circuitry in most applications, and the low supply current means less demand on the battery or power supply.

Available in a single operational amplifier configuration, the MCP606 features rail-to-rail swing at output and unity gain stability and is fully specified from -40°C to $+85^{\circ}\text{C}$ with power supplies from 2.5 volts to 5.5 volts.

Applications may include sensors, instrumentation, and battery-operated applications. The devices are an ideal solution for engineers who need low offset voltage, low supply current and low voltage operation in a small package.

To support the MCP606, Microchip offers the FilterLab[®] Active Filter Design Tool, which simplifies active filter design for embedded systems designers using op amps for analog filter purposes. Available at no cost from Microchip's website (www.microchip.com), the FilterLab software pro-



vides full schematic diagrams of the filter circuit with component values and displays the frequency response.

Pricing in 1,000-unit quantities is \$0.44 each for the MCP606. Samples and volume quantities are available today. The MCP606 data sheet can be found at <http://www.microchip.com/analog/opamps>

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

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