



Micropower 30 μ V Op Amp Settles in 15 μ S to 0.0015%

MILPITAS, CA – March 31, 2014 – Linear Technology introduces the [LT6020](#), a dual 3V to 30V fast settling operational amplifier, featuring 30 μ V maximum input offset voltage and 0.5 μ V/ $^{\circ}$ C max V_{OS} drift. While supply current is only 100 μ A maximum per amplifier, proprietary slew enhancement circuitry provides fast clean output step response. The LT6020 settles to 0.0015% in less than 15 μ s regardless of whether the output step is 5V or 25V. Specially designed input circuitry maintains high impedance, minimizing current spikes associated with fast steps for input steps up to 5V. Together these features make the LT6020 ideal for high precision multiplexed data acquisition systems, DAC buffer applications, and portable high precision instruments.

The LT6020-1 includes a shutdown mode, reducing the supply current to less than 3 μ A when the amplifier is in active. Enable time of 100 μ s and fast slew rate combine to provide power-efficient operation in duty-cycled applications, such as those featuring Linear Technology's Dust Networks[®] wireless sensor network technology.

Fully specified over the -40 $^{\circ}$ C to 85 $^{\circ}$ C and -40 $^{\circ}$ C to 125 $^{\circ}$ C temperature ranges, the LT6020 is available in MSOP-8 and 3mm x 3mm DFN packages. Prices start at \$1.85 each in quantities of 1,000 units. For more information, visit www.linear.com/product/LT6020

Photo Caption: Combines Low Power, High Precision & Fast Settling

Summary of Features: LT6020

- 30 μ V Max Input Offset Voltage (MSOP Package)
- 0.5 μ V/ $^{\circ}$ C Max Drift (MSOP Package)
- Excellent Slew Rate to Power Consumption Ratio
 - 5v/ μ s Slew Rate (10V Step)
 - 100 μ A Max Supply Current
- 3nA Max Low Input Bias Current
- 3V to 30V Supply Range
- Output Swings Rail-to-Rail
- -40° C to 125° C Specified Temperature Range
- 3 μ A Max Supply Current Shutdown Mode (LT6020-1)
- 8-Lead MSOP & 3mm x 3mm DFN Packages

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

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