



36V Ultralow Noise Precision Op Amp Features 30nV_{P-P} 0.1Hz to 10Hz Noise

MILPITAS, CA – August 17, 2016 – Linear Technology introduces the [LT6018](#), a precision op amp featuring 30nV_{P-P} 0.1Hz to 10Hz noise and 50μV max input offset voltage. Designed especially for applications sensitive to low frequency noise, the LT6018 has a very low 1/f corner frequency of less than 1Hz. The low input offset voltage holds over temperature and input common mode range: TCV_{OS} is 0.5μV/°C maximum and CMRR is 124dB minimum. Open loop gain is typically 142dB, enabling the device to achieve less than 1ppm nonlinearity.

The LT6018 has 15MHz gain-bandwidth product and employs slew enhancement circuitry to achieve up to 30V/μs slew rate. The part draws 7.2mA, which can be reduced during periods of non-use to 6.2μA using its shutdown pin.

The LT6018 is specified for operation from 8V to 33V supplies, for industrial (–40°C to 85°C) and extended (–40°C to 125°C) temperature ranges. It is available in SO-8E with exposed center pad for enhanced heat dissipation, and space-saving 4mm x 3mm DFN packages.

The LT6018 is priced starting at \$3.25 each in 1,000 piece quantities. For more information, visit www.linear.com/product/LT6018.

Photo Caption: Precision Op Amp Achieves 30nV_{P-P} 1/f Noise

Summary of Features: LT6018


- Ultralow Voltage Noise
 - 30nV_{P-P} Noise: 0.1Hz to 10Hz
 - 1.2nV/√Hz Typical at 1kHz
- Maximum Offset Voltage: 50μV
- Maximum Offset Voltage Drift: 0.5μV/°C
- CMRR: 124dB (Minimum)
- A_{VOL}: 132dB (Minimum)
- Slew Rate: 30V/μs
- Gain-Bandwidth Product: 15MHz
- Wide Supply Range: 8V to 33V
- Ultralow THD: –115dB at 1kHz
- Unity Gain Stable

- Low Power Shutdown: 6.2μA
- SO-8E and 4mm × 3mm 12-Lead DFN Packages
- 4.5kV HBM and 2kV CDM Tolerant

Pricing shown is for budgetary use only and may differ due to local duties, taxes, fees and exchange rates.

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, μModule[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

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