

Product Announcement

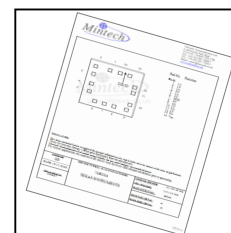
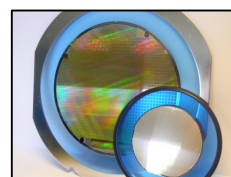
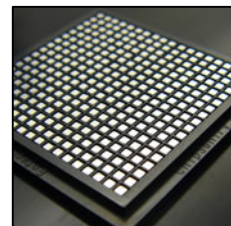
Introducing TLC2201 as Bare Die Product from Texas Instruments

Advanced LinCMOS™ Low Noise Precision Operational Amplifier

The TLC2201 is a precision, low-noise operational amplifier using Texas Instruments Advanced LinCMOS process. This device combines the noise performance of the lowest-noise JFET amplifiers with the DC precision available previously only in bipolar amplifiers. The Advanced LinCMOS™ process uses silicon-gate technology to obtain input offset voltage stability with temperature and time that far exceeds that obtainable using metal-gate technology. In addition, this technology makes possible input impedance levels that meet or exceed levels offered by top-gate JFET and expensive dielectric-isolated devices.

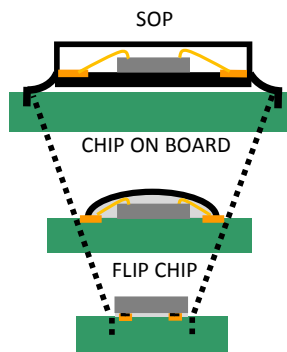
The combination of excellent DC and noise performance with a common-mode input voltage range that includes the negative rail makes these devices an ideal choice for high-impedance, low-level signal-conditioning applications in either single-supply or split-supply configurations.

Designing applications using TLC2201 in bare die form allows the designer to place the device closer to the signal source to reduce noise pickup and increase signal integrity. Bare Die also offers >50% X-Y-Z size reduction when compared with smallest available package. ∴ Bare die form factor greatly assists size sensitive applications.



Quick Reference Data

Number of Channels	1
Total Supply Voltage (V)(Min)(+5V=5, +/-5V=10)	4.6
Total Supply Voltage (V)(Max)(+5V=5, +/-5V=10)	16
Iq per channel(Max)(mA)	1.5
GBW(Typ)(MHz)	1.9
Slew Rate(Typ)(V/us)	2.7
VIO (25 deg C)(Max)(mV)	0.5
Offset Drift(Typ)(uV/C)	0.5
IIB(Max)(pA)	100
CMRR(Min)(dB)	85
Vn at 1kHz(Typ)(nV/rtHz)	8
Rail-Rail	Out



Applications

Features

- LOW INPUT OFFSET VOLTAGE . . . 500 μ V Max
- EXCELLENT VOLTAGE OFFSET STABILITY WITH TEMPERATURE...0.5 μ V/°C TYP
- LOW INPUT BIAS CURRENT 1 pA TYP AT TA = 25°C
- COMMON-MODE INPUT VOLTAGE RANGE INCLUDES THE NEGATIVE RAIL
- FULLY SPECIFIED FOR BOTH SINGLE-SUPPLY AND SPLIT-SUPPLY OPERATION
- SMALLEST FORM FACTOR (mm) - 0.62 x 0.93 x 0.5* (* Custom thicknesses also available)

- LOW LEVEL SIGNAL CONDITIONING
- HYBRID CIRCUITS
- MULTI-CHIP-MODULES

Please [contact us](#) if you would like a copy of the TLC2201 die geometry.

A full electrical datasheet is available from <http://focus.ti.com/lit/ds/symlink/tlc2201.pdf>

For further die technical information and choice of available supply formats please [contact us](#)

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