

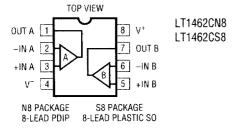
LT1462/LT1463 Dual and Quad Micropower, C-Load, Picoampere Bias Current, 200kHz, JFET Input Op Amps

FEATURES

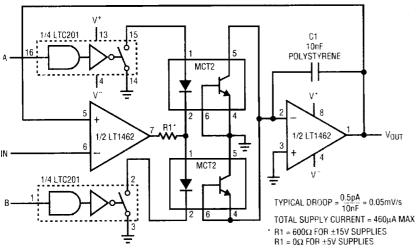
- Input Bias Current: 500fA
- Supply Current per Amplifier: 40µA Max
- SO-8 Package Standard Pinout
- Input Common Mode Range Includes Positive Rail
- Unity-Gain Stable for C-Load™ Up to 10nF
- Guaranteed Specs with ±5V, ±15V Supplies
- Guaranteed Matching Specifications
- Gain Bandwidth Product: 200kHz Typ

APPLICATIONS

- Battery-Powered Systems
- Photocurrent Amplifiers
- Low Frequency. Micropower Active Filters
- Low Droop Track-and-Hold Circuits



Low Droop Track-and-Hold/Peak Detector



FUNCTION	MODE	IN A	IN B	MODE	IN A	IN B
Track-and-Hold	Track	0	0	Hold	4	1
Positive Peak Detector	Reset	0	0	Store	0	1
Negative Peak Detector	Reset	0	0	Store	1	0

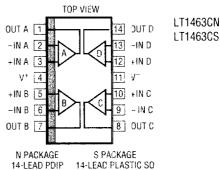
LTC201 switch is open for Logic "1"

DESCRIPTION

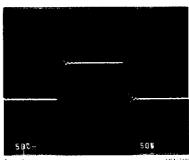
The LT $^{\circ}$ 1462 is the first dual micropower op amp (40 μ A max) to offer sub-picoampere input bias currents (500fA typ) and unity-gain stability for capacitive loads up to 10nF. The output can swing a 10k Ω load to within 1.5V of either supply, just like op amps that require an order of magnitude more supply current. This unique combination of performance makes the LT1462 ideal for a wide range of input and output impedances. The LT1463 is a quad version of the same amplifier.

In the design and testing of the LT1462, particular emphasis has been placed on optimizing performance in the low cost SO-8 package for $\pm 15 V$ and $\pm 5 V$ supplies. The input common mode range includes the positive rail. Slew rate (0.09V/µs min) and gain bandwidth product (130kHz min) are 100% tested. A full set of matching specifications is also provided.

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Small-Signal Response



 $A_V = 1$ $V_S = \pm 15V$, $C_1 = 10,000 pF$

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