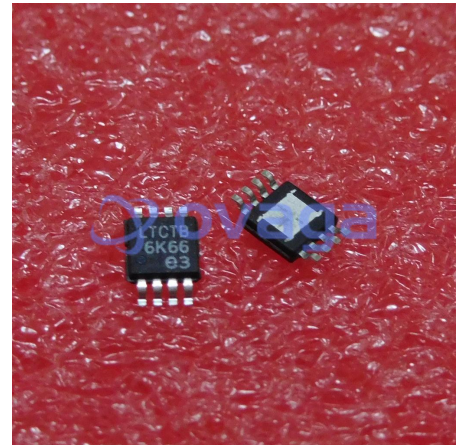


SP Amp DIFF AMP Single R-R I/P 3.6V Automotive 8-Pin MSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	8MSOP
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6406IMS8E#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6406 is a very low noise, low distortion, fully differential input/output amplifier optimized for 3V, single supply operation. The LTC6406 input common mode range is rail-to-rail, while the output common mode voltage is independently adjustable by applying a voltage on the VOCM pin. This makes the LTC6406 ideal for level shifting signals with a wide common mode range for driving 12-bit to 16-bit single supply, differential input ADCs.

A 3GHz gain-bandwidth product results in 70dB linearity for 50MHz input signals. The LTC6406 is unity gain stable and the closed-loop bandwidth extends from DC to 800MHz. The output voltage swing extends from near-ground to 2V, to be compatible with a wide range of ADC converter input requirements. The LTC6406 draws only 18mA, and has a hardware shutdown feature which reduces current consumption to 300µA.

The LTC6406 is available in a compact 3mm x 3mm 16-pin leadless QFN package as well as an 8-lead MSOP package, and operates over a –40°C to 85°C temperature range.

Features

Low Noise: $1.6\text{nV}/\sqrt{\text{Hz}}$ RTI

Low Power: 18mA at 3V

Low Distortion (HD2/HD3):

Rail-to-Rail Differential Input

2.7V to 3.5V Supply Voltage Range

Fully Differential Input and Output

Adjustable Output Common Mode Voltage

800MHz –3dB Bandwidth with >

Gain-Bandwidth Product: 3GHz

Low Power Shutdown

Available in 8-Lead MSOP and Tiny 16-Lead 3mm x 3mm x 0.75mm QFN Packages

Application

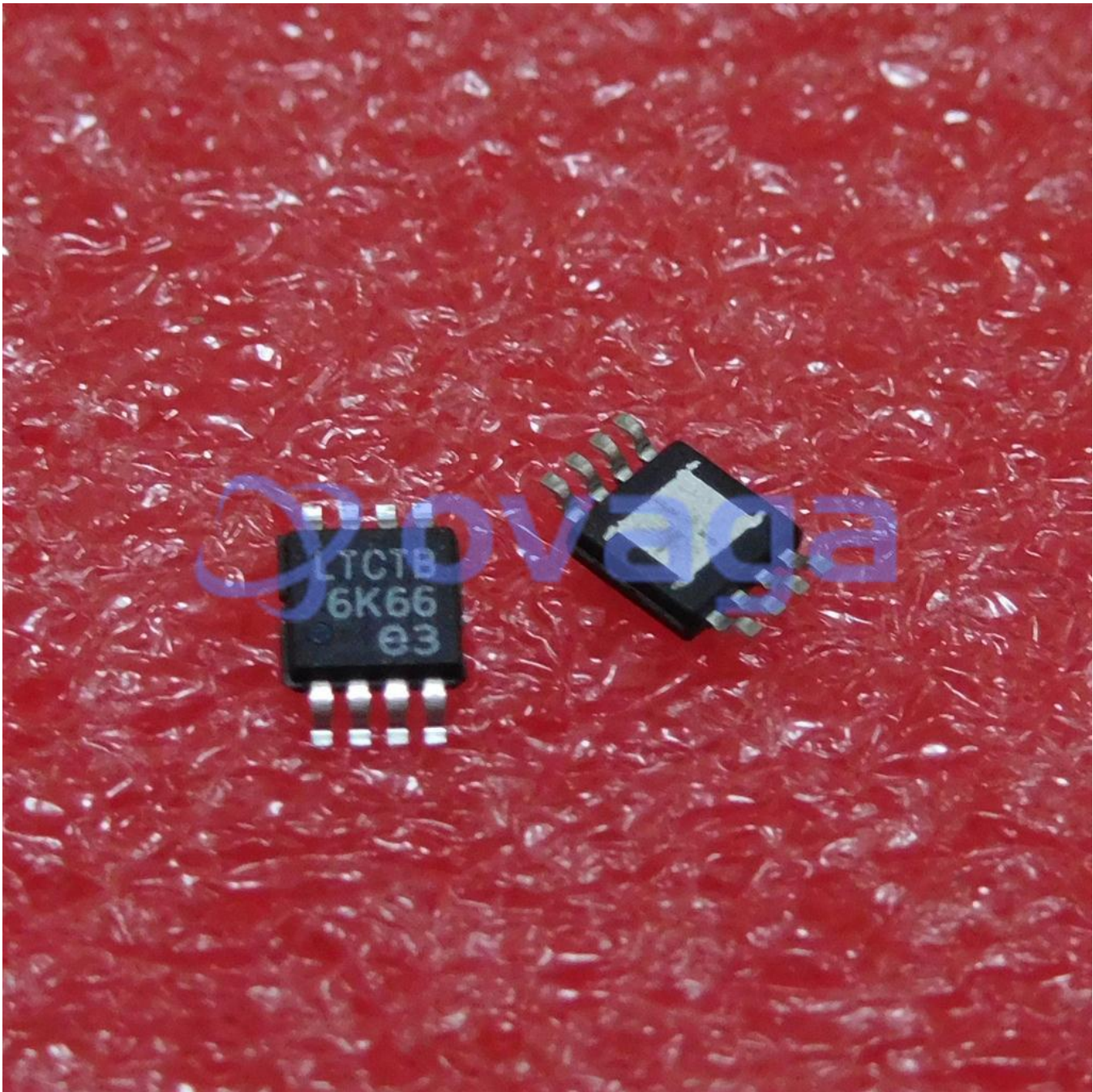
Differential Input ADC Driver

Single-Ended to Differential Conversion

Level-Shifting Ground-Referenced Signals

Level-Shifting VCC-Referenced Signals

High-Linearity Direct Conversion Receivers



Related Products



[LTC1151CSW#PBF](#)

Analog Devices, Inc
SOIC-16



[LT1498CS8](#)

Analog Devices, Inc
SOP-8



[LTC2053CMS8](#)

Analog Devices, Inc
MSOP8



[LTC1150CN8](#)

Analog Devices, Inc
DIP8



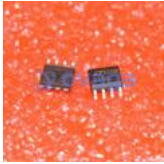
[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1013CN8](#)

Analog Devices, Inc
DIP-8