# AD7705BRZ

Data Sheet

3V/5V, 1 mW, 2-Channel Differential, 16-Bit Sigma-Delta ADC; Package: Temperature Range: Industrial

| | |
|---|---|
| Manufacturers | Analog Devices, Inc |
| Package/Case | SOIC-16 |
| Product Type | Data Conversion ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |

Images are for reference only

Please submit RFQ for AD7705BRZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

## General Description

The AD7705 and AD7706 are complete 16-bit, low-cost, Sigma Delta ADCs intended for dc and low-frequency ac measurement applications. Their low power (1 mW max @ 3 V) allows them to be used in loop-powered, battery-powered or locally-powered applications. The on-chip Programmable Gain Amplifier with gain settings from I through 128 can accommodate both low-level and high-level analog inputs with no external signal conditioning hardware.

The AD7705 has two differential channels while the AD7706 has one differential and two pseudo-differential channels. Differential reference inputs also allow maximum flexibility in tailoring the device for use in ratiometric applications.

## Features

Two Fully Differential Input Channel ADCs

Programmable Gain Front EndGains from 1 to 128

Three-Wire Serial InterfaceSPI®, QSPI™, MICROWIRE™ and DSP CompatibleSchmitt Trigger Input on SCLK

Ability to Buffer the Analog Input

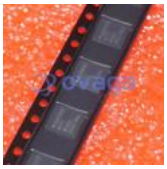
2.7 V to 3.3 V or 4.75 V to 5.25 V Operation

Power Dissipation 1 mW max @ 3 V

Standby Current 8 µA max

16-Lead DIP, 16-Lead SOIC and TSSOP Packages

**Related Products**



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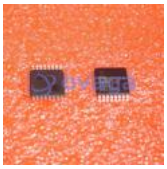
Analog Devices, Inc

LFCSP-40



[AD7266BSUZ]

Analog Devices, Inc

TQPF-32

[AD574AJNZ]

Analog Devices, Inc

PDIP-28

[AD7401YRWZ]

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SOIC-16

[AD7938BSUZ]

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TQFP-32

[AD7192BRUZ-REEL]

Analog Devices, Inc

TSSOP-24

[AD7124-8BCPZ-RL7]

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LFCSP-32

[AD9680BCPZ-500]

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LFCSP-64