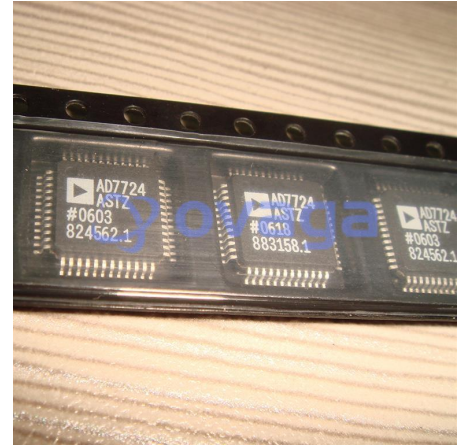


Analog to Digital Converters - ADC Dual 7th-Order Modulator

Manufacturers	Analog Devices, Inc
Package/Case	LQFP-48
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD7724ASTZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7724 is a dual 7th-order, sigma-delta modulator - it's dual version of the AD7720. Its SNR performance is 90 dB over a 90 kHz bandwidth. The part operates from a 5 V supply and accepts a differential input range of 0 V to 2.5 V or ± 1.25 V centered about a common-mode bias. The analog inputs are continuously sampled by the analog modulators, eliminating the need for external sample and hold circuitry. The input information is contained in the output stream as a density of ones. The original information can be reconstructed with an appropriate digital filter.

The part provides an accurate on-chip 2.5 V reference. A reference input/output function is provided to allow either the internal reference or an external system reference to be used as the reference source for the part.

The part is offered in a 48-pin TQFP package and is designed to operate from -40°C to 85°C .

Typically, the AD7724 is followed by a digital filter to achieve a parallel A/D result, which is just like our standard sigma-delta A/Ds. Having a separate filter allows users to customize their filter response, which can be done with one of our own DSPs or with a gate array.

Features

13 MHz Master Clock Frequency

0 V to +2.5 V or ± 1.25 V Input Range

Single Bit Output Stream

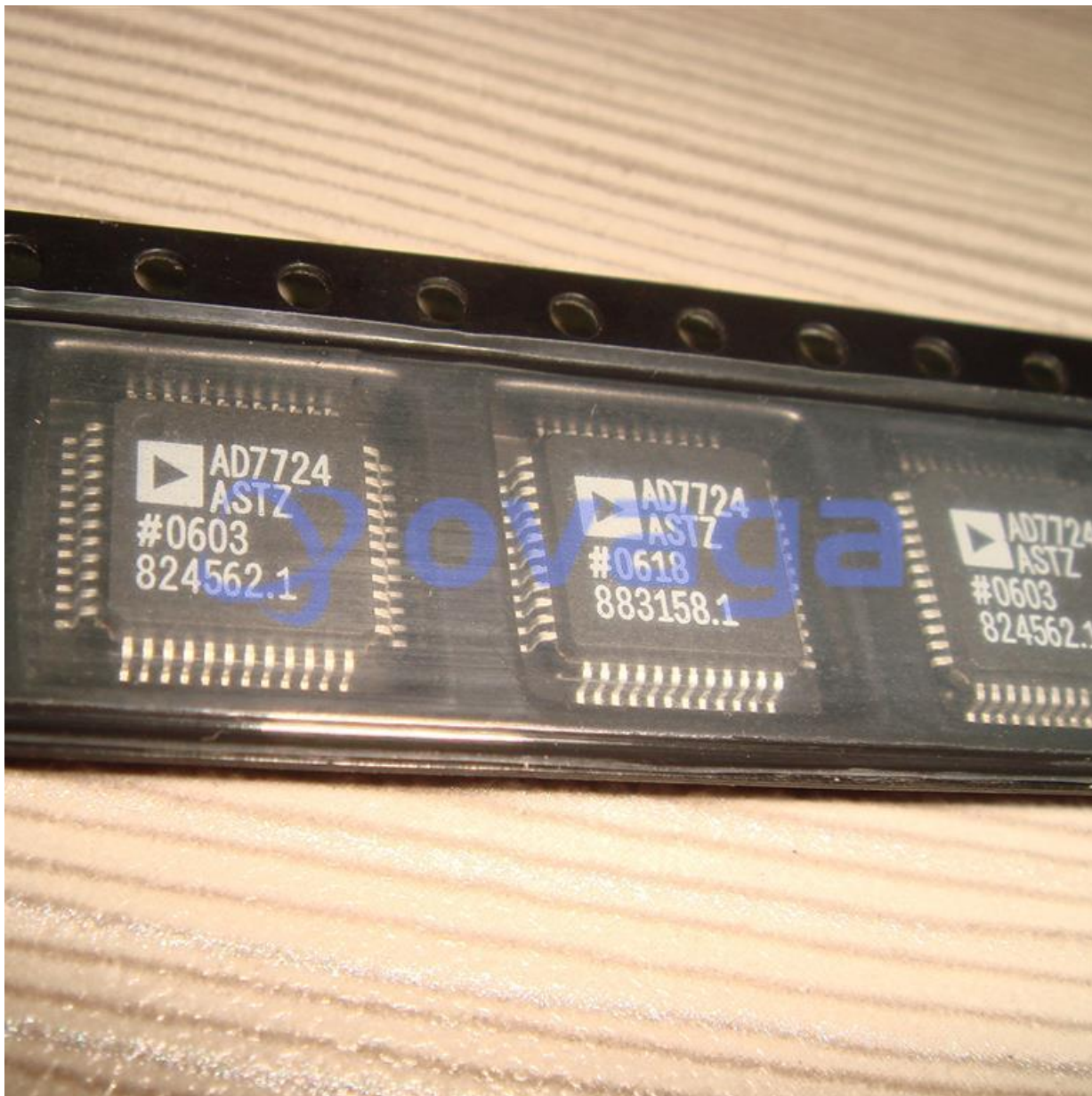
90 dB Dynamic Range

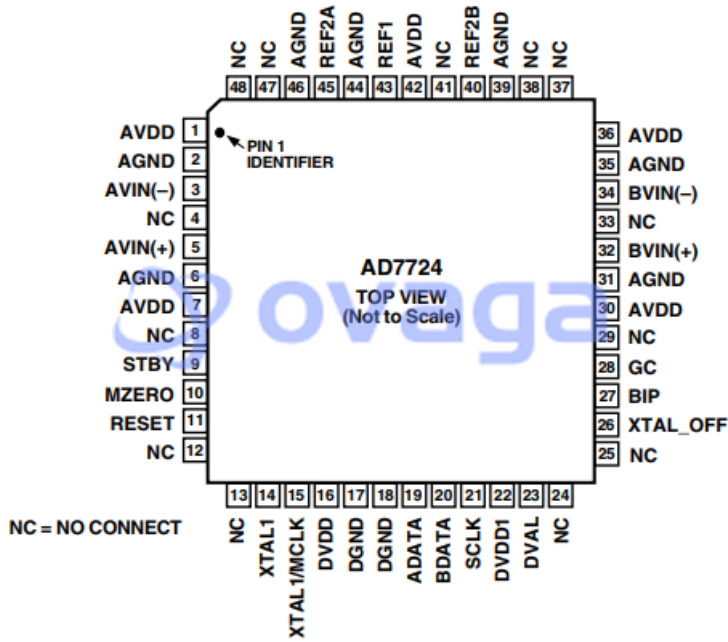
Logic Outputs 3 V/5 V Compatible

Power Supplies- AVDD, DVDD: 5 V \pm 5%- DVDD1: 3 V \pm 5%

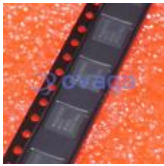
On-Chip 2.5 V Voltage Reference

48-Lead LQFP





Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



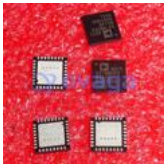
[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



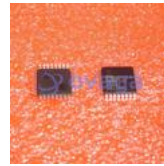
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64