🔉 ovaga

AD5687BRUZ

Data Sheet

Digital to Analog Converters - DAC IC 12-Bit 2-CH w/ SPI INTERFACE

Manufacturers	Analog Devices, Inc	presente
Package/Case	16-TSSOP (0.173, 4.40mm Width)	
Product Type	Data Conversion ICs	inna
RoHS	Rohs	
Lifecycle		Images are for reference only

Please submit RFQ for AD5687BRUZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The AD5689/AD5687 members of the nanoDAC+TM family arelow power, dual, 16-/12-bit, buffered voltage output digital-to-analogconverters (DACs). The devices include a gain select pingiving a full-scale output of 2.5 V = 2). TheAD5689/AD5687 operate from a single 2.7 V to 5.5 V supply, areguaranteed monotonic by design, and exhibit less than 0.1% FSRgain error and 1.5 mV offset error performance. Both devices areavailable in a 3 mm × 3 mm LFCSP and a TSSOP package.

The AD5689/AD5687 also incorporate a power-on reset circuitand a RSTSEL pin that ensure that the DAC outputs power upto zero scale or midscale and remain there until a valid writetakes place. Each part contains a per channel power-down feature that reduces the current consumption of the device to 4 µA at3 V while in power-down mode.

The AD5689/AD5687 uses a versatile serial peripheral interface that operates at clock rates up to 50 MHz. Both devices containa VLOGIC pin that is intended for 1.8 V/3 V/5 V logic.

Product Highlights

High Relative Accuracy (INL).AD5687 (12-bit): ±1 LSB maximum

Excellent DC Performance. Total unadjusted error: ±0.1% of FSR maximumOffset error: ±1.5 mV maximumGain error: ±0.1% of FSR maximum

Two Package Options.3 mm × 3 mm, 16-lead LFCSP or 16-lead TSSOP

Features

High relative accuracy (INL): ±2 LSB maximum at 16 bits

Tiny package: 3 mm × 3 mm, 16-lead LFCSP

TUE: ±0.1% of FSR maximum

Offset error: ±1.5 mV maximum

- Gain error: $\pm 0.1\%$ of FSR maximum
- High drive capability: 20 mA, 0.5 V from supply rails
- User-selectable gain of 1 or 2 (GAIN pin)
- Reset to zero scale or midscale (RSTSEL pin)
- 1.8 V logic compatibility
- 50 MHz SPI with readback or daisy chain

Low glitch: 0.5 nV-sec

Low power: 3.3 mW at 3 V

2.7 V to 5.5 V power supply

Related Products



ADAS3022BCPZ Analog Devices, Inc LFCSP-40



Analog Devices, Inc PDIP-28

AD574AJNZ







AD7124-8BCPZ-RL7 Analog Devices, Inc LFCSP-32

AD7266BSUZ

Analog Devices, Inc TQPF-32

AD7401YRWZ

SOIC-16

TSSOP-24

Analog Devices, Inc

AD7192BRUZ-REEL

Analog Devices, Inc







AD9680BCPZ-500

Analog Devices, Inc LFCSP-64

Optical transceivers

Application

Base station power amplifiers

Process control (PLC I/O cards)

Industrial automation

Data acquisition systems