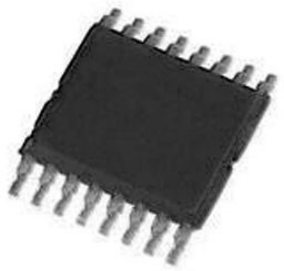
AD5308ARUZ

Data Sheet

2.5 V to 5.5 V Octal Voltage Output 8-Bit DACs in 16-Lead TSSOP; Package: TSSOP; No of Pins: 16; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5308ARUZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The references for the eight DACs are derived from two reference pins (one per DAC quad). These reference inputs can be configured as buffered, unbuffered, or VDD inputs. The parts incorporate a power-on reset circuit, which ensures that the DAC outputs power up to 0 V and remain there until a valid write to the device takes place. The outputs of all DACs may be updated simultaneously using the asynchronous LDAC input. The parts contain a power-down feature that reduces the current consumption of the devices to 400 nA at 5 V (120 nA at 3 V). The eight channels of the DAC may be powered down individually.

All three parts are offered in the same pinout, which allows users to select the resolution appropriate for their application without redesigning their circuit board.

Features

AD5308: 8 buffered 8-bit DACs in 16-lead TSSOP A version: ±1 LSB INL, B version: ±0.75 LSB INL

AD5318: 8 buffered 10-bit DACs in 16-lead TSSOP A version: ±4 LSB INL, B version: ±3 LSB INL

AD5328: 8 buffered 12-bit DACs in 16-lead TSSOP A version: ±16 LSB INL, B version: ±12 LSB INL

Low power operation: 0.7 mA @ 3 V

Power-down to 120 nA @ 3 V, 400 nA @ 5 V

Double-buffered input logic

Guaranteed monotonic by design over all codes

Buffered/unbuffered/VDD reference input options

Output range: 0 V to VREF or 0 V to 2 VREF

Power-on reset to 0 V

ProgrammabilityIndividual channel power-down Simultaneous update of outputs (LDAC)

Low power, SPI-®, QSPI-™, MICROWIRE-™, and DSP-compatible 3-wire serial interface

Application

Portable battery-powered instruments

Digital gain and offset adjustment

Programmable voltage and current sources

Optical networking

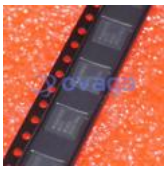
Automatic test equipment

Mobile communications

Programmable attenuators

Industrial process control

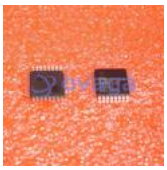
Related Products



ADAS3022BCPZ

Analog Devices, Inc

LFCSP-40



AD7266BSUZ

Analog Devices, Inc

TQPF-32

AD574AJNZ

Analog Devices, Inc

PDIP-28

AD7401YRWZ

Analog Devices, Inc

SOIC-16

AD7938BSUZ

Analog Devices, Inc

TQFP-32

AD7192BRUZ-REEL

Analog Devices, Inc

TSSOP-24

AD7124-8BCPZ-RL7

Analog Devices, Inc

LFCSP-32

AD9680BCPZ-500

Analog Devices, Inc

LFCSP-64