

DAC 1-CH Resistor-String 10-bit 8-Pin MSOP Tube

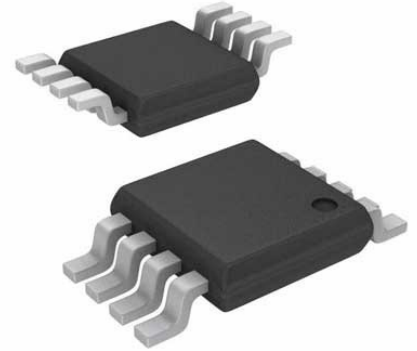
Manufacturer: [Analog Devices, Inc](#)

Package/Case: MSOP8

Product Type: Data Conversion ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The AD5301/AD5311/AD5321 are single 8-/10-/12-bit, buffered, voltage-output DACs that operate from a single 2.5 V to 5.5 V supply, consuming 120 μ A at 3 V. The on-chip output amplifier allows rail-to-rail output swing with a slew rate of 0.7 V/ μ s. It uses a 2-wire (I2C-compatible) serial interface that operates at clock rates up to 400 kHz. Multiple devices can share the same bus.

The reference for the DAC is derived from the power supply inputs and thus gives the widest dynamic output range. These parts incorporate a power-on reset circuit, which ensures that the DAC output powers up to 0 V and remains there until a valid write takes place. The parts contain a power-down feature that reduces the current consumption of the device to 50 nA at 3 V and provides software-selectable output loads while in power-down mode.

The low power consumption in normal operation makes these DACs ideally suited to portable battery-operated equipment. The power consumption is 0.75 mW at 5 V and 0.36 mW at 3 V, reducing to 1 μ W in all power-down modes.

Key Features

- Data read-back capability
- Guaranteed monotonic by design over all codes
- Reference derived from power supply
- Power-ON reset to 0V
- On-chip rail-to-rail output buffer amplifier
- 3 Power-down functions

Application

- Portable battery-powered instruments
- Digital gain and offset adjustment
- Programmable voltage and current sources
- Programmable attenuators

Recommended For You

AD7305BRZ

Analog Devices, Inc

SOP20

AD9910BSVZ

Analog Devices, Inc

TQFP100

AD9831ASTZ

Analog Devices, Inc

QFP

AD5447YRUZ

Analog Devices, Inc
TSSOP

AD5302BRMZ

Analog Devices, Inc
MSOP10

AD5531BRUZ

Analog Devices, Inc
TSSOP16

AD537JH

Analog Devices, Inc
CAN10

AD652AQ

Analog Devices, Inc
DIP

AD654JN

Analog Devices, Inc
DIP8

AD7740YRMZ

Analog Devices, Inc
MSOP8

AD9914BCPZ

Analog Devices, Inc
LFCSP

AD73311ARSZ

Analog Devices, Inc
SSOP20

AD7291BCPZ

Analog Devices, Inc
LFCSP20

AD9954YSVZ

Analog Devices, Inc
QFP

AD2S1205YSTZ

Analog Devices, Inc
LQFP44