


DAC 4-CH R-2R 8-bit 20-Pin SOIC W Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP20
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The AD7304/AD7305 are quad, 8-bit DACs that operate from a single +3 V to +5 V supply or ± 5 V supplies. The AD7304 has a serial interface, while the AD7305 has a parallel interface. Internal precision buffers swing rail-to-rail. The reference input range includes both supply rails allowing for positive or negative full-scale output voltages. Operation is guaranteed over the supply voltage range of +2.7 V, +5.5 V to ± 5 V consuming less than 9 mW from a +3 V supply. The full-scale voltage output is determined by the external reference input voltage applied. The rail-to-rail VREF input to DAC VOUT allows for a full-scale voltage set equal the positive supply VDD, the negative supply VSS or any value in between.

The AD7304's doubled-buffered serial-data interface offers high-speed, three-wire, SPI and micro controller compatible inputs using data in (SDI), clock (CLK) and chip select (CS) pins.

The parallel input AD7305 uses a standard address decode along with the WR control line to load data into the input registers. The double buffered architecture allows all four input registers to be preloaded with new values followed by a LDAC control strobe which copies all the new data into the DAC registers thereby updating the analog output values. The AD7305 is pin-compatible with the popular industry standard AD7226 when operating from less than +5.5 V. An internal power ON reset places both parts in the zero-scale state at turn ON. A 40 μ A power shutdown (SHDN) feature is activated on both parts by tri-stating the SDI/SHDN pin on the AD7304, and tri-stating the A0/SHDN address pin on the AD7305. The AD7304/AD7305 are specified over the extended industrial (-40°C to +85°C), and the automotive (-40°C to +125°C) temperature ranges.

Key Features

Rail-to-rail REF input to voltage output swing

Internal power-on reset

Fast parallel interface

40 μ A Power shutdown



Recommended For You

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

AD9835BRUZ

Analog Devices, Inc

TSSOP16