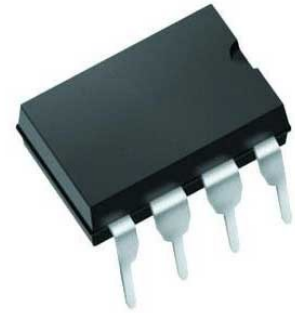


## DAC 1-CH R-2R 12-bit 8-Pin PDIP N Tube



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** PDIP8

**Product Type:** Data Conversion ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** NRND

### General Description

Newer Alternatives: NEW DESIGNS:AD5443 High Bandwidth CMOS 12-Bit Serial Interface Multiplying D/A Converter

The DAC8043 is a high accuracy 12-bit CMOS multiplying DAC in a space-saving 8-lead PDIP package. Featuring serial data input, double buffering, and excellent analog performance, the DAC8043 is ideal for applications where PC board space is at a premium. In addition, improved linearity and gain error performance permit reduced parts count through the elimination of trimming components. Separate input clock and load DAC control lines allow full user control of data loading and analog output.

The circuit consists of a 12-bit serial-in, parallel-out shift register, a 12-bit DAC register, a 12-bit CMOS DAC, and control logic. Serial data is clocked into the input register on the rising edge of the CLK pulse. When the new data word has been clocked in, it is loaded into the DAC register with the LD input pin. Data in the DAC register is converted to an output current by the digital-to-analog converter (DAC).

The fast interface timing of the DAC8043 may reduce timing design considerations while minimizing microprocessor wait states. For applications requiring an asynchronous clear function or more versatile microprocessor interface logic, refer to the AD5443.

Operating from a single 5 V power supply, the DAC8043 is the ideal low power, small size, high performance solution to many application problems. It is available in a PDIP package that is compatible with auto-insertion equipment. There is also a 16-lead SOIC package available.

### Key Features

Fast serial data input

Double data buffers

Low  $\pm 5\text{ppm}/^\circ\text{C}$  maximum tempco

ESD resistant

### Application

Auto calibration systems

Process control and industrial automation

Programmable amplifiers and attenuators

Digitally controlled filters

### Recommended For You

**DAC8562FSZ**

Analog Devices, Inc  
SOP20

**DAC08AQ**

Analog Devices, Inc  
DIP

**DAC08EQ**

Analog Devices, Inc  
CDIP16

**DAC8800FPZ**

Analog Devices, Inc  
20-LeadPDIP

**DAC312HPZ**

Analog Devices, Inc  
DIP

**DAC08ESZ**

Analog Devices, Inc  
SOP16

**DAC08EPZ**

Analog Devices, Inc  
DC

**ADAQ7980BCCZ**

Analog Devices, Inc  
LGA-24

**DAC312FR**

Analog Devices, Inc  
DIP

**ADAQ4003BBCZ**

Analog Devices, Inc  
BGA

**ADA4350ARUZ**

Analog Devices, Inc  
TSSOP28

**DAC08CSZ**

Analog Devices, Inc  
SOP16

**ADAQ4001BBCZ-RL13**

Analog Devices, Inc  
BGA49

**DAC8043AESZ**

Analog Devices, Inc  
SOP8

**ADAL6110-16BCPZ**

Analog Devices, Inc  
LFCSP-48