


DAC 1-CH R-2R 16-bit 28-Pin SOIC Tube

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	SOP28
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Obsolete



Images are for reference only

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General Description

The DAC712 is a complete 16-bit resolution digital-to-analog (D/A) converter with 16 bits of monotonicity over temperature.

The DAC712 has a precision +10V temperature-compensated voltage reference, ±10V output amplifier, and 16-bit port bus interface.

The digital interface is fast, 60ns minimum write pulse width, double-buffered, and has a CLEAR function that resets the analog output to bipolar zero.

GAIN and OFFSET adjustment inputs are arranged so that they can be easily trimmed by external D/A converters as well as by potentiometers.

The DAC712 is available in two linearity error performance grades: ±4LSB and ±2LSB, and three differential linearity grades: ±4LSB, ±2LSB, and ±1LSB. The DAC712 is specified at power-supply voltages of ±12V and ±15V.

The DAC712 is packaged in a 28-pin, 0.3" wide plastic DIP and in a 28-lead, wide-body plastic SOIC. The DAC712P, U, PB, and UB are specified over the -0°C to +85°C temperature range and the DAC712PK, UK, PL, and UL are specified over the 0°C to +70°C range.

Key Features

HIGH-SPEED, 16-BIT PARALLEL DOUBLE-BUFFERED INTERFACE

VOLTAGE OUTPUT: ±10V

13-, 14-, AND 15-BIT LINEARITY GRADES

16-BIT MONOTONIC OVER TEMPERATURE

POWER DISSIPATION: 600mW max

GAIN AND OFFSET ADJUST: Convenient for Auto-Cal D/A Converters

28-LEAD DIP AND SOIC PACKAGES



Recommended For You

DAC6578SPW

Texas Instruments, Inc

TSSOP-16

DAC7802KU

Texas Instruments, Inc

SOP24

DAC122S085C1MM/NOPB

Texas Instruments, Inc

MSOP10

DAC0800LCM

Texas Instruments, Inc

SOP16

DAC1220E

Texas Instruments, Inc

SSOP16

DAC7625U

Texas Instruments, Inc

SOP28

DAC38J84IAAV

Texas Instruments, Inc

BGA

DAC8043U

Texas Instruments, Inc

SOP8

DAC7734E

Texas Instruments, Inc

SSOP48

DAC7634E

Texas Instruments, Inc

SSOP48

DAC712UK

Texas Instruments, Inc

SOP28

DAC7614UB

Texas Instruments, Inc

SOP16

DAC108S085C1MI/NOPB

Texas Instruments, Inc

TSSOP-16

DAC8164IAPW

Texas Instruments, Inc

TSSOP

DAC7573IPW

Texas Instruments, Inc

TSSOP-16