


DAC 1-CH R-2R 8-bit 16-Pin PDIP N Tube

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



Images are for reference only

[Inquiry](#)

General Description

The DAC08 series of 8-bit monolithic digital-to-analog converters provide very high speed performance coupled with low cost and outstanding applications flexibility.

Advanced circuit design achieves 85 ns settling times with very low glitch energy and at low power consumption. Monotonic multiplying performance is attained over a wide 20 to 1 reference current range. Matching to within 1 LSB between reference and full-scale currents eliminates the need for full-scale trimming in most applications.

Direct interface to all popular logic families with full noise immunity is provided by the high swing, adjustable threshold logic input.

High voltage compliance complementary current outputs are provided, increasing versatility and enabling differential operation to effectively double the peak-to-peak output swing. In many applications, the outputs can be directly converted to voltage without the need for an external op amp. All DAC08 series models guarantee full 8-bit monotonicity, and nonlinearities as tight as $\pm 0.1\%$ over the entire operating temperature range are available. Device performance is essentially unchanged over the ± 4.5 V to ± 18 V power supply range, with 33 mW power consumption attainable at ± 5 V supplies.

The compact size and low power consumption make the DAC08 attractive for portable and military/aerospace applications; devices processed to MIL-STD-883, Level B are available.

DAC08 applications include 8-bit, 1 μ s A/D converters, servomotor and pen drivers, waveform generators, audio encoders and attenuators, analog meter drivers, programmable power supplies, LCD display drivers, high speed modems, and other applications where low cost, high speed, and complete input/output versatility are required.

Key Features

Fast settling output current: 85 ns

Full-scale current prematched to ± 1 LSB

Direct interface to TTL, CMOS, ECL, HTL, PMOS

Nonlinearity to 0.1% maximum over temperature range

High output impedance and compliance: -10 V to $+18$ V

Complementary current outputs

Wide range multiplying capability: 1 MHz bandwidth

Low FS current drift: ± 10 ppm/ $^{\circ}$ C

Wide power supply range: ± 4.5 V to ± 18 V

Low power consumption: 33 mW at ± 5 V

Low cost

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

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

DAC8043FPZ

Analog Devices, Inc

DIP8

ADAQ4001BBCZ-RL13

Analog Devices, Inc

BGA49

DAC8043AESZ

Analog Devices, Inc

SOP8

ADAL6110-16BCPZ

Analog Devices, Inc

LFCSF-48