

DAC 1-CH Segment 16-bit 28-Pin SOIC W Tube

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| Manufacturer: | Analog Devices, Inc |
| Package/Case: | SOP28 |
| Product Type: | Data Conversion ICs |
| RoHS: | RoHS Compliant/Lead free  |
| Lifecycle: | Active |



Images are for reference only

[Inquiry](#)

General Description

The AD669 DACPORT® is a complete 16-bit monolithic D/A converter with an on-board reference and output amplifier. It is manufactured on Analog Devices' BiMOS II process. This process allows the fabrication of low power CMOS logic functions on the same chip as high precision bipolar linear circuitry. The AD669 chip includes current switches, decoding logic, an output amplifier, a buried Zener reference and double-buffered latches.

The AD669's architecture insures 15-bit monotonicity over temperature. Integral nonlinearity is maintained at $\pm 0.003\%$, while differential nonlinearity is $\pm 0.003\%$ max. The on-chip output amplifier provides a voltage output settling time of 10 ms to within 1/2 LSB for a full-scale step.

Data is loaded into the AD669 in a parallel 16-bit format. The double-buffered latch structure eliminates data skew errors and provides for simultaneous updating of DACs in a multi-DAC system. Three TTL/LSTTL/5 V CMOS compatible signals control the latches: CS, L1 and LDAC.

The output range of the AD669 is pin programmable and can be set to provide a unipolar output range of 0 V to +10 V or a bipolar output range of -10 V to +10 V.

The AD669 is available in seven grades: AN and BN versions are specified from -40°C to +85°C and are packaged in a 28-pin plastic DIP. The AR and BR versions are specified for -40°C to +85°C operation and are packaged in a 28-pin SOIC. The SQ version is specified from -55°C to +125°C and is packaged in a hermetic 28-pin cerdip package. The AD669 is also available compliant to MIL-STD-883. Refer to the AD669/883B data sheet for specifications and test conditions.

Key Features

- On-chip output amplifier
- High stability buried Zener reference
- Microprocessor compatible
- Fast 40ns write pulse
- Low glitch - 15nV-s

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