

Digital to Analogue Converter, 14 bit, SPI, 2.7V to 5.5V, SSOP, 28 Pins

Manufacturers	Analog Devices, Inc
Package/Case	SSOP-28
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5554BRSZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5544/AD5554 quad, 16-/14-bit, current output, digital-to-analog converters (DACs) are designed to operate from 2.7 V to 5.5 V supply range.

The applied external reference input voltage (VREFX) determines the full-scale output current. Integrated feedback resistors (RFB) provide temperature-tracking, full-scale voltage outputs when combined with an external I-to-V precision amplifier.

A double-buffered serial data interface offers high speed, 3-wire, SPI- and microcontroller-compatible inputs using serial data in (SDI), a chip select (CS), and clock (CLK) signals. In addition, a serial data out pin (SDO) allows for daisy-chaining when multiple packages are used. A common, level-sensitive, load DAC strobe (LDAC) input allows the simultaneous update of all DAC outputs from previously loaded input registers. Additionally, an internal power-on reset forces the output voltage to 0 at system turn-on. An MSB pin allows system reset assertion (RS) to force all registers to zero code when = 1.

The AD5544 is packaged in the compact 28-lead SSOP and 32-lead LFCSP. The AD5554 is packaged in the compact 28-lead SSOP

Features

14-bit resolution

INL of ± 0.5 LSB (B Grade)

2 mA full-scale current $\pm 20\%$, with $>$

0.9 μ s settling time to $\pm 0.1\%$

12 MHz multiplying bandwidth

Midscale glitch of -1 nV-sec

Midscale or zero-scale reset

Four separate, 4-quadrant multiplying reference inputs

See data sheet for additional feature

Application

Automatic test equipment

Instrumentation

Digitally controlled calibration

Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



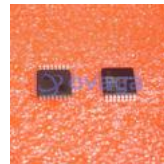
[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64