

Single/Dual, +15 V/±5 V, 256-Position, I2C-Compatible Digital Potentiometer; Package: TSSOP; No of Pins: 16; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Data Acquisition - Digital Potentiometers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5282BRUZ200 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Wiper position programming defaults to midscale at system power-on. When powered, the VR wiper position is programmed by an I2C-compatible, 2-wire serial data interface. The AD5280/ AD5282 feature sleep mode programmability. This allows any level of preset in power-up and is an alternative to a costly EEPROM solution. Both parts have additional programmable logic outputs that enable users to drive digital loads, logic gates, LED drivers, and analog switches in their system.

The AD5280/AD5282 are available in thin, surface-mounted 14-lead TSSOP and 16-lead TSSOP. All parts are guaranteed to operate over the extended industrial temperature range of -40°C to +85°C. For 3-wire SPI-compatible interface applications, see the AD5260/AD5262 product information on www.analog.com

Features

AD5280: 1 channel

AD5282: 2 channels

256 positions

20 k Ω , 50 k Ω , 200 k Ω
fixed terminal resistance

Low temperature
coefficient: 30 ppm/ $^{\circ}\text{C}$

Power-on midscale
preset1

Programmable reset

Operating temperature:
-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

I2C-compatible interface

Application

Multimedia, video, and audio

Communications

Mechanical potentiometer replacement

Instrumentation: gain, offset adjustment

Programmable voltage source

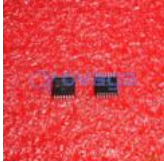
Programmable current source

Line impedance matching

1 Assert shutdown and program the device during power-up, then deassert the shutdown to achieve the desired preset level.2 The terms digital potentiometer, VR, and RDAC are used interchangeably.

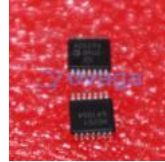
Data Sheet, Rev. C, 7/09

Related Products



[AD5292BRUZ-20](#)

Analog Devices, Inc
14TSSOP



[AD5293BRUZ-20](#)

Analog Devices, Inc
TSSOP-14



[AD5242BRZ10](#)

Analog Devices, Inc
SOIC-16



[AD8403ARZ10](#)

Analog Devices, Inc
SOIC-24



[AD5142ABCPZ10-RL7](#)

Analog Devices, Inc
LFCSP-16



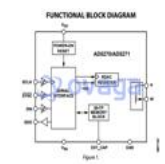
[AD5254BRUZ10](#)

Analog Devices, Inc
TSSOP20



[AD8400ARZ10](#)

Analog Devices, Inc
SOIC-8



[AD5270BRMZ-20](#)

Analog Devices, Inc
MSOP-10