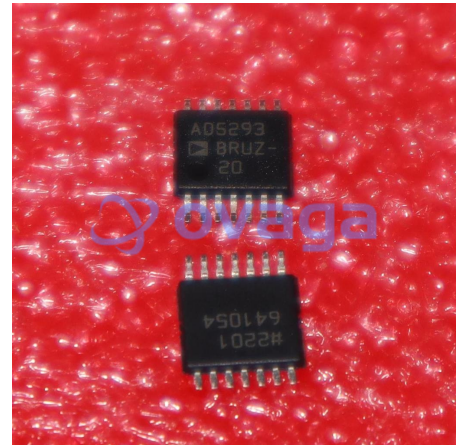


Digital Potentiometer 20kOhm 1024POS Volatile 14-Pin TSSOP Tube

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-14
Product Type	Data Acquisition - Digital Potentiometers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5293BRUZ-20 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5293 is a single-channel, 1024-position digital potentiometer (in this data sheet, the terms digital potentiometer and RDAC are used interchangeably) with a <1% end-to-end resistor tolerance error. The AD5293 performs the same electronic adjustment function as a mechanical potentiometer with enhanced resolution, solid state reliability, and superior low temperature coefficient performance. This device is capable of operating at high voltages and supporting both dual-supply operation at ± 10.5 V to ± 15 V and single-supply operation at 21 V to 30 V.

The AD5293 offers guaranteed industry-leading low resistor tolerance errors of $\pm 1\%$ with a nominal temperature coefficient of 35 ppm/ $^{\circ}$ C. The low resistor tolerance feature simplifies open loop applications as well as precision calibration and tolerance matching applications.

The AD5293 is available in a compact 14-lead TSSOP package. The part is guaranteed to operate over the extended industrial temperature range of -40° C to $+105^{\circ}$ C.

Features

Single-channel, 1024-position resolution

20 k Ω , 50 k Ω , and 100 k Ω nominal resistance

Calibrated 1% nominal resistor tolerance (resistor performance mode)

Rheostat mode temperature coefficient: 35 ppm $^{\circ}$ C

Voltage divider temperature coefficient: 5 ppm $^{\circ}$ C

Single-supply operation: 9 V to 33 V

Dual-supply operation: \pm 9 V to \pm 16.5 V

SPI-compatible serial interface

Wiper setting readback

Application

Mechanical potentiometer replacement

Instrumentation: gain and offset adjustment

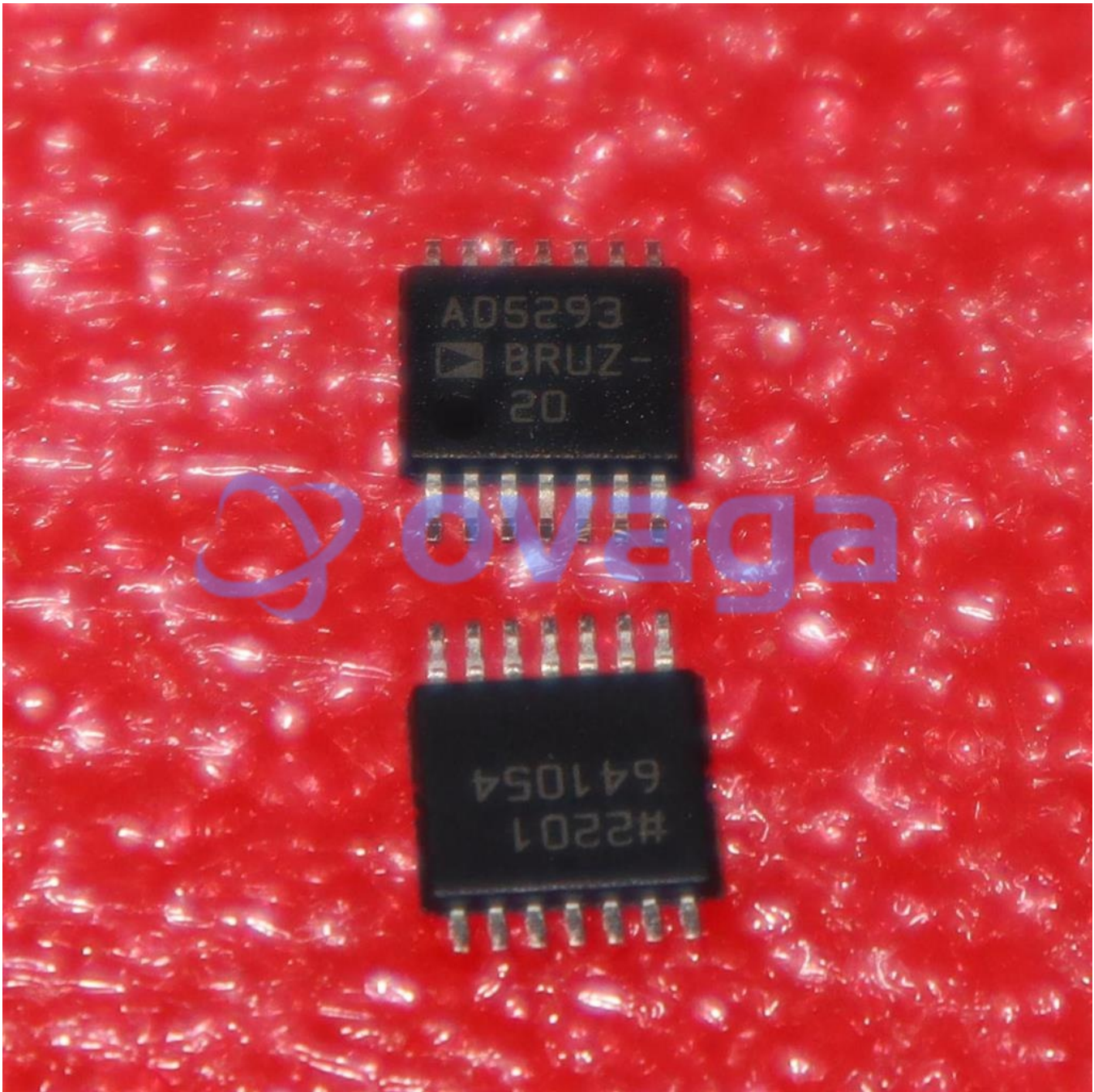
Programmable voltage-to-current conversion

Programmable filters, delays, and time constants

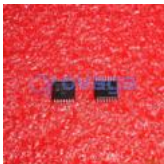
Programmable power supply

Low resolution DAC replacements

Sensor calibration



Related Products



[AD5292BRUZ-20](#)

Analog Devices, Inc
14TSSOP



[AD5242BRZ10](#)

Analog Devices, Inc
SOIC-16



[AD8403ARZ10](#)

Analog Devices, Inc
SOIC-24



[AD5142ABCPZ10-RL7](#)

Analog Devices, Inc
LFCSP-16



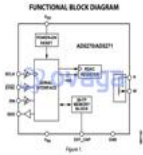
AD5254BRUZ10

Analog Devices, Inc
TSSOP20



AD8400ARZ10

Analog Devices, Inc
SOIC-8



AD5270BRMZ-20

Analog Devices, Inc
MSOP-10



AD5258BRMZ10

Analog Devices, Inc
MSOP-10