

Digital Potentiometer ICs 1024-pos 5v Digital Rstat 50-TP Mem

| | |
|---------------|---------------------------------------------------------|
| Manufacturers | <u>Analog Devices, Inc</u> |
| Package/Case | MSOP-10 |
| Product Type | D/A Converters (DAC) ; Digital Potentiometers (DigiPOT) |
| RoHS | Rohs |
| Lifecycle | |



Images are for reference only

Please submit RFQ for AD5175BRMZ-10-RL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5175 is a single-channel, 1024-position digital rheostat that combines industry leading variable resistor performance with nonvolatile memory (NVM) in a compact package.

This device supports both dual-supply operation at ± 2.5 V to ± 2.75 V and single-supply operation at 2.7 V to 5.5 V, and offers 50-times programmable (50-TP) memory.

The AD5175 device wiper settings are controllable through the I²C-compatible digital interface. Unlimited adjustments are allowed before programming the resistance value into the 50-TP memory. The AD5175 does not require any external voltage supply to facilitate fuse blow and there are 50 opportunities for permanent programming. During 50-TP activation, a permanent blow fuse command freezes the resistance position (analogous to placing epoxy on a mechanical trimmer).

The AD5175 is available in a 3 mm \times 3 mm 10-lead LFCSP package and in a 10-lead MSOP package. The part is guaranteed to operate over the extended industrial temperature range of -40°C to $+125^{\circ}\text{C}$.

Features

Single-channel, 1024-position resolution

10 k Ω nominal resistance

50-times programmable (50-TP) wiper memory

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

2.7 V to 5.5 V single-supply operation

I 2 C-compatible interface

Wiper setting and memory readback

Power on refreshed from memory

Resistor Tolerance Stored in Memory

Thin LFCSP, 10-lead, 3 mm x 3 mm x 0.8 mm package

Compact MSOP, 10-lead 3 mm x 4.9 mm x 1.1 mm package

Application

Mechanical rheostat replacements

Op-amp: variable gain control

Instrumentation: gain, offset adjustment

Programmable voltage to current conversions

Programmable filters, delays, time constants

Programmable power supply

Sensor calibration

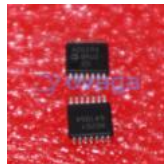


Related Products



[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



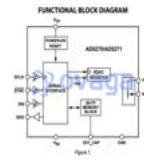
[AD5254BRUZ10](#)

Analog Devices, Inc
TSSOP20



AD8400ARZ10

Analog Devices, Inc
SOIC-8



AD5270BRMZ-20

Analog Devices, Inc
MSOP-10