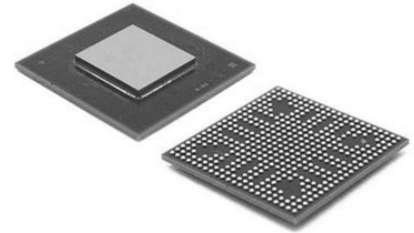


Digital Potentiometer 10kOhm 1024POS Non-Volatile 10-Pin LFCSP EP T/R

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LFCSP-10
Product Type	D/A Converters (DAC) ; Digital Potentiometers (DigiPOT)
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5175BCPZ-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  $\pm 2.5$  V to  $\pm 2.75$  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 I<sup>2</sup>C-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  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .

## Features

Single-channel, 1024-position resolution

10 k $\Omega$  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

PC-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

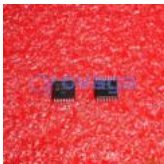
Programmable voltage to current conversions

Programmable filters, delays, time constants

Programmable power supply

Sensor calibration

## Related Products



### [AD5292BRUZ-20](#)

Analog Devices, Inc  
14TSSOP



### [AD5242BRZ10](#)

Analog Devices, Inc  
SOIC-16



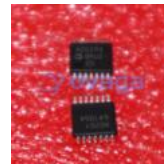
### [AD5142ABCPZ10-RL7](#)

Analog Devices, Inc  
LFCSP-16



### [AD8400ARZ10](#)

Analog Devices, Inc  
SOIC-8



### [AD5293BRUZ-20](#)

Analog Devices, Inc  
TSSOP-14



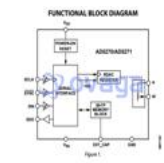
### [AD8403ARZ10](#)

Analog Devices, Inc  
SOIC-24



### [AD5254BRUZ10](#)

Analog Devices, Inc  
TSSOP20



### [AD5270BRMZ-20](#)

Analog Devices, Inc  
MSOP-10