

## AD5270BRMZ-100

Data Sheet

Non Volatile Digital Potentiometer, 100 kohm, Single, Serial, SPI,  $\pm$  1%, 2.7 V

Manufacturers	Analog Devices, Inc	
Package/Case	MSOP-10	E R
Product Type	D/A Converters (DAC) ; Digital Potentiometers (DigiPOT)	
RoHS	Rohs	
Lifecycle		Images are for reference only

Please submit RFQ for AD5270BRMZ-100 or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

### **General Description**

The AD5270/AD5271 are single-channel, 1024-/256-position digital rheostats that combine industry leading variable resistor performance with nonvolatile memory (NVM) in a compact package.

The AD5270/AD5271 ensure less than 1% end-to-end resistor tolerance error and offer 50-times programmable (50-TP) memory.

The guaranteed industry leading low resistor tolerance error feature simplifies open-loop applications as well as precision calibration and tolerance matching applications.

The AD5270/AD5271 device wiper settings are controllable through the SPI digital interface. Unlimited adjustments are allowed before programming the resistance value into the 50-TP memory. The AD5270/AD5271 do 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 AD5270/AD5271 are available in a 3 mm x 3 mm, 10-lead LFCSP package and in a 10-lead MSOP package. The parts are guaranteed to operate over the extended industrial temperature range of  $-40^{\circ}$ C to  $+125^{\circ}$ C.

#### Features

Single-channel, 1024-/256-position resolution 20 k $\Omega$ , 50 k $\Omega$  and 100 k $\Omega$  nominal resistance Maximum ±1% nominal resistor tolerance error 50-times programmable (50-TP) wiper memory Rheostat mode temperature coefficient: 5 ppm/°C 2.7 V to 5.5 V single-supply operation SPI-compatible interface Wiper setting readback Power on refreshed from 50-TP memory Thin LFCSP, 10-lead, 3 mm × 3 mm × 0.8 mm package

#### **Related Products**



AD5292BRUZ-20

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

Analog Devices, Inc 14TSSOP



# AD5242BRZ10

Analog Devices, Inc SOIC-16



## AD5142ABCPZ10-RL7 Analog Devices, Inc

LFCSP-16



## Analog Devices, Inc SOIC-8

**AD8400ARZ10** 

## Application

Mechanical potentiometer 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



#### AD5293BRUZ-20

Analog Devices, Inc TSSOP-14

AD8403ARZ10 Analog Devices, Inc SOIC-24

#### AD5254BRUZ10

Analog Devices, Inc TSSOP20



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MSOP-10