
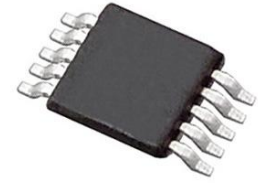


## Digital Potentiometer 10kOhm 256POS Volatile Linear 10-Pin MSOP Tube

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	MSOP10
<b>Product Type:</b>	Data Conversion ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The AD5162 provides a compact 3 mm x 4.9 mm packaged solution for dual 256 position adjustment applications. This device performs the same electronic adjustment function as a 3-terminal mechanical potentiometer. Available in four different end-to-end resistance values (2.5 k $\Omega$ , 10 k $\Omega$ , 50 k $\Omega$ , 100 k $\Omega$ ), this low temperature coefficient device is ideal for high accuracy and stability-variable resistance adjustments.

The wiper settings are controllable through the SPI compatible digital interface. The resistance between the wiper and either end point of the fixed resistor varies linearly with respect to the digital code transferred into the RDAC latch<sup>1</sup>.

Operating from a 2.7 V to 5.5 V power supply and consuming less than 6  $\mu$ A allows the AD5162 to be used in portable battery-operated applications.

For applications that program the AD5162 at the factory, Analog Devices offers device programming software running on Windows<sup>®</sup> NT/2000/XP operating systems. This software effectively replaces the need for external SPI controllers, which in turn enhances the time to market of systems. An AD5162 evaluation kit and software are available. The kit includes a cable and instruction manual.

<sup>1</sup> The terms digital potentiometer, VT, and RDAC are used interchangeably.

## Key Features

2-Channel, 256-position potentiometer  
End-to-End Resistance  
2.5kΩ, 10kΩ, 50kΩ, 100kΩ  
Compact 10-lead MSOP (3 mm x 4.9 mm) package  
Fast settling time>  
Full read/write of wiper register  
Power-On preset to midscale  
Single Supply: 2.7 V to 5.5 V  
Low Temperature  
Coefficient 35 ppm/°C  
Low power,>  
Wide operating temperature: -40°C to +125°C  
Evaluation board available  
Qualified for automotive applications

## Application

Systems calibrations  
Electronics level settings  
Mechanical trimmers replacement in new designs  
Permanent factory PCB setting  
Transducer adjustment of pressure, temperature, position, chemical, and optical sensors  
RF amplifier biasing  
Automotive electronics adjustment  
Gain control and offset adjustment

## Recommended For You

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### AD5262BRUZ200

Analog Devices, Inc  
TSSOP16

### AD8402ARUZ50

Analog Devices, Inc  
TSSOP-14

### AD5160BRJZ50-RL7

Analog Devices, Inc  
SOT23-8

### AD8400ARZ50

Analog Devices, Inc  
SOP8

### AD5280BRUZ20

Analog Devices, Inc  
TSSOP14

### AD5262BRUZ50

Analog Devices, Inc  
TSSOP16

### AD5204BRUZ10

Analog Devices, Inc  
TSSOP24

### AD5207BRUZ10

Analog Devices, Inc  
TSSOP14

### AD5160BRJZ10-R2

Analog Devices, Inc  
SOT23-8

### AD5200BRMZ10

Analog Devices, Inc  
MSOP10

### AD5220BNZI00

Analog Devices, Inc  
8-PDIP

### AD5259BRMZ100-R7

Analog Devices, Inc  
MSOP10

**AD5143BCPZ10-RL7**

Analog Devices, Inc

16-LFCSP

**AD8402ARUZI**

Analog Devices, Inc

TSSOP-14

**AD5263BRUZ200**

Analog Devices, Inc

TSSOP24