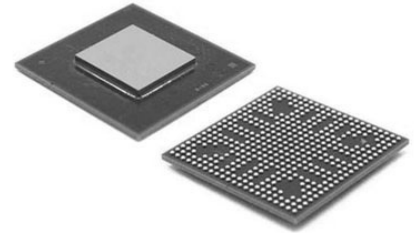


Non Volatile Digital Potentiometer, 10 kohm, Single, I2C, SPI, Logarithmic,  $\pm 8\%$ , 2.3 V

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LFCSP-16
Product Type	D/A Converters (DAC) ; Digital Potentiometers (DigiPOT)
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5141BCPZ10-RL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD5121/AD5141 potentiometers provide a nonvolatile solution for 128-/256-position adjustment applications, offering guaranteed low resistor tolerance errors of  $\pm 8\%$  and up to  $\pm 6$  mA current density in the A, B, and W pins.

The low resistor tolerance and low nominal temperature coefficients simplify open-loop applications as well as applications requiring tolerance matching.

The linear gain setting mode allows independent programming of the resistance between the digital potentiometer terminals, through RAW and RWB string resistors, allowing very accurate resistor matching.

The high bandwidth and low total harmonic distortion (THD) ensure optimal performance for ac signals, making it suitable for filter design.

The low wiper resistance of only  $40 \Omega$  at the ends of the resistor array allows for pin-to-pin connection.

The wiper values can be set through an SPI-/I2C-compatible digital interface that is also used to read back the wiper register and EEPROM contents.

The AD5121/AD5141 is available in a compact, 16-lead,  $3 \text{ mm} \times 3 \text{ mm}$  LFCSP. The devices are guaranteed to operate over the extended industrial temperature range of  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$ .

## Features

10 k $\Omega$  and 100 k $\Omega$  resistance options

Resistor tolerance: 8% maximum

Wiper current:  $\pm 6$  mA

Low temperature coefficient: 35 ppm/ $^{\circ}$ C

Wide bandwidth: 3 MHz

Fast start-up time < 75  $\mu$ s

Linear gain setting mode

Single- and dual-supply operation

Independent logic supply: 1.8 V to 5.5 V

Wide operating temperature:  $-40^{\circ}$ C to  $+125^{\circ}$ C

3 mm  $\times$  3 mm LFCSP

Qualified for automotive applications

## Application

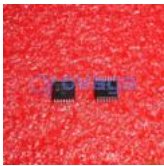
Portable electronics level adjustment

LCD panel brightness and contrast controls

Programmable filters, delays, and time constants

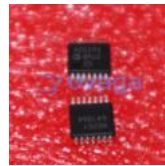
Programmable power supplies

## 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



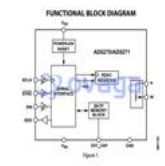
### [AD5254BRUZ10](#)

Analog Devices, Inc  
TSSOP20



### [AD8400ARZ10](#)

Analog Devices, Inc  
SOIC-8



### [AD5270BRMZ-20](#)

Analog Devices, Inc  
MSOP-10