

# AD5144ABRUZ10

Data Sheet

**RFO** 

Non Volatile Digital Potentiometer, 10 kohm, Quad, I2C, Logarithmic,  $\pm$  8%, 1.8 V

Manufacturers	Analog Devices, Inc	and the second sec
Package/Case	TSSOP-20	A ANTIN
Product Type	D/A Converters (DAC) ; Digital Potentiometers (DigiPOT)	ALLE.
RoHS	Rohs	
Lifecycle		Images are for reference only

Please submit RFQ for AD5144ABRUZ10 or Email to us: sales@ovaga.com We will contact you in 12 hours.

### **General Description**

The AD5124/AD5144/AD5144A 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 Ax, Bx, and Wx pins.

The low resistor tolerance and low nominal temperature coefficientsimplify 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 the 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 these devicessuitable for filter design.

The low wiper resistance of only 40  $\Omega$  at the ends of the resistor array allow 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 AD5124/AD5144/AD5144A are available in a compact, 24-lead, 4 mm  $\times$  4 mm LFCSP and a 20-lead TSSOP. The parts regularanteed to operate over the extended industrial temperature of -40°C to +125°C.

### Features

 $10 \text{ k}\Omega$  and  $100 \text{ k}\Omega$  resistance options

Resistor tolerance: 8% maximum

Wiper current:  $\pm 6 \text{ mA}$ 

Low temperature coefficient: 35 ppm/°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°C to +125°C

 $4 \text{ mm} \times 4 \text{ mm}$  package option

#### **Related Products**



AD5292BRUZ-20 Analog Devices, Inc 14TSSOP



### AD5242BRZ10

Analog Devices, Inc SOIC-16







# Analog Devices, Inc

AD5142ABCPZ10-RL7

# AD8400ARZ10

Analog Devices, Inc SOIC-8

### **Application**

Portable electronics level adjustment

LCD panel brightness and contrast controls

Programmable filters, delays, and time constants

Programmable power supplies



## 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



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