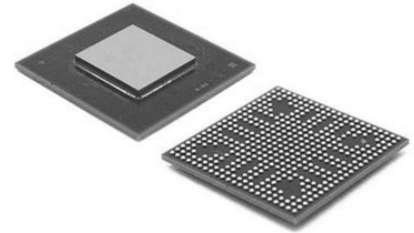


Non Volatile Digital Potentiometer, 10 kohm, Single, I2C, Linear, $\pm 8\%$, 2.3 V

Manufacturers	Analog Devices, Inc
Package/Case	LFCSP-8
Product Type	D/A Converters (DAC) ; Digital Potentiometers (DigiPOT)
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD5110BCPZ10-500R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5110 provides a nonvolatile solution for 128-position adjustment applications, offering guaranteed low resistor tolerance errors of $\pm 8\%$ and up to ± 6 mA current density in the A, B, and W pins. The low resistor tolerance, low nominal temperature coefficient and high bandwidth simplify open-loop applications, as well as tolerance matching applications.

The new low wiper resistance feature minimizes the wiper resistance in the extremes of the resistor array to only 45 Ω , typical.

The wiper settings are controllable through an I2C-compatible digital interface that is also used to readback the wiper register and EEPROM content. Resistor tolerance is stored within EEPROM, providing an end-to-end tolerance accuracy of 0.1%.

The AD5110 is available in a 2 mm \times 2 mm LFCSP package. The parts are guaranteed to operate over the extended industrial temperature range of -40°C to $+125^\circ\text{C}$.

Features

Nominal resistor tolerance error: $\pm 8\%$ maximum

Wiper current: ± 6 mA

Rheostat mode temperature coefficient: 35 ppm/°C

Low power consumption: 2.5 μ A max @ 2.7 V and 125

Wide bandwidth: 4 MHz (5 k Ω option)

Power-on EEPROM refresh time < 50 μ s

50-year typical data retention at 125°C

1 million write cycles

2.3 V to 5.5 V analog supply operation

1.8 V to 5.5 V logic supply operation

Wide operating temperature: -40°C to +125°C

Thin, 2 mm \times 2 mm \times 0.55 mm 8-lead LFCSP package

Application

Mechanical potentiometer replacement

Portable electronics level adjustment

Audio volume control

Low resolution DAC

LCD panel brightness and contrast control

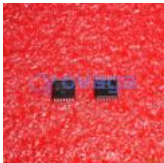
Programmable voltage to current conversion

Programmable filters, delays, time constants

Feedback resistor programmable power supply

Sensor calibration

Related Products



[AD5292BRUZ-20](#)

Analog Devices, Inc
14TSSOP



[AD5242BRZ10](#)

Analog Devices, Inc
SOIC-16



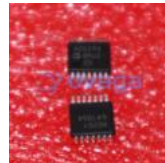
[AD5142ABCPZ10-RL7](#)

Analog Devices, Inc
LFCSP-16



[AD8400ARZ10](#)

Analog Devices, Inc
SOIC-8



[AD5293BRUZ-20](#)

Analog Devices, Inc
TSSOP-14



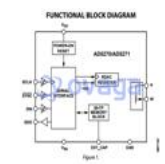
[AD8403ARZ10](#)

Analog Devices, Inc
SOIC-24



[AD5254BRUZ10](#)

Analog Devices, Inc
TSSOP20



[AD5270BRMZ-20](#)

Analog Devices, Inc
MSOP-10