AD5220BRZ10

Digital Potentiometer 10kOhm 128POS Volatile 8-Pin SOIC N Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP8
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The AD5220 contains a single channel, 128 position, digitally-controlled variable resistor (VR) device. This device performs the same electronic adjustment function as a potentiometer or variable resistor optimized for portable instrument and test equipment "push button" applications. A wide selection of end-to-end terminal resistance values ranging from 10 K to 100 K Ohms addresses wide bandwidth to low power dissipation applications. The 10K Ohm part offers 650 KHz bandwidth while the 100 K Ohm device reduces power consumption to micro-watt levels.

The chip select CS, count CLK and U/D direction control inputs set the variable resistor position. These control inputs are readily generated with mechanical or push button switches (or other contact closure devices). Internal power ON presets the wiper to midscale. Wipers increment to the end of the POT, no rollover to the other end occurs. This simple digital interface eliminates the need for micro controllers in front panel interface designs.

Primary applications for the AD5220 include Mechanical Potentiometer Replacement in new designs, Remote Incremental Adjustment Applications, Instrumentation - Gain and Offset Adjustment, Programmable Voltage to Current Conversion, Programmable Filters, Delays, Time Constants, Alarm Sound or Brightness level setting, and Power Supply voltage adjustment.

The AD5220 is available in both surface mount (SO-8) and the 8-lead plastic DIP package. For ultra compact solutions selected models are available in the microSOIC-8 package. All parts are guaranteed to operate over the extended industrial temperature range of -40°C to +85°C. For 3-wire, SPI-compatible interface applications, see the AD7376/AD8400/AD8402/AD8403 series of digital potentiometer products.

Key Features

Increment/decrement count control

40µA Maximum very low power

Application

Mechanical Potentiometer

Replacement Remote

Incremental Adjustment Applications Instrumentation: Gain, Offset Adjustment

Programmable Voltage-to-Current Conversion

Programmable Filters, Delays, Time Constants

Line Impedance Matching

Power Supply Adjustment

Recommended For You

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

AD5220BNZ100

Analog Devices, Inc

8-PDIP

AD5259BRMZ100-R7

Analog Devices, Inc

MSOP10

AD5143BCPZ10-RL7

Analog Devices, Inc

16-LFCSP

AD8402ARUZ1

Analog Devices, Inc

TSSOP-14

AD5263BRUZ200

Analog Devices, Inc

TSSOP24