

## Digital Potentiometer 10kOhm 128POS Volatile 14-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** RoHS

**Product Type:** Data Conversion ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The AD5222 contains two, 128-position, digitally-controlled variable resistors (VR). This part performs the same electronic adjustment function as a potentiometer, trimmer, or variable resistor. . The fixed A-to-B terminal resistance of 10 K, 50 K, 100 K, or 1 M Ohm has a 1% channel-to-channel matching tolerance with a nominal temperature coefficient of -300 ppm/°C. These products were optimized for portable instrument and test equipment "push button" applications.

The chip select CS, count CLK and U/D direction control inputs set the variable resistor position. A MODE control determines whether both VRs are incremented together or independently. With MODE at logic zero, both wipers are incremented UP or DOWN without changing the relative settings between the wipers. The relative ratio between the wipers is preserved if either wiper reaches the end of the resistor array. In the independent MODE (logic one) only the VR determined by the DACSEL pin is changed. This simple "push button" controlled interface eliminates the need for Micro Controllers in front panel interface designs.

The AD5222 is available in the surface mount (SO-14) package. For ultra compact solutions selected models are available in the thin TSSOP-14 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 AD5203/AD5206/AD7376/AD8400/AD8402/AD8403 products.

### Key Features

128 Position

Potentiometer Replacement

10K, 50K, 100K, 1M Ohm

Very Low Power - 40  $\mu$ A Max

Increment/Decrement Count Control

Or  $\pm 2.7$ V Dual-Supply Operation

Internal Power ON Mid-Scale Preset

### 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

**AD8402ARUZI**

Analog Devices, Inc  
TSSOP-14

**AD5263BRUZ200**

Analog Devices, Inc  
TSSOP24