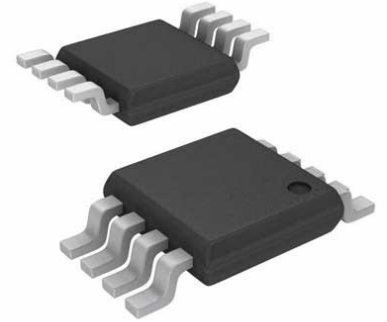


## Digital Potentiometer 50kOhm 32POS Volatile Linear 8-Pin uMAX



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Maxim Integrated](#)

**Package/Case:** MSOP8

**Product Type:** Data Conversion ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The MAX5160/MAX5161 linear-taper digital potentiometers perform the same function as a mechanical potentiometer or a variable resistor. They consist of a fixed resistor and a wiper contact with 32 tap points that are digitally controlled by three lines for the 8-pin MAX5160 or by two lines for the 6-pin MAX5161. These parts are ideal for applications requiring digitally controlled resistors. Three resistance values are available for each part type: 50kΩ, 100kΩ, and 200kΩ. A nominal resistor temperature coefficient of 50ppm/°C end-to-end and only 5ppm/°C ratiometric makes the MAX5160 ideal for applications requiring a low-temperature-coefficient variable resistor, such as low-tempco, adjustable-gain circuit configurations. The MAX5160 is available in an 8-pin μMAX package, and the MAX5161 is available in a 6-pin SOT23 package. Both devices are guaranteed over the extended-industrial temperature range (-40°C to +85°C).

### Key Features

Supply voltage range is 2.7V to 5.5V

Operating temperature range from -40°C to 85°C

Supports serial interface, 3-wire serial data input

Resistance values is 50Kohm

32 tap positions

Wiper resistance of 400 ohm

Resistive tolerance of ±25%, 100nA supply current

±1LSB DNL, ±0.5LSB INL & ±2KV ESD protection

Power-on reset, wiper goes to midscale (position 16)

Glitchless switching between the resistor taps

### Application

LCD Screen Adjustment

Mechanical Potentiometer Replacements

Volume Control

### Recommended For You

**MAX5481EUD+**

Maxim Integrated

TSSOP14

**MAX5436EUB+**

Maxim Integrated

MSOP10

**MAX5477EUD+**

Maxim Integrated

TSSOP14

**MAX5427EUA+**

Maxim Integrated

MSOP8

**MAX5419NETA+**

Maxim Integrated

TDFN

**MAX5497ETE+**

Maxim Integrated

TQFN16

**MAX5489EUD+**

Maxim Integrated

TSSOP

**MAX5406EUM+T**

Maxim Integrated

48-TSSOP

**MAX5406EUM+**

Maxim Integrated

48-TSSOP

**MAX5422ETA+T**

Maxim Integrated

QFN8

**MAX5388NAUB+**

Maxim Integrated

50

**MAX5495ETE+**

Maxim Integrated

DFN

**MAX5529GUA+**

Maxim Integrated

MSOP8

**MAX5395LATA+T**

Maxim Integrated

TDFN-8

**MAX5387MAUD+**

Maxim Integrated

TSSOP14