

Digital Potentiometer 12k $\Omega$  256-Position Linear 2-Channel SPI 14-Pin SOIC

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOIC-14
Product Type	Digital Potentiometer ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP42010-I/SL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The MCP42010 is a dual-channel, 8-bit digital potentiometer features 10k $\Omega$  end-to-end resistance value with an SPI serial interface. The wiper position varies linearly and is controlled via the SPI interface. The MCP42010 has outstanding AC and DC characteristics, and consumes <1  $\mu$ A during static operation. Applications for the MCP42010 digital potentiometer include audio equipment (volume and tone controls), servo-motor control, battery charging and control, communications (line impedance matching), power supplies, instrumentation (gain, offset adjust), LCD contrast control and programmable filters. The MCP42010 is available in 8-pin PDIP and SOIC packages.

## Features

Two Resistor Networks

Potentiometer or Rheostat configuration options

Resistor Network Resolution

8-bit: 255 Resistors (256 Steps)

RAB Resistances options of:

10k $\Omega$

Zero-Scale to Full-Scale Wiper operation

INL: 1LSB (max)

DNL: 1LSB (max)

SPI Compatible Serial interface

Standby current: 1uA (max)

Wide Operating Voltage: 2.7V to 5.5V

Wide Bandwidth (-3dB) Operation: 1 MHz (typ.)

Extended temperature range: -40°C to +125°C

## Related Products



### [MCP4352T-104E/ST](#)

Microchip Technology, Inc  
TSSOP-14



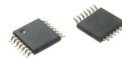
### [MCP4661T-103E/ML](#)

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### [MCP45HV51-503E/ST](#)

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### [MCP45HV51-502E/ST](#)

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### [MCP41HV51-104E/ST](#)

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