

Digital Potentiometer 10kOhm 256POS Volatile Linear 8-Pin SOIC N T/R

Manufacturers	Microchip Technology, Inc
Package/Case	SOIC-8
Product Type	Digital Potentiometer ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP41010T-I/SN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MCP41010 is a single-channel, 8-bit digital potentiometer features 10kΩ end-to-end resistance value with an SPI serial interface. The wiper position varies linearly and is controlled via the SPI interface. The MCP41010 has outstanding AC and DC characteristics, and consumes <1 μA during static operation. Applications for the MCP41010 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 MCP41010 is available in 8-pin PDIP and SOIC packages.

Features

Single Resistor Network

Potentiometer or Rheostat configuration options

Resistor Network Resolution

8-bit: 255 Resistors (256 Steps)

RAB Resistances options of:

10k Ω

Zero-Scale to Full-Scale Wiper operation

INL: 1LSB (max)

DNL: 1LSB (max)

SPI Compatible Serial interface

Standby current: 1 μ A (max)

Wide Operating Voltage: 2.7V to 5.5V

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

Extended temperature range: -40 $^{\circ}$ C to +125 $^{\circ}$ C

Related Products



[MCP4352T-104E/ST](#)

Microchip Technology, Inc
TSSOP-14



[MCP4661T-103E/ML](#)

Microchip Technology, Inc
QFN-16



[MCP45HV51-503E/ST](#)

Microchip Technology, Inc
TSSOP-14



[MCP45HV51-502E/ST](#)

Microchip Technology, Inc
TSSOP-14



[MCP41HV51-104E/ST](#)

Microchip Technology, Inc
TSSOP-14



[MCP41HV51-103E/ST](#)

Microchip Technology, Inc
TSSOP-14



[MCP42100-I/SL](#)

Microchip Technology, Inc
SOIC-14



[MCP4461-103E/ST](#)

Microchip Technology, Inc
TSSOP-20