

Volatile Digital Potentiometer, 50 kohm, Single, Serial, SPI, Linear, 2.7 V

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 MCP41050-I/SN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MCP41050 is a single-channel, 8-bit digital potentiometer features 50kΩ end-to-end resistance value with an SPI serial interface. The wiper position varies linearly and is controlled via the SPI interface. The MCP41050 has outstanding AC and DC characteristics, and consumes <1 μA during static operation. Applications for the MCP41050 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 MCP41050 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:

50k 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: 280 MHz (typ.)

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

Related Products



[MCP4352T-104E/ST](#)

Microchip Technology, Inc
TSSOP-14



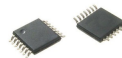
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