

Digital Potentiometer 50kOhm 257POS Volatile Linear Automotive 14-Pin TSSOP Tube

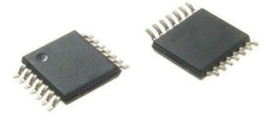
Manufacturer: [Microchip Technology, Inc](#)

Package/Case: TSSOP-14

Product Type: Data Conversion ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The MCP465X devices are dual channel, volatile, 8-bit (257 wiper steps) digital potentiometers with an I2C compatible interface. The MCP46XX family is available with end-to-end resistor values of 5K Ω , 10K Ω , 50k Ω and 100K Ω . These devices offer a variety of configurations simplifying design while minimizing cost, package size and pin count.

Key Features

Potentiometer or Rheostat configuration options

Resistor Network Resolution

8-bit: 256 Resistors (257 Steps)

RAB Resistances options of:

5k Ω

10k Ω

50k Ω

100k Ω

Zero-Scale to Full-Scale Wiper operation

Low Wiper Resistance: 75 Ω (typ.)

Low Tempco:

Absolute (Rheostat): 50 ppm typical(0°C to 70°C)

Ratiometric (Potentiometer): 15 ppm typical

I2C™Compatible Serial interface

100 kHz

400 kHz

3.4 MHz

Brown-out reset protection (1.5V typical)

Serial Interface Inactive current (2.5 uA typ.)

High-Voltage Tolerant Digital Inputs: Up to 12.5V

Wide Operating Voltage:

2.7V to 5.5V - Device Characteristics Specified

1.8V to 5.5V - Device Operation

Wide Bandwidth (-3dB) Operation:

2 MHz (typ.) for 5.0 k Ω device

Extended temperature range (-40°C to +125°C)

AEC-Q100 Grade 1 qualified

Recommended For You

MCP41010-I/SN

Microchip Technology, Inc
SOP8

MCP4011-103E/MS

Microchip Technology, Inc
MSOP8

MCP42100-E/ST

Microchip Technology, Inc
TSSOP14

MCP40D18T-103E/LT

Microchip Technology, Inc
SC70-6

MCP4231-103E/P

Microchip Technology, Inc
PDIP14

MCP4151-104E/P

Microchip Technology, Inc
PDIP

MCP41010-I/P

Microchip Technology, Inc
DIP8

MCP4151-103E/P

Microchip Technology, Inc
PDIP

MCP41HV51-502E/ST

Microchip Technology, Inc
TSSOP14

MCP4011-503E/SN

Microchip Technology, Inc
SOP-8

MCP4017T-104E/LT

Microchip Technology, Inc
SC70-6

MCP4151-503E/P

Microchip Technology, Inc
PDIP-8

MCP4151-103E/SN

Microchip Technology, Inc
SOP8

MCP4011-103E/SN

Microchip Technology, Inc
SOP8

MCP42010-I/ST

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TSSOP14