

Digital Potentiometer 50kOhm 64POS Volatile Linear Automotive 8-Pin SOIC N Tube



Images are for reference only

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP-8

Product Type: Data Conversion ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The MCP401X devices are volatile, 6-bit (64 wiper steps) digital potentiometers with a simple up/down serial interface. The MCP401X devices offer a variety of configurations simplifying design while minimizing cost, package size and pin count. The MCP4011 device offers a voltage divider (potentiometer), with all terminals available on pins. The MCP4012 is a true rheostat, with both nodes of the resistor available on pins. The MCP4013 device offers a voltage divider (potentiometer), with one terminal connected to ground. The MCP4014 device is a rheostat mode device, with one terminal of the resistor connected to ground. The MCP401X family of devices are available with resistor values of 2.1k Ω , 5k Ω , 10k Ω and 50k Ω . These devices operate from a single 1.8V-5.5V supply and draw less than 1 μ A while operating in the static state.

Key Features

Volatile Digital Potentiometer in SOT-23 packages

64 Taps: 63 Resistors with Taps to VSS and VDD

Simple Up/Down (U/D) Protocol

Power-up to midscale

Resistance Values: 2.1k Ω , 5k Ω , 10k Ω , 50k Ω

Low Tempco:

Absolute (Rheostat): <150 ppm (typ.)

Ratiometric (Potentiometer): <10 ppm (typ.)

Low Wiper Resistance: 70 Ω (typ.)

Low-Power Operation: 1 μ A Max Static Current

Wide Operating Voltage: 1.8V to 5.5V

Extended Temperature Range: -40 $^{\circ}$ C to +125 $^{\circ}$ C

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

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

Microchip Technology, Inc
TSSOP14

MCP4011-202E/SN

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SOIC