

Low-Cost 64-Step Volatile Digital POT, Digital Potentiometer ICs 5k U/Dsingle 6-bit V POT

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



Images are for reference only

Please submit RFQ for MCP4011T-502E/MC or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

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.

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

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