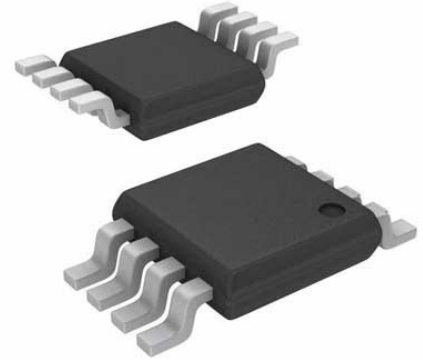


7/8-Bit Single/Dual I2C Digital POT with Non-Volatile Memory ; 8L MSOP 3x3mm,Digital Potentiometer ICs Sngl 7B NV I2C POT



Images are for reference only

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	MSOP-8
Product Type	Digital Potentiometer ICs
RoHS	Rohs
Lifecycle	

Please submit RFQ for MCP4541T-103E/MS or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The MCP454X devices are single channel, non-volatile, 7-bit (129 wiper steps) digital potentiometers with EEPROM and an I2C compatible interface. The MCP454X family is available with end-to-end resistor values of 5K $\Omega$ , 10K $\Omega$ , 50k $\Omega$  and 100K $\Omega$ . These devices offer WiperLock™ Technology which allows the user unlimited reprogramming and locking of the wiper setting. It is useful for equipment that requires factory trimming or recalibration. The MCP454X devices offer a variety of configurations simplifying design while minimizing cost, package size and pin count.

## Features

SingleResistor Network

Potentiometer or Rheostat configuration options

Resistor Network Resolution:

7-bit: 128 Resistors (129 Steps)

Four RAB Resistances options:

5k $\Omega$

10k $\Omega$

50k $\Omega$

100k $\Omega$

Zero-scale to Full-scale Wiper Operation

Low Wiper Resistance – 75  $\Omega$  typical

Low Tempco:

Absolute (Rheostat) – 50 ppm typical (0°-70°C)

Ratiometric (Potentiometer) – 15 ppm typical

I2C™Compatible Serial Interface Support:

100 kHz

400 kHz

3.4 MHz

Brown-out Reset Protection – 1.5V typical

Serial Interface Inactive Current – 2.5 uA typical

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 (-3 dB) Operation – 2 MHz typical for 5.0  $\Omega$  Device

Extended Temperature Range (-40°C to +125°C)

AEC-Q100 Grade 1 qualified

## 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