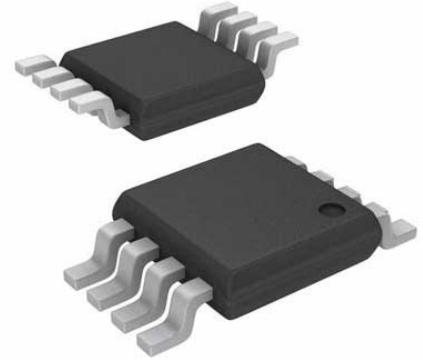


7/8-Bit Single/Dual I2C Digital POT with Volatile Memory ; 8L MSOP 3x3mm,Digital Potentiometer ICs Sngl 8B V I2C POT

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



Images are for reference only

Please submit RFQ for MCP4551-103E/MS or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MCP455X devices are single channel, volatile, 8-bit (257 wiper steps) digital potentiometers with an I2C compatible interface. The MCP455X 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.

Features

SingleResistor Network

Potentiometer or Rheostat configuration options

Resistor Network Resolution:

8-bit: 256 Resistors (257 Steps)

Four RAB Resistances options:

5 k Ω

10 k Ω

50 k Ω

100 k Ω

Zero-scale to Full-scale Wiper Operation

Low Wiper Resistance – 75 Ω 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 Ω 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