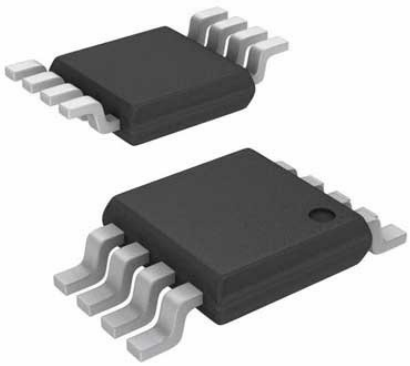
MCP4561-104E/MS

Data Sheet

Non Volatile Digital Potentiometer, 100 kohm, Single, I2C, Serial, Linear, ± 20%, 2.7 V

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 MCP4561-104E/MS or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The MCP456X devices are single channel, non-volatile, 8-bit (257 wiper steps) digital potentiometers with EEPROM and an I2C compatible interface. The MCP456X family is available with end-to-end resistor values of 5KΩ, 10KΩ, 50kΩ and 100KΩ. 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 MCP456X devices offer a variety of configurations simplifying design while minimizing cost, package size and pin count.

Features

Single Resistor Network

Potentiometer or Rheostat configuration options

Resistor Network Resolution

8-bit: 256 Resistors (257 Steps)

RAB Resistances options of:

Zero-Scale to Full-Scale Wiper operation

Low Wiper Resistance: 75Ω (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 kΩ 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]

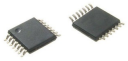
Microchip Technology, Inc

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