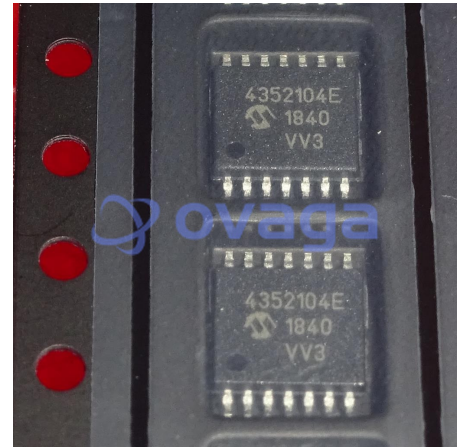


Digital Potentiometer ICs 100k SPI Qd Ch 8-Bit Volatile memory

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	TSSOP-14
Product Type	Digital Potentiometer ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP4352T-104E/ST or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The MCP435X devices are quad-channel, volatile, 8-bit (257 wiper steps) digital potentiometers with an SPI compatible interface. The MCP435X family is available with end-to-end resistor values of 5K $\Omega$ , 10K $\Omega$ , 50k $\Omega$  and 100K $\Omega$ . These devices offer a variety of configurations simplifying design while minimizing cost, package size and pin count.

## Features

Quad Resistor Network

Potentiometer or Rheostat Configuration Options

Resistor Network Resolution:

8-bit: 256 Resistors (257 Taps)

RAB Resistances Options of:

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°C to 70°C)

Ratiometric (Potentiometer): 15 ppm typical

SPI Serial Interface (10 MHz, Modes 0,0 and 1,1):

High-Speed Read/Writes to wiper registers

Resistor Network Terminal Disconnect Feature via Terminal Control (TCON) Register

Reset Input Pin

Brown-out Reset Protection (1.5V typical)

Serial Interface Inactive Current (2.5  $\mu$ A typical)

High-Voltage Tolerant Digital Inputs: Up to 12.5V

Supports Split Rail Applications

Wide Operating Voltage:

2.7V to 5.5V – Device Characteristics Specified

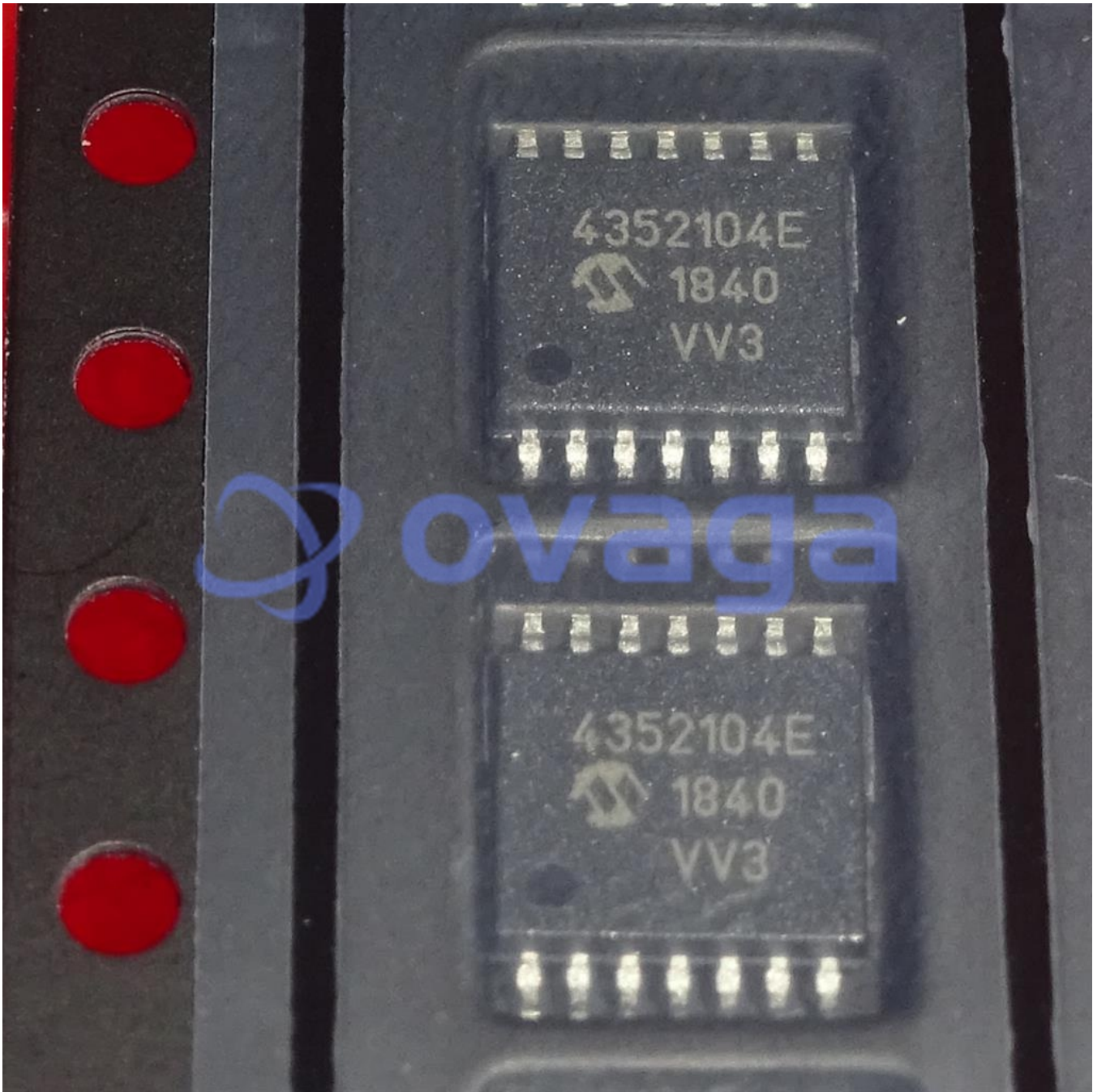
1.8V to 5.5V – Device Operation

Wide Bandwidth (-3 dB) Operation:

2 MHz (typical) for 5.0 k $\Omega$  device

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

AEC-Q100 Grade 1 qualified



### Related Products



#### [MCP4661T-103E/ML](#)

Microchip Technology, Inc  
QFN-16

#### [MCP45HV51-502E/ST](#)



Microchip Technology, Inc  
TSSOP-14

#### [MCP45HV51-503E/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



[MCP4362-503E/ST](#)

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