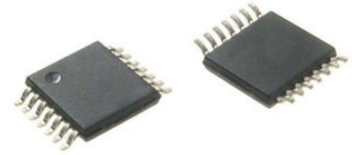


Volatile Digital Potentiometer, 100 kohm, Single, SPI, Linear, $\pm 20\%$, 1.8 V

Manufacturers	Microchip Technology, Inc
Package/Case	TSSOP-14
Product Type	Digital Potentiometer ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MCP41HV51-104E/ST or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MCP41HV51 is a single-channel, high voltage digital potentiometer (Digipot) family that supports 10V ~36V or +/-5V to +/-18V power rails. It features 8-bit resolution with SPI interface. This family is available in TSSOP-14 and QFN-20 (5x5) packages and has 5k Ω , 10 k Ω , 50 k Ω , and 100 k Ω end-to-end resistance(RAB) options . All parts are guaranteed to operate over -40°C to $+125^{\circ}\text{C}$ extended temperature range. Microchip's MCP41HVX1 and MCP45HVX1 digital potentiometer (Digipot) families offer the widest operating voltage range that is currently available on the market.

Features

High-Voltage Analog Support:

Wide Operating Voltage:

Analog: 10V to 36V (specified performance)

Digital: 2.7V to 5.5V

Resistor Network Resolution

8-bit: 255 Resistors (256 Taps)

RAB Resistance Options:

5k Ω

10k Ω

50k Ω

100k Ω

High Terminal/Wiper Current (IW) Support:

25 mA (for 5k Ω)

12.5 mA (for 10 k Ω)

6.5 mA (for 50 k Ω and 100 k Ω)

Zero-Scale to Full-Scale Wiper Operation

Low Wiper Resistance: 75 Ω (Typical)

Low Tempco:

Absolute (Rheostat): 50 ppm Typical(0 $^{\circ}$ C to +70 $^{\circ}$ C)

Ratiometric (Potentiometer): 15 ppm Typical

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

Resistor Network Terminal Disconnect Via:

Shutdown Pin (SHDN)

Terminal Control (TCON) Register

Write Latch (WLAT) Pin to control update of Volatile Wiper Register (such as Zero Crossing)

Power-On Rest / Brown-Out Reset for both:

Digital Supply (VL/DGND); 1.5V Typical

Analog Supply (V+ / V-); 3.5V Typical

Serial Interface Inactive Current (3 μ A Typical)

500 kHz Typical Bandwidth (-3 dB) Operation(5.0 k Ω Device)

Extended Temperature Range (-40 $^{\circ}$ C to +125 $^{\circ}$ C)

Package Types: TSSOP-14 and QFN-20 (5x5)

Related Products



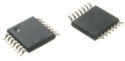
[MCP4352T-104E/ST](#)

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



[MCP41HV51-103E/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](#)

Microchip Technology, Inc
TSSOP-14