
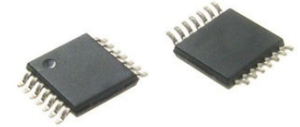


Digital Potentiometer 5kOhm 256POS Volatile Linear 14-Pin TSSOP Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	TSSOP14
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

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 5kΩ, 10 kΩ, 50 kΩ, and 100 kΩ end-to-end resistance(RAB) options . All parts are guaranteed to operate over -40°C to +125°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.

Key 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:

5kΩ

10kΩ

50kΩ

100kΩ

High Terminal/Wiper Current (IW) Support:

25 mA (for 5kΩ)

12.5 mA (for 10 kΩ)

6.5 mA (for 50 kΩ and 100 kΩ)

Zero-Scale to Full-Scale Wiper Operation

Low Wiper Resistance: 75Ω (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)

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 μA Typical)

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

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

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

Recommended For You

MCP41010-I/SN

Microchip Technology, Inc
SOP8

MCP4011-103E/MS

Microchip Technology, Inc
MSOP8

MCP42100-E/ST

Microchip Technology, Inc
TSSOP14

MCP40D18T-103E/LT

Microchip Technology, Inc
SC70-6

MCP4231-103E/P

Microchip Technology, Inc
PDIP14

MCP4151-104E/P

Microchip Technology, Inc
PDIP

MCP41010-I/P

Microchip Technology, Inc
DIP8

MCP4151-103E/P

Microchip Technology, Inc
PDIP

MCP4011-503E/SN

Microchip Technology, Inc
SOP-8

MCP4017T-104E/LT

Microchip Technology, Inc
SC70-6

MCP4151-503E/P

Microchip Technology, Inc
PDIP-8

MCP4151-103E/SN

Microchip Technology, Inc
SOP8

MCP4011-103E/SN

Microchip Technology, Inc

SOP8

MCP42010-I/ST

Microchip Technology, Inc

TSSOP14

MCP4011-202E/SN

Microchip Technology, Inc

SOIC