

## Digital Potentiometer 100kOhm 256POS Volatile Linear 8-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** SOP8

**Product Type:** Data Conversion ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The MCP41100 is a single-channel, 8-bit digital potentiometer features 100kΩ end-to-end resistance value with an SPI serial interface. The wiper position varies linearly and is controlled via the SPI interface. The MCP41100 has outstanding AC and DC characteristics, and consumes <1 μA during static operation. Applications for the MCP41100 digital potentiometer include audio equipment (volume and tone controls), servo-motor control, battery charging and control, communications (line impedance matching), power supplies, instrumentation (gain, offset adjust), LCD contrast control and programmable filters. The MCP41100 is available in 8-pin PDIP and SOIC packages.

### Key Features

Single Resistor Network

Potentiometer or Rheostat configuration options

Resistor Network Resolution

8-bit: 255 Resistors (256 Steps)

RAB Resistances options of:

100kΩ

Zero-Scale to Full-Scale Wiper operation

INL: 1LSB (max)

DNL: 1LSB (max)

SPI Compatible Serial interface

Standby current: 1uA (max)

Wide Operating Voltage: 2.7V to 5.5V

Wide Bandwidth (-3dB) Operation: 145 MHz (typ.)

Extended temperature range: -40°C to +125°C

## 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

### **MCP41HV51-502E/ST**

Microchip Technology, Inc  
TSSOP14

### **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