

## DAC 2-CH Resistor-String 12-bit Automotive 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

MCP4822 is a dual channel 12-bit Digital-to-Analog converter (DAC) with internal voltage reference. This device offers high accuracy and low power consumption, and is available in various packages. Communication with the device is accomplished via a simple serial interface using SPI protocols. The MCP4822 device is a part of the MCP4802/MCP4812/MCP4822 product family, which are dual channel 8-bit/10-bit/12-bit DACs with internal voltage reference (VREF). These devices provide very high accuracy and low noise performance, and are suitable for consumer and industrial applications, such as set point control, offset adjustment and sensor calibration applications. The low power consumption and small package options make these devices very attractive for many portable and battery-powered applications. If one output is needed then the MCP4801/4811/4821 single channel product family can be used.

### Key Features

Rail to rail output

SPI interface with 20MHz clock support

Simultaneous latching of dual DACs

Fast settling time of 4.5 $\mu$ s

Selectable unity or 2x gain output

50ppm/ $^{\circ}$ C VREF temperature coefficient

Single supply operation from 2.7V to 5.5V

Operating temperature range from -40 $^{\circ}$ C to 125 $^{\circ}$ C

### Recommended For You

**MCP3911A0-E/SS**

Microchip Technology, Inc  
SSOP20

**MCP3008-I/P**

Microchip Technology, Inc  
DIP-16

**MCP3201T-CI/SN**

Microchip Technology, Inc  
SOP8

**MCP3208-CI/P**

Microchip Technology, Inc  
DIP

**MCP3001-I/SN**

Microchip Technology, Inc  
SOP8

**MCP3208-BI/P**

Microchip Technology, Inc  
DIP-16

**MCP4822-E/P**

Microchip Technology, Inc  
DIP-8

**MCP3421A0T-E/CH**

Microchip Technology, Inc  
SOT23-6

**MCP3425A0T-E/CH**

Microchip Technology, Inc  
SOT23-6

**MCP3427-E/UN**

Microchip Technology, Inc  
MSOP10

**MCP3550-50E/SN**

Microchip Technology, Inc  
SOP8

**MCP3422A0-E/SN**

Microchip Technology, Inc  
SOP-8

**MCP3553-E/SN**

Microchip Technology, Inc  
SOP8

**MCP3422A1-E/SN**

Microchip Technology, Inc  
SOP-8

**MCP3208T-CI/SL**

Microchip Technology, Inc  
SOP