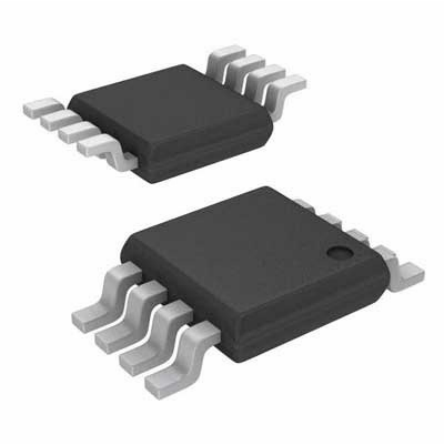
MCP4822-E/MS

Data Sheet

12-Bit DACs with Internal VREF and SPI⑩ Interface,Counter Shift Registers Dual 12-bit DAC

Manufacturers	Microchip Technology, Inc
Package/Case	MSOP-8
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP4822-E/MS or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

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.

Features

12-bit Resolution

Dual Channel Voltage Output

2.7V to 5.5V Operation

Operating Current 415 µA (typ)

Internal Voltage Reference 2.048V

Selectable Unity or 2x Gain Output

INL ±2 LSB (typ)

DNL ±0.75 LSB (max)

Output Settling Time 4.5 µs

SPI Interface

8-pin PDIP, SOIC, MSOP packages

Temperature Range -40°C to +125°C

AEC-Q100 Grade 1 qualified

Related Products

MCP4706A0T-E/CH

Microchip Technology, Inc

SOT-23-6

MCP3903-I/SS

Microchip Technology, Inc

SSOP-28

MCP4922-E/SL

Microchip Technology, Inc

SOIC-14

MCP48CVB21-E/UN

Microchip Technology, Inc

10-TFSOP, 10-MSOP (0.118, 3.00mm Width)

MCP4716A0T-E/MAY

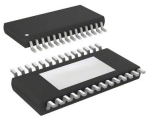
Microchip Technology, Inc

DFN-6

MCP4728A1T-E/UN

Microchip Technology, Inc

DFN-10



MCP3564RT-E/ST

Microchip Technology, Inc

TSSOP-20

MCP3204-CI/ST

Microchip Technology, Inc

TSSOP-14