

Digital to Analog Converters - DAC Sngl 10B NV DAC w/Ex Vref & I2C interface

Manufacturers	Microchip Technology, Inc
Package/Case	DFN-6
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP4716A0T-E/MAY or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MCP4716 is a single channel, 10-bit, voltage output Digital-to-Analog Converter with integrated EEPROM and an I2C Compatible Serial Interface. The MCP47X6 DAC family offers integrated non-volatile memory (EEPROM) which allows DAC register and configuration bit values to be saved at powered off. The VREF pin or the device VDD can be selected as the DAC's reference voltage. Power-Down modes enable system current reduction when the DAC output voltage is not required. These devices are available in small 6-pin SOT-23 and DFN 2x2 mm packages.

Features

12-bit Resolution

Rail-to-Rail Output

Fast Settling Time of 6 μ s (typical)

DAC Voltage Reference Options:

VDD

VREF

Output Gain Options:

Unity (1x)

2x, only when VREF is used as voltage source

Non-Volatile Memory (EEPROM)

Auto Recall of Saved DAC register setting

Auto Recall of Saved Device Configuration (Voltage Reference, Gain, Power Down)

Power-Down Modes:

Disconnects output buffer

Selection of VOUT pull-down resistors (640 kohm, 125 kohm, or 1 kohm)

Low Power Consumption

Normal Operation: 210 μ A typ.

Power Down Operation: 60 nA typ.>

Single-Supply Operation: 2.7V to 5.5V

I2C™ Interface:

Eight Available Addresses

Standard (100 kbps), Fast (400 kbps), and High-Speed (3.4 Mbps) Modes

Small 6-lead SOT-23 and DFN (2x2) Packages

Extended Temperature Range: -40°C to +125°C

AEC-Q100 Grade 1 qualified



Related Products



[MCP4706A0T-E/CH](#)

Microchip Technology, Inc
SOT-23-6



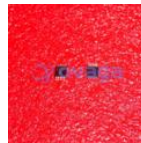
[MCP3903-I/SS](#)

Microchip Technology, Inc
SSOP-28



[MCP4922-E/SL](#)

Microchip Technology, Inc
SOIC-14



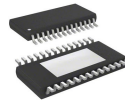
[MCP48CVB21-E/UN](#)

Microchip Technology, Inc
10-TFSOP, 10-MSOP (0.118, 3.00mm Width)



[MCP4728A1T-E/UN](#)

Microchip Technology, Inc
DFN-10



[MCP3564RT-E/ST](#)

Microchip Technology, Inc
TSSOP-20



[MCP3204-CI/ST](#)

Microchip Technology, Inc
TSSOP-14



[MCP3301-CI/SN](#)

Microchip Technology, Inc
SOIC-8