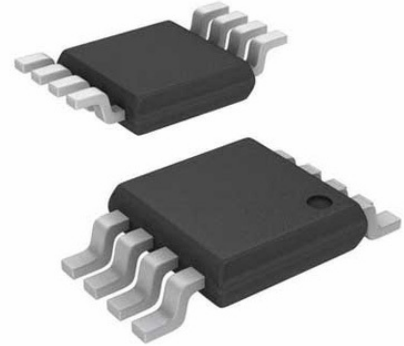


Digital to Analogue Converter, 12 bit, 3.4 MSPS, I2C, 1.8V to 5.5V, TSSOP, 8 Pins

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



Images are for reference only

Please submit RFQ for MCP47FEB22A0-E/ST or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

MCP47FEB22 is a dual channel, 12-bit, voltage output Digital-to-Analog Converter with EEPROM and an I2C Compatible Serial Interface. This device provides four different voltage reference options: device VDD, external VREF (buffered or unbuffered) and internal bandgap. It offers high AC performance, low power consumption and fast settling time. The device has integrated EEPROM to save DAC settings at power down. It is suitable for consumer and industrial applications, such as set point control, offset adjustment and sensor calibration applications, and portable instrument. For different resolutions and number of output channels, please check out our other parts in the MCP47FEBxx family

Features

12-bit Resolutions

Rail-to-Rail Output

Fast Settling Time: 6 μ s (typ)

DAC Voltage Reference Options:

Device VDD

External VREF (buffered or unbuffered)

Internal Bandgap (1.22V typ)

Output Gain Options:

Unity (1x)

2x (when not using internal VDD as voltage source)

Non-Volatile Memory (EEPROM)

User programmed POR/BOR output setting recall and Device Configuration bits

Auto Recall of Saved DAC register setting

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

Power-Down modes:

Disconnects output buffer (High Impedance)

Selection of VOUT pull-down resistors (100 k Ω or 1 k Ω)

Low Power Consumption

Normal Operation: 380 μ A (max)

Power Down Operation: 650nA (typ)

EEPROM write cycle: 1.9mA (max)

Single-Supply Operation: 2.7V to 5.5V

I²C[™] Interface

8-lead TSSOP Package

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

Related Products



[MCP4706A0T-E/CH](#)

Microchip Technology, Inc
SOT-23-6



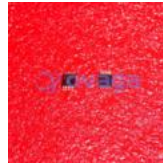
[MCP3903-I/SS](#)

Microchip Technology, Inc
SSOP-28



[MCP4922-E/SL](#)

Microchip Technology, Inc
SOIC-14



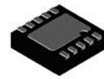
[MCP48CVB21-E/UN](#)

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



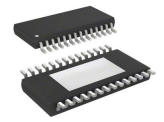
[MCP4716A0T-E/MAY](#)

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