
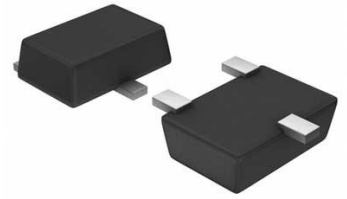


1-Channel Single ADC SAR 22.3ksps 12-bit Serial Automotive 5-Pin SOT-23 T/R

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOT23-5
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The MCP3221 is a successive approximation A/D converter with 12-bit resolution. Available in the SOT-23 package, this device provides one single-ended input with very low power consumption. The MCP3221 provides a low maximum conversion current and standby current of 250 μ A and 1 μ A respectively. Low current consumption combined with the small SOT-23 package make this device ideal for battery powered and remote data acquisition applications. Communication to the MCP3221 is performed using a 2-wire I2C™Compatible compatible interface. Standard (100 kHz) and Fast (400 kHz) I2C™Compatible modes are available with the device. An on-chip conversion clock enables independent timing for the I2C™Compatible clock and the conversion clock. The device is also addressable allowing up to eight devices on a single 2-wire bus. The MCP3221 runs on a single supply voltage that operates over a broad range of 2.7 V to 5.5 V. This device also provides excellent linearity of ± 1 LSB differential non-linearity and ± 2 LSB integral non-linearity. Operating temperature range for this device is -40°C to $+125^{\circ}\text{C}$.

Key Features

AEC-Q100 Grade 1

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