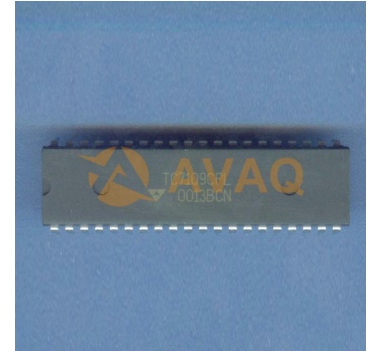


1-Channel Single ADC Dual Slope 10sps 12-bit+Sign Parallel 40-Pin PDIP Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: DIP

Product Type: Data Conversion ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The TC7109 is a 12-bit plus sign, CMOS low-power analog-to-digital converter (ADC). Only eight passive components and a crystal are required to form a complete dual-slope integrating ADC. The improved V_{oh} source current TC7109 has features that make it an attractive per-channel alternative to analog multiplexing for many data acquisition applications. These features include typical input bias current of 1pA, drift of less than 1 $\mu\text{V}/^\circ\text{C}$, input noise typically 15 μV_p-p , and auto-zero. True differential input and reference allow measurement of bridge-type transducers such as load cells, strain gauges, and temperature transducers. In the handshake mode, the TC7109 will operate with industry-standard UARTs in controlling serial data transmission - ideal for remote data logging.

Key Features

Zero integrator cycle for fast recovery from input overloads

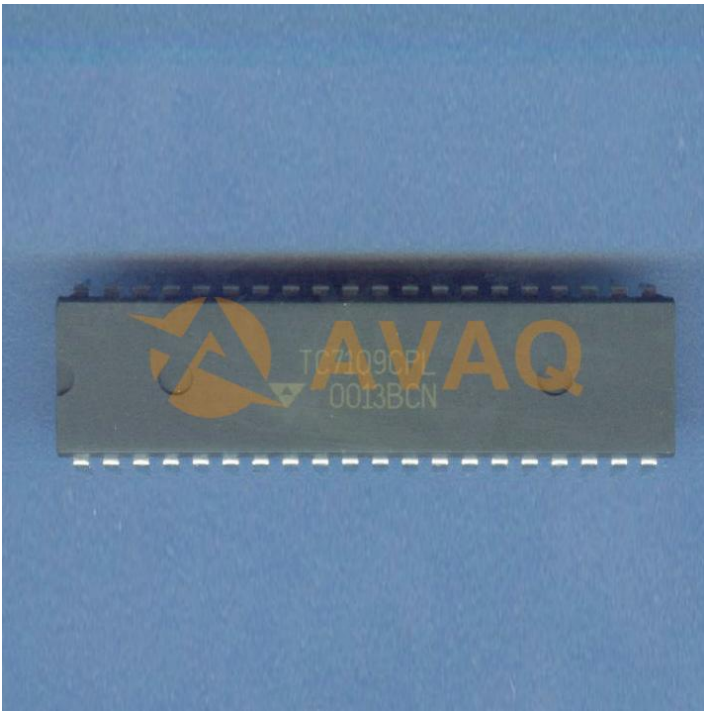
Eliminates cross-talk in multiplexed systems

Sign magnitude coding format

True differential signal input and differential reference input

No zero adjustment needed

TTL Compatible, byte organized tri-state outputs



Recommended For You

TC9400CPD

Microchip Technology, Inc
DIP14

TC7109CLW

Microchip Technology, Inc
PLCC44

TC514COI

Microchip Technology, Inc
SOP

TC9402CPD

Microchip Technology, Inc
DIP-14

TC9400COD

Microchip Technology, Inc
SOP14

TC1321EOA

Microchip Technology, Inc
SOP8

TC9401CPD

Microchip Technology, Inc
DIP14

TC500ACOE

Microchip Technology, Inc
SOP16

TC500ACPE

Microchip Technology, Inc
DIP16

TC850CPL

Microchip Technology, Inc
DIP40

TC500CPE

Microchip Technology, Inc
DIP

TC510COG

Microchip Technology, Inc
SOP

TC7109ACLW

Microchip Technology, Inc
PLCC

TC9400EOD

Microchip Technology, Inc
SOIC

TC514CPJ

Microchip Technology, Inc
DIP28