

**Sample and Hold 4-CH 11 $\mu$ s 16-Pin SOIC N Tube****Manufacturer:** [Analog Devices, Inc](#)**Package/Case:** SOP**Product Type:** Amplifier ICs**Lifecycle:** Obsolete

Images are for reference only

[Inquiry](#)**General Description**

The SMP04 is a monolithic quad sample-and-hold; it has four internal precision buffer amplifiers and internal hold capacitors. It is manufactured in ADI's advanced oxide isolated CMOS technology to obtain high accuracy, low droop rate and fast acquisition time required by data acquisition and signal processing systems. The device can acquire an 8-bit input signal to  $\pm 1/2$  LSB in less than seven microseconds. The SMP04 can operate from single or dual power supplies with TTL/CMOS logic compatibility. Its output swing includes the negative supply.

The SMP04 is ideally suited for a wide variety of sample-and-hold applications including amplifier offset or VCA gain adjustments. One or more can be used with a single or multiple DACs to provide multiple setpoints within a system.

The SMP04 offers significant cost and size reduction over lent module or discrete designs. It is available in a 16-pin hermetic or plastic DIP and surface mount SOIC packages. It is specified the extended industrial temperature range of 0°C to +85°C.

## Key Features

Four Independent Sample-and-Holds

Internal Hold Capacitor

High Accuracy: 12 Bit

Very Low Droop Rate: 2 mV/s typ

Output Buffers Stable for  $CL \leq 500$  pF

TTL/CMOS Compatible Logic Inputs

Single or Dual Supply Applications

Monolithic Low Power CMOS Design

Signal Processing Systems

Multichannel Data Acquisition Systems

Automatic Test Equipment

Medical and Analytical Instrumentation

Event Analysis

DAC Deglitching

## Recommended For You

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### SMP10AY

Analog Devices, Inc  
CDIP14

### SMP08FP

Analog Devices, Inc  
DIP

### SMP18FS

Analog Devices, Inc  
SOP16

### SMP11GY

Analog Devices, Inc  
CDIP14

### SMP04EP

Analog Devices, Inc  
DIP

### SMP04ESZ

Analog Devices, Inc  
SOP16

### SMP18FRUZ-REEL7

Analog Devices, Inc  
TSSOP-16

### SMP04EQ

Analog Devices, Inc  
DIP

### SMP08FSZ

Analog Devices, Inc  
SOP16

### SMP11BY

Analog Devices, Inc  
CDIP14

### SMP18FQ

Analog Devices, Inc  
16-CERDIP

### SMP18FSZ-REEL

Analog Devices, Inc  
SOP

## **SMP11GS**

Analog Devices, Inc

SOP16

## **SMP11GP**

Analog Devices, Inc

DIP14

## **SMP11FY**

Analog Devices, Inc

CDIP14