

Sample and Hold 1-CH 0.9us 14-Pin CDIP

Manufacturer: [Renesas Technology Corp](#)

Package/Case: DIP

Product Type: Amplifier ICs

Lifecycle: Obsolete



Images are for reference only

[Inquiry](#)

General Description

The HA-5330 is a very fast sample and hold amplifier designed primarily for use with high speed A/D converters. It utilizes the Intersil Dielectric Isolation process to achieve a 650ns acquisition time to 12-bit accuracy and a droop rate of $0.01\mu\text{V}/\mu\text{s}$. The circuit consists of an input transconductance amplifier capable of producing large amounts of charging current, a low leakage analog switch, and an integrating output stage which includes a 90pF hold capacitor. The analog switch operates into a virtual ground, so charge injection on the hold capacitor is constant and independent of V_{IN} . Charge injection is held to a low value by compensation circuits and, if necessary, the resulting 0.5mV hold step error can be adjusted to zero via the Offset Adjust terminals. Compensation is also used to minimize leakage currents which cause voltage droop in the Hold mode. The HA-5330 will operate at reduced supply voltages (to $\pm 10\text{V}$) with a reduced signal range. The MIL-STD-883 data sheet for this device is available on request.

Key Features

Very Fast Acquisition 500ns (0.1%) 650ns (0.01%)

Low Droop Rate $0.01\mu\text{V}/\mu\text{s}$

Very Low Offset 0.2mV

High Slew Rate $90\text{V}/\mu\text{s}$

Wide Supply Range $\pm 10\text{V}$ to $\pm 20\text{V}$

Internal Hold Capacitor

Fully Differential Input

TTL/CMOS Compatible

Recommended For You

HA2-2625-5

Renesas Technology Corp
CAN8

HA53511BZ

Renesas Technology Corp
SOP-8

HA1-5320-5

Renesas Technology Corp
CDIP14

HA53511P

Renesas Technology Corp
DIP-8

HA1-2420-2

Renesas Technology Corp
CDIP

HA3-2625-5

Renesas Technology Corp
DIP8

HA2-2500/883

Renesas Technology Corp
TO-99

HA3-2525-5Z

Renesas Technology Corp
DIP8

HA9P2556-9Z

Renesas Technology Corp
SOP16

HA9P5320-5Z

Renesas Technology Corp
SOP16

HA3-2841-5

Renesas Technology Corp
DIP8

HA4-5340/883

Renesas Technology Corp
CLCC20

HA53521B

Renesas Technology Corp
SOP16

HA50131P

Renesas Technology Corp
DIP14

HA3-2505-5

Renesas Technology Corp
DIP8