

Device Information

HA-4900

[Printer Friendly Version](#)

Precision Quad Comparators

DS Datasheets, Related Docs & Simulations	Description	Key Features	PT Parametric Data	Related Devices
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Ordering Information

Part No.	Status	Temp.	Package	MSL	
HA1-4900-2	Active	Mil	16 Ld CerDIP	N/A	Buy

The price listed is the manufacturer's suggested retail price for quantities between 100 and 999 units. However, prices in today's market are fluid and may change without notice.

MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020

SMD = Standard Microcircuit Drawing

Description

The HA-4900 series are monolithic, quad, precision comparators offering fast response time, low offset voltage, low offset current and virtually no channel-to-channel crosstalk for applications requiring accurate, high speed, signal level detection. These comparators can sense signals at ground level while being operated from either a single +5V supply (digital systems) or from dual supplies (analog networks) up to $\pm 15V$. The HA-4900 series contains a unique current driven output stage which can be connected to logic system supplies (V_{LOGIC+} and V_{LOGIC-}) to make the output levels directly compatible (no external components needed) with any standard logic or special system logic levels. In combination analog/digital systems, the design employed in the HA-4900 series input and output stages prevents troublesome ground coupling of signals between analog and digital portions of the system.

These comparators' combination of features make them ideal components for signal detection and processing in data acquisition systems, test equipment and microprocessor/analog signal interface networks.

For military grade product, refer to the HA-4902/883 data sheet.

Key Features

- Fast Response Time 130ns
- Low Offset Voltage 2.0mV
- Low Offset Current 10nA
- Single or Dual Voltage Supply Operation
- Selectable Output Logic Levels
- Active Pull-Up/Pull-Down Output Circuit. No External Resistors Required

Related Documentation

- DS** Datasheet(s):
- [Precision Quad Comparators](#)

- TH** Technical Homepage:
- [Op Amp Solutions](#)

Other:

- [Mil-Std-1835 GDIP1-T16 \(D-2, Configuration A\) 16 Lead Ceramic Dual-In-Line Frit Seal Package](#)

PT **Parametric Data**

Response Time (ns)	130
I _{CC} (mA)	6.5
V _{CC} (V)	2.5 to 15
I _{BIAS} (nA)	50
V _{OFFSET} (mV)	2
I _{OFFSET} (nA)	10

Applications

- Threshold Detector
- Zero Crossing Detector
- Window Detector
- Analog Interfaces for Microprocessors
- High Stability Oscillators
- Logic System Interfaces

Related Devices

PT [Parametric Table](#)

- [HA-4902](#) Precision Quad Comparators
- [HA-4905](#) Precision Quad Comparators