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# 74AUP1G14GX4-Q100

Low-power Schmitt trigger inverter

AUTOMOTIVE QUALIFIED

The 74AUP1G14-Q100 provides a single inverting Schmitt trigger which accepts standard input signals. It is capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

This device ensures a very low static and dynamic power consumption across the entire  $V_{CC}$  range from 0.8 V to 3.6 V.

This device is fully specified for partial Power-down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

The inputs switch at different points for positive and negative-going signals. The difference between the positive voltage  $V_{T+}$  and the negative voltage  $V_{T-}$  is defined as the input hysteresis voltage  $V_H$ .

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

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## Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - Specified from -40 °C to +85 °C and from -40 °C to +125 °C

## Applications

- Wave and pulse shaper
- Astable multivibrator
- Monostable multivibrator


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## Parametrics


Type number	Product status	Package name
74AUP1G14GX4-Q100	Production	X2SON4

## Package

Type number	Orderable part number, (Ordering code (12NC))	Status	Marking	Package	Package information	Reflow-/Wave soldering	Packing

Type number	Orderable part number, (Ordering code (12NC))	Status	Marking	Package	Package information	Reflow-/Wave soldering	Packing
74AUP1G14GX4-Q100	74AUP1G14GX4-Q100Z (9356 911 77147)	Active	pF	 X2SON4 (SOT1269-2)	SOT1269-2		Reel 7" Q2/T3

## Quality, reliability & chemical content

Type number	Orderable part number	Chemical content	RoHS / RHF	MSL	MSL leadfree
74AUP1G14GX4-Q100	74AUP1G14GX4-Q100Z	<u>74AUP1G14GX4-Q100</u>		1	1

[Quality and reliability disclaimer](#)

## Series

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# Efficiency wins.



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