

12-stage binary counter

Manufacturers	<u><a href="#">NXP Semiconductor</a></u>
Package/Case	DIP14
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for HEF4040BP or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

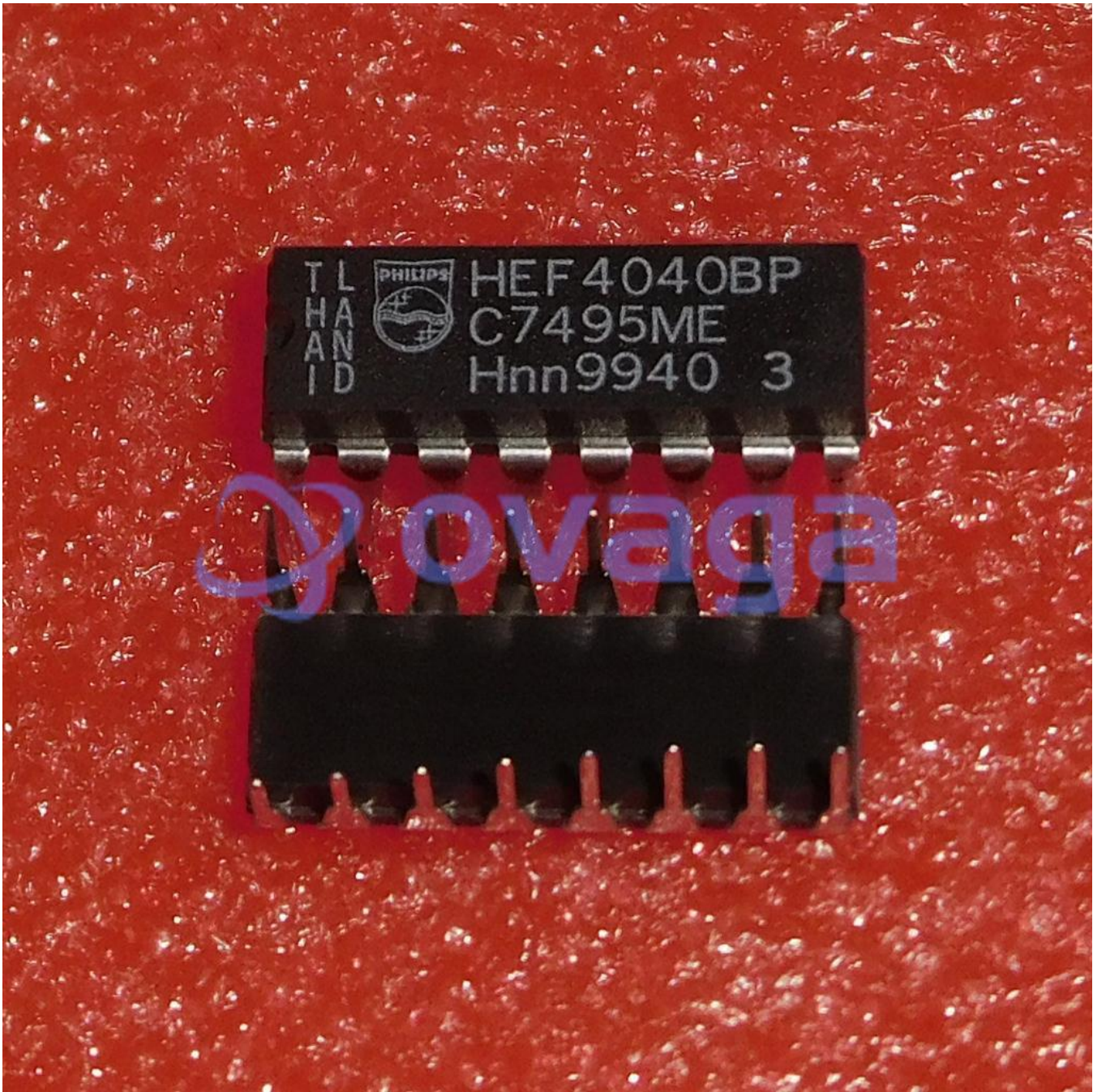
HEF4040BP is a 12-stage binary ripple counter IC (integrated circuit) manufactured by Nexperia. It belongs to the 4000 series of CMOS (Complementary Metal-Oxide-Semiconductor) logic chips and is used in digital electronics.

## Features

- 12-stage binary ripple counter
- High-speed operation: typically 12 MHz at 10V
- Low power consumption: typically 4.5mW at 10V
- Wide supply voltage range: from 3V to 15V
- Schmitt-trigger input for improved noise immunity
- Buffered output with capability to drive 10 standard TTL loads or 5 LSTTL loads.

## Application

- Counters and dividers: HEF4040BP can be used as a simple frequency divider to obtain a lower frequency output from a higher frequency input signal. It can also be used as a binary counter to count events, such as pulses or clock cycles.
- Timing and synchronization: HEF4040BP can be used to generate accurate timing signals, such as clock signals, which are synchronized with the system clock.
- Frequency synthesis: HEF4040BP can be used in combination with other logic gates to generate a variety of frequencies, such as the ones needed in audio or radio applications.



### Related Products



#### [HEF4072BT](#)

NXP Semiconductor  
SOIC-14



#### [HEF4025BT](#)

NXP Semiconductor  
SOP-14



#### [HEF40106BT](#)

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#### [HEF4051BT](#)

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**HEF4528BT**

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**HEF4060BT**

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