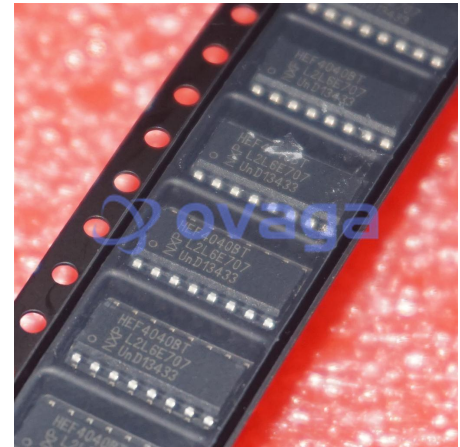


Binary Ripple Counter, 50 MHz, 1 Gate, 1 Input, 4.5 V to 15.5 V, SOIC-16

Manufacturers	<u><a href="#">NXP Semiconductor</a></u>
Package/Case	SOP-16
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for HEF4040BT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com). We will contact you in 12 hours.

[RFQ](#)

## General Description

HEF4040BT is a 12-stage binary counter IC (integrated circuit) that belongs to the CMOS logic family. It is designed to be used in various digital electronics applications such as frequency division, time-delay generation, and waveform generation.

### Features

Wide supply voltage range: 3V to 15V

High noise immunity: up to 30% of VDD

Low power consumption: typically 4.5mW

High-speed operation: up to 10MHz clock frequency

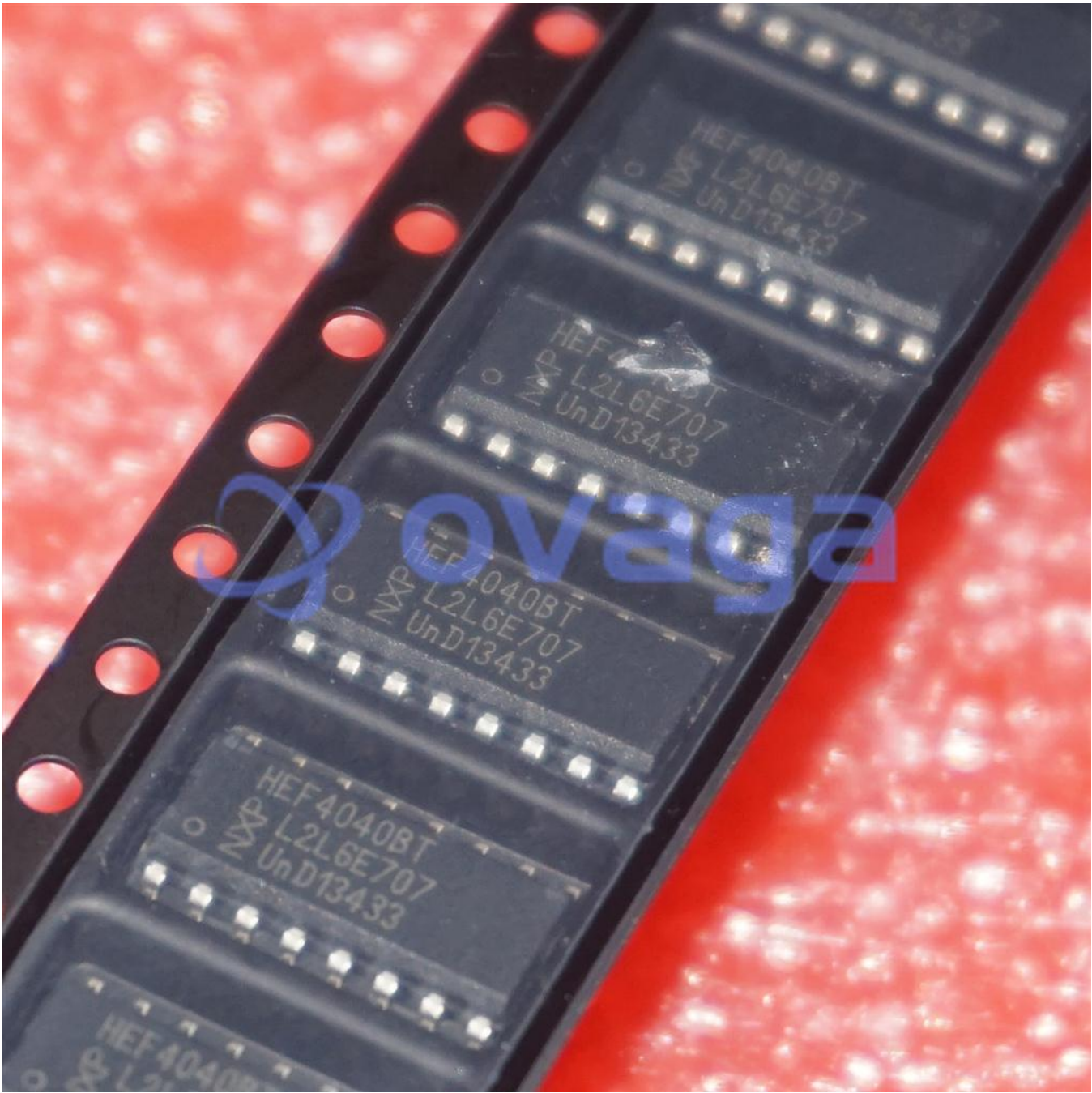
Schmitt trigger inputs for improved noise immunity

### Application

Frequency division: The IC can be used to divide a high-frequency input signal by  $2^n$  (where n is the number of stages) to produce a lower frequency output signal.

Time-delay generation: The IC can be used to generate a time delay by counting clock pulses and producing an output pulse after a certain number of clock pulses have been counted.

Waveform generation: The IC can be used to generate waveforms of specific frequencies and duty cycles.



### Related Products



#### [HEF4072BT](#)

NXP Semiconductor  
SOIC-14



#### [HEF4025BT](#)

NXP Semiconductor  
SOP-14



#### [HEF40106BT](#)

NXP Semiconductor  
SOP-14



#### [HEF4051BT](#)

NXP Semiconductor  
SOIC-16



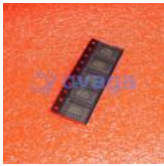
**HEF4050BT**

NXP Semiconductor  
SOP-16



**HEF4528BT**

NXP Semiconductor  
SOIC-16



**HEF4060BT**

NXP Semiconductor  
SOP-16



**HEF4021BT**

NXP Semiconductor  
SOIC-16