

Dual operational transconductance amplifier

Manufacturers	<a href="#">ON Semiconductor, LLC</a>
Package/Case	SOP-16
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for NE5517D or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

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## General Description

The AU5517 and NE5517 contain two current-controlled operational transconductance amplifiers, each with a differential input and push-pull output. The AU5517/NE5517 offers significant design and performance advantages over similar devices for all types of programmable gain applications. Circuit performance is enhanced through the use of linearizing diodes at the inputs which enable a 10 dB signal-to-noise improvement referenced to 0.5% THD. The AU5517/NE5517 is suited for a wide variety of industrial and consumer applications. Constant impedance buffers on the chip allow general use of the AU5517/NE5517. These buffers are made of Darlington transistors and a biasing network that virtually eliminate the change of offset voltage due to a burst in the bias current IABC, hence eliminating the audible noise that could otherwise be heard in high quality audio applications.

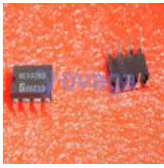
## Features

- Constant Impedance Buffers
- Delta VBE of Buffer is Constant with Amplifier I<sub>bias</sub> Change
- Excellent Matching Between Amplifiers
- Linearizing Diodes
- High Output Signal-to-Noise Ratio

## Application

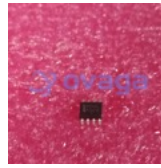
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## Related Products



[NE592N8](#)

ON Semiconductor, LLC  
PDIP-8



[NE5532AD8R2G](#)

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[NE5534D](#)

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