

Pb-Free w/Anneal TXARRAY 3X NPN 2X PNP 16NSOIC MIL HT SUS304  
 CODE:8542330000

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	SOP3.9
Product Type	Transistors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for HFA3096BZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The HFA3046, HFA3096, HFA3127 and the HFA3128 are ultra high frequency transistor arrays that are fabricated from the Renesas complementary bipolar UHF-1 process. Each array consists of five dielectrically isolated transistors on a common monolithic substrate. The NPN transistors exhibit a  $f_T$  of 8GHz while the PNP transistors provide a  $f_T$  of 5.5GHz. Both types exhibit low noise (3.5dB), making them ideal for high frequency amplifier and mixer applications.

The HFA3046 and HFA3127 are all NPN arrays while the HFA3128 has all PNP transistors. The HFA3096 is an NPN-PNP combination. Access is provided to each of the terminals for the individual transistors for maximum application flexibility. Monolithic construction of these transistor arrays provides close electrical and thermal matching of the five transistors.

Application note AN9315 illustrates the use of these devices as RF amplifiers.

## Features

NPN transistor ( $f_T$ ) . . . . . 8GHz

NPN current gain ( $h_{FE}$ ) . . . . . 130

NPN early voltage ( $V_A$ ) . . . . . 50V

PNP transistor ( $f_T$ ) . . . . . 5.5GHz

PNP current gain ( $h_{FE}$ ) . . . . . 60

PNP early voltage ( $V_A$ ) . . . . . 20V

Noise figure (50 $\Omega$ ) at 1.0GHz . . . . . 3.5dB

Collector to collector leakage . . . . . <1pA

Complete isolation between transistors

Pin compatible with industry standard 3XXX series arrays

Pb-free (RoHS compliant)

## Related Products



### [HFA3046BZ](#)

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SOIC-14



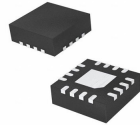
### [HFA3127BZ96](#)

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### [HFA3127RZ96](#)

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16-VFQFN



### [HFA3046BZ96](#)

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### [HFA3102BZ96](#)

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