

## PRODUCT SUMMARY

# SKY66319-11: 4400 to 5000 MHz Wide Instantaneous Bandwidth High Efficiency Power Amplifier

## Applications

- Enterprise small cell and massive MIMO
- Driver amplifier for micro base stations and macro base stations
- Supports 5G Bands n79

## Features

- Wide instantaneous signal bandwidth: 100 MHz
- High efficiency
- High linearity: 3GPP Compliant with 100 MHz 5G, 8.5 dB PAR signal
- High gain
- Excellent input and output return loss to 50 ohm system
- Integrated active bias circuitry to compensate for temperature, voltage, and process variation
- Single supply voltage: 5.0 V
- Pin-to-pin compatible PA family supporting major 3GPP bands
- Compact (16-pin,  $5 \times 5 \times 1.3$  mm) package (MSL3, 260 °C per JEDEC J-STD-020)



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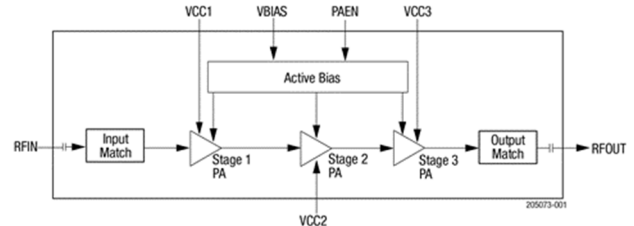


Figure 1. SKY66319-11 Block Diagram

## Description

The SKY66319-11 is a highly efficient, wide instantaneous bandwidth, fully input/output matched power amplifier (PA) with high gain and linearity. The compact  $5 \times 5$  mm PA is designed for TDD 4G LTE and 5G systems operating from 4400 to 5000 MHz. The active biasing circuitry is integrated to compensate PA performance over temperature, voltage, and process variation.

The SKY66319-11 is part of high-efficiency, pin-to-pin compatible PA family supporting major 3GPP bands.

A block diagram of the SKY66319-11 is shown in Figure 1.

Table 1 lists the pin-to-pin compatible parts in the PA family.

Table 1. Pin-to-Pin Compatible PA Family

Part Number	Frequency (MHz)	3GPP Band	Carrier Bandwidth (MHz)
SKY66312-11	2300 to 2400	n30, n40	100
SKY66317-11	2496 to 2690	B7, B38, n41	100
SKY66318-11	3300 to 3600	B42, n78	100
SKY66318-21	3300 to 3600	B42, B48, n78	200
SKY66320-11	3600 to 3800	B43, B48, n78	100
SKY66319-11	4400 to 5000	n79	100

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### Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY66319-11	4400 to 5000 MHz Wide Instantaneous High Efficiency PA	SKY66319-11EK1 (Single PA Board) SKY66319-11EK2 (Dual PA Board)

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