

## PRODUCT SUMMARY

# SKY66318-11: 3300 to 3600 MHz Wide Instantaneous Bandwidth High-Efficiency Power Amplifier

## Applications

- FDD and TDD 4G LTE and 5G systems
- Supports 3GPP Bands 22 and 42
- Driver amplifier for micro-base and macro-base stations
- Enterprise small cell and massive MIMO

## Features

- Wide instantaneous signal bandwidth: 100 MHz
- High-efficiency: PAE = 20% @ +28 dBm
- High linearity: +28 dBm with < -50 dBc ACLR with linearization (100 MHz 5G, 7.5 dB PAR signal)
- High gain: 34 dB
- Excellent input and output return loss: to 50  $\Omega$  system
- Integrated active bias: performance compensated over temp
- Integrated enable On/Off function: PAEN = 1.7 to 2.5 V
- Single supply voltage: 5.0 V
- Pin-to-pin compatible PA family supporting major 3GPP bands
- Compact (16-pin, 5 × 5 × 1.3 mm) package (MSL3, 260 °C per JEDEC J-STD-020)

## Description

The SKY66318-11 is a highly efficient, wide instantaneous bandwidth, fully input/output matched power amplifier (PA) with high gain and linearity. The compact 5 × 5 mm PA is designed for FDD and TDD 4G LTE and 5G systems operating from 3300 to 3600 MHz. The active biasing circuitry is integrated to compensate PA performance over temperature, voltage, and process variation.

The SKY66318-11 is part of a high-efficiency, pin-to-pin compatible PA family supporting major 3GPP bands.

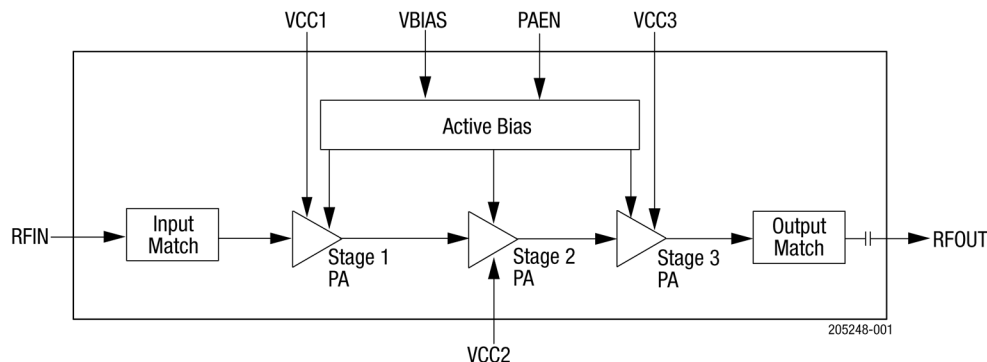
Table 1 lists the pin-to-pin compatible parts in the PA family. A block diagram of the SKY66318-11 is shown in Figure 1.

**Table 1. Pin-to-Pin Compatible PA Family**

Part Number	Frequency (MHz)	Band
SKY66312-11	2300 to 2400	Bands 30 and 40
SKY66317-11	2490 to 2700	Bands 7, 38, and 41
SKY66313-11	3400 to 3600	Bands 22 and 42
SKY66315-11	4400 to 5000	Band N79
SKY66318-11	3300 to 3600	Bands N77 and N78



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.



**Figure 1. SKY66318-11 Block Diagram**

## Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY66318-11	3300 to 3600 MHz Wide Instantaneous High-Efficiency PA	SKY66318-11EK1

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