

## PRODUCT SUMMARY

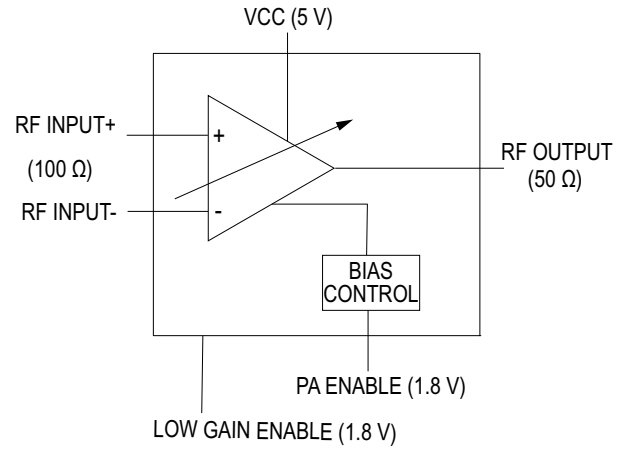
# SKY66071-11: 2300 to 2700 MHz High-Gain Differential Linear Amplifier

## Applications

- 4G LTE and 5G NR TDD systems
- Supports 3GPP and NR Bands B7, B38, B40, B41, and n41
- Driver amplifier for massive MIMO, macro base stations, and micro base stations

## Features

- Four programmable gain states: 41 dB to 31 dB
- Wide instantaneous signal bandwidth: 400 MHz
- High linearity: < -45 dBc open loop ACLR at +19 dBm, 200 MHz 5G, 9 dB PAR signal
- Fast turn-on time: 0.5  $\mu$ s typ., 1% dynamic EVM
- 100  $\Omega$  differential input ports, configurable to single-ended 50  $\Omega$
- 50  $\Omega$  single-ended output
- Integrated active bias: performance compensated over temperature
- Integrated enable on/off function: 1.8 V logic
- Single supply voltage: 5.0 V
- Compact (24-pin, 4 x 4 x 0.805 mm) package (MSL3, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).



**Figure 1. Functional Block Diagram**

## Description

The SKY66071-11 is a high-gain differential linear amplifier for 4G LTE and 5G NR massive MIMO and macro base stations operating from 2300 to 2700 MHz.

The device is fully input/output matched and includes active biasing to compensate PA performance over temperature, voltage, and process variation.

The SKY66071-11 is part of a pin-to-pin compatible family of driver PAs, refer to Table 1.

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

Part Number	Frequency (MHz)	3GPP/5G Band
SKY66071-11	2300 to 2700	B7, B38, B40, B41, n41
SKY66072-11	3100 to 4200	B42, B43, n77, n78

## Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY66071-11	2300 to 2700 MHz High-Gain Differential Linear Amplifier	SKY66071-11EK1 (2300 to 2700 MHz)

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