

PRODUCT SUMMARY

SKY66042-11: 3300 to 4100 MHz Wide Instantaneous Bandwidth Linear Driver Amplifier

Applications

- Driver amplifier for micro, macro and massive MIMO base stations
- 4G LTE and 5G NR TDD systems
- Supports 3GPP bands n77, n78, B42, B43, B48

Features

- High gain: 30 dB
- Wide instantaneous signal bandwidth: >200 MHz
- High linear output power up to +19 dBm
- High linearity: -40 dBc open loop ACLR at +10 dBm (100 MHz 5G, 8.5 dB PAR signal)
- Fast turn-on time: 0.6 usec typical
- Internally matched input and output to 50 Ω system
- Integrated active bias: performance compensated over temp
- Integrated enable On/Off function: PAEN = 1.7 to 3.6 V
- Single supply voltage: 5.0 V or 3.3 V
- Compact (16-pin, 3 × 3 × 0.85 mm) package (MSL3, 260 °C per JEDEC J-STD-020)



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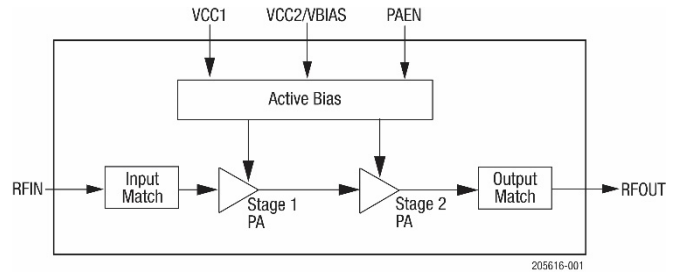


Figure 1. SKY66042-11 Block Diagram

Description

The SKY66042-11 is a wide instantaneous bandwidth, fully input/output matched linear driver amplifier (DA) with high gain and linearity. The compact 3 × 3 mm PA is designed for 4G LTE and 5G NR TDD systems operating from 3300 to 4100 MHz. The active biasing circuitry is integrated to compensate PA performance over temperature, voltage, and process variation.

A block diagram of the SKY66042-11 is shown in Figure 1. The SKY66042-11 is part of a pin-to-pin compatible family of driver PAs. Refer to Table 1.

Table 1. Pin-to-Pin Driver PA Family

Part Number	Frequency (MHz)	3GPP / 5G Band	Gain
SKY66041-11	2300 to 2700	B7, B38, B40, B41, n41	30
SKY66051-11	2300 to 2700	B7, B38, B40, B41, n41	> 35
SKY66042-11	3300 to 4100	B42, B43, n77, n78	30
SKY66052-11	3300 to 4200	B42, B43, n77, n78	> 35

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY66042-11	3300 to 4100 MHz Wide Instantaneous Bandwidth High-Gain Linear Driver Amplifier	SKY66042-11EK1 (3300 to 3800 MHz) SKY66042-11EK2 (3800 to 4100 MHz)

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