

**PRODUCT SUMMARY**

# SKY66051-11: 2300 to 2700 MHz Wide Instantaneous Bandwidth High-Gain Linear Driver Amplifier

**Applications**

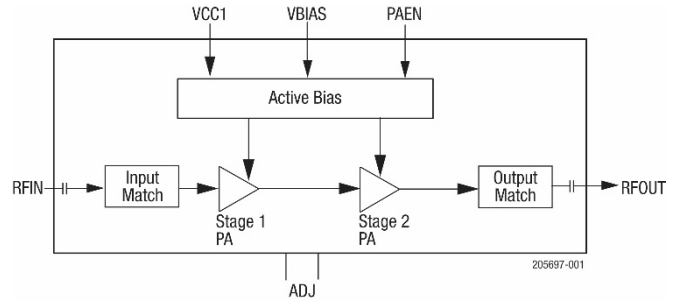
- Driver amplifier for massive MIMO, macro base stations, and micro base stations
- Supports 3GPP Bands B7, B38, B40, B41 and n41
- 4G LTE and 5G NR TDD systems

**Features**

- Adjustable gain from 30 dB to 39 dB
- Wide instantaneous signal bandwidth: 200 MHz
- High linearity: <-45 dBc open loop ACLR at +10 dBm (100 MHz 5G, 8.5 dB PAR signal)
- High linear output power up to +19 dBm
- Fast turn-on time: 0.6 usec typical
- Internally matched input and output return loss to 50 Ω system
- Integrated active bias: performance compensated over temp
- Integrated enable ON / OFF function: PAEN = 1.8 V logic
- Single supply voltage: 5.0 V
- Compact (16-pin, 3 × 3 × 0.85 mm) package (MSL3, 260 °C per JEDEC J-STD-020)



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. SKY66051-11 Block Diagram**

**Description**

The SKY66051-11 is a wide instantaneous bandwidth, fully input/output matched driver amplifier with high gain and linearity. The gain can be adjusted from 30 dB to 39 dB with a simple attenuation network. The compact 3 × 3 mm driver is designed for 4G LTE and 5G NR TDD systems operating from 2300 to 2700 MHz. The active biasing circuitry is integrated to compensate amplifier performance over temperature, voltage, and process variation.

A block diagram of the SKY66051-11 is shown in Figure 1. The SKY66051-11 is part of a pin-to-pin compatible family of driver PAs. Refer to Table 1.

**Table 1. Pin-to-Pin Compatible 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
SKY66051-11	2300 to 2700 MHz Wide Instantaneous Bandwidth High-Gain Linear Driver Amplifier	SKY66051-11EK1 (2300 to 2700 MHz)

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