

PRODUCT SUMMARY

SKY66320-11: 3600 to 3800 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 n77, B48, B43

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: performance compensated over temp
- 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)



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.

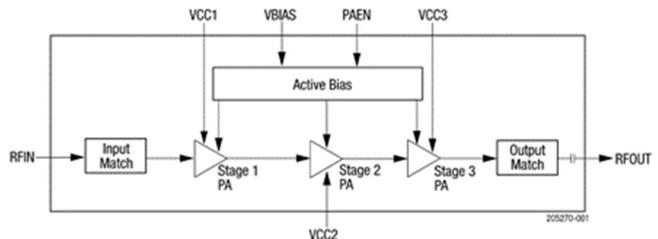


Figure 1. SKY66320-11 Block Diagram

Description

The SKY66320-11 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 5G NR and 4G LTE systems operating from 3600 to 3800 MHz. Active biasing circuitry is integrated to compensate for temperature, voltage, and process variation.

The SKY66320-11 is part of a high-efficiency, pin-to-pin compatible PA family supporting major 3GPP bands.

A block diagram of the SKY66320-11 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

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY66320-11	3600 to 3800 MHz Wide Instantaneous High-Efficiency PA	SKY66320-11EK1

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