

PRODUCT SUMMARY

SKY85405-11: High-Power 802.11ac WLAN Power Amplifier with Integrated Power Detector

Applications

- IEEE 802.11ac WLAN enabled:
 - Access points
 - Media gateways
 - Set-top boxes
- Other broadband triple-play multimedia applications

Features

- High linear output power for IEEE 802.11ac, MCS9, 5.0 V
- High transmit gain
- Power shutdown mode
- Superior gain flatness
- Fully matched at RF input/output ports
- Load insensitive power detector
- Small footprint QFN (20-pin, 4 x 4 mm) SMT package (MSL3, 260 °C per JEDEC J-STD-020)

Description

Skyworks SKY85405-11 is a 5 GHz Microwave Monolithic Integrated Circuit (MMIC) power amplifier (PA) with superior output power, linearity, and efficiency. These features make the SKY85405-11 ideal for wireless local area network (WLAN) IEEE 802.11ac applications.

The SKY85405-11 features an internal band-gap regulator that eliminates the need for an external reference supply. The PA is activated with a standard 1.8 V to 5.0 V low current CMOS logic signal.

The device is fabricated using Indium Gallium Phosphide (InGaP) Heterojunction Bipolar Transistor (HBT) technology. The device is internally matched and mounted in a 20-pin, 4 x 4 mm Quad Flat No-Lead (QFN) surface-mount technology (SMT) package, which allows for a highly manufacturable, low-cost solution.

A block diagram of the SKY85405-11 is shown in Figure 1.



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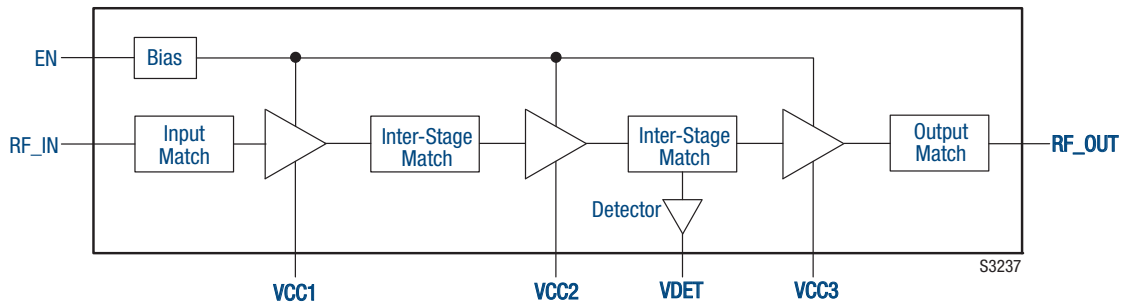


Figure 1. SKY85405-11 Block Diagram

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY85405-11: High-Power WLAN Power Amplifier	SKY85405-11	SKY85405-11-EK1

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