

PRODUCT SUMMARY

SKY65152-11: 2.4-2.5 GHz WLAN Power Amplifier

Applications

- IEEE 802.11 b/g WLANs
- ISM band transmitters
- WCS fixed wireless
- Wireless access nodes

Features

- EVM < 2.5% for $P_{OUT} > +27$ dBm
- High gain = 32 dB
- Internal RF match with DC block and active bias circuits
- Internal on/off control circuit
- Internal, high dynamic range power detector
- Single DC supply = +5 V
- Operating temperature = -40°C to $+85^{\circ}\text{C}$
- Small, MCM (20-pin, 6 x 6 mm) package (MSL3, 260 $^{\circ}\text{C}$ per JEDEC J-STD-020)

NEW

Skyworks offers lead (Pb)-free RoHS (Restriction of Hazardous Substances) compliant packaging.

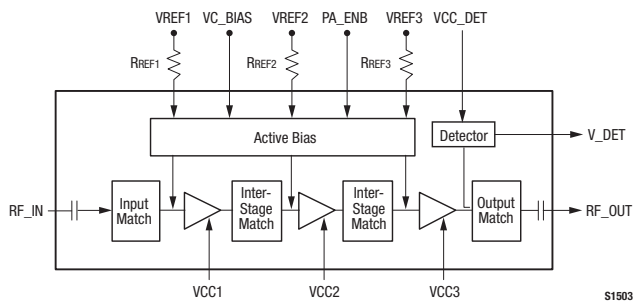


Figure 1. SKY65152-11 Block Diagram

Description

The SKY65152-11 is a Microwave Monolithic Integrated Circuit (MMIC) Power Amplifier (PA) with superior output power, linearity, and efficiency. These features make the SKY65152-11 ideal for Wireless Local Area Network (WLAN) applications. The high linearity (low EVM) and high efficiency of this device makes it ideal for use in the transmit chain of WLAN access points or modems.

The SKY65152-11 is fabricated using Skyworks high reliability Heterojunction Bipolar Transistor (HBT) InGaP process, which allows for single supply operation while maintaining high efficiency and good linearity. The device is internally matched and mounted in a 20-pin, 6 x 6 mm Multi-Chip Module (MCM) Surface-Mounted Technology (SMT) package, which allows for a highly manufacturable low cost solution.

A functional block diagram is shown in Figure 1. The pin configuration and package are shown in Figure 2.

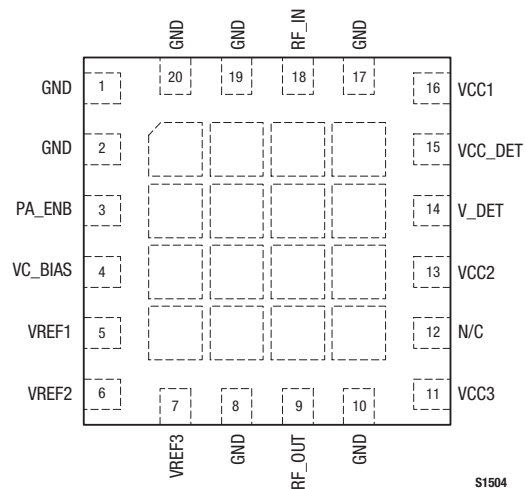


Figure 2. SKY65152-11 Pinout – 20-Pin MCM (Top View)

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Kit Part Number
SKY65152-11 WLAN Power Amplifier	SKY65152-11	TW16-D280-031

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