PRODUCT SUMMARY

SKY85724-11: 5 GHz, 802.11ac Front-End Module

Applications

- WiFi-enabled handsets, tablets, and mobile/portable systems
- System-in-Package (SIP) modules for embedded systems
- 802.11n/ac smartphones and tablets

Features

- Integrated high-performance 5 GHz PA with harmonic filter, LNA with bypass, and SPDT
- Fully-matched input and output
- Integrated, positive slope power detector
- Transmit loopback mode
- Transmit gain: 30 dB
- Receive gain: 15 dB
- Output power: +19 dBm, MCS7, HT20
- Output power: +17 dBm, MCS9, VHT80
- Nominal supply voltage: 3.6 V
- Small DFN (10-pin, 1.7 × 2.0 × 0.33 mm) package (MSL1, 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.

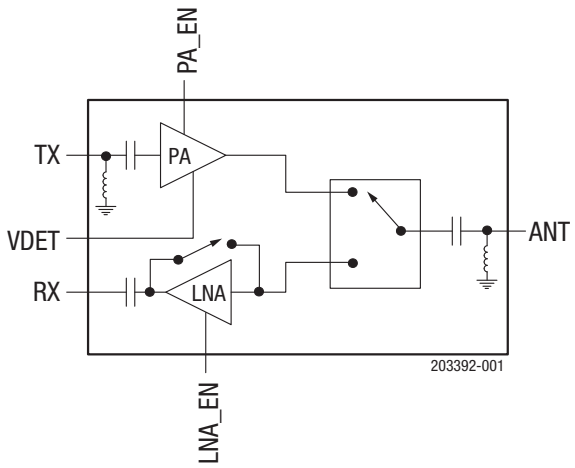


Figure 1. SKY85724-11 Block Diagram

Description

The SKY85724-11 is a highly integrated, 5 GHz front-end module (FEM) incorporating a 5 GHz single-pole, double-throw (SPDT) transmit/receive (T/R) switch, a 5 GHz low-noise amplifier (LNA) with bypass, and a 5 GHz power amplifier (PA) intended for mobile/portable 802.11ac applications and systems.

An enable/disable function is included that allows power savings during off mode. An integrated power detector with 20 dB of dynamic range is included to provide closed-loop power control within the system.

The device is provided in a compact, 10-pin 1.7 × 2.0 mm Dual Flat No-Lead (DFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY85724-11	5 GHz, 802.11ac Front End Module	SKY85724-11EK1

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