

PRODUCT SUMMARY

SKY85702-11: 5 GHz WLAN Front-End Module

Applications

- WiFi-enabled handsets, tablets, and mobile/portable systems
- System-in-Package (SIP) modules for embedded systems
- WLAN-enabled wireless video systems

Features

- Integrated high performance 5 GHz PA with harmonic filter and SPDT
- Fully-matched input and output
- Integrated, positive slope power detector
- Transmit gain: 28 dB
- Output power: +19 dBm @ 3% EVM, 64 QAM 54 Mbps
- Output power: +18 dBm @ 3% EVM, MCS7 HT40
- Output power: +16 dBm @ 1.8% EVM, MCS9 HT80
- Direct connection to battery with 3.6 V nominal supply voltage
- Small, QFN (16-pin, 2.5 x 2.5 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



Skyworks Pb-free products are compliant with all applicable legislation. For additional information, refer to *Skyworks Definition of Lead (Pb)-Free*, document number SQ04-0073.

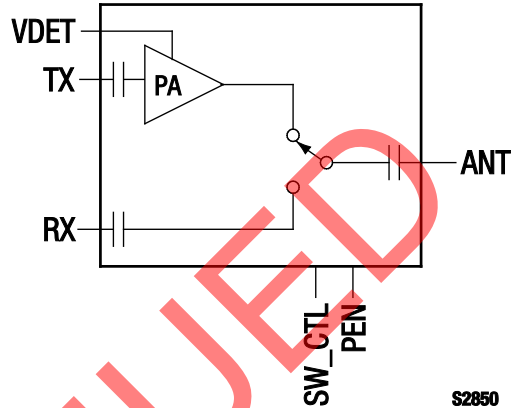


Figure 1. SKY85702-11 Block Diagram

Description

The SKY85702-11 is a highly-integrated, 5 GHz Front-End Module (FEM) incorporating a 5 GHz Single-Pole, Double-Throw (SPDT) transmit/receive (T/R) switch, and a 5 GHz Power Amplifier (PA) intended for mobile/portable 802.11n/ac applications and systems. The device operates from a single supply voltage of 3.6 V.

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, 16-pin 2.5 x 2.5 mm Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY85702-11 5 GHz Front-End Module	SKY85702-11	SKY85702-EVB



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