

PRODUCT SUMMARY

SKY65550-11: 5 GHz WLAN Front-End Module with Switch

Applications

- WiFi-enabled handsets
- PC cards, PCMCIA cards, mini-cards, and half-mini cards
- WLAN-enabled wireless video systems

Features

- Integrated high performance 5 GHz PA and T/R switch
- Fully-matched input and output
- Integrated power detector
- No need for external reference voltage
- Gain = 28 dB
- Output power = +15.5 dBm @ 4% EVM, 64 QAM 3/4
- Small, MCM (10-pin, 3 x 3 mm) package (MSL3, 260 °C per JEDEC J-STD-020)



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

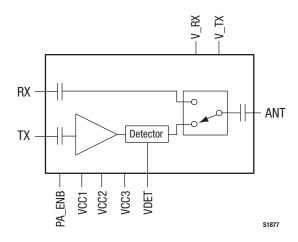


Figure 1. SKY65550-11 Block Diagram

Description

The SKY65550-11 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 802.11a applications and systems. The device operates from a single supply voltage of 3.6 V typical and draws approximately 185 mA of current.

A digital enable function is included that allows power savings during off mode. To ensure compatibility with digital control logic levels provided by the system, the SKY65550-11 supports 1.8 V logic levels for both enable and switch control functions. An integrated power detector is included to provide closed-loop power control within the system.

The SKY65550-11 enables extremely small form factor applications and requires only two external SMT components.

The device is provided as a compact, 10-pin 3 x 3 mm MCM. A functional block diagram is shown in Figure 1. The pin configuration and package are shown in Figure 2.

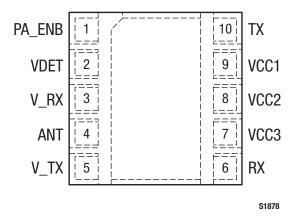


Figure 2. SKY65550-11 Pinout – 10-Pin MCM (Top View)

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Kit Part Number
SKY65550-11 5 GHz Front-End Module w/Switch	SKY65550-11	TW18-D465-001

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