

PRODUCT SUMMARY

SKY65507-11: 4.9-5.9 GHz SPDT Switch With Low-Noise Amplifier

Applications

- 802.11 a/n WLANs
- 5 GHz ISM radios
- SmartPhones
- Notebooks, netbooks, tablets
- · Routers, access points, gateways
- · Wireless video systems

Features

• Low Noise Figure: 2 dB

• Frequency range: 4.9 to 5.9 GHz

Enable/disable mode
High IIP3: +7 dBm
High gain: 13 dB

• 3.0 V supply

 Miniature DFN (8-pin, 2 x 2 mm) package (MSL3, 260 °C per JEDEC J-STD-020)







Skyworks Green[™] products are RoHS (Restriction of Hazardous Substances)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, are halogen free according to IEC-61249-2-21, and contain <1,000 ppm antimony trioxide in polymeric materials.

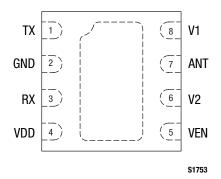


Figure 1. SKY65507-11 Pinout – 8-Pin DFN (Top View)

Description

The SKY65507-11 is an integrated, Single-Pole Double-Throw (SPDT) switch with a Low-Noise Amplifier (LNA) intended for wireless applications. The device has a low Noise Figure (NF) with high linearity in the transmit mode (+24 dBm power at 3% EVM).

The SKY65507-11 operates at 3 V and draws 10 to 12 mA of current. In the transmit mode, a shutdown function saves power when the device is inactive. The switch requires five external components.

The switch is manufactured in a compact, 2 x 2 mm, 8-pin Dual Flat No-Lead (DFN) package. The small footprint provides the industry's smallest PCB area needed to implement an integrated broadband SPDT switch with LNA functionality.

The device package and pinout for the 8-pin DFN are shown in Figure 1 and a block diagram of the SKY65507-11 is shown in Figure 2.

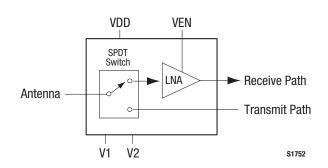


Figure 2. SKY65507-11 Block Diagram

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Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY65507-11 SPDT Switch with LNA	SKY65507-11 (Pb-free and Green package)	*** TBD ***

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