

PRODUCT SUMMARY

SKY65405-21: 2.4 GHz Low-Noise Amplifier

Applications

- 802.11b,g,n PC cards, NICs, and USB dongles
- 802.11b,g,n tablets
- 802.11b,g,n access point, routers, and gateways
- 2.4 GHz ISM radios

Features

- Ultra-low Noise Figure: 1.1 dB
- 2.4 GHz to 2.5 GHz operation
- Enable/disable mode
- High IIP3: +9 dBm
- High gain: 15 dB
- 2.8 to 5.0 V single-supply operation
- DFN (6-pin, 1.5 x 1.5 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.

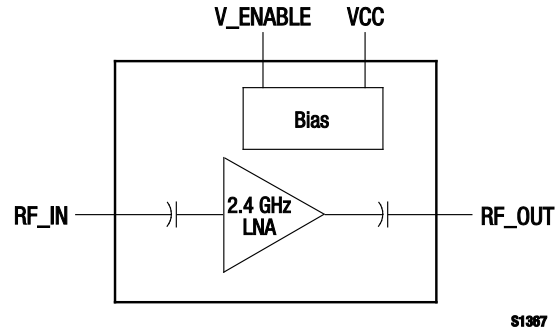


Figure 1. SKY65405-21 LNA Block Diagram

Description

The SKY65405-21 is an ultra Low-Noise Amplifier (LNA) intended for 2.4 GHz wireless receiver applications. Its industry-leading Noise Figure (NF), together with high linearity, makes it ideal as a first-stage LNA in 802.11b,g Wireless Local Area Network (WLAN) radios.

Operating with a single supply voltage, the SKY65405-21 consumes only 12 mA of current. The device includes a shutdown mode to save power when the receiver is inactive.

The tiny package footprint of the SKY65405-21, requiring only four external components, enables the industry's smallest PCB area needed to implement a 2.4 GHz LNA.

A block diagram of the SKY65405-21 is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY65405-21 LNA	SKY65405-21	EN31-D538-001

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