

PRODUCT SUMMARY

SKY65806-636LF: Ultra-High-Band 3400 to 3800 MHz Low-Noise Amplifier

Applications

- 3G and 4G LTE radio receivers
- Smartphones
- Laptop PCs and tablets

Features

- Small signal gain: 13.5 dB typical
- Low noise figure: 1.2 dB typical
- Low current consumption
- Output impedance internally matched to 50 Ω
- DC supply: 1.6 to 3.3 V
- VGPI0 = 1.8 V
- Small DFN (6-pin, 1.1 x 0.7 x 0.55 mm) package (MSL1, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#)

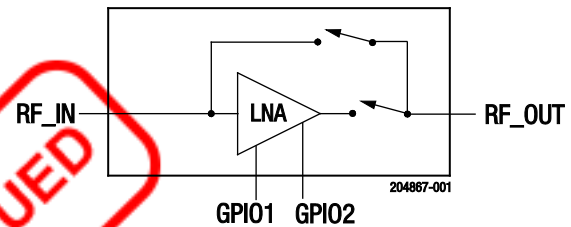


Figure 1. SKY65806-636LF Block Diagram

Description

The SKY65806-636LF is a silicon-on-insulator (SOI) low-noise amplifier (LNA) with bypass function. The device provides excellent return loss, a low-noise figure, and high-linearity performance. It operates in the frequency range of 3400 to 3800 MHz, making it an ideal option for LTE ultra-high-band radio receiver applications.

The SKY65806-636LF is manufactured in a compact, 1.1 x 0.7 x 0.55, 6-pin Dual Flat No Lead (DFN) package.

A functional block diagram is shown in Figure 1.

Ordering Information

Product Description	Product Part Number	Evaluation Board Part Number
SKY65806-636LF: Ultra-High-Band Low-Noise Amplifier	SKY65806-636LF	SKY65806-636EK1 (Tuning BOM for B42)
		SKY65806-636EK2 (Tuning BOM for B43)



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