

**PRODUCT SUMMARY**

# SKY65804-696LF: Mid-Band 1805 to 2170 MHz Low-Noise Amplifier

**Applications**

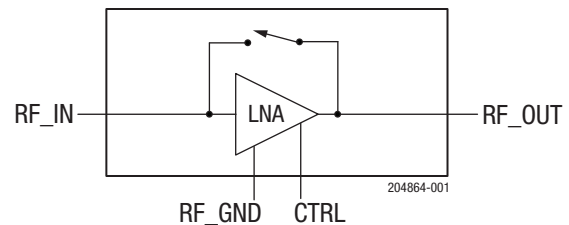
- 3G and 4G LTE radio receivers
- Smartphones
- Laptop PCs and tablets

**Features**

- Small signal gain: 14.5 dB typical
- Low noise figure: 1.1 dB typical
- Low current consumption
- Output impedance internally matched to 50 Ω
- DC supply: 1.5 to 3.3 V
- $V_{CTL} = 1.8 V$
- Small DFN (6-pin, 1.1 x 0.7 x 0.55 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green™*, document number SQ04-0074.



**Figure 1. SKY65804-696LF Block Diagram**

**Description**

The SKY65804-696LF is a silicon-on-insulator (SOI) low-noise amplifier (LNA) with bypass function. The device provides excellent return loss, low-noise and high-linearity performance. It operates in the frequency range of 1805 to 2170 MHz, making it an ideal option for LTE mid-band radio receiver applications.

The SKY65804-696LF 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
SKY65804-696LF: Mid-Band Low-Noise Amplifier	SKY65804-696LF	SKY65804-696EK1 (Tuning BOM for B1 and B4)
		SKY65804-696EK2 (Tuning BOM for B2)
		SKY65804-696EK3 (Tuning BOM for B3)

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