



## New Product Announcement

# High Gain LNA for Small Cell, Cellular 5G NR, and Base Station Applications

Skyworks' [SKY67181-396LF](#) is a high gain, low noise amplifier (LNA) designed to meet the challenging requirements of cellular LTE and 5G NR infrastructure applications. This LNA features ultra low-noise figure, high gain, and operates over a wide range of frequencies. Featuring an ultra-compact 2 x 2 mm plastic surface mount package to reduce PCB board space, [SKY67181-396LF](#) is pin-to-pin compatible with the previously released [SKY67183-396LF](#) and [SKY67189-396LF](#).

These LNAs are ideal for 2G/3G/4G/5G TDD and FDD infrastructure applications, including small cell, massive MIMO, and macro base stations.

### Features:

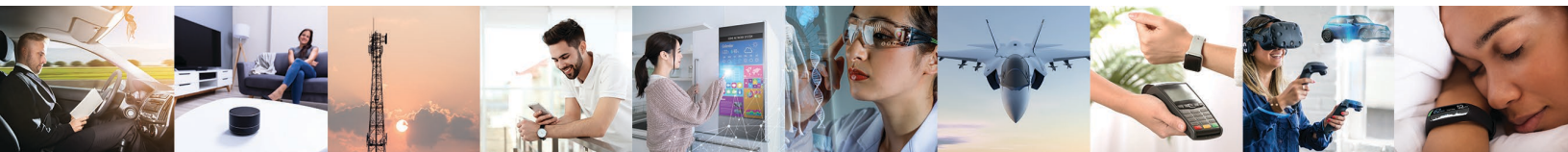
- **High gain** which may eliminate a gain stage from the design
- **Very low noise figure**
- **Exceptional linearity and superior gain flatness**
- Wide freq. of operation, **supporting 2.3 – 5 GHz signals**
- Fast turn on/off time to enable **fast 5G TDD switching**
- 2 x 2 mm **ultra-compact** packaging

SKY67181-396LF, SKY67183-396LF, SKY67189-396LF

SKY6718x Family:

- SKY67181-396LF: Highest Gain
- SKY67183-396LF: Lowest Noise Figure
- SKY67189-396LF: Broadest Match With Single Tune
- Pin-to-Pin Compatibility
- Supports Single Board Layout

	<a href="#">SKY67181-396LF</a> – <i>New!</i>	<a href="#">SKY67183-396LF</a>	<a href="#">SKY67189-396LF</a>
Frequency (GHz)	2.3–5.0	0.4–6.0	0.4–6.0
Noise Figure (dB)	0.50 @ 3.6 GHz	0.44 @ 3.6 GHz	0.65 @ 3.8 GHz
Gain (dB)	<b>22.5 @ 3.6 GHz</b>	19.1 @ 3.6 GHz	18.3 @ 3.8 GHz
OIP3 (dBm)	+28.9 @ 3.6 GHz	+28.9 @ 3.6 GHz	+28 @ 3.8 GHz
Switching Time	0.8 us	0.3 us	0.2 us
Special Features	High Gain	Lowest Noise Figure (NF)	Widest operating frequency range with single tune
	<a href="#">Data Sheet</a>	<a href="#">Data Sheet</a>	<a href="#">Data Sheet</a>
	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>	<a href="#">Buy Now</a>





# SKYWORKS®

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### Sales and Technical Support

Pricing depends on quantities. Please contact a sales representative at [sales@skyworksinc.com](mailto:sales@skyworksinc.com) or visit the company's website at [www.skyworksinc.com](http://www.skyworksinc.com) for more information.

### About Skyworks

Skyworks Solutions, Inc. is empowering the wireless networking revolution. Our highly innovative analog semiconductors are connecting people, places and things spanning a number of new and previously unimagined applications within the aerospace, automotive, broadband, cellular infrastructure, connected home, industrial, medical, military, smartphone, tablet and wearable markets. Skyworks is a global company with engineering, marketing, operations, sales and support facilities located throughout Asia, Europe and North America and is a member of the S&P 500® and Nasdaq-100® market indices (Nasdaq: SWKS). For more information, please visit Skyworks' website at: [www.skyworksinc.com](http://www.skyworksinc.com).

