PRODUCT SUMMARY

SKY67181-396LF: 2300 to 5000 MHz Broadband High-Gain Low-Noise Amplifier

Applications

• 4G LTE and 5G NR systems
• Active antenna array and massive MIMO
• Receive LNA for micro cell, macro cell, and small cell base stations
• Land mobile radios and military communications
• Low-noise broadband gain block and driver amplifier

Features

• High gain performance: 22 dB
• Low-noise amplifier:
  – Very low noise figure
  – Temperature and process-stable active bias up to +105 °C
  – Wide operating voltage range
  – Low gain slope over operating band
  – Excellent input return loss
• Integrated controller:
  – Stable amplifier bias
  – Temperature compensation
  – True logic level thresholds
  – Fast response time
• Excellent broadband flat gain performance
• Minimal BOM count
• Low current IDD 48 mA @ 5 V
• Fast rise / fall time ENABLE function suitable for TDD application
• Miniature DFN (8-pin, 2 x 2 mm) package
  (MSL1 @ 260 °C per JEDEC J-STD-020)

Description

The SKY67181-396LF is a wide-band low-noise amplifier with superior gain flatness and exceptional linearity.

The compact 2 x 2 mm, 8-pin Dual Flat No Lead packaged LNA is designed for 4G LTE and 5G NR infrastructure systems operating from 3300 to 5000 MHz.

The internal active bias circuitry provides stable performance over temperature and process variation.

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.
Ordering Information

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<td>SKY67181-396LF</td>
<td>3300 to 5000 MHz Broadband High-Gain Low-Noise Amplifier</td>
<td>SKY67181-396EK1 (3.3 to 4.2 GHz Tuning)</td>
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<td>SKY67181-396EK2 (4.4 to 5 GHz Tuning)</td>
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