

**PRODUCT SUMMARY**

# SKY66041-11: 2300 to 2700 MHz Wide Instantaneous Bandwidth Linear Driver Amplifier

**Applications**

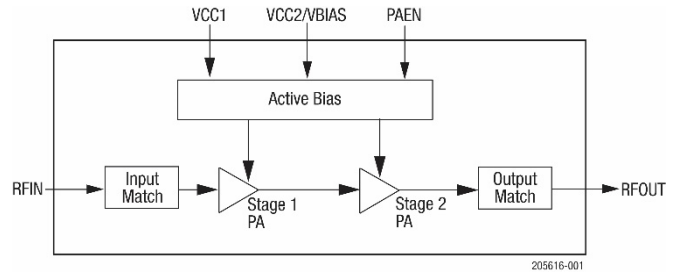
- Driver amplifier for micro, macro and massive MIMO base stations
- 4G LTE and 5G NR TDD systems
- Supports 3GPP bands n7, n38, n40, and n41

**Features**

- High gain: 30 dB
- Wide instantaneous signal bandwidth: >200 MHz
- High linear output power up to +19 dBm
- High linearity: -40 dBc open loop ACLR at +10 dBm (100 MHz 5G, 8.5 dB PAR signal)
- Fast turn-on time: 0.6 usec typical
- Internally matched input and output to 50 Ω system
- Integrated active bias: performance compensated over temp
- Integrated enable On/Off function: PAEN = 1.7 to 3.6 V
- Single supply voltage: 5.0 V or 3.3 V
- Compact (16-pin, 3 × 3 × 0.85 mm) package (MSL3, 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. SKY66041-11 Block Diagram**

**Description**

The SKY66041-11 is a wide instantaneous bandwidth, fully input/output matched linear driver amplifier (DA) with high gain and linearity. The compact 3 × 3 mm PA is designed for 4G LTE and 5G NR TDD systems operating from 2300 to 2700 MHz. The active biasing circuitry is integrated to compensate PA performance over temperature, voltage, and process variation.

A block diagram of the SKY66041-11 is shown in Figure 1. The SKY66041-11 is part of a pin-to-pin compatible family of driver PAs. Refer to Table 1.

**Table 1. Pin-to-Pin Driver PA Family**

Part Number	Frequency (MHz)	3GPP / 5G Band
SKY66041-11	2300 to 2700	B7, B38, B40, B41, n41
SKY66042-11	3300 to 4100	B42, B43, n77, n78

**Ordering Information**

Part Number	Product Description	Evaluation Board Part Number
SKY66041-11	2300 to 2700 MHz Wide Instantaneous Bandwidth High-Gain Linear Driver Amplifier	SKY66041-11EK1 (2500 to 2700 MHz) SKY66041-11EK2 (2300 to 2400 MHz)

Copyright © 2019 Skyworks Solutions, Inc. All Rights Reserved.

Information in this document is provided in connection with Skyworks Solutions, Inc. (“Skyworks”) products or services. These materials, including the information contained herein, are provided by Skyworks as a service to its customers and may be used for informational purposes only by the customer. Skyworks assumes no responsibility for errors or omissions in these materials or the information contained herein. Skyworks may change its documentation, products, services, specifications or product descriptions at any time, without notice. Skyworks makes no commitment to update the materials or information and shall have no responsibility whatsoever for conflicts, incompatibilities, or other difficulties arising from any future changes.

No license, whether express, implied, by estoppel or otherwise, is granted to any intellectual property rights by this document. Skyworks assumes no liability for any materials, products or information provided hereunder, including the sale, distribution, reproduction or use of Skyworks products, information or materials, except as may be provided in Skyworks Terms and Conditions of Sale.

THE MATERIALS, PRODUCTS AND INFORMATION ARE PROVIDED “AS IS” WITHOUT WARRANTY OF ANY KIND, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, INCLUDING FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, PERFORMANCE, QUALITY OR NON-INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHT; ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED. SKYWORKS DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. SKYWORKS SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO ANY SPECIAL, INDIRECT, INCIDENTAL, STATUTORY, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS THAT MAY RESULT FROM THE USE OF THE MATERIALS OR INFORMATION, WHETHER OR NOT THE RECIPIENT OF MATERIALS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Skyworks products are not intended for use in medical, lifesaving or life-sustaining applications, or other equipment in which the failure of the Skyworks products could lead to personal injury, death, physical or environmental damage. Skyworks customers using or selling Skyworks products for use in such applications do so at their own risk and agree to fully indemnify Skyworks for any damages resulting from such improper use or sale.

Customers are responsible for their products and applications using Skyworks products, which may deviate from published specifications as a result of design defects, errors, or operation of products outside of published parameters or design specifications. Customers should include design and operating safeguards to minimize these and other risks. Skyworks assumes no liability for applications assistance, customer product design, or damage to any equipment resulting from the use of Skyworks products outside of stated published specifications or parameters.

Skyworks and the Skyworks symbol are trademarks or registered trademarks of Skyworks Solutions, Inc. or its subsidiaries in the United States and other countries. Third-party brands and names are for identification purposes only, and are the property of their respective owners. Additional information, including relevant terms and conditions, posted at [www.skyworksinc.com](http://www.skyworksinc.com), are incorporated by reference.