

PRODUCT SUMMARY

SKY65728-11: Shielded Low-Noise Amplifier Front-End Module with GPS L5 Pre-Filter

Applications

- GPS L5 radio receivers
- Fitness/activity trackers
- Smartphones
- Laptop PCs and tablets

Features

- Innovative proprietary shielded technology
- Wideband pre-filter
- Small signal gain: 16 dB typical
- Excellent out-of-band rejection
- Low noise figure: 1.6 dB typical
- Low current consumption
- Input/output impedance internally matched to 50 Ω
- Single DC supply: 1.1 to 2.85 V
- Minimal number of external components required
- Small MCM (9-pin, 1.6 x 1.6 x 0.7 [nominal] 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.

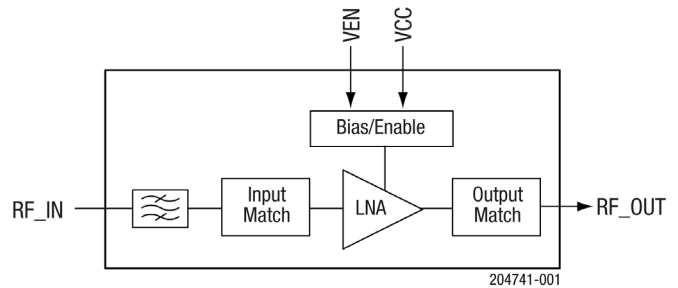


Figure 1. SKY65728-11 Block Diagram

Description

The SKY65728-11 is a shielded front-end module (FEM) with an integrated low-noise amplifier (LNA) and pre-filter designed for Global Positioning System (GPS) L5 band receiver applications. The device provides high linearity, excellent gain, a high 1 dB input compression point (IP1dB), and a superior noise figure (NF).

The pre-filter provides the low in-band insertion loss and integrated notch filtering for excellent rejections of the cellular, PCS, and WLAN frequency bands. The SKY65728-11 uses surface-mount technology (SMT) in a Multi-Chip Module (MCM) package, which allows for a highly manufacturable and low-cost solution.

A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY65728-11	Shielded Low-Noise Amplifier FEM with GPS L5 Filter	SKY65728-11EK1

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, are incorporated by reference.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [GPS Development Tools](#) category:

Click to view products by [Skyworks](#) manufacturer:

Other Similar products are found below :

[MAX2769EVKIT](#) [A9G](#) [SKY65725-11EK1](#) [SKY65728-11EK1](#) [TAU1201-EVK-A00](#) [1059](#) [1090](#) [MIKROE-2045](#) [1272](#) [MDEV-GNSS-TM](#)
[TEL0051](#) [M20050-EVB-1](#) [GPS-14414](#) [SIM808](#) [EVK-M8BZOE-0](#) [EVK-M8N-0](#) [EVK-M8U](#) [SIM868](#) [746](#) [2324](#) [4279](#) [4415](#) [M10578-A2-U1](#)
[ASX00017](#) [AS-RTK2B-F9P-L1L2-NH-02](#) [AS-RTK2B-LIT-L1L2-SMA-00](#) [AS-STARTKIT-BASIC-L1L2-NH-02](#) [AS-STARTKIT-LITE-](#)
[L1L2-HS-00](#) [AS-STARTKIT-LR-L1L2-EUNH-00](#) [AS-STARTKIT-LR-L1L2-NANH-00](#) [AS-STARTKIT-MCPIE-L1L2-0-00](#) [AS-](#)
[STARTKIT-MR-L1L2-NH-00](#) [A2235HB04](#) [M5310A-MBR](#) [M5312](#) [EVA2035-H](#) [EVA2100-A](#) [EVA2200-A](#) [MAX2659EVKIT+](#)
[MAX2669EVKIT+](#) [MIKROE-4673](#) [MIKROE-1032](#) [MIKROE-1714](#) [MIKROE-1850](#) [MIKROE-1887](#) [MIKROE-1895](#) [MIKROE-1912](#)
[MIKROE-2382](#) [ML302](#) [MOD-GPS](#)