

PRODUCT SUMMARY

SKY53757-11: Sky5® LB/MLB/MB/HB Diversity Receive Module

Applications

- Antenna cable loss compensation circuits
- 2G/3G/4G/5G multimode cellular handsets (5G NR, LTE, UMTS, CDMA2000, EDGE, and GSM)
- Embedded data cards

Features

- Rx diversity FEM with the following integrated filter bands:
 - B8 (925 to 960 MHz)
 - B26 (5/18/19) (859 to 894 MHz)
 - B71 (617 to 652 MHz)
 - B29 (717.25 to 727.25 MHz)
 - B12 (13) (726 to 756 MHz)
 - B20 (791 to 821 MHz)
 - B28 (758 to 803 MHz)
 - B14 (758 to 768 MHz)
 - B41 (38) (2496 to 2690 MHz)
 - B7 (2620 to 2690 MHz)
 - B1 (2110 to 2170 MHz)
 - B66 (4) (2110 to 2200 MHz)
 - B34 (2010 to 2025 MHz)
 - B39 (1880 to 1920 MHz)
 - B25 (2) (1930 to 1995 MHz)
 - B70 (1995 to 2020 MHz)
 - B3 (1805 to 1880 MHz)
 - B40 (2300 to 2400 MHz)
 - B30 (2350 to 2360 MHz)
 - B32 (1452 to 1496 MHz)
 - B75 (1432 to 1517 MHz)
 - B76 (1427 to 1432 MHz)
- Low insertion loss
- Integrated downlink carrier aggregation (CA) support for B8-20, B8-28, B12-71, B26-12 (13), B5-29, B28-20, B1-3-7-40, B1-3-7-32, B1-3-41-32, B1-3-40-41, B2-66-7, B34-39-41, B7-40, B40-41, B25-66-41, B2-66-30, B7-30, B66-70-71, B1-3-7-32-38, and B1-21 (Aux)

- High-performance variable gain LNAs
- High-performance Multi-On, N-Plexing technology enabling superior non-CA and CA performance
- TRX switch ports:
 - MHB_TRX1
 - MHB_TRX2
 - LB_TRX1
 - LB_TRX2
- Auxiliary LNA ports:
 - LNA_AUX_LB1 (617 to 960 MHz)
 - LNA_AUX_LB2 (617 to 960 MHz)
 - LNA_AUX_LMB (1427 to 1517 MHz)
 - LNA_AUX_MHB1 (1805 to 2690 MHz)
 - LNA_AUX_MHB2 (1805 to 2690 MHz)
 - LNA_AUX_MHB3 (1805 to 2690 MHz)
 - LNA_AUX_MHB4 (1427 to 1517 MHz, 1805 to 2690 MHz)
 - LNA_AUX_MHB5 (1427 to 1517 MHz, 1805 to 2690 MHz)
 - LNA_AUX_MHB6 (1805 to 2690 MHz)
- Integrated MIPI RFFE 3.0 interface
- Small 4.2 x 4.6 x 0.74 (max) mm 47-lead DS-MGA package
- Lead (Pb)-free and RoHS-compliant (MSL3 @ 260 °C per JEDEC J-STD-020)

Description

The SKY53757-11 is a low-band (LB)/mid-low band (MLB)/midband (MB)/high-band (HB) diversity receive module to be used in a cellular mobile device. The device supports cellular diversity receiver functions and is scalable to support 2 CA MIMO regional and roaming band requirements. The SKY53757-11 is part of our Sky5® product portfolio.



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

Part Number	Part Description	Evaluation Board Part Number
SKY53757-11	Sky5® LB/MLB/MB/HB Diversity Receive Module	SKY53757-11EK1

Copyright © 2023, 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 Skyworks' published specifications or parameters.

Skyworks, the Skyworks symbol, Sky5®, SkyOne®, SkyBlue™, Skyworks Green™, ClockBuilder®, DSPLL®, ISOModem®, ProSLIC®, SiPHY®, and RFELC® 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.skyworksin.com, are incorporated by reference.