



SKYWORKS®

PRODUCT SUMMARY

SKY5A5005: Sky5® MIMO MLB/MB/HB Diversity Receive Module

Applications

- Automotive
- Telematics 2G/3G/4G/5G
- Network attached devices (NADs)

Features

- Rx diversity FEM with the following integrated filter bands:
 - n76 (1427 to 1432 MHz)
 - n75 (1432 to 1517 MHz)
 - B32 (1452 to 1496 MHz)
 - B3 (1805 to 1880 MHz)
 - B34 (2010 to 2025 MHz)
 - B39 (1880 to 1920 MHz)
 - B25 (2)(1930 to 1995 MHz)
 - n70 (1995 to 2020 MHz)
 - B66 (1)(2110 to 2200 MHz)
 - B40 (2300 to 2400 MHz)
 - B41 (38)(2496 to 2690 MHz)
 - B7 (2620 to 2690 MHz)
- Automotive support:
 - AEC-Q104
 - PPAP
 - IMDS material declaration
- Fully integrated EMI shielding
- Integrated downlink carrier aggregation (CA) support for B1-3-7-40, B1-3-41, B39-B41, B1-40-41, B3-40-41, B25-66-7, B25-66-30, B25-66-41, B7-30, B1-3-40-41, B1-3-32-41
- High-performance variable gain LNAs
- High-performance Multi-On, N-Plexing technology enabling superior non-CA and CA performance
- Two TRX switch ports (MHB_TRX1/2)
- Auxiliary LNA ports:
 - LNA_AUX_MHB1(1805 to 2690 MHz)
 - LNA_AUX_MHB2(1805 to 2690 MHz)
 - LNA_AUX_MLB (1495.9 to 1510.9 MHz)
 - LNA_AUX_MB (2110 to 2170 MHz)
- Integrated MIPI RFFE interface

- Small 3.5 x 3.6 x 0.7 mm (max.) 56-lead package
- Lead (Pb)-free and RoHS-compliant (MSL3 @ 260 °C per JEDEC J-STD-020)

Description

The SKY5A5005 is a mid-low band (MLB)/mid-band (MB)/high-band (HB) multi-in, multi-out (MIMO) diversity receive module for cellular mobile devices.

This diversity receive module is to be used in automotive applications. The SKY5A5005 is part of our Sky5® product portfolio.

The diversity module supports all key 2, 3, and 4 carrier aggregation band combinations.

High-performance, multi-gain mode LNAs are integrated enabling compatibility with next generation LNA-less LTE transceivers.

The SKY5A5005 is compatible with 3GPP GSM, WCDMA, LTE, LTE-A and 5G standards and includes filters for the n75, n76, B32, B3, B34, B39, B25(2), n70, B1, B66, B40, B30, B41(38), and B7 service bands.



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
SKY5A5005	Sky5® MIMO MLB/MB/HB Diversity Receive Module	SKY5A5005EK1

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