



PRODUCT SUMMARY

SKY5A5010: Sky5® LB/MBV/HB Diversity Receive Module

Applications

- Automotive
- Telematics (4G/5G)
- Network Attached Device (NAD)

Features

- Rx diversity FEM with the following integrated filter bands:
 - B8: 925 to 960 MHz
 - B26/5/18/19: 859 to 894 MHz
 - B28A: 758 to 788 MHz
 - B3: 1805 to 1880 MHz
 - B39: 1880 to 1920 MHz
 - B25(2): 1930 to 1995 MHz
 - B34: 2010 to 2025 MHz
 - B66(1/4): 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
- Low insertion loss
- Integrated downlink carrier aggregation (CA) support for B1-3-7, B3-41, B39-41, and all LB-MHB
- High-performance variable gain LNAs
- High-performance Multi-On, N-Plexing technology enabling superior non-CA and CA performance

Features

- Three LB RX switch ports (LB_RX1/2)
- One MHB RX switch port (MHB_RX1)
- Auxiliary LNA ports:
 - LNA_AUX_MHB1: 1805 to 2690 MHz
 - LNA_AUX_HB2: 2496 to 2690 MHz
 - LNA_AUX_MHB3: 1805 to 2690 MHz
 - LNA_AUX_MHB4: 1805 to 2690 MHz
 - LNA_AUX_LB1: 617 to 960 MHz
 - LNA_AUX_LB2: 617 to 960 MHz
- Integrated MIPI RFFE v3.0 interface
- Small 3.5 x 3.6 x 0.7 (Max) mm 56-lead package
- Lead (Pb)-free and RoHS-compliant (MSL3 @ 260 °C per JEDEC J-STD-020)

Description

The SKY5A5010 is a low-band (LB)/mid-band (MB)/high-band (HB) diversity receive module to be used in a cellular mobile device. The device supports cellular diversity receiver functions. The SKY5A5010 is part of our Sky5® product portfolio.

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

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

The SKY5A5010 is compatible with 3GPP GSM, WCDMA, LTE, LTE-A and 5G standards and includes filters for the following service bands: B8, B26/5/18/19, B28A, B3, B39, B25(2), B34, B66(1/4), B40, B41(38), and B7.



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
SKY5A5010	LB/MB/HB Diversity Receive Module	SKY5A5010EK1

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