

PRODUCT SUMMARY

SKY85931-11: 2.4 GHz/5 GHz/6 GHz Wi-Fi® Triplexer

Applications

- Wi-Fi® tri-band access points
- Wi-Fi tri-band extenders, routers, and gateways
- System-in-Package (SiP) modules for embedded systems
- Mesh/whole-home Wi-Fi systems
- Wi-Fi based home entertainment systems

Features

- Low insertion loss over full bandwidth
- High isolation for nearest adjacent band
- Can be used as a diplexer for 5 GHz and 6 GHz
- Single antenna port, triplex in three bands
- Bidirectional operation
- RF ports matched to 50 Ω
- Small MCM package (16-pin, 3 x 3 mm) (MSL3, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

Description

The SKY85931-11 features 5 GHz U-NII 1 to 2A and 6 GHz U-NII 5 BAW filters to enable high isolation and low insertion loss when combining 2.4, 5, and 6 GHz in a single MCM package. This simplifies compact front-end designs for tri-band Wi-Fi applications.

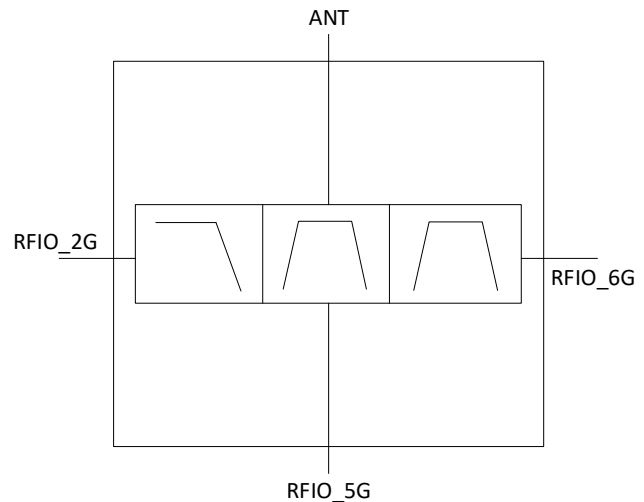


Figure 1. Functional Block Diagram

The 5 GHz BAW filter provides a U-NII 1 to U-NII 2A passband, and the 6 GHz BAW filter provides a U-NII 5 passband, isolated from adjacent channels.

The triplexer may also be utilized as a diplexer solely for 5 GHz and 6 GHz.

Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY85931-11	2.4 GHz/5 GHz/6 GHz Wi-Fi® Triplexer	SKY85931-11EK1

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