

## PRODUCT SUMMARY

# SKY5A1005: Bulk Acoustic Wave (BAW) Automotive Notch Filter

## Applications

- Automotive Wi-Fi® ECU modules
- Wi-Fi and V2X co-existence systems
- System-in-Package (SiP) modules for embedded systems

## Features

- Band stop: 5855 to 5925 MHz, min 30 dB rejection
- Passbands: 2.4 GHz and 5.0 GHz Wi-Fi
- Compact MCM 1.5 x 1.1 x 0.7 mm package, MSL3, 260 °C per JEDEC J-STD-020
- For RoHS and other product compliance information, see the [Skyworks Certificate of Conformance](#).

## Description

The SKY5A1005 is a high-performance band stop filter designed for automotive Wi-Fi ECU modules. It provides strong rejection in the B47 V2X band (5855 to 5925 MHz) while maintaining low insertion loss in the 2.4 GHz and 5.0 GHz Wi-Fi bands. The filter features a sharp 40 MHz transition band and supports robust operation across a wide temperature range.

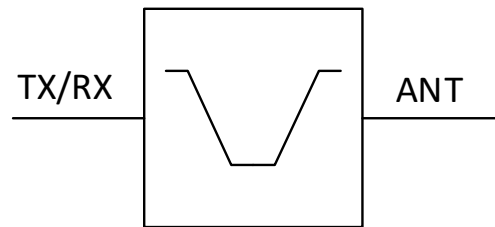


Figure 1. Functional Block Diagram

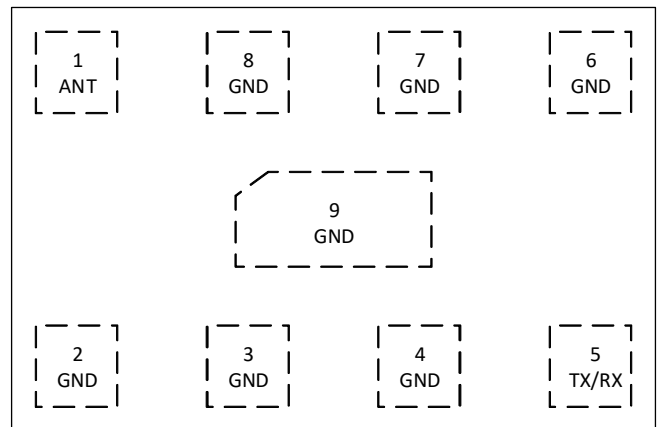


Figure 2. Pinout (Top View, Bumps Down)

Table 1. Signal Descriptions

Pin	Name	Description	Pin	Name	Description
1	ANT	RF input/output	6	GND	Ground
2	GND	Ground	7	GND	Ground
3	GND	Ground	8	GND	Ground
4	GND	Ground	9	GND	Ground
5	TX/RX	RF input/output			

## Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY5A1005	Bulk Acoustic Wave (BAW) Automotive Notch Filter	SKY5A1005EK1

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