

PRODUCT SUMMARY

SKYA21039: 2.4 to 2.5 GHz SP3T Switch

Applications

- Automotive 802.11 a/b/g/n WLAN networks
- Automotive Bluetooth® systems
- Automotive infotainment

Features

- AEC-Q100 grade 2 qualified
- Fast switching speed for Wi-Fi/BT applications: 300 ns typical
- Positive low voltage control: 0/1.8 to 3.6 V
- 1.8 V and 3.3 V logic compatibility
- Wide 3 to 5 V supply voltage range
- Integrated DC blocking capacitors
- Miniature ultra-thin MLP (8-pin, 1.1 x 1.1 x 0.5 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



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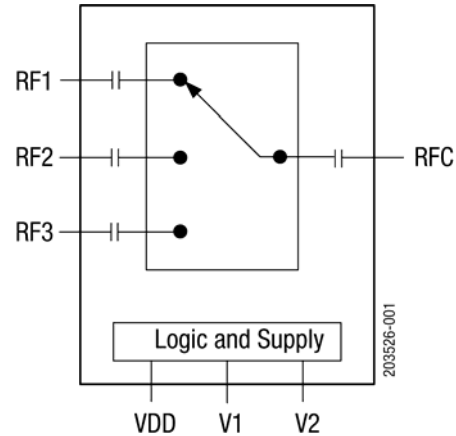


Figure 1. SKYA21039 Block Diagram

Description

The SKYA21039 is a single-pole, triple-throw (SP3T) antenna switch that operates in the 2.4 to 2.5 GHz frequency range. Switching between the antenna (RFC signal) and the RF1, RF2, and RF3 ports is accomplished with two control voltages (V1 and V2).

The low loss, high isolation, high linearity, small size, and low cost make this switch ideal for all WLAN and Bluetooth systems operating in the 2.4 to 2.5 GHz band.

The SKYA21039 has integrated DC blocking capacitors, so external DC blocking capacitors are not required.

The SKYA21039 is manufactured in a compact, 1.1 x 1.1 x 0.5 mm, 8-pin Micro Leadframe (MLP) package. A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKYA21039	2.4 to 2.5 GHz SP3T Switch	SKYA21039-EVB

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