

PRODUCT SUMMARY

SKY19250-001: 0.1 to 2.7 GHz SPST GPIO Antenna Tuning Switch

Applications

- Aperture tuning
- Impedance tuning

Features

- Broadband frequency range: 0.1 to 2.7 GHz
- Vpeak: 80 V
- RON: 1.8 Ω
- COFF: 139 fF
- Control logic: GPIO
- Ultra-small 6-bump WLCSP, 400 μm pitch (1.175 x 0.775 x 0.395 mm [maximum]) package (MSL1, 260 °C per JEDEC J-STD-020)

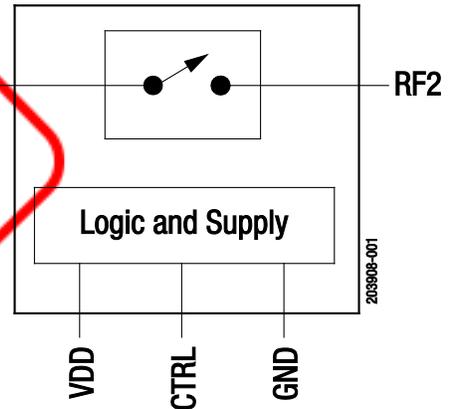
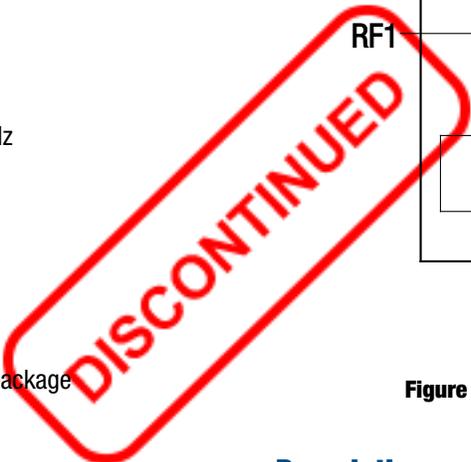


Figure 1. SKY19250-001 Block Diagram

Description

The SKY19250-001 is a single-pole, single-throw (SPST) switch designed for antenna tuning applications that require very low ON resistance and low OFF capacitance. Switching is controlled by an integrated GPIO interface with a single control pin. Depending on the logic voltage level applied to the control pin, RF1 port can be either connected to RF2 port or RF1 and RF2 ports will be in isolation state.

No external DC blocking capacitors are required as long as no DC voltage is applied on any RF path.

The SKY19250-001 is provided in a compact 6-bump, 1.175 x 0.775 x 0.395 mm (maximum) wafer level chip scale package (WLCSP) that meets requirements for board-level assembly. Minimum bump pitch is 400 microns.

A functional block diagram is shown in Figure 1.



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	Product Description	Evaluation Board Part Number
SKY19250-001	0.1 to 2.7 GHz SPST GPIO Antenna Tuning Switch	SKY19250-001EK1



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