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**PRODUCT SUMMARY**

# SKY19250-001: 0.1 to 2.7 GHz SPST High-Power Antenna Tuning Switch

**Applications**

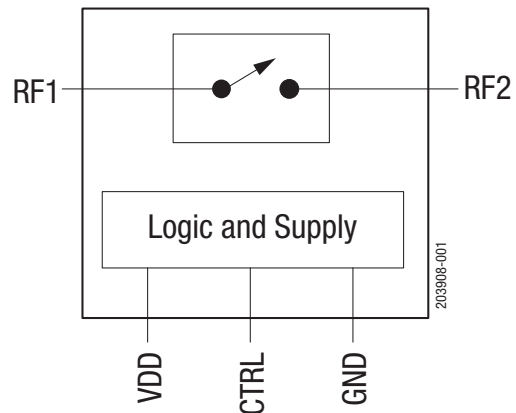
- Antenna tuning
- Impedance tuning
- Band switching

**Features**

- Broadband frequency range: 0.1 to 2.7 GHz
- Low ON-state resistance and OFF-state capacitance
- High-power and peak-voltage handling (+39.5 dBm/70 V typical)
- No external DC blocking capacitors required
- 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)



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**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.

## Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY19250-001: SPST Switch	SKY19250-001	SKY19250-001EK1

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