

**PRODUCT SUMMARY**

# SKY19245-686LF: 0.1 to 2.7 GHz SP4T GPIO Antenna Tuning Switch

**Applications**

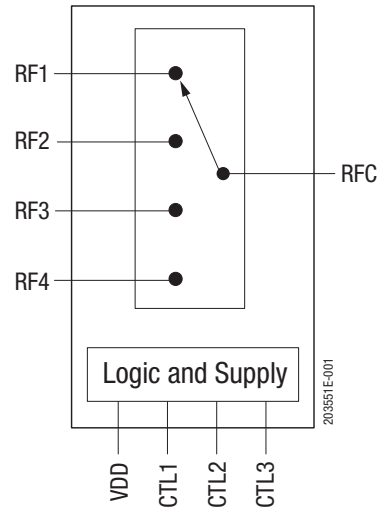
- Aperture tuning
- Impedance tuning

**Features**

- Broadband frequency range: 0.1 to 2.7 GHz
- Vpeak: 39 V
- RON: 0.8 Ω
- COFF: 150 fF
- Control logic: GPIO
- Small QFN (10-pin, 1.5 × 1.1 × 0.45 mm typical) package (MSL1, 260 °C per JEDEC J-STD-020)



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.



**Figure 1. SKY19245-686LF Block Diagram**

**Description**

The SKY19245-686LF is a Quad Flat No-Lead (QFN) single-pole, four-throw (SP4T) switch designed for antenna tuning applications that require very low RON and COFF. Switching is controlled by an integrated GPIO interface with three control pins. Depending on the logic voltage level applied to the control pins, the antenna port can be either connected to one of the four switched RF outputs or to multiple pre-defined outputs simultaneously, while the other RF ports are in isolation state to antenna port.

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

The SKY19245-686LF is provided in a compact 10-pin, 1.5 × 1.1 × 0.45 mm typical QFN that meets requirements for board-level assembly.

A functional block diagram is shown in Figure 1.

## Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY19245-686LF	0.1 to 2.7 GHz SP4T GPIO Antenna Tuning Switch	SKY19245-686LF-EVB

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