

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
- V_{peak} : 39 V
- R_{ON} : 0.8 Ω
- C_{OFF} : 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)



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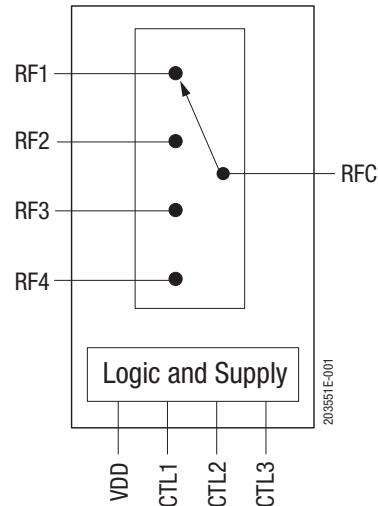


Figure 1. SKY19245-686LF Block Diagram

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 R_{ON} and C_{OFF} . 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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