PRODUCT SUMMARY

SKY5™-9269-702LF: 0.6 to 6.0 GHz SP4T MIPI® Antenna Tuning Switch

Applications

- Aperture tuning
- Impedance tuning

Features

- Broadband frequency range: 0.6 to 6.0 GHz
- V_{PEAK}: 84 V
- R_{ON}: 1.4 Ω
- C_{OFF}: 104 fF
- IP2/IP3: 155 dBm/90 dBm
- Supply voltage: 1.8 V
- Control logic: MIPI v2.0
- Small QFN (12-pin, 1.6 x 1.6 x 0.45 mm typical) package

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.
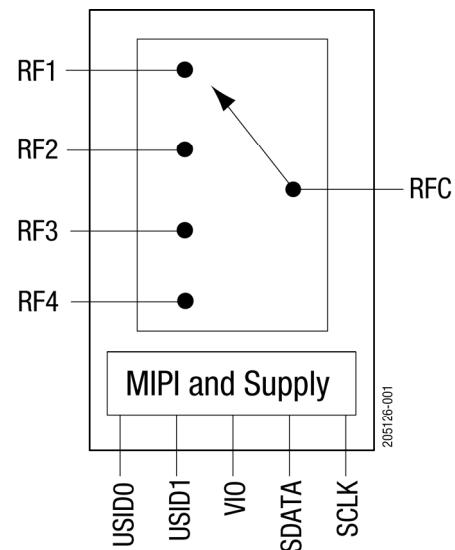

Figure 1. SKY59269-702LF Block Diagram

Description

The SKY59269-702LF 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}, and high V_{PK}. The switch can be used for either series or shunt tuning applications. Depending on the register setting, the antenna port can be 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 the antenna port.

The part is designed to sustain a peak voltage of 80 V typical without going to breakdown.

The switching is controlled by an integrated Mobile Industry Processor Interface (MIPI), v2.0 decoder.

The SKY59269-702LF is provided in a compact 12-pin, 1.6 x 1.6 x 0.45 mm (typical) QFN package 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
SKY59269-702LF	0.6 to 6.0 GHz SP4T MIPI Antenna Tuning Switch	SKY59269-702EK1

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