

## PRODUCT SUMMARY

# SKY13596-397LF: 0.4 to 3.8 GHz DPDT Switch

## Applications

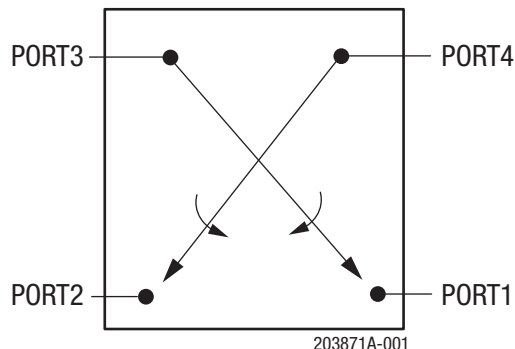
- Simultaneous voice and LTE systems
- Diversity antenna switching

## Features

- Single control voltage input
- Broadband frequency range: 0.4 to 3.8 GHz
- Low insertion loss: 0.5 dB @ 2.7 GHz
- No DC blocking capacitors required
- Positive control voltage range: 1.35 to 3.1 V
- GSM power handling
- Small, QFN (12-pin, 2 x 2 mm) 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. SKY13596-397LF Block Diagram**

## Description

The SKY13596-397LF is a state-of-the-art CMOS, Silicon-On-Insulator (SOI) double-pole, double-throw (DPDT) switch. The switch provides high-linearity performance, low insertion loss, and high isolation.

Switching is controlled by one voltage input, CTRL1. Depending on the logic voltage level applied to this pin, the PORT1 and PORT2 pins connect to one of the two other RF port pins (PORT3 or PORT4) through a low insertion loss path, while maintaining a high isolation path to the alternate port. No external DC blocking capacitors are required on the RF path as long as no DC voltage is applied externally.

The SKY13596-397LF DPDT switch is provided in a compact Quad Flat No-Lead (QFN) 2 x 2 mm package. A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY13596-397LF: DPDT Switch	SKY13596-397LF	SKY13596-397LF-EVB