

PRODUCT SUMMARY

SKY13582-676LF: 0.4 to 3.8 GHz SP3T Switch

Applications

- Cellular systems
- 3G/4G LTE systems
- Pre- and post-PA switching

Features

- Broadband frequency range: 0.4 to 3.8 GHz
- Very low insertion loss
- High isolation: 25 dB at 2.7 GHz
- Integrated GPIO interface
- No DC blocking capacitors required
- Lead (Pb)-free and RoHS-compliant
- Small QFN (9-pin, $1.1 \times 1.1 \times 0.5$ 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.

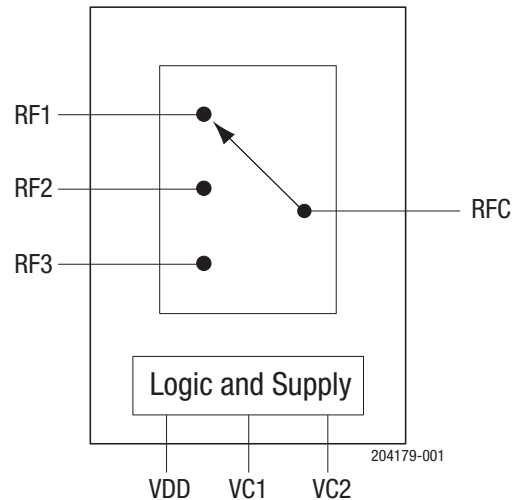


Figure 1. SKY13582-676LF Block Diagram

Description

The SKY13582-676LF is a single-pole, triple-throw (SP3T) switch. No external DC blocking capacitors are required on the RF paths as long as there is no DC voltage on the RF line. The switch can operate over the temperature range of -40 °C to $+85$ °C.

Switching is controlled by two CMOS/TTL compatible control voltage inputs (VC1 and VC2). Depending on the logic voltage level applied to the control pin, the RFC pin is connected to one of three switched RF outputs (RF1, RF2, or RF3) by using a low insertion loss path, while the path between the RFC pin and the other RF pins is in isolation.

The SKY13582-676LF is provided in a small 9-pin, $1.1 \times 1.1 \times 0.5$ mm QFN package.

A functional block diagram is shown in Figure 1.

Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY13582-676LF: 0.4 to 3.8 GHz SP3T Switch	SKY13582-676LF	SKY13582-676-EVB

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