

## PRODUCT SUMMARY

# SKYA21003: 0.1 to 6.0 GHz SPDT Switch

## Automotive Applications

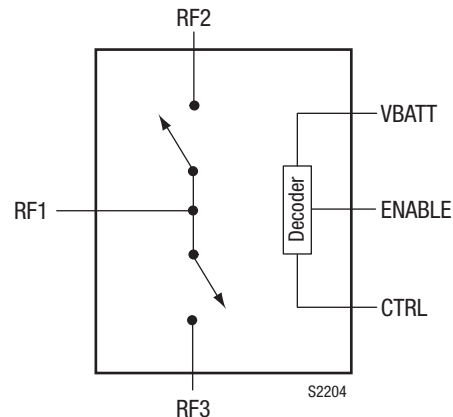
- Infotainment
- Telematics
- Remote keyless entry
- Automated toll systems
- Automotive smart home control systems
- In-cabin wireless systems
- GPS/Navigation

## Features

- AEC-Q100 Grade 2 qualified
- Operating temperature range: -40 to +105 °C
- Automotive Level 3 PPAP available
- IMDS material declaration available
- Independent BOM management to minimize PCN risk
- Broadband frequency support: 0.01 to 6.0 GHz
- Single bit control
- Rated for GSM power levels
- ESD: 1,500 V HBM Class 1C, 1,000 V CDM Class C3
- Low insertion loss: < +0.5 dBm at 2.5 GHz
- Excellent linearity: IMD3 < -105 dBm
- Designed and manufactured in ISO/TS16949 certified facility
- Lead (Pb)-free and RoHS-compliant  
(MSL-1 @ 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. SKYA21003 Block Diagram**

## Description

The SKYA21003 is a CMOS, silicon-on-insulator (SOI) single-pole, double-throw (SPDT) switch. The high linearity and low insertion loss of the SKYA21003 make it an ideal choice for WCDMA data card applications.

The switch is a “reflective short” on the isolated port.

The SKYA21003 SPDT 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
SKYA21003: SPDT Switch	SKYA21003	SKYA21003-EVB

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