

PRODUCT SUMMARY

SKY12245-492LF: 0.3 to 3.8 GHz, 100 W Compact High-Power SPDT Switch with Integrated Driver

Applications

- TDD 2G/3G/4G LTE systems
- High-power switch for micro-cell and macro-cell base stations
- Active antenna array

Features

- Compact, integrated high-power switch with driver circuit
- Small PCB footprint with minimal external components
- Requires only a single +5 V DC supply, and a 0 to 3 V logic control
- Low TX/RX insertion loss
- High TX to RX isolation
- Low DC power consumption: <130 mA in TX or RX mode
- Small QFN (20-pin, 5 × 5 mm) Pb-free package (MSL3, 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.

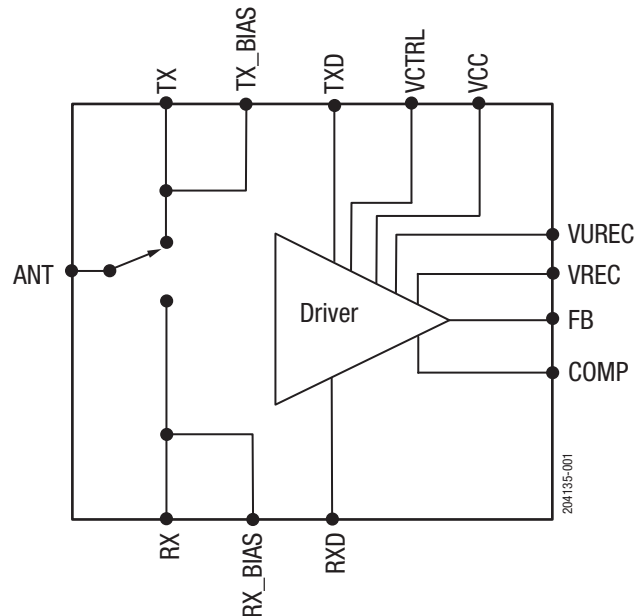


Figure 1. SKY12245-492LF Block Diagram

Description

The SKY12245-492LF is a compact, integrated high-power single-pole, double-throw (SPDT) switch with driver circuit for TD-LTE applications. The part operates with a single +5 V supply and switches with a single control voltage (0 to 3 V). It can be tuned to specific RF bands within the range of 0.3 to 3.8 GHz by modifying select external SMT components.

This device features low TX and RX insertion loss, high isolation with low DC power consumption and requires minimal external components, enabling a smaller PCB footprint.

The device is provided in a 5 × 5 mm, 20-pin Quad Flat No-Lead (QFN) package. A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY12245-492LF	100 W Compact High-Power SPDT Switch	SKY12245-492EK1

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