

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)



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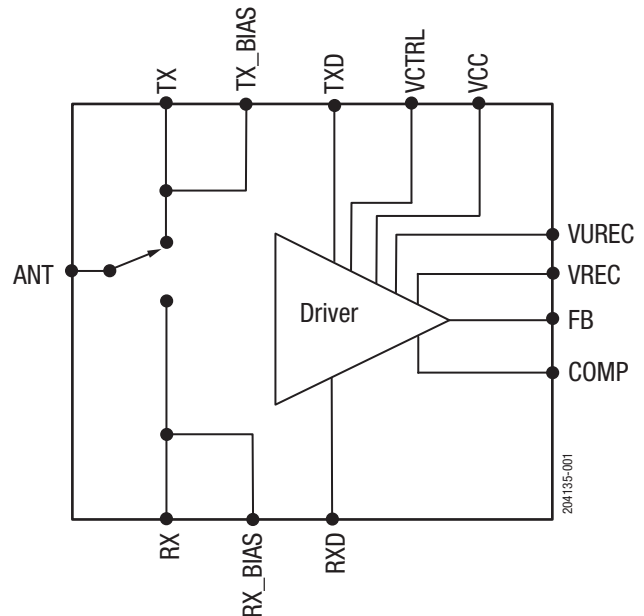


Figure 1. SKY12245-492LF Block Diagram

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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- Консультации по применению компонента;
- Поставка образцов и прототипов;
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