

PRODUCT SUMMARY

SKY12255-708LF: 0.3 to 3.8 GHz 160 W High-Power SPDT Switch

Applications

- High-power fail-safe switch for TDD 4G and 5G systems
- High-power switch for macro base stations
- High Power Distributed Antenna Systems (DAS)

Features

- Compact, integrated high-power switch
- Small PCB footprint with minimal external components
- 160 W average power handling at 120 °C case temperature
- Low TX/RX insertion loss: < 0.3 dB at 2.6 GHz
- High TX to RX isolation
- Low DC power consumption
- 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.

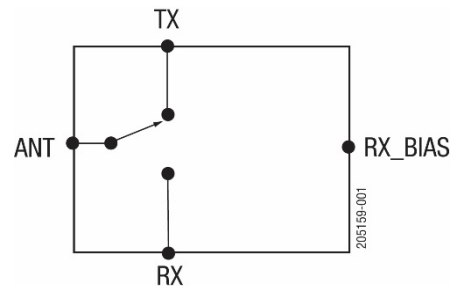


Figure 1. SKY12255-708LF Block Diagram

Description

The SKY12255-708LF is a compact single-pole, double-throw (SPDT) fail-safe switch for TDD applications.

This device features high-power handling at hot, low TX and RX insertion loss, and high isolation with low DC power consumption. The device 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. Pin-to-pin compatible with SKY12248 (120 W fail-safe switch)

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY12255-708LF	1.8 to 3.8 GHz High-Power SPDT Switch	SKY12255-492EK1 1.8 to 3.8 GHz

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