

PRODUCT SUMMARY

SKY5®-9600-11: 0.4 to 6.0 GHz 3P3T Low Insertion Loss Switch

Applications

- LTE systems
- Main/Diversity/MIMO antenna swapping

Features

- Broadband frequency range: 0.4 to 6.0 GHz
- GSM power handling
- Very low insertion loss: 0.35 dB @ 1.0 GHz (typical)
- High isolation: 30 dB @ 2.7 GHz (typical)
- Supply voltage: 1.8 V
- Control logic: MIPI® v2.1 control
- No DC blocking capacitors required
- Small MCM (16-pin, 2.0 × 2.0 × 0.65 mm typical) package (MSL3, 260 °C per JEDEC J-STD-020)



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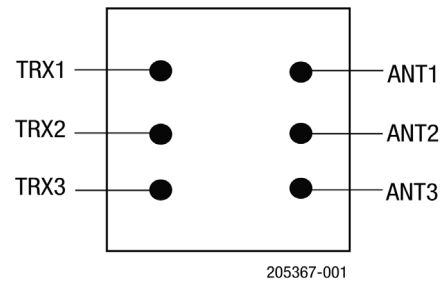


Figure 1. SKY59600-11 Block Diagram

Description

The SKY59600-11 is a state-of-the-art CMOS, silicon-on-insulator (SOI) triple-pole, triple-throw (3P3T) switch. The switch provides high-linearity performance, low insertion loss, and high isolation.

Switching is controlled by Mobile Industry Processor Interface (MIPI) register programming. Any TRX port can be connected to any ANT port through a low insertion loss path, while maintaining high isolation to any of the other RF paths. This makes the SKY59600-11 an ideal choice for main, diversity, and MIMO antenna swap applications. No external DC blocking capacitors are required on the RF path as long as no DC voltage is applied externally.

The SKY59600-11 3P3T switch is provided in a compact MCM 2.0 × 2.0 × 0.65 mm package. A functional block diagram is shown in Figure 1.

Ordering Information

Part Number	Product Description	Evaluation Board Part Number
SKY59600-11	0.4 to 6.0 GHz 3P3T Low Insertion Loss Switch	SKY59600-11EK1

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