

**PRODUCT SUMMARY**

# SKY13567-666LF: 0.7 to 2.7 GHz SP5T Switch

**Applications**

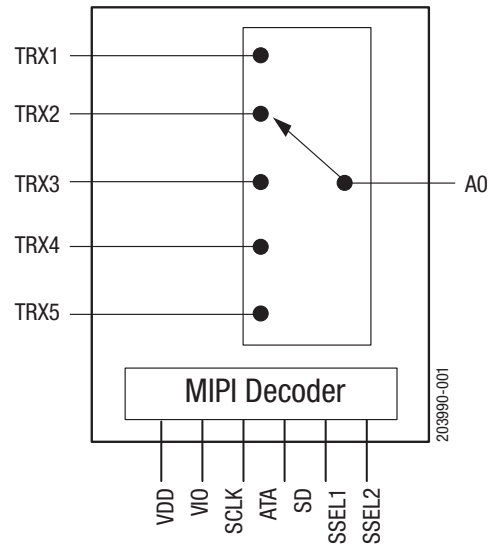
- TX/RX diversity
- 2G/3G/4G multimode cellular handsets (LTE, UMTS, CDMA2000, EDGE, and GSM)

**Features**

- Low insertion loss:
  - LB = 0.3 dB
  - MB = 0.5 dB
  - HB = 0.6 dB
- High isolation:
  - LB = 38 dB
  - MB = 31 dB
  - HB = 30 dB
- High linearity, IP3 = +59 dBm
- Integrated MIPI interface
- 2-bit USID selection (allows up to four parts per system)
- Small (12-lead, 1.9 x 1.1 mm) 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. SKY13567-666LF Block Diagram**

**Description**

The SKY13567-666LF is a single-pole, five-throw (SP5T) switch. The five separate paths are MIPI selectable using an integrated Mobile Industry Processor Interface (MIPI) decoder. The switch has two external pins (SSEL1 and SSEL2) that can be used to program the USID. Using advanced technology, the SKY13567-666LF maintains low insertion loss and high isolation. The switch makes it an ideal choice for overcoming path loss from the antenna to the transceiver.

The SKY13567-666LF is packaged in a small 1.1 x 1.9 mm 12-lead surface-mount package. No external DC blocking capacitors are required on the RF paths as long as no DC voltage is applied.

A functional block diagram is shown in Figure 1.

## Ordering Information

Model Name	Manufacturing Part Number	Evaluation Board Part Number
SKY13567-666LF: 0.7 to 2.7 GHz SP5T LTE Switch	SKY13567-666LF	SKY13567-666LF-EVB

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