

#### **PRODUCT SUMMARY**

# SKY13637-695LF: 0.7 to 3.8 GHz SP8T LTE Transmit/Receive Switch with MIPI RFFE Interface

### **Applications**

- 3G/4G multimode cellular tablets and handsets (LTE, UMTS, CDMA2000)
- Embedded data cards

### **Features**

- Broadband frequency range: 0.7 to 3.8 GHz
- · Low insertion loss
- High isolation and linearity
- Small QFN (14-pin, 2 x 2 mm) package (MSL1, 260 °C per JEDEC J-STD-020)



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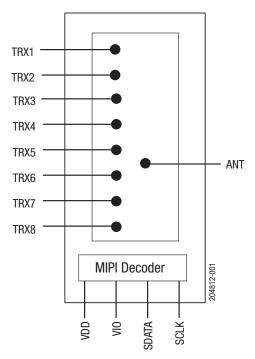


Figure 1. SKY13637-695LF Block Diagram

#### **Description**

The SKY13637-695LF is a single-pole, eight-throw (SP8T) antenna switch with a Mobile Industry Processor Interface (MIPI), Version 2.0.

Using advanced switching technologies, the SKY13637-695LF maintains low insertion loss and high isolation for both transmit and receive switching paths. The high-linearity performance and low insertion loss achieved by the SKY13637-695LF make it an ideal choice for UMTS, CDMA2000, and LTE applications.

Depending on the logic applied to the decoder, the antenna pin is connected to one of six switched RF ports using a low insertion loss path, while the paths between the antenna pin and the other RF pins are in a high-isolation state. Switching is controlled by the MIPI decoder. No external DC blocking capacitors are required on the RF paths as long as no DC voltage is applied.

The SKY13637-695LF is manufactured in a compact, 2 x 2 mm, 14-pin surface-mount Quad Flat No-Lead (QFN) package.

A functional block diagram is shown in Figure 1.

#### **Ordering Information**

| Product Description                              | Product Part Number | Evaluation Board Part Number |
|--|---------------------|------------------------------|
| SKY13637-695LF: 0.7 to 3.8 GHz SP8T LTE          |                     |                              |
| Transmit/Receive Switch with MIPI RFFE Interface | SKY13637-695LF      | SKY13637-695EK1              |

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