PRODUCT SUMMARY

SKY13594-666LF: 3P4T Transmit/Receive LTE Switch with MIPI RFFE Compatibility

Applications

- Receive and Transmit switch for FDD and TDD high band systems
- Mode switching for cellular, tablet, and embedded modules

Features

- Low insertion loss optimized for FDD and TDD high-band systems
- Integrated MIPI interface, compliant with Rev. 2.0
- Ideal to work with SKY77661 FEM
- Small QFN (12-lead, 1.9 x 1.1 mm) package (MSL1, 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.

Description

The SKY13594-666LF is a three-pole, four-throw (3P4T) switch with an integrated Mobile Industry Processor Interface (MIPI) controller. Using an advanced switching technology, the SKY13594-666LF maintains low insertion and high isolation, which makes it an ideal choice for LTE applications. Depending on the truth table settings, the following switched outputs are possible:

- RF1 port can be connected to the RF5 port.
- RF2 port can be connected to the RF7 port.
- RF3 port can be connected to the RF4, RF5, RF6, or RF7 port.

No external DC blocking capacitors are required as long as no DC voltage is applied on any RF path.

The SKY13594-666LF is packaged in a small 1.9 x 1.1 mm 12-lead surface-mount package that meets requirements for board-level assembly.

A functional block diagram is shown in Figure 1.
## Ordering Information

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Manufacturing Part Number</th>
<th>Evaluation Board Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKY13594-666LF: 3P4T Transmit/Receive LTE Switch with MIPI RFFE Compatibility</td>
<td>SKY13594-666LF</td>
<td>SKY13594-666LF-EVB</td>
</tr>
</tbody>
</table>