PRODUCT SUMMARY

SKY19245-686LF: 0.1 to 2.7 GHz SP4T High-Power Antenna Tuning Switch in a QFN Package

Applications
- Antenna tuning
- Impedance tuning
- Band switching

Features
- Broadband frequency range: 0.1 to 2.7 GHz
- Low ON-state resistance and OFF-state capacitance
- High-power and peak-voltage handling (+42 dBm/39 V typical)
- No external DC blocking capacitors required
- Small QFN (10-pin, 1.5 × 1.1 × 0.5 mm maximum) 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 SKY19245-686LF is a Quad Flat No-Lead (QFN) single-pole, four-throw (SP4T) switch designed for antenna tuning applications that require very low Ron and Coff. Switching is controlled by an integrated GPIO interface with three control pins. Depending on the logic voltage level applied to the control pins, the antenna port can be either connected to one of the four switched RF outputs or to multiple pre-defined outputs simultaneously, while the other RF ports are in isolation state to antenna port.

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

The SKY19245-686LF is provided in a compact 10-pin, 1.5 × 1.1 × 0.5 mm maximum QFN that meets requirements for board-level assembly.

A functional block diagram is shown in Figure 1.

Figure 1. SKY19245-686LF Block Diagram
## 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>SKY19245-686LF: SP4T Switch</td>
<td>SKY19245-686LF</td>
<td>SKY19245-686LF-EVB</td>
</tr>
</tbody>
</table>