PRODUCT SUMMARY

SKY85734-11: 5 GHz, 802.11ac Front-End Module

Applications

- 802.11ac set-top boxes, networking, and personal computer systems
- PC cards, PCMCIA cards, mini-cards, and half mini-cards
- WLAN enabled wireless video systems

Features

- Integrated high-performance 5 GHz PA, LNA with bypass, and SPDT
- Fully matched input and output
- Integrated, positive slope power detector
- Transmit loopback mode
- Transmit gain: 30 dB
- Receive gain: 14 dB
- Output power: +18 dBm, @3% (~30 dB) DEVM, MCS7, HT40
- Output power: +17 dBm @ 1.8% (~35 dB) DEVM, MCS9, VHT80
- Direct connection to battery with 3.3 V nominal supply voltage
- Small MCM (12-pin, 2.0 x 2.0 x 0.6 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.

Description

The SKY85734-11 is a highly integrated, 5 GHz front-end module (FEM) incorporating a 5 GHz single-pole, double-throw (SPDT) transmit/receive (T/R) switch, a 5 GHz low-noise amplifier (LNA) with bypass, and a 5 GHz power amplifier (PA) intended for mobile/portable 802.11ac applications and systems.

An enable/disable function allows power savings during off mode. An integrated power detector with 20 dB of dynamic range provides closed-loop power control within the system.

The device is provided in a compact, 12-pin 2.0 x 2.0 x 0.6 mm Multi-Chip Module (MCM) package. 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>SKY85734-11: 5 GHz, 802.11ac Front-End Module</td>
<td>SKY85734-11</td>
<td>SKY85734-11-EVB</td>
</tr>
</tbody>
</table>