PRODUCT SUMMARY

SKY85405-11: High-Power 802.11ac WLAN Power Amplifier with Integrated Power Detector

Applications
- IEEE 802.11ac WLAN enabled:
  - Access points
  - Media gateways
  - Set-top boxes
- Other broadband triple-play multimedia applications

Features
- High linear output power for IEEE 802.11ac, MCS9, 5.0 V
- High transmit gain
- Power shutdown mode
- Superior gain flatness
- Fully matched at RF input/output ports
- Load insensitive power detector
- Small footprint QFN (20-pin, 4 x 4 mm) SMT package (MSL3, 260 °C per JEDEC J-STD-020)

Description
Skyworks SKY85405-11 is a 5 GHz Microwave Monolithic Integrated Circuit (MMIC) power amplifier (PA) with superior output power, linearity, and efficiency. These features make the SKY85405-11 ideal for wireless local area network (WLAN) IEEE 802.11ac applications.

The SKY85405-11 features an internal band-gap regulator that eliminates the need for an external reference supply. The PA is activated with a standard 1.8 V to 5.0 V low current CMOS logic signal.

The device is fabricated using Indium Gallium Phosphide (InGaP) Heterojunction Bipolar Transistor (HBT) technology. The device is internally matched and mounted in a 20-pin, 4 x 4 mm Quad Flat No-Lead (QFN) surface-mount technology (SMT) package, which allows for a highly manufacturable, low-cost solution.

A block diagram of the SKY85405-11 is shown in Figure 1.

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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.
#### 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>SKY85405-11: High-Power WLAN Power Amplifier</td>
<td>SKY85405-11</td>
<td>SKY85405-11-EK1</td>
</tr>
</tbody>
</table>

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