PRODUCT SUMMARY

SKY85502-11: Skyworks® ICE™ 5 GHz Front-End Module for Wi-Fi® 7 Applications

Applications

- Wireless routers
- Access points
- Home gateways
- Customer Premise Equipment (CPE)
- Mesh/whole-home Wi-Fi® systems
- Wi-Fi based home entertainment systems

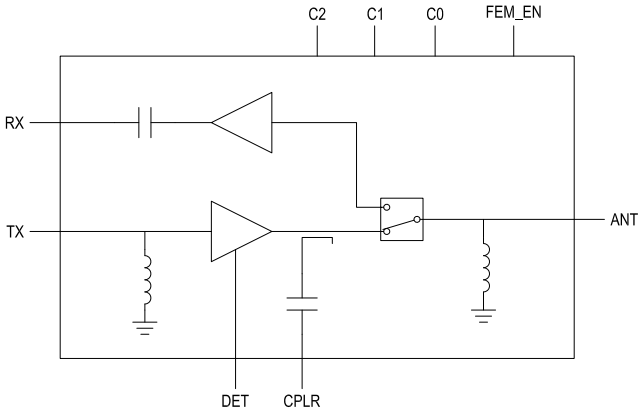


Figure 1. Functional Block Diagram

Features

- Integrated non-linear, high-performance 5 GHz PA, LNA with bypass mode, low-gain mode, high-gain mode, T/R switch, coupler for Wi-Fi 7 (802.11be)
- Fully matched input and output
- Integrated logarithmic power detector
- Transmit gain: 32 dB
- Receive gain: 15 dB
- AM/AM distortion: 1 dB
- AM/PM distortion: 3 degrees
- 24-pin, 3 x 5 mm MCM package (MSL3, 260 °C per JEDEC J-STD-020)
- For RoHS and other product compliance information, see the Skyworks Certificate of Conformance.

Description

The SKY85502-11 is a highly integrated 5 GHz front-end module (FEM) incorporating a transmit/receive (T/R) switch, a high-performance low-noise amplifier (LNA) with high-gain, low-gain and bypass mode, and a non-linear PA intended for Wi-Fi 7 (802.11be) applications and systems.

An integrated logarithmic power detector is included to provide closed-loop power control within the system.

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Ordering Information

Part Number	Description	Evaluation Board Part Number
SKY85502-11	Skyworks® ICE™ Technology 5 GHz Front-End Module for Wi-Fi® 7 Applications	SKY85502-11EK1

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