

# **PRODUCT SUMMARY**

# SKY85787-11: Skyworks ICE<sup>™</sup> 5 GHz Mid-High Power Front-End Module for Wi-Fi 6

# **Applications**

- Wi-Fi 6 networking systems and set-top boxes
- · WLAN-enabled wireless video streaming systems

### **Features**

- Integrated high-efficiency, high-performance 5 GHz PA, LNA with bypass mode, and T/R switch
- · Fully matched input and output
- Integrated logarithmic power detector
- Integrated, temperature-compensated log detector
- Receive gain: 15 dB
- AM/AM distortion: 5 dB
- AM/PM distortion: 10 degrees
- 24-pin, 3 x 5 mm laminate package (MSL3, 260 °C per JEDEC J-STD-020)

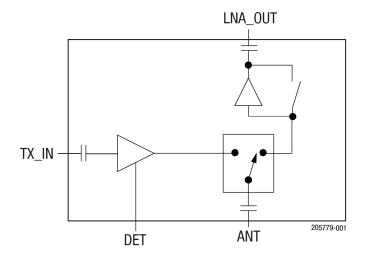


Figure 1. SKY85787-11 Block Diagram

## Description

The SKY85787-11 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 high-gain, low-noise amplifier (LNA) with bypass mode, and a non-linear power amplifier (PA) intended for high-power Wi-Fi 6 applications and systems.

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

The device is housed in a 24-pin 3 x 5 mm Land Grid Array (LGA) package. A functional block diagram is shown in Figure 1.



Skyworks Green<sup>TM</sup> products are compliant with all applicable legislation and are halogen-free. For additional information, refer to *Skyworks Definition of Green*<sup>TM</sup>, document number SQ04–0074.

#### **Ordering Information**

Part Number	Product Description	Evaluation Board Part Number
SKY85787-11	5 GHz High-Efficiency Mid-High Front-End Module	SKY85787-11EK1

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