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SKY65313-11



Multichip Module (MCM)
6 x 6 mm

[Transmit output power > +30.5 dBm](#)

[High efficiency PA](#)

[Analog power control](#)

[LNA NF <1.4 dB](#)

[LNA bypass mode](#)

[Integrated control logic](#)

[Internal RF match and bias circuits](#)

[All RF ports internally DC blocked](#)

[Low leakage current shutdown mode](#)

[Small footprint, MCM \(28-pin, 6 x 6 mm\) package \(MSL3, 260 °C per JEDEC J-STD-020\)](#)

SKY65313-11

900 MHz Transmit/Receive Front-End Module

Skyworks SKY65313-11 is a high performance, transmit/receive (T/R) Front-End Module (FEM). The device provides a complete T/R chain with T/R switches.

The device transmit chain features +30.5 dBm output power and a 40 percent Power Added Efficiency (PAE) including harmonics filter and switch losses.

The device receive chain features a Low Noise Amplifier (LNA) with a 1.4 dB Noise Figure (NF) and 16.6 dB gain. The cascaded NF and gain, taking into account the 0.5 dB insertion loss transmit/receive antenna switch, is 1.9 dB and 16.1 dB, respectively, which make the SKY65313-11 ideal for medium power microwave links such as 900 MHz Industrial, Scientific, and Medical (ISM) band applications.

The module also has a shut-down mode and Low-Noise Amplifier (LNA) bypass mode to minimize power consumption.

The device is mounted in a 28-pin, 6 x 6 mm Multi-Chip Module (MCM) Surface-Mounted Technology (SMT) package, which allows for a highly manufacturable low-cost solution.

TECHNICAL DOCUMENTATION

SPECIFICATIONS

Green