

## PRODUCT SUMMARY

# SKY5™ -8254-11 Power Amplifier Module for 4G/5G and LTE/NR Applications ( B38, B41 and n41 )

### Applications

- Multiband 4G/5G handsets
  - Bands B38, B41, n41

### Features

- Full Baseband-Agnostic Design
- Full Power APT support without DPD
- HB S-PAD covering B38, B41 and n41
- MIPI® v2.1-compliant 52 MHz RFFE bus
- High performance ET/APT PA core
- High performance LNA cores
- Support Fast SRS Hopping timing requirements
- 50 ohm input/output impedance with internal DC-blocking
- Continuous bias control via RFFE interface
- Low Supply voltage
- Low leakage current in power-down mode
- Integrated Antenna and Tx-Rx switches
- Small, low profile package
  - 3.0 mm x 5.0 mm x 0.7 mm (Max.)

### Description

SKY58254-11 is a recent addition to our Sky5 portfolio of 5G Technology products. Packaged in a single 3.0 mm x 5.0 mm x 0.7 mm ( Max. ) form factor, this versatile and fully matched Front-End Module ( FEM ) supports ultra-high band 4G/5G and LTE/NR applications. The surface mount ( SMT ) module consists of PA blocks, input and output matching, a MIPI standard digital control block, single-ended filter, antenna and Tx-Rx switches and forward/reverse coupler.

Utilizing an enhanced architecture, SKY58254-11 covers multiple bands and meets the spectral linearity requirements of CP-OFDM and DFTS-OFDM modulations with up to 100 MHz bandwidth and up to 273 resource block allocations. Output power is controlled by varying input power and adjusting VCC maximizes efficiency. Extremely low leakage current maximizes handset stand-by time.



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

Part Number	Part Description	Evaluation Board Part Number
SKY58254	Power Amplifier Module	SKY58254EK1

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