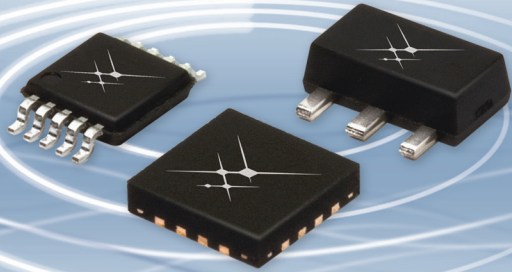




SKYWORKS®

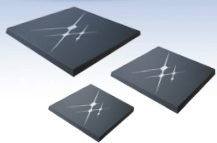
BREAKTHROUGH SIMPLICITY



Solutions Spotlight



intera™ Front-End Modules



CDMA / WCDMA

*SKY77425, SKY77433, SKY77435, SKY77436,
SKY77438, SKY77451, SKY77462*

EDGE

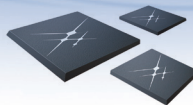
*SKY77524, SKY77528, SKY77529, SKY77544,
SKY77546, SKY77549*

GSM / GPRS

*SKY77517, SKY77518, SKY77531, SKY77542,
SKY77543, SKY77547, SKY77548, SKY77552*

- Multiband / multimode power amplifiers
- High-linearity Tx / Rx switches
- Single multichip module design
- Reduced handset design time
- Superior handset talk and standby times

iPAC™, System Smart®, and LIPA® PA Modules



CDMA2000

*SKY77163, SKY77164, SKY77166, SKY77176, SKY77183,
SKY77184, SKY77190, SKY77192*

Quad-Band GSM / GPRS / EDGE

SKY77336, SKY77344, SKY77346, SKY77350, SKY77351

TD-SCDMA

SKY77198, SKY77712

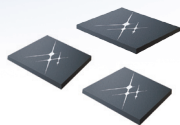
WCDMA

*SKY77174, SKY77175, SKY77177, SKY77181, SKY77182,
SKY77195, SKY77196, SKY77197, SKY77446, SKY77447,
SKY77448, SKY77701, SKY77702, SKY77703, SKY77704,
SKY77705*

- Compact form factors
- Outperform stringent linearity requirements
- Highly efficient for improved talk times
- Fully matched
- Broadband operation up to 6 GHz

PAAs and FEMs for LTE

SKY77441, SKY77449, SKY77453, SKY77455, SKY77456, SKY77457, SKY77458, SKY77706, SKY77707, SKY77708, SKY77709

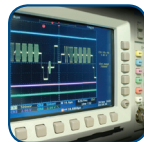


3 x 3 x 0.9 mm
4 x 4 x 0.85 mm
4 x 7 x 1.1 mm

Skyworks' multimode and multiband family of products provides the most complete and flexible set of options for companies developing and building 4G applications, including 4G-enabled handsets, infrastructure base stations, wireless PC cards, and a variety of other embedded solutions.

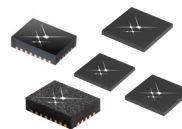
These solutions support the largest selection of bands (13) including LTE-FDD for the United States (the SKY77449 and SKY77453) and LTE-TDD for China (the SKY77441 and SKY77709).

- QPSK, 16 QAM for up to 20 MHz bandwidth, 100 resource blocks
- Linear LTE PAM power @ 3.4 V of 27.5 dBm
- Support low collector operation (1.5 V)
- Support low power mode
- Low current consumption
- Skyworks InGaP BiFET technology



ASMs for Handsets

SKY13362-389LF, SKY13364-389LF, SKY13402-466LF, SKY14152, SKY18105, SKY18106-455LF, SKY18107-455LF, SKY18108, SKY18110, SKY18116, SKY18118, SKY18120



2.5 x 2.5 x 1.05 mm
2.6 x 3.4 x 0.55 mm
3.2 x 2.5 x 0.9 mm
3.8 x 3 x 0.75 mm
3.8 x 3 x 0.85 mm

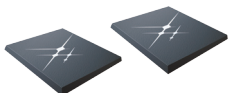
Skyworks' family of antenna switch modules (ASMs) for 2/3/4G handset and data card platforms uses both gallium arsenide (GaAs) or silicon on insulator (SOI) technologies. Skyworks' products address the three primary switching functions: main antenna, diversity and band/mode. These compact solutions deliver state-of-the-art technology to meet both high-performance and low-cost architectures, depending upon the interface requirements.

- GPIO, DigRF, MIPI RFFE
- SP8T/SP9T/SP10T ASMs; SP8T/SP10T Rx FEM; SP4T/SP5T diversity
- GaAs or SOI technology
- IPD and embedded harmonic filters and Rx SAW (optional)
- Ultra low insertion loss
- High isolation, excellent linearity
- No DC blocking capacitors required

Wireless Connectivity

High Power WLAN Power Amplifiers

SKY65137, SKY65152

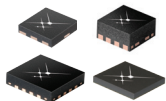


6 x 6 x 1.05 mm
6 x 6 x 1.3 mm

- Frequency: 2.4–6.0 GHz
- $OP_{1\text{dB}}$: 32.5 dBm; gain: 26–31 dB
- Output power: 25–27 dBm
- Integrated input / output matching circuits and coupler-detector

High-Power SPDT, DPDT, Matrix Switches for WLAN

SKY13299-321LF, SKY13319-374LF, SKY13320-374LF, SKY13321-360LF, SKY13348-374LF, SKY13365-359LF, SKY13370-374LF, SKY13381-374LF

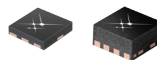


1.5 x 1.5 x 0.45 mm
2 x 2 x 0.9 mm
3 x 3 x 0.75 mm
4 x 4 x 0.9 mm

- Frequencies: 0.1–6 GHz
- Insertion loss: 0.4–0.6 dB @ 2 GHz
- $P_{1\text{dB}}$: 33–40 dBm
- Isolation: 25 dB typical @ 2 GHz

Low Noise Amplifiers and High Performance Receive Modules for WLAN

SKY65404, SKY65405, SKY65507

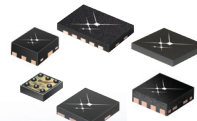


1.5 x 1.5 x 0.45 mm
2 x 2 x 0.55 mm

- Internally optimized for 2.4 GHz and 5.8 GHz WiFi frequency bands
- Ultra low noise figure and high IIP3
- Low-loss switches for Tx / Rx
- Small form factor, ideal for mobile / portable applications

Ultrasmall, Thin, SPDT, SP3T, SP4T Switches for WLAN

SKY13309-370LF, SKY13314-374LF, SKY13317-373LF, SKY13318-321LF, SKY13322-375LF, SKY13323-378LF, SKY13345-368LF, SKY13350-385LF, SKY13351-378LF, SKY13355-374LF, SKY13366-378LF, SKY13383-000



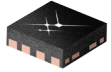
0.7 x 0.7 x 0.2 mm
1 x 1 x 0.45 mm
1.5 x 1.5 x 0.45 mm
2 x 2 x 0.6 mm
2 x 3 x 0.45 mm
3 x 3 x 0.75 mm

- Frequencies: 0.1–6 GHz
- Insertion loss: 0.3–0.5 dB typical @ 2.4 GHz, 0.6–1.2 dB @ 6 GHz
- Isolation: 25 dB typical @ 2.4 GHz, 20 dB typical @ 6 GHz

Infrastructure

Ultra Low Noise pHEMT Amplifiers for Infrastructure

SKY67100-396LF, SKY67101-396LF

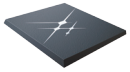


2 x 2 x 0.75 mm

- Ultra low noise figure: ≤ 0.70 dB
- Gain: 17.5 dB
- High output: OIP3 ≥ 34 dBm
- OP_{1 dB}: ≥ 18.5 dBm
- Frequency range: 0.4–3 GHz

Wideband Integrated VCO Synthesizer for Cellular Base Stations and Wireless Communications Systems

SKY73134



5 x 5 x 1 mm

- Ultra wide continuous frequency range: 0.375–5.6 GHz
- Very low noise integer-N frequency synthesizer
- Simple programming with automatic VCO selection
- Flexible configuration allows connection to external VCO or PLL

Surface Mount Shunt PIN Diode for High Power T/R Switch Applications

SMP1302-085LF

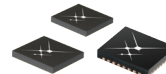


2 x 2 x 0.9 mm

- Low thermal resistance (40 °C/W)
- Suitable for 50 W CW T/R switches
- Low capacitance (0.3 pF)
- Low distortion performance

High Attenuation Accuracy Digital Attenuators

SKY12338-337LF, SKY12339-350LF, SKY12340-364LF, SKY12343-364LF, SKY12345-362LF, SKY12347-362LF, SKY12348-350LF, SKY12407-321LF



3 x 3 x 0.75 mm
4 x 4 x 0.9 mm
5 x 5 x 0.9 mm

- 1 to 7 bit step sizes
- Attenuation range from 0.25–31.75 dB
- High attenuation accuracy
- Broadband operation to 6 GHz

Infrastructure

High-Isolation SP2T to SP4T Switches

AS204-80LF, SKY13286-359LF, SKY13347-360LF

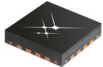


2 x 2 x 0.9 mm
4 x 4 x 0.9 mm
6 x 4.9 x 1.16 mm

- High isolation: > 60 dB
- Low insertion loss: < 0.6 dB
- Broadband operation to 6 GHz

High Power PIN Diode T/R Switch

SKY12207-306LF



4 x 4 x 0.9 mm

- Frequency coverage: 0.9–4.0 GHz
- Rx insertion loss: 0.4 dB typical
- Tx to Rx isolation: 40 dB typical
- ANT to Tx power handling: 50 W CW min.
- Excellent input and output return loss
- Positive supply voltage

Skyworks Solutions, Inc.

20 Sylvan Road, Woburn, MA 01801

USA: (781) 376-3000 • Asia: 886 2 2735 0399 • Europe: 33 (0)1 43548540 • Fax: (781) 376-3100

Email: sales@skyworksinc.com • www.skyworksinc.com

Precision Analog Components

0201 Surface Mount Low Barrier Silicon Schottky Diodes

SMS7621-060, SMS7630-061

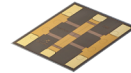


0.6 x 0.3 x 0.27 mm

- Low profile 0201 SMT package: 90% smaller than SC-79
- Suitable for use up to 100 GHz
- Low parasitic impedance: CP < 0.05 pF, LS < 0.2 nH

0–30 dB, DC–40 GHz Fixed Attenuator Chips

ATN3590 Series



0.725 x 0.7 x 0.1 mm

- Fixed value, absorptive devices
- Available attenuation values range from 0 to 10 dB (in 1 dB steps), and 12, 15, 20 and 30 dB
- Excellent return loss: 30 dB, typical
- Enhanced power handling: 2 W