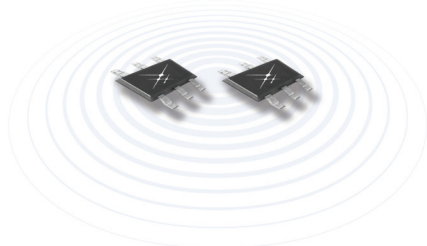


## SKY65013-92LF: InGaP Cascadable Amplifier LF-12 GHz

### Features

- Broadband: LF-12 GHz
- Small signal gain: 12.5 dB typ. @ 2 GHz
- High output 3rd order intercept: 29 dBm typ.
- 0 P<sub>1dB</sub>: 12.5 dBm typ. @ 2 GHz
- Input and output impedance: 50 Ω nominal
- Single, positive DC supply voltage
- Miniature SC-88 package
- Available lead (Pb)-free and RoHS-compliant  
MSL-1 @ 260 °C per JEDEC J-STD-020



### Description

The SKY65013 is a general-purpose, broadband amplifier fabricated from Skyworks InGaP HBT process and packaged in a miniature SC-88 package. The amplifier's input and output impedances are 50 Ω, which allows these amplifiers to be cascaded without external impedance matching networks. The typical -3 dB bandwidth of the SKY65013 is LF-12 GHz. This amplifier is also available in the plastic micro-X package (SKY65013-214LF) and the SOT-89 package (SKY65013-70LF)

The SKY65013 is lead (Pb)-free and RoHS-compliant.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at [www.skyworksinc.com](http://www.skyworksinc.com)

## SKY65014-92LF: InGaP Cascadable Amplifier LF-9 GHz

### Features

- Broadband: LF-9 GHz
- Small signal gain: 15 dB typ. @ 2 GHz
- High output 3rd order intercept: 36 dBm typ.
- $0 P_{1\text{dB}}$ : 18 dBm typ. @ 2 GHz
- Input and output impedance: 50  $\Omega$  nominal
- Single, positive DC supply voltage
- Miniature SC-88 package
- Available lead (Pb)-free and RoHS-compliant  
MSL-1 @ 260 °C per JEDEC J-STD-020



### Description

The SKY65014 is a general-purpose, broadband amplifier fabricated from Skyworks InGaP HBT process and packaged in a miniature SC-88 package. The amplifier's input and output impedances are 50  $\Omega$ , which allows these amplifiers to be cascaded without external impedance matching networks. The typical -3 dB bandwidth of the SKY65014 is LF-9 GHz. This amplifier is also available in the plastic micro-X package (SKY65014-214LF) and the SOT-89 package (SKY65014-70LF).

The SKY65014 is lead (Pb)-free and RoHS-compliant.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at [www.skyworksinc.com](http://www.skyworksinc.com).

## SKY65015-92LF: InGaP Cascadable Amplifier LF-6 GHz

### Features

- Broadband: LF-6 GHz
- Small signal gain: 18 dB typ. @ 2 GHz
- High output 3rd order intercept: 35 dBm typ.
- $I O P_{1\text{dB}}$ : 18 dBm typ. @ 2 GHz
- Input and output impedance: 50  $\Omega$  nominal
- Single, positive DC supply voltage
- Miniature SC-88 package
- Available lead (Pb)-free and RoHS-compliant  
MSL-1 @ 260 °C per JEDEC J-STD-020



### Description

The SKY65015 is a general-purpose, broadband amplifier fabricated from Skyworks InGaP HBT process and packaged in a miniature SC-88 package. The amplifier's input and output impedances are 50  $\Omega$ , which allows these amplifiers to be cascaded without external impedance matching networks. The typical -3 dB bandwidth of the SKY65015 is LF-6 GHz. This amplifier is also available in the plastic micro-X package (SKY65015-214LF) and the SOT-89 package (SKY65015-70LF).

The SKY65015 is lead (Pb)-free and RoHS-compliant.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at [www.skyworksinc.com](http://www.skyworksinc.com).

## SKY65016-92LF: InGaP Cascadable Amplifier LF-3 GHz

### Features

- Broadband: LF-3 GHz
- Small signal gain: 20 dB typ. @ 2 GHz
- High output 3rd order intercept: 27 dBm typ.
- 0 P<sub>1dB</sub>: 14 dBm typ. @ 2 GHz
- Input and output impedance: 50 Ω nominal
- Single, positive DC supply voltage
- Miniature SC-88 package
- Available lead (Pb)-free and RoHS-compliant  
MSL-1 @ 260 °C per JEDEC J-STD-020



### Description

The SKY65016 is a general-purpose, broadband amplifier fabricated from Skyworks InGaP HBT process and packaged in a miniature SC-88 package. The amplifier's input and output impedances are 50 Ω, which allows these amplifiers to be cascaded without external impedance matching networks. The typical -3 dB bandwidth of the SKY65016 is LF-3 GHz. This amplifier is also available in the plastic micro-X package (SKY65016-214LF) and the SOT-89 package (SKY65016-70LF).

The SKY65016 is lead (Pb)-free and RoHS-compliant.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at [www.skyworksinc.com](http://www.skyworksinc.com).

## General-Purpose Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Gain Typ. (dB)	$P_{1\text{dB}}$ (dBm)	OIP3 (dBm)	Operating Current Typ. (mA)	Noise Figure Typ. (dB)	Package (mm)
SKY65013-92LF	LF-12	2	12.5	12.5	29	40	5.8	SC-88
SKY65014-92LF	LF-9	2	15.0	18.0	36	70	5.4	SC-88
SKY65015-92LF	LF-6	2	18.0	18.0	35	70	4.8	SC-88
SKY65016-92LF	LF-3	2	20.0	14.0	27	40	5.4	SC-88