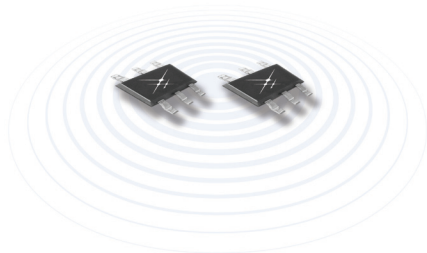


SKY65013-70LF: InGaP Cascadable Amplifier LF-7 GHz

Features

- Broadband: LF-7 GHz
- Small signal gain: 12.5 dB typ. @ 2 GHz
- High output 3rd order intercept: 29 dBm typ.
- $0 P_{1\text{dB}}$: 12.5 dBm typ. @ 2 GHz
- Input and output impedance: 50 Ω nominal
- Single, positive DC supply voltage
- SOT-89 package
- Available lead (Pb)-free, RoHS compliant and Green™
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 SOT-89 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-7 GHz. This amplifier is also available in the plastic micro-X package (SKY65013-214LF) and the SC-88 package (SKY65013-92LF).

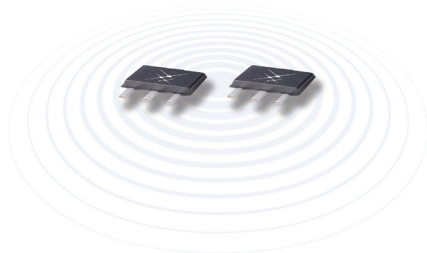
The SKY65013 is lead (Pb)-free and RoHS-compliant. It is also “Green”—environmentally friendly, containing no antimony or halogens, such as bromine.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at www.skyworksinc.com

SKY65014-70LF: InGaP Cascadable Amplifier LF-6 GHz

Features

- Broadband: LF-6 GHz
- Small signal gain: 16 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 Ω nominal
- Single, positive DC supply voltage
- SOT-89 package
- Available lead (Pb)-free, RoHS compliant and Green™
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 SOT-89 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 SKY65014 is LF-6 GHz. This amplifier is also available in the miniature SC-88 package (SKY65014-92LF) and the plastic micro-X package (SKY65014-214LF).

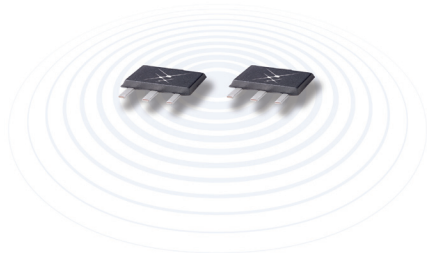
The SKY65014 is lead (Pb)-free and RoHS-compliant. It is also “Green”—environmentally friendly, containing no antimony or halogens, such as bromine.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at www.skyworksinc.com

SKY65015-70LF: 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.
- $0 P_{1\text{dB}}$: 17 dBm typ. @ 2 GHz
- Input and output impedance: 50 Ω nominal
- Single, positive DC supply voltage
- SOT-89 package
- Available lead (Pb)-free, RoHS Compliant and Green™
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 SOT-89 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 SKY65015 is LF-6 GHz. This amplifier is also available in the miniature SC-88 package (SKY65015-92LF) and the plastic micro-X package (SKY65015-214LF).

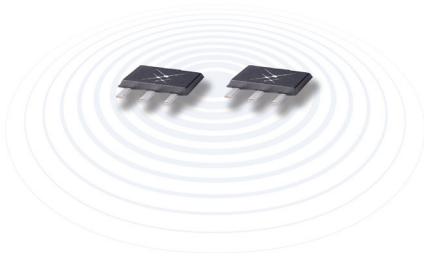
The SKY65015 is lead (Pb)-free and RoHS-compliant. It is also “Green”—environmentally friendly, containing no antimony or halogens such as bromine.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at www.skyworksinc.com

SKY65016-70LF: 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.
- $0 P_{1\text{dB}}$: 14 dBm typ. @ 2 GHz
- Input and output impedance: 50 Ω nominal
- Single, positive DC supply voltage
- SOT-89 package
- Available lead (Pb)-free, RoHS Compliant and Green™
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 SOT-89 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 miniature SC-88 package (SKY65016-92LF) and the plastic micro-X package (SKY65016-214LF).

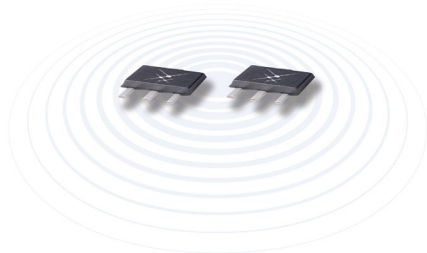
The SKY65016 is lead (Pb)-free and RoHS-compliant. It is also “Green”—environmentally friendly, containing no antimony or halogens such as bromine.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at www.skyworksinc.com

SKY65017-70LF: InGaP Cascadable Amplifier LF-6 GHz

Features

- Broadband: LF-6 GHz
- Small signal gain: 20 dB typ. @ 2 GHz
- High output 3rd order intercept: 35 dBm typ.
- $0 P_{1\text{dB}}$: 20 dBm typ. @ 2 GHz
- Input and output impedance: 50 Ω nominal
- Single, positive DC supply voltage
- SOT-89 package
- Available lead (Pb)-free, RoHS-compliant and Green™
MSL-1 @ 260 °C per JEDEC J-STD-020








Description

The SKY65017 is a general purpose, broadband amplifier fabricated from Skyworks InGaP HBT process and packaged in a SOT-89 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 SKY65017 is LF-6 GHz.

The SKY65017 is lead (Pb)-free and RoHS-compliant. It is also "Green" — environmentally friendly, containing no antimony or halogens such as bromine.

A populated evaluation board is available upon request. Full scattering parameters for this part are available for download at www.skyworksinc.com

General-Purpose Amplifiers

Part Number	Frequency Range (GHz)	Test Frequency (GHz)	Gain Typ. (dB)	P _{1dB} (dBm)	OIP3 (dBm)	Operating Current Typ. (mA)	Noise Figure Typ. (dB)	Package (mm)
 SKY65013-70LF	LF-7	2	12.5	12.5	29	40	5.5	SOT-89
 SKY65014-70LF	LF-6	2	16.0	18.0	36	70	4.8	SOT-89
 SKY65015-70LF	LF-6	2	18.0	17.0	35	70	4.2	SOT-89
 SKY65016-70LF	LF-3	2	20.0	14.0	27	40	4.8	SOT-89
 SKY65017-70LF	LF-6	2	20.0	20.0	35	100	4.5	SOT-89

 Skyworks Green™ products are lead (Pb)-free, Restriction of Hazardous Substances (RoHS)-compliant, conform to the EIA/EICTA/JEITA Joint Industry Guide (JIG) Level A guidelines, and are free from antimony trioxide, and brominated flame retardants.