

# High Performance Amplifiers

## General Purpose Gain Block Amplifiers

- Broadband
- Typical gain up to 20 dB
- Typical bandwidths from 3 GHz up to 12 GHz
- OIP3 up to 36 dBm
- Input and output impedances are 50 Ohms
- Available in SC-88 or SOT-89 packages

Frequency (MHz)	Gain Typ. (dB)	NF (dB)	OIP3 Typ. (dBm)	OP <sub>1dB</sub>	Vdc (V)	Quiescent Current Typ. (mA)	Package (mm)	Part Number
LF-7	12.5	5.5	29	12.5	3.5	40	SOT-89	SKY65013-70LF
LF-12	12.5	5.8	29	12.5	3.5	40	SC-88	SKY65013-92LF
LF-6	16	4.8	36	18	4.7	70	SOT-89	SKY65014-70LF
LF-9	15	5.4	36	18	4.7	70	SC-88	SKY65014-92LF
LF-6	18	4.2	35	17	4.7	70	SOT-89	SKY65015-70LF
LF-6	18	4.8	35	18	4.7	70	SC-88	SKY65015-92LF
LF-3	20	4.8	27	14	3.5	40	SOT-89	SKY65016-70LF
LF-3	20	5.4	27	14	3.5	40	SC-88	SKY65016-92LF
LF-6	20	4.5	35	20	5	100	SOT-89	SKY65017-70LF

## Ultra Linear Power Amplifier Drivers

- OIP3 up to 42 dBm
- Typical gain up to 20 dB
- Noise figure down to 1.8 dB

Frequency (MHz)	Gain Typ. (dB)	NF (dB)	OIP3 Typ. (dBm)	OP <sub>1dB</sub>	Vdc (V)	Quiescent Current Typ. (mA)	Package (mm)	Part Number
0.25-2.7	16	5.5	42	25	3.3 or 5	125	3-pin MCM 4 x 4	SKY65004
0.25-2.7	20	3	33	21	3.3	76	3-pin MCM 4 x 4	SKY65008
0.25-2.5	12	4.3	42	27	3.3 or 5	100	4-pin SOT-89	SKY65009-70LF
0.25-2.7	16	5.5	42	25	3.3 or 5	125	4-pin SOT-89	SKY65028-70LF
0.25-6	15	2	40	21.5	3 to 5	140	4-pin SOT-89	SKY65038-70LF
0.39-1.5	14	1.8	37.5	25	5	46	4-pin SOT-89	SKY65045-70LF
1.5-2.5	14	2.1	38	21	5	47	4-pin SOT-89	SKY65080
0.4-2.3	18		39	27	5	260	SOIC-8 Exposed Paddle	SKY65112-84LF
0.4-2.3	20		40	30	5	450	SOIC-8 Exposed Paddle	SKY65113-84LF

## Application-Specific Amplifiers

- Advanced Metering Infrastructure (AMI)
- IEEE 802.15.4
- ISM
- TETRA
- WLAN

SKY65111, SKY65116, SKY65131,  
SKY65132, SKY65137, SKY65152

- High gain
- Internally matched 50 Ohm input and output ports
- Voltage controlled PA enable pin

