Product catalog

# Low Noise Amplifiers

Low noise amplifiers raise weak RF or microwave signals near the receiver input while adding minimal noise. They are used in satellite receivers, radar channels, communication front ends, spectrum monitoring and measurement receivers.



Products: 25

Revision: 1 · Revision date: 2026-11-08



## LCLNA-100-6000-30

### 100 MHz–6 GHz Broadband Low-Noise Amplifier Module

Broadband RF low-noise amplifier covering 100 MHz–6 GHz, with 30 dB typical gain and 1.2 dB maximum noise figure. A single +5 V supply enters through the shared RF output/DC input connector.

**Operating frequency:** Symbol: BW; Minimum: 100; Maximum: 6000; Unit: MHz; Notes: Min/Max frequency endpoints

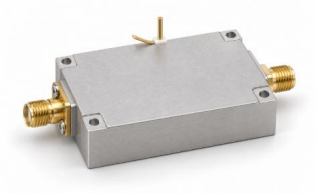
**Gain:** Symbol: G; Typical: 30; Unit: dB; Notes: Typical gain

**Noise figure:** Symbol: NF; Maximum: 1.2; Unit: dB; Notes: Maximum noise figure

**Saturated output power:** Symbol: Psat; Typical: 10; Unit: dBm; Notes: Typical PSAT; not P1dB

Measurement temperature, test frequency, RF drive and reference impedance are not specified.

Product details Product datasheet



## LCLAN-70-6000-30

### 70–6000 MHz Low-Noise Amplifier with Input Limiter

30–33 dB gain range, 3 dB maximum noise figure and 10–36 V operating supply range.

**Operating frequency:** Value: 70–6000; Unit: MHz

**Gain:** Value: 30–33; Unit: dB

**Saturated output power (Psat):** Value: ≤8; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 8 dBm.

**Input S11 (signed source value):** Value: ≤−10; Unit: dB; Notes: Negative S11 convention retained from source; not recast as positive return loss. Maximum: -10 dB.

Product details Product datasheet



## LCLNA-10-6000-20

### 10–6000 MHz 20 dB Low-Noise Amplifier

Broadband LNA with 1.8 dB typical noise figure and 20 dBm typical saturated output.

**Operating frequency:** Value: 10–6000; Unit: MHz

**Gain:** Value: 20; Unit: dB; Notes: Typical: 20 dB.

**Noise figure:** Value: 1.8; Unit: dB; Notes: Typical: 1.8 dB.

**Saturated output power (Psat):** Value: 20; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 20 dBm.

Product details Product datasheet



## LCLNA-10-6000-30

### 10–6000 MHz 30 dB Low-Noise Amplifier

30 dB typical gain with 1.8 dB typical noise figure and 13 dBm typical saturated output.

**Operating frequency:** Value: 10–6000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 1.8; Unit: dB; Notes: Typical: 1.8 dB.

**Saturated output power (Psat):** Value: 13; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 13 dBm.

Product details Product datasheet



## LCLNA-100-500-30

### 100–500 MHz 30 dB Low-Noise Amplifier

Receive amplifier with 30 dB typical gain, 2 dB typical noise figure and a 5 V typical supply.

**Operating frequency:** Value: 100–500; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: ≤5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 5 dBm.

Product details Product datasheet



## LCLNA-100-500-30D

### 100–500 MHz Two-Input Combining LNA

Two amplified RF inputs feed one combined output; 30 dB typical gain and 2 dB typical noise figure.

**Operating frequency:** Value: 100–500; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: ≤5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 5 dBm.

Product details Product datasheet



## LCLNA-20-18000-35

### 20–18000 MHz Broadband Low-Noise Amplifier

Broadband amplification from 20 to 18000 MHz, with 35 dB minimum gain, +10 dBm minimum output P1dB and 170 mA typical current.

**Operating frequency:** Symbol: BW; Minimum: 20; Maximum: 18000; Unit: MHz

**Gain:** Symbol: G; Minimum: 35; Unit: dB

**Output 1 dB compression point:** Symbol: OP1dB; Minimum: +10; Unit: dBm

**Spurious suppression:** Symbol: Spur; Typical: 60; Unit: dBc

Product details Product datasheet



## LCLNA-2000-6000-30

### 2–6 GHz 30 dB Low-Noise Amplifier

Microwave LNA with 2 dB typical noise figure, 85 mA typical current and SMA-K female ports.

**Operating frequency:** Value: 2000–6000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: ≤5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 5 dBm.

Product details Product datasheet



## LCLNA-2000-6000-30D

### 2–6 GHz Two-Input Combining LNA

Microwave amplifier with two inputs, one combined output and 170 mA typical module current.

**Operating frequency:** Value: 2000–6000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: ≤5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 5 dBm.

Product details Product datasheet



## LCLNA-30-6000-30

### 30–6000 MHz 30 dB Low-Noise Amplifier

Wideband receive LNA with 1.2 dB typical noise figure and 85 mA typical current.

**Operating frequency:** Value: 30–6000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 1.2; Unit: dB; Notes: Typical: 1.2 dB.

**Saturated output power (Psat):** Value: ≤10; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 10 dBm.

Product details Product datasheet



## LCLNA-30-6000-30D

### 30–6000 MHz Two-Input Combining LNA

Wideband combined-input receive amplifier with 1.2 dB typical noise figure.

**Operating frequency:** Value: 30–6000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 1.2; Unit: dB; Notes: Typical: 1.2 dB.

**Saturated output power (Psat):** Value: ≤10; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 10 dBm.

Product details Product datasheet



## LCLNA-300-1100-30D

### 300–1100 MHz Four-Input Two-Output Amplifier

Four RF inputs combined and distributed to two outputs; 30 dB typical gain.

**Operating frequency:** Value: 300–1100; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Saturated output power (Psat):** Value: ≤10; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 10 dBm.

**Input S11 (signed source value):** Value: −10; Unit: dB; Notes: Negative S11 convention retained from source; not recast as positive return loss. Typical: -10 dB.

Product details Product datasheet



## LCLNA-300-3000-30

### 300–3000 MHz 30 dB Low-Noise Amplifier

Compact receive module with 30 dB typical gain, 2 dB typical noise figure and SMA-K interfaces.

**Operating frequency:** Value: 300–3000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: ≤5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 5 dBm.

Product details Product datasheet



## LCLNA-300-3000-30D

### 300–3000 MHz Two-Input Combining LNA

Two amplified inputs and one output in a 50 × 40 × 13 mm module.

**Operating frequency:** Value: 300–3000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: ≤5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 5 dBm.

Product details Product datasheet



## LCLNA-400-6000-30

### 400–6000 MHz LNA with RF-Output DC Feed

30 dB typical gain, 1.2 dB maximum noise figure and 10 dBm typical saturated output.

**Operating frequency:** Value: 400–6000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: ≤1.2; Unit: dB; Notes: Maximum: 1.2 dB.

**Saturated output power (Psat):** Value: 10; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 10 dBm.

Product details Product datasheet



## LCLNA-6000-9000-30

### 6–9 GHz LNA with RF-Input DC Feed

30 dB typical gain, 2 dB typical noise figure and 15 dBm typical saturated output.

**Operating frequency:** Value: 6000–9000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: 15; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 15 dBm.

Product details Product datasheet



## LCLNAPC-100-500-2-1

### 100–500 MHz Two-Input LNA and Combiner

Two amplified RF inputs share one combined output; typical gain 30 dB, noise figure 2 dB and Psat 7 dBm.

**Operating frequency:** Value: 100–500; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: 7; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 7 dBm.

Product details Product datasheet



## LCLNAPC-2000-6000-2-1

### 2–6 GHz Two-Input LNA and Combiner

Two amplified microwave inputs join one output; typical gain 30 dB, noise figure 2 dB and saturated output 7 dBm.

**Operating frequency:** Value: 2000–6000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: 7; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 7 dBm.

Product details Product datasheet



## LCLNAPC-300-3000-2-1

### 300 MHz–3 GHz Two-Input LNA and Combiner

Two-input receive amplifier and combiner with 30 dB typical gain, 2 dB typical noise figure and 170 mA typical current.

**Operating frequency:** Value: 300–3000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Noise figure:** Value: 2; Unit: dB; Notes: Typical: 2 dB.

**Saturated output power (Psat):** Value: 7; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 7 dBm.

Product details Product datasheet



## LCLNAPD-1800-3000-2-1

### 1.8–3 GHz RF Amplifier and Two-Output Distribution Module

One RF input is amplified and distributed to two outputs; typical gain 30 dB, Psat 8 dBm and module current 100 mA.

**Operating frequency:** Value: 1800–3000; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Saturated output power (Psat):** Value: 8; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 8 dBm.

**Input S11 (signed source value):** Value: −10; Unit: dB; Notes: Negative S11 convention retained from source; not recast as positive return loss. Typical: -10 dB.

Product details Product datasheet



## LCLNAPD-2400-2485-2-4

### 2400–2485 MHz Two-Input Four-Output LNA

Two amplified inputs are combined before four-way distribution, with 25 dB typical gain.

**Operating frequency:** Value: 2400–2485; Unit: MHz

**Gain:** Value: 25; Unit: dB; Notes: Typical: 25 dB.

**Noise figure:** Value: 1 / 1.2; Unit: dB; Notes: Typical: 1 dB. Maximum: 1.2 dB.

**Saturated output power (Psat):** Value: 5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 5 dBm.

Product details Product datasheet



## LCLNAPD-300-1100-1-2

### 300–1100 MHz One-Input Two-Output Amplifier

An amplified input is distributed to two outputs, with 30 dB typical gain.

**Operating frequency:** Value: 300–1100; Unit: MHz

**Gain:** Value: 30; Unit: dB; Notes: Typical: 30 dB.

**Saturated output power (Psat):** Value: 8; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 8 dBm.

**Input S11 (signed source value):** Value: −10; Unit: dB; Notes: Negative S11 convention retained from source; not recast as positive return loss. Typical: -10 dB.

Product details Product datasheet



## LCLNAPD-5150-5250-2-4

### 5150–5250 MHz Two-Input Four-Output LNA

Amplified input combining with four output branches in a 75 × 60 × 14 mm module.

**Operating frequency:** Value: 5150–5250; Unit: MHz

**Gain:** Value: 25; Unit: dB; Notes: Typical: 25 dB.

**Noise figure:** Value: 1 / 1.2; Unit: dB; Notes: Typical: 1 dB. Maximum: 1.2 dB.

**Saturated output power (Psat):** Value: 5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 5 dBm.

Product details Product datasheet



## LCLNAPD-5725-5885-2-4

### 5725–5885 MHz Two-Input Four-Output LNA

Two amplified RF inputs converge before distribution to four outputs, with 25 dB typical gain.

**Operating frequency:** Value: 5725–5885; Unit: MHz

**Gain:** Value: 25; Unit: dB; Notes: Typical: 25 dB.

**Noise figure:** Value: 1 / 1.2; Unit: dB; Notes: Typical: 1 dB. Maximum: 1.2 dB.

**Saturated output power (Psat):** Value: 5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 5 dBm.

Product details Product datasheet



## LCLNAPD-900-928-2-4

### 900–928 MHz Two-Input Four-Output LNA

Combined-input distribution amplifier with 0.8 dB typical and 1 dB maximum noise figure.

**Operating frequency:** Value: 900–928; Unit: MHz

**Gain:** Value: 25; Unit: dB; Notes: Typical: 25 dB.

**Noise figure:** Value: 0.8 / 1; Unit: dB; Notes: Typical: 0.8 dB. Maximum: 1 dB.

**Saturated output power (Psat):** Value: 5; Unit: dBm; Notes: Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 5 dBm.

Product details Product datasheet

**Document notice**

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.