Product catalog

RF Gain Blocks and Broadband Amplifiers

RF gain blocks and broadband amplifiers provide fixed, often internally matched gain for receiver, IF, distribution and driver signal chains.



Products: 3

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



LCLNAPC-1800-3000-4-1

1.8–3 GHz Four-Input Amplifier and Combiner

Four amplified RF inputs feed one output, with 30 dB typical gain and 5 dBm typical Psat; noise figure is unspecified.

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

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

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



LCLNAPC-300-1100-4-1

300–1100 MHz Four-Input Amplifier and Combiner

Four active input paths share one RF output; 30 dB typical gain, 5 dBm typical Psat and 350 mA typical current.

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

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

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

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.