Product catalog

High-Power RF Amplifiers

Compare RF amplifier power ratings, operating conditions and integration requirements. Prepare a clear specification for a module or complete amplifier assembly before requesting a quotation.

Products: 46

Revision: 23 · Revision date: 2026-11-12





LCPAM-2000-6000-100-485

2–6 GHz 100 W GaN Broadband RF Power Amplifier Module

The LCPAM-2000-6000-100-485 is a 2–6 GHz broadband high-power RF amplifier module using GaN technology, with 100 W typical saturated output and 50 dB typical gain. It operates from 24–32 VDC and includes an RS-485 interface, status monitoring and protective shutdown. The module can be evaluated as a power stage in 50 Ω RF systems.

Operating frequency: Symbol: BW; Minimum: 2000; Maximum: 6000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Operating voltage: Symbol: VDC; Minimum: 24; Typical: 28; Maximum: 32; Unit: VDC

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1000-2000-100-485

1–2 GHz 100 W Broadband RF Power Amplifier Module

Covers 1–2 GHz with 100 W typical saturated output, 50 dB typical gain and ±2 dB typical gain flatness. Monitoring and control use RS-485 and TTL enable.

Operating frequency: Symbol: BW; Minimum: 1000; Maximum: 2000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Operating voltage: Symbol: VDC; Minimum: 24; Typical: 28; Maximum: 32; Unit: VDC

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-100-500-100-485

100–500 MHz 100 W Broadband RF Power Amplifier Module

Amplifies 100–500 MHz RF signals with 100 W typical saturated output and 50 dB typical gain. RS-485 and a TTL enable input support module control.

Operating frequency: Symbol: BW; Minimum: 100; Maximum: 500; Unit: MHz

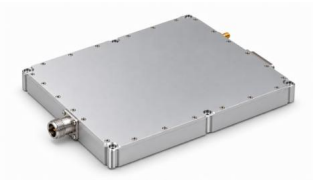
Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Operating voltage: Symbol: VDC; Minimum: 24; Typical: 28; Maximum: 32; Unit: VDC

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-100-500-200-485

100–500 MHz 200 W Broadband RF Power Amplifier Module

Provides 200 W typical saturated output and 53 dB typical gain over 100–500 MHz. The 200 × 180 × 25 mm module includes RS-485 monitoring and control.

Operating frequency: Symbol: BW; Minimum: 100; Maximum: 500; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 200; Unit: W

Power gain: Symbol: Gp; Typical: 53; Unit: dB

Operating voltage: Symbol: VDC; Minimum: 24; Typical: 28; Maximum: 32; Unit: VDC

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1100-1300-50-485

1.1–1.3 GHz 50 W Minimum RF Power Amplifier Module

The selected latest source specifies 1.1–1.3 GHz operation with 50 W minimum saturated output and 47 dB minimum gain. Typical current at 50 W is 3.5 A; operating temperature is −40 to +65 °C.

Operating frequency: Symbol: BW; Minimum: 1100; Maximum: 1300; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 50; Unit: W

Power gain: Symbol: Gp; Minimum: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated; Input power 0 dBm

Product details Product datasheet



LCPAM-1150-1250-100-485

1.15–1.25 GHz 100 W RF Power Amplifier Module

Provides 100 W typical saturated output and 50 dB typical gain over 1.15–1.25 GHz. Typical gain flatness is ±0.5 dB, with RS-485 monitoring and control.

Operating frequency: Symbol: BW; Minimum: 1150; Maximum: 1250; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Operating voltage: Symbol: VDC; Minimum: 24; Typical: 28; Maximum: 32; Unit: VDC

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1200-1350-100-485

1.2–1.35 GHz 100 W RF Power Amplifier Module

A 1.2–1.35 GHz RF power stage with 100 W typical saturated output and 50 dB typical gain. RS-485 reports module monitoring data; TTL controls enable.

Operating frequency: Symbol: BW; Minimum: 1200; Maximum: 1350; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Operating voltage: Symbol: VDC; Minimum: 24; Typical: 28; Maximum: 32; Unit: VDC

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1200-1500-100-485

1.2–1.5 GHz 100 W RF Power Amplifier Module

This 1.2–1.5 GHz module provides 100 W typical saturated output and 50 dB typical gain. At 100 W, typical current is 9 A and power-added efficiency is 35%.

Operating frequency: Symbol: BW; Minimum: 1200; Maximum: 1500; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1200-1600-100-485

1.2–1.6 GHz 100 W RF Power Amplifier Module

The 1.2–1.6 GHz RF stage has 100 W typical saturated output, 50 dB typical gain and ±1.5 dB typical gain flatness. Its supply range is 24–32 VDC, with 28 VDC typical.

Operating frequency: Symbol: BW; Minimum: 1200; Maximum: 1600; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1500-1650-100-485

1.5–1.65 GHz 100 W RF Power Amplifier Module

Across 1.5–1.65 GHz, this module specifies 100 W typical saturated output, 50 dB typical gain and ±0.5 dB typical gain flatness. Harmonics at 100 W are −25 dBc typical.

Operating frequency: Symbol: BW; Minimum: 1500; Maximum: 1650; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±0.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1500-1700-50-485

1.5–1.7 GHz 50 W RF Power Amplifier Module

The 1.5–1.7 GHz module has 50 W typical saturated output and 47 dB typical gain. At 50 W, current is 4 A typical and harmonics are −15 dBc typical.

Operating frequency: Symbol: BW; Minimum: 1500; Maximum: 1700; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-1550-1620-50-485

1.55–1.62 GHz 50 W Minimum RF Power Amplifier Module

For 1.55–1.62 GHz, the latest source specifies 50 W minimum saturated output and 47 dB minimum gain. Current at 50 W is 3.5 A typical; the stated operating temperature is −20 to +60 °C.

Operating frequency: Symbol: BW; Minimum: 1550; Maximum: 1620; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 50; Unit: W

Power gain: Symbol: Gp; Minimum: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated; Input power 0 dBm

Product details Product datasheet



LCPAM-2000-4000-100-485

2–4 GHz 100 W Broadband RF Power Amplifier Module

This 2–4 GHz module specifies 100 W typical saturated output, 50 dB typical gain and ±2 dB typical gain flatness. At 100 W, current is 15 A typical and power-added efficiency is 30% typical.

Operating frequency: Symbol: BW; Minimum: 2000; Maximum: 4000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-2000-6000-50-485

2–6 GHz 50 W Broadband RF Power Amplifier Module

The 2–6 GHz module specifies 50 W typical saturated output, 47 dB typical gain and ±2 dB typical gain flatness. Current at 50 W is 7 A typical; harmonics are −12 dBc typical.

Operating frequency: Symbol: BW; Minimum: 2000; Maximum: 6000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-200-1800-100-485

200 MHz–1.8 GHz 100 W Broadband RF Power Amplifier Module

The 200–1800 MHz band is supported with 100 W typical saturated output and 50 dB typical gain. At 100 W, typical current is 15 A and power-added efficiency is 35%.

Operating frequency: Symbol: BW; Minimum: 200; Maximum: 1800; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-20-520-200A

20–520 MHz 200 W Saturated LDMOS RF Power Amplifier Module

This LDMOS final-stage module covers 20–520 MHz with 200 W typical saturated output. Its 1 dB compression output is separately specified at 50 W typical, with 53 dB typical small-signal gain.

Operating frequency: Symbol: BW; Minimum: 20; Maximum: 520; Unit: MHz

Saturated RF output power: Symbol: Psat; Typical: 200; Unit: W

Output power at 1 dB compression: Symbol: P1dB; Typical: 50; Unit: W

Small-signal gain: Symbol: G; Typical: 53; Unit: dB

25 °C; 50 Ω

Product details Product datasheet



LCPAM-2300-2500-50-485

2.3–2.5 GHz 50 W RF Power Amplifier Module

For 2.3–2.5 GHz, the specified saturated output is 50 W typical with 47 dB typical gain and ±1 dB typical gain flatness. At 50 W, typical current is 4 A.

Operating frequency: Symbol: BW; Minimum: 2300; Maximum: 2500; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-2400-2485-150-485

2.4–2.485 GHz 150 W Minimum RF Power Amplifier Module

The output table specifies 150 W minimum and 200 W typical saturated power over 2.4–2.485 GHz. Gain is 52 dB minimum and 53 dB typical; the source's current and harmonic figures remain conditioned at 100 W.

Operating frequency: Symbol: BW; Minimum: 2400; Maximum: 2485; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 150; Typical: 200; Unit: W

Power gain: Symbol: Gp; Minimum: 52; Typical: 53; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-2500-6000-50-485

2.5–6 GHz 50 W Minimum Broadband RF Power Amplifier Module

The latest source specifies 2.5–6 GHz and 50 W minimum saturated output, with 47 dB typical gain. Current of 8 A typical and harmonics of −12 dBc typical are expressly conditioned at 30 W.

Operating frequency: Symbol: BW; Minimum: 2500; Maximum: 6000; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated; Input power 0 dBm

Product details Product datasheet



LCPAM-2500-6500-30-485

2.5–6.5 GHz 30 W Minimum Broadband RF Power Amplifier Module

The 2.5–6.5 GHz module specifies 30 W minimum saturated output and 45 dB minimum gain. At 30 W, typical current is 5.5 A and harmonics are −12 dBc typical; maximum VSWR is 2:1.

Operating frequency: Symbol: BW; Minimum: 2500; Maximum: 6500; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 30; Unit: W

Power gain: Symbol: Gp; Minimum: 45; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated; Input power 0 dBm

Product details Product datasheet



LCPAM-250-1800-100-485

250 MHz–1.8 GHz 100 W Broadband RF Power Amplifier Module

A 250–1800 MHz operating band and 100 W typical saturated output define this broadband RF stage. Typical gain is 50 dB, gain flatness is ±2 dB and current at 100 W is 15 A.

Operating frequency: Symbol: BW; Minimum: 250; Maximum: 1800; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-300-1050-100-485

300 MHz–1.05 GHz 100 W Broadband RF Power Amplifier Module

This 300–1050 MHz stage specifies 100 W typical saturated output and 50 dB typical gain. Typical gain flatness is ±1 dB; at 100 W, typical current is 6 A and power-added efficiency is 45%.

Operating frequency: Symbol: BW; Minimum: 300; Maximum: 1050; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-300-3000-100-485

300 MHz–3 GHz 100 W Broadband RF Power Amplifier Module

The 300–3000 MHz operating span is paired with 100 W typical saturated output and 50 dB typical gain. Typical gain flatness is ±2 dB, and harmonics at 100 W are −10 dBc typical.

Operating frequency: Symbol: BW; Minimum: 300; Maximum: 3000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-300-3000-150-485

300 MHz–3 GHz 150 W Minimum Broadband RF Power Amplifier Module

Across 300–3000 MHz, saturated output is 150 W minimum and 200 W typical. Gain is 52 dB minimum and 53 dB typical; harmonics and current are specified at 100 W, not the typical saturated output.

Operating frequency: Symbol: BW; Minimum: 300; Maximum: 3000; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 150; Typical: 200; Unit: W

Power gain: Symbol: Gp; Minimum: 52; Typical: 53; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-30-500-100-485

30–500 MHz 100 W Broadband RF Power Amplifier Module

This 30–500 MHz RF stage provides 100 W typical saturated output and 50 dB typical gain. At 100 W, typical current is 10 A and power-added efficiency is 50%.

Operating frequency: Symbol: BW; Minimum: 30; Maximum: 500; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-3200-3400-100-485

3.2–3.4 GHz 100 W RF Power Amplifier Module

For 3.2–3.4 GHz operation, saturated output is 100 W typical and gain is 50 dB typical. At 100 W, current is 9 A typical with 35% typical power-added efficiency.

Operating frequency: Symbol: BW; Minimum: 3200; Maximum: 3400; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-4000-6000-100-485

4–6 GHz 100 W Broadband RF Power Amplifier Module

The 4–6 GHz module delivers 100 W typical saturated power with 50 dB typical gain and ±2 dB typical gain flatness. At 100 W, current is 15 A typical and harmonics are −10 dBc typical.

Operating frequency: Symbol: BW; Minimum: 4000; Maximum: 6000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-5000-6000-150-485

5–6 GHz 150 W Minimum RF Power Amplifier Module

Over 5–6 GHz, saturated output is specified at 150 W minimum and 200 W typical. Gain is 52 dB minimum and 53 dB typical; the 18 A typical current figure is expressly measured at 100 W.

Operating frequency: Symbol: BW; Minimum: 5000; Maximum: 6000; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 150; Typical: 200; Unit: W

Power gain: Symbol: Gp; Minimum: 52; Typical: 53; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-5000-6000-50-485

5–6 GHz 50 W RF Power Amplifier Module

This 5–6 GHz module specifies 50 W typical saturated output and 47 dB typical gain. At 50 W, current is 7 A typical and harmonics are −15 dBc typical.

Operating frequency: Symbol: BW; Minimum: 5000; Maximum: 6000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-500-2500-100-485

500 MHz–2.5 GHz 100 W Broadband RF Power Amplifier Module

This 500–2500 MHz module specifies 100 W typical saturated output with 50 dB typical gain. Gain flatness is ±1.5 dB typical; typical current at 100 W is 9 A.

Operating frequency: Symbol: BW; Minimum: 500; Maximum: 2500; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-500-2500-30

500 MHz–2.5 GHz 30 W Minimum Broadband RF Power Amplifier Module

This 500–2500 MHz module specifies 30 W minimum saturated output and 45 dB minimum gain. Current at 30 W is 3.8 A typical; gain flatness is ±1.5 dB typical.

Operating frequency: Symbol: BW; Minimum: 500; Maximum: 2500; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 30; Unit: W

Power gain: Symbol: Gp; Minimum: 45; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated; Input power 0 dBm

Product details Product datasheet



LCPAM-500-2500-50-485

500 MHz–2.5 GHz 50 W Minimum Broadband RF Power Amplifier Module

The latest selected source specifies 500–2500 MHz, 50 W minimum saturated output and 47 dB minimum gain. At 50 W, current is 4.5 A typical and harmonics are −12 dBc typical.

Operating frequency: Symbol: BW; Minimum: 500; Maximum: 2500; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 50; Unit: W

Power gain: Symbol: Gp; Minimum: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated; Input power 0 dBm

Product details Product datasheet



LCPAM-500-2700-100-485

500 MHz–2.7 GHz 100 W Broadband RF Power Amplifier Module

The 500–2700 MHz band is specified with 100 W typical saturated output and 50 dB typical gain. At 100 W, power-added efficiency is 35% typical, current is 9 A typical and harmonics are −10 dBc typical.

Operating frequency: Symbol: BW; Minimum: 500; Maximum: 2700; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-500-2700-50-485

500 MHz–2.7 GHz 50 W Broadband RF Power Amplifier Module

The 500–2700 MHz amplifier has 50 W typical saturated output and 47 dB typical gain. At 50 W, typical current is 6 A and power-added efficiency is 45%.

Operating frequency: Symbol: BW; Minimum: 500; Maximum: 2700; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-5150-5250-150-485

5.15–5.25 GHz 150 W Minimum RF Power Amplifier Module

Within 5.15–5.25 GHz, the source lists 150 W minimum and 200 W typical saturated output. Gain is 52 dB minimum and 53 dB typical; harmonics of −12 dBc typical are specified at 100 W.

Operating frequency: Symbol: BW; Minimum: 5150; Maximum: 5250; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 150; Typical: 200; Unit: W

Power gain: Symbol: Gp; Minimum: 52; Typical: 53; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-5600-5900-50-485

5.6–5.9 GHz 50 W RF Power Amplifier Module

The 5.6–5.9 GHz module specifies 50 W typical saturated output, 47 dB typical gain and ±1 dB typical gain flatness. At 50 W, current is 7 A typical with 50% typical power-added efficiency.

Operating frequency: Symbol: BW; Minimum: 5600; Maximum: 5900; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-5700-5900-50-485

5.7–5.9 GHz 50 W RF Power Amplifier Module

Across 5.7–5.9 GHz, the module specifies 50 W typical saturated output and 47 dB typical gain. Typical gain flatness is ±1 dB and harmonics at 50 W are −15 dBc typical.

Operating frequency: Symbol: BW; Minimum: 5700; Maximum: 5900; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-6000-8300-100-485

6–8.3 GHz 100 W Broadband RF Power Amplifier Module

This 6–8.3 GHz stage specifies 100 W typical saturated output and 50 dB typical gain. At 100 W, typical current is 22 A and power-added efficiency is 18%.

Operating frequency: Symbol: BW; Minimum: 6000; Maximum: 8300; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-6000-8500-100-485

6–8.5 GHz 100 W Broadband RF Power Amplifier Module

The 6–8.5 GHz module specifies 100 W typical saturated output, 50 dB typical gain and ±0.75 dB typical gain flatness. The source lists −50 dBc typical harmonics at 100 W.

Operating frequency: Symbol: BW; Minimum: 6000; Maximum: 8500; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±0.75; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-700-2500-30-485

700 MHz–2.5 GHz 30 W Minimum Broadband RF Power Amplifier Module

The 700–2500 MHz stage specifies 30 W minimum saturated output and 45 dB minimum gain. Current at 30 W is 3.8 A typical, and the source specifies a 10:1 continuous load VSWR rating at 30 W.

Operating frequency: Symbol: BW; Minimum: 700; Maximum: 2500; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 30; Unit: W

Power gain: Symbol: Gp; Minimum: 45; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated; Input power 0 dBm

Product details Product datasheet



LCPAM-700-2700-100-485

700 MHz–2.7 GHz 100 W Broadband RF Power Amplifier Module

The selected dated source specifies 700–2700 MHz operation, 100 W typical saturated output and 50 dB typical gain. At 100 W, current is 9 A typical and power-added efficiency is 35% typical.

Operating frequency: Symbol: BW; Minimum: 700; Maximum: 2700; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-700-2700-50-485

700 MHz–2.7 GHz 50 W Broadband RF Power Amplifier Module

The 700–2700 MHz stage specifies 50 W typical saturated output and 47 dB typical gain. At 50 W, current is 6 A typical, power-added efficiency is 45% typical and harmonics are −10 dBc typical.

Operating frequency: Symbol: BW; Minimum: 700; Maximum: 2700; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-8000-12000-50-485

8–12 GHz 50 W Broadband RF Power Amplifier Module

Over 8–12 GHz, this module specifies 50 W typical saturated output and 47 dB typical gain. At 50 W, harmonics are −20 dBc typical, current is 15 A typical and power-added efficiency is 35% typical.

Operating frequency: Symbol: BW; Minimum: 8000; Maximum: 12000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±1.5; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-800-3000-100-485

800 MHz–3 GHz 100 W Broadband RF Power Amplifier Module

The 800–3000 MHz operating range is specified with 100 W typical saturated output and 50 dB typical gain. Gain flatness is ±2 dB typical and current at 100 W is 15 A typical.

Operating frequency: Symbol: BW; Minimum: 800; Maximum: 3000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

Power gain: Symbol: Gp; Typical: 50; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-800-4000-50-485

800 MHz–4 GHz 50 W Broadband RF Power Amplifier Module

This 800–4000 MHz stage specifies 50 W typical saturated output, 47 dB typical gain and ±2 dB typical gain flatness. At 50 W, current is 7 A typical and power-added efficiency is 20% typical.

Operating frequency: Symbol: BW; Minimum: 800; Maximum: 4000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

Power gain: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

Product details Product datasheet



LCPAM-900-928-150-485

900–928 MHz 150 W Minimum RF Power Amplifier Module

For 900–928 MHz, the table specifies 150 W minimum and 200 W typical saturated output. Gain is 52 dB minimum and 53 dB typical; current and harmonics remain measured at 100 W.

Operating frequency: Symbol: BW; Minimum: 900; Maximum: 928; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 150; Typical: 200; Unit: W

Power gain: Symbol: Gp; Minimum: 52; Typical: 53; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2; Unit: dB

+28.0 VDC, 25 °C, 50 Ω system unless otherwise stated

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.