Product catalog

Broadband Power Amplifiers

Broadband RF power amplifiers deliver useful output power across a wide operating range instead of a single narrow channel. They are used in wideband transmit paths, RF stimulus systems, electronic-warfare chains and multi-band test environments.



Products: 62

Revision: 41 · 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-1000-3000-100-485

1000–3000 MHz RF Power Amplifier, 100 W Typical, RS-485

The conservatively presented band is 1000–3000 MHz, established by this model's repeated headers and description. The table records 300–3000 with no unit in that cell; the 300–1000 MHz extension remains unconfirmed, and this model is kept separate from the other 300–3000 MHz product. Typical output is 100 W with 50 dB typical gain at 28 VDC, 25 °C and 50 Ω.

Operating frequency: Symbol: BW; Minimum: 1000; Maximum: 3000; Unit: MHz; Notes: Conservatively presented range; the source table's frequency extension remains unconfirmed.

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

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-1000-6000-50

1000–6000 MHz RF Power Amplifier, 50 W Typical

The amplifier provides 50 W typical saturated output across 1000–6000 MHz and 49 dB typical small-signal gain. Typical harmonic suppression is 10 dBc; spurious suppression is 65 dBc minimum and 70 dBc typical.

Operating frequency: Symbol: BW; Minimum: 1000; Maximum: 6000; Unit: MHz

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

Small-signal gain: Symbol: G; Typical: 49; Unit: dB

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

Product details Product datasheet



LCPAM-100-18000-5

100–18000 MHz GaN RF Power Amplifier, 5 W Minimum

The GaN amplifier covers 100–18000 MHz with 5 W minimum and 7 W typical saturated output. Gain is 37 dB minimum and 38 dB typical, with ±0.5 dB typical flatness.

Operating frequency: Symbol: BW; Minimum: 100; Maximum: 18000; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Minimum: 5; Typical: 7; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 37; Typical: 38; Unit: dB

Power gain flatness @ PSAT: Symbol: ΔGp; Typical: ±0.5; Unit: dB

+28.0VDC; 25°C; 50Ω

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

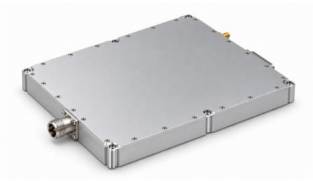
Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

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-1100-1700-300-485

1100–1700 MHz RF Power Amplifier, 300 W Minimum, RS-485

This amplifier covers 1100–1700 MHz with 300 W minimum output power and 55 dB typical gain. Typical gain flatness is ±2.5 dB, with 45 A typical current specified at 300 W output.

Operating frequency: Symbol: BW; Minimum: 1100; Maximum: 1700; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 300; Unit: W

Power gain: Symbol: Gp; Typical: 55; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2.5; Unit: dB

+28.0VDC; 25°C; 50Ω; 0dBm

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-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-2000-6000-300-485

2000–6000 MHz RF Power Amplifier, 300 W Typical, RS-485

This amplifier delivers 300 W typical output across 2000–6000 MHz, with 55 dB typical gain and ±2 dB typical flatness. Its typical supply is 28 VDC within the specified 24–32 VDC limits.

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

Saturated RF output power: Symbol: Pout; Typical: 300; Unit: W

Power gain: Symbol: Gp; Typical: 55; Unit: dB

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

+28.0VDC; 25°C; 50Ω; 0dBm The pin 2 positive-supply assignment remains unpublished; confirm the power wiring before integration.

Product details Product datasheet



LCPAM-2000-6000-320-485

2000–6000 MHz RF Power Amplifier, 320 W Minimum, RS-485

The electrical table specifies 320 W minimum output across 2000–6000 MHz, with 55 dB typical gain and ±2 dB typical flatness. The 55 A typical current rating remains tied to its 300 W output test condition.

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

Saturated RF output power: Symbol: Pout; Minimum: 320; Unit: W

Power gain: Symbol: Gp; Typical: 55; Unit: dB

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

+28.0VDC; 25°C; 50Ω; 0dBm

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-20-1000-50

20–1000 MHz RF Power Amplifier, 50 W Typical

The amplifier starts at 20 MHz and extends to 1000 MHz, with 50 W typical saturated output and 47 dB typical gain. Typical flatness is ±2 dB and maximum input VSWR is 2.0:1.

Operating frequency: Symbol: BW; Minimum: 20; Maximum: 1000; Unit: MHz

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

Small-signal gain: Symbol: G; Typical: 47; Unit: dB

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

Product details Product datasheet



LCPAM-20-500-100

20–500 MHz RF Power Amplifier, 100 W Typical

The amplifier covers 20–500 MHz with 100 W typical output and gain from 40 dB minimum to 45 dB maximum. Current at 100 W is 6 A minimum, 8 A typical and 10 A maximum; operating voltage is 28–32 VDC.

Operating frequency: Symbol: BW; Minimum: 20; Maximum: 500; Unit: MHz

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

Power gain: Symbol: Gp; Minimum: 40; Maximum: 45; Unit: dB

P-1: Minimum: 40; Unit: dBm

+28.0VDC; 25°C; 50Ω; 0dBm

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-20-520-350

20–520 MHz LDMOS RF Power Amplifier, 350 W Typical Saturated Output

The LDMOS amplifier covers 20–520 MHz with 350 W typical saturated output and 150 W typical output at 1 dB compression. Typical gain is 56 dB, with 29 A typical current at 350 W and 48 VDC typical supply.

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

Output power at 1 dB compression: Symbol: P-1dB; Typical: 150; Unit: W

RF output power @ PSAT: Symbol: PSAT; Typical: 350; Unit: W

Power gain @ PSAT: Symbol: Gp; Typical: 56; Unit: dB

+48.0VDC; 25°C; 50Ω

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-300-6000-50-485

BW1/BW2 300–6000 MHz RF Power Amplifier, 47 dBm Typical, RS-485

The module defines BW1 at 300–2000 MHz and BW2 at 2000–6000 MHz. Output power is 46 dBm minimum and 47 dBm typical, with gain of 46 dB minimum and 47 dB typical.

Operating frequency — BW1: Symbol: BW1; Minimum: 300; Maximum: 2000; Unit: MHz

Operating frequency — BW2: Symbol: BW2; Minimum: 2000; Maximum: 6000; Unit: MHz

Saturated RF output power: Symbol: Pout; Minimum: 46; Typical: 47; Unit: dBm

Power gain: Symbol: Gp; Minimum: 46; Typical: 47; Unit: dB

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-30-1000-10

30–1000 MHz GaN RF Power Amplifier, 10 W Typical

The GaN amplifier covers 30–1000 MHz with 9 W minimum and 10 W typical saturated output. Typical gain is 40 dB with ±1 dB flatness; typical current is 0.6 A at 10 W output.

Operating frequency: Symbol: BW; Minimum: 30; Maximum: 1000; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Minimum: 9; Typical: 10; Unit: W

Power gain @ PSAT: Symbol: Gp; Typical: 40; Unit: dB

Power gain flatness @ PSAT: Symbol: ΔGp; Typical: ±1; Unit: dB

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-30-1000-80-485

30–1000 MHz RF Power Amplifier, 80 W Typical, RS-485

This amplifier provides 80 W typical output across 30–1000 MHz with 49 dB typical gain. Typical flatness is ±2 dB and typical VSWR is 1.5:1; the typical supply is 28 VDC.

Operating frequency: Symbol: BW; Minimum: 30; Maximum: 1000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 80; Unit: W

Power gain: Symbol: Gp; Typical: 49; Unit: dB

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

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-30-1500-1

30–1500 MHz GaN RF Power Amplifier, 1 W Minimum

This module specifies 1 W minimum saturated output and 30 dB minimum gain across 30–1500 MHz. Typical current is 0.15 A at 1 W, with ±1 dB typical gain flatness.

Operating frequency: Symbol: BW; Minimum: 30; Maximum: 1500; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Minimum: 1; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 30; Unit: dB

Power gain flatness @ PSAT: Symbol: ΔGp; Typical: ±1; Unit: dB

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-30-2000-1

30–2000 MHz GaN RF Power Amplifier, 1 W Minimum

This model covers 30–2000 MHz as specified in the electrical table, with 1 W minimum saturated output and 30 dB minimum gain. Typical harmonics are −12 dBc at 1 W, with −60 dBc typical spurious signals at saturation.

Operating frequency: Symbol: BW; Minimum: 30; Maximum: 2000; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Minimum: 1; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 30; Unit: dB

Power gain flatness @ PSAT: Symbol: ΔGp; Typical: ±1; Unit: dB

+28.0VDC; 25°C; 50Ω

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-30-500-100A

30–500 MHz RF Power Amplifier, 120 W Typical at Saturation

The conservatively presented range is 30–500 MHz. The table states 30–520 MHz, while the opening paragraph names a different model and 30–512 MHz. This document's table specifies 100 W minimum, 120 W typical and 160 W maximum at PSAT, with 50 dB typical gain at PSAT.

Operating frequency: Symbol: BW; Minimum: 30; Maximum: 500; Unit: MHz; Notes: Conservatively presented range; the source table's frequency extension remains unconfirmed.

RF output power @ PSAT: Symbol: PSAT; Minimum: 100; Typical: 120; Maximum: 160; Unit: W

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

Power gain flatness @ PSAT: Symbol: ΔGp; Typical: ±2; Unit: dB

+28.0VDC; 25°C; 50Ω; Power-added efficiency: The source does not state a unit; a percentage is not inferred.

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-400-2500-300-485

400–2500 MHz RF Power Amplifier, 300 W Typical, RS-485

This amplifier covers 400–2500 MHz with 300 W typical output power and 55 dB typical gain. Typical current is 40 A at 300 W, and the coupled output port has 48.5 dB typical coupling.

Operating frequency: Symbol: BW; Minimum: 400; Maximum: 2500; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 300; Unit: W

Power gain: Symbol: Gp; Typical: 55; Unit: dB

Power gain flatness: Symbol: Gp; Typical: ±2.5; Unit: dB

+28.0VDC; 25°C; 50Ω; 0dBm

Product details Product datasheet



LCPAM-400-2500-320-485

400–2500 MHz RF Power Amplifier, Band-Specific 300/320 W Minimum, RS-485

The table separates output power by band: 300 W minimum at 400–500 MHz and 320 W minimum at 500–2500 MHz. Typical gain is 55 dB with ±2.5 dB typical flatness.

Operating frequency: Symbol: BW; Minimum: 400; Maximum: 2500; Unit: MHz

RF output power (400–500 MHz): Symbol: Pout; Minimum: 300; Unit: W

Saturated RF output power (500–2500 MHz): Symbol: Pout; Minimum: 320; Unit: W

Power gain: Symbol: Gp; Typical: 55; Unit: dB

+28.0VDC; 25°C; 50Ω; 0dBm

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-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-500-2500-100A

500–2500 MHz GaN RF Power Amplifier, 100 W Typical, Variant A

GaN variant A covers 500–2500 MHz with 100 W typical saturated output and 50 dB typical gain. Typical current is 12 A at 100 W, while the harmonic measurement remains tied to 70 W output.

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

RF output power @ PSAT: Symbol: PSAT; Typical: 100; Unit: W

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

Power gain flatness @ PSAT: Symbol: ΔGp; Typical: ±2; Unit: dB

+28.0VDC; 25°C; 50Ω The electrical table specifies 26 VDC minimum, 28 VDC typical and 30 VDC maximum, while the A1 VDD row states 28–32 VDC. The A1 supply-range claim is withheld. Confirm the permitted supply range and A1 wiring before applying power; 32 VDC is not an accepted operating maximum here.

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-500-2700-20-485

500–2700 MHz RF Power Amplifier, 20 W Typical, RS-485

This amplifier covers 500–2700 MHz with 20 W typical output and 43 dB typical gain. Typical flatness is ±2 dB and typical VSWR is 1.5:1, within a 24–32 VDC operating supply range.

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

Saturated RF output power: Symbol: Pout; Typical: 20; Unit: W

Power gain: Symbol: Gp; Typical: 43; Unit: dB

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

+28.0VDC; 25°C; 50Ω; Harmonics: Source condition “20”; its unit is not specified.

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-5725-5885-150-485

5725–5885 MHz RF Power Amplifier, 200 W Typical, RS-485

The operating frequency range is 5725–5885 MHz. At 28 VDC, 25 °C and 50 Ω, RF output power is 150 W minimum and 200 W typical. Gain is 52 dB minimum and 53 dB typical.

Operating frequency: Symbol: BW; Minimum: 5725; Maximum: 5885; Unit: MHz

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

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-6000-18000-50

6–18 GHz Solid-State RF Power Amplifier, 50 W Typical

The solid-state amplifier covers 6–18 GHz with 45 W minimum and 50 W typical saturated output at 0 dBm input. Typical gain is 47 dB; gain flatness is ±1.5 dB typical and ±2.5 dB maximum under the same input condition.

Operating frequency: Symbol: BW; Minimum: 6; Maximum: 18; Unit: GHz

Saturated RF output power @ Pin = 0 dBm: Symbol: Psat; Minimum: 45; Typical: 50; Unit: W

Power gain @ Pin = 0 dBm: Symbol: Gp; Typical: 47; Unit: dB

Power gain flatness @ Pin = 0 dBm: Symbol: ΔGp; Typical: ±1.5; Maximum: ±2.5; Unit: dB

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.