Product catalog

RF Power Amplifiers

RF power amplifiers raise RF or microwave signals to the output level required by a transmitter, test platform or dedicated RF subsystem. They are used in continuous-wave, pulsed, broadband and configured transmit-power paths.



Products: 94

Revision: 16 · Revision date: 2026-11-28



LCPAM-1550-1620-100

1550–1620 MHz RF Power Amplifier, 100 W Typical

The amplifier covers 1550–1620 MHz and delivers 100 W typical saturated output. It has 50 dB typical gain at the stated test conditions and provides a 28 V DC supply interface with RS-485 control.

RF operating frequency: Specification: 1550–1620 MHz; Unit: MHz

Saturated output power: Specification: 100 W · typical

Power gain: Specification: 50 dB · typical

Gain flatness: Specification: ±1 dB · typical

+28 V DC · 25 °C · 50 Ω

Product details Product datasheet



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



LCMPM-6000-18000-200

6–18 GHz Microwave Power Module, ≥200 W

Broadband MPM covering 6–18 GHz with at least 200 W output, 62 dB small-signal gain, and integrated power control, monitoring and protection.

Operating frequency: Value: 6–18; Unit: GHz

RF output power: Value: ≥200; Unit: W

RF input power: Value: −3–+3; Unit: dBm

Small-signal gain: Value: 62; Unit: dB

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-1000-6000-50

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

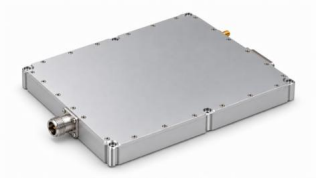
Saturated RF output power: Symbol: Pout; Typical: 100; Unit: W

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-10700-12700-100

10700–12700 MHz GaN RF Power Amplifier, 100 W Typical

The GaN amplifier covers 10700–12700 MHz with 100 W typical saturated output and 50 dB typical gain. Typical flatness is ±1 dB, with −50 dBc typical harmonics at 100 W output.

Operating frequency: Symbol: BW; Minimum: 10700; Maximum: 12700; 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: ±1; Unit: dB

+28.0VDC; 25°C; 50Ω. Confirm operating current and current-protection behavior with LCRF before sizing the power supply.

Product details Product datasheet



LCPAM-10700-12700-50

10700–12700 MHz GaN RF Power Amplifier, 50 W Typical

The GaN amplifier delivers 50 W typical saturated output across 10700–12700 MHz and 47 dB typical gain. Typical dynamic current is 10 A at 50 W, with 1.6 A typical quiescent current.

Operating frequency: Symbol: BW; Minimum: 10700; Maximum: 12700; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Typical: 50; Unit: W

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

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

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-10700-12750-100

10700–12750 MHz GaN RF Power Amplifier, 100 W Typical, WR75 Adapter

The GaN amplifier covers 10700–12750 MHz with 100 W typical saturated output and 50 dB minimum gain. Typical output at 1 dB compression is 40 W; typical current is 21 A at 100 W.

Operating frequency: Symbol: BW; Minimum: 10700; Maximum: 12750; Unit: MHz

Output power at 1 dB compression: Symbol: P-1dB; Typical: 40; Unit: W

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

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

+28.0VDC; 25°C; 50Ω

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-1150-1250-500-485

1150–1250 MHz RF Power Amplifier, 57 dBm Minimum Saturated Output

L-band module with at least 57 dBm saturated output on a single-frequency basis, 55 dB minimum gain and adjustable output from 37 to 57 dBm.

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

Saturated RF output power[1]: Symbol: Psat; Minimum: 57; Unit: dBm; PSAT

Output-power adjustment range: Symbol: Pout; Minimum: 37; Maximum: 57; Unit: dBm

Output-power adjustment step: Maximum: 0.5; Unit: dB

+28.0 V DC; 25°C; 50Ω

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-1250-1350-500-485

1250–1350 MHz RF Power Amplifier, 55 dB Minimum Gain

Source-defined 1250–1350 MHz module with 57 dBm minimum saturated output, 55 dB minimum gain and a separate coupled monitoring output.

Operating frequency: Symbol: BW; Minimum: 1250; Maximum: 1350; Unit: MHz

Saturated RF output power[1]: Symbol: Psat; Minimum: 57; Unit: dBm; PSAT

Output-power adjustment range: Symbol: Pout; Minimum: 37; Maximum: 57; Unit: dBm

Output-power adjustment step: Maximum: 0.5; Unit: dB

+28.0 V DC; 25°C; 50Ω

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-1500-1650-500-485

1500–1650 MHz RF Power Amplifier, Adjustable 37–57 dBm Output

The model heading and frequency table specify 1500–1650 MHz, with at least 57 dBm saturated output and 49–51 dB output coupling.

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

Saturated RF output power[1]: Symbol: Psat; Minimum: 57; Unit: dBm; PSAT

Output-power adjustment range: Symbol: Pout; Minimum: 37; Maximum: 57; Unit: dBm

Output-power adjustment step: Maximum: 0.5; Unit: dB

+28.0 V DC; 25°C; 50Ω

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-2000-18000-10

2000–18000 MHz RF Amplifier Module, 10 W Typical Saturated Output

Broadband module with a typical saturated output of 10 W, 40 dB typical gain, 0.2 µs typical PTT switching and 2 A typical current at Pout = 10 W.

Operating frequency: Symbol: BW; Minimum: 2000; Maximum: 18000; Unit: MHz

Saturated RF output power: Symbol: Psat; Typical: 10; Unit: W; PSAT

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

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

+28.0 V DC; 25°C; 50Ω; 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-2000-6000-100H-485

2000–6000 MHz RF Amplifier with Cooling Assembly, 100 W Typical Saturated Output

Amplifier with cooling assembly, 100 W typical saturated output, 50 dB typical gain and 15 A typical current at Pout = 100 W.

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

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

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

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

+28.0 V DC; 25°C; 50Ω

Product details Product datasheet



LCPAM-2000-6000-20

2000–6000 MHz GaN RF Power Amplifier, 25 W Typical Saturated Output

This model's sheet specifies 25 W typical saturated output across 2000–6000 MHz and 44 dB typical gain. Typical current of 2.5 A and power-added efficiency of 30% are both specified at 20 W output.

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

RF output power @ PSAT: Symbol: PSAT; Typical: 25; Unit: W

Power gain @ PSAT: Symbol: Gp; Typical: 44; Unit: dB

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

+28.0VDC; 25°C; 50Ω

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-2000-6000-50A

2–6 GHz 50 W RF Power Amplifier Module

LCPAM-2000-6000-50A provides 50 W typical saturated output and 47 dB typical gain at PSAT over 2–6 GHz. Electrical test conditions are 28 VDC, 25 °C and a 50 Ω system.

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

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

Power gain (PSAT): Symbol: Gp; Typical: 47; Unit: dB; PSAT

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

28 VDC; 25 °C; 50 Ω

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-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-2400-2485-50

2400–2485 MHz RF Power Amplifier Module, 50 W Minimum Saturated Output

Defined-band RF module with at least 50 W saturated output and 47 dB typical gain at saturation across 2400–2485 MHz. Typical dynamic current is 4 A at 50 W.

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

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

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

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

Product details Product datasheet



LCPAM-2400-2485-50A

2400–2485 MHz RF Power Amplifier, 50 W Minimum, Variant A

Variant A covers 2400–2485 MHz with 50 W minimum output and 47 dB typical gain. Typical dynamic current is 4 A at 50 W, with 40% typical power-added efficiency.

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

RF output power @ PSAT: Symbol: PSAT; Minimum: 50; Unit: W

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

Harmonics at 50 W: Symbol: H; Typical: -25; Unit: dBc

Product details Product datasheet



LCPAM-2400-2500-50

2400–2500 MHz RF Power Amplifier Module, 50 W Minimum Saturated Output

RF amplifier module for 2400–2500 MHz communication links, with at least 50 W saturated output, 47 dB typical gain at saturation and SMA female RF connectors.

Operating frequency: Symbol: BW; Minimum: 2400; Maximum: 2500; Unit: MHz

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

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

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

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-3000-8000-100-485

3000–8000 MHz GaN RF Power Amplifier, 100 W Typical, RS-485

The GaN amplifier covers 3000–8000 MHz with 80 W minimum and 100 W typical saturated output. Gain is 49 dB minimum and 50 dB typical; typical current is 18 A at 100 W output.

Operating frequency: Symbol: BW; Minimum: 3000; Maximum: 8000; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Minimum: 80; Typical: 100; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 49; Typical: 50; Unit: dB

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

+28.0VDC; 25°C; 50Ω

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-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-4400-5000-25

4400–5000 MHz RF Power Amplifier, 25 W Typical

The amplifier provides 25 W typical output across 4400–5000 MHz and 44 dB typical gain. Typical flatness is ±0.75 dB and VSWR is 1.5:1; operating voltage is 24 V minimum, 28 V typical and 32 V maximum.

Operating frequency: Symbol: BW; Minimum: 4400; Maximum: 5000; Unit: MHz

Saturated RF output power: Symbol: Pout; Typical: 25; Unit: W

Power gain: Symbol: Gp; Typical: 44; Unit: dB

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

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-5000-6000-100

5–6 GHz ≥100 W GaN RF Power Amplifier Module

LCPAM-5000-6000-100 is rated for 100 W minimum saturated output and 50 dB minimum gain at PSAT over 5–6 GHz, at 28 VDC, 25 °C and 50 Ω.

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

Saturated RF output power: Symbol: PSAT; Minimum: 100; Unit: W; PSAT

Power gain (PSAT): Symbol: Gp; Minimum: 50; Unit: dB; PSAT

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

28 VDC; 25 °C; 50 Ω

Product details Product datasheet



LCPAM-5000-6000-100A

5–6 GHz 100 W Typical RF Power Amplifier Module

LCPAM-5000-6000-100A provides 100 W typical and 80 W minimum saturated output over 5–6 GHz, with 50 dB typical gain at PSAT. Test conditions are 28 VDC, 25 °C and 50 Ω.

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

Saturated RF output power: Symbol: PSAT; Minimum: 80; Typical: 100; Unit: W; PSAT

Power gain (PSAT): Symbol: Gp; Typical: 50; Unit: dB; PSAT

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

28 VDC; 25 °C; 50 Ω

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-5000-8500-25

5000–8500 MHz GaN RF Power Amplifier, 25 W Typical

The GaN amplifier covers 5000–8500 MHz with 20 W minimum and 25 W typical saturated output. Gain is 43 dB minimum and 44 dB typical; typical harmonics are −40 dBc at 20 W output.

Operating frequency: Symbol: BW; Minimum: 5000; Maximum: 8500; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Minimum: 20; Typical: 25; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 43; Typical: 44; Unit: dB

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

+28.0VDC; 25°C; 50Ω

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-5150-5250-50

5150–5250 MHz RF Power Amplifier Module, 50 W Typical Saturated Output

RF amplifier for the 5150–5250 MHz band, with 50 W typical saturated output and 47 dB typical gain at saturation. The housing is 137×48×23 mm.

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

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

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

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

Product details Product datasheet



LCPAM-5150-5250-50A

5150–5250 MHz RF Power Amplifier, 50 W Typical, Variant A

Variant A provides 50 W typical output across 5150–5250 MHz and 47 dB typical gain. Typical dynamic current is 6 A at 50 W, with 30% typical power-added efficiency.

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

RF output power @ PSAT: Symbol: PSAT; Typical: 50; Unit: W

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

Harmonics at 50 W: Symbol: H; Typical: -25; Unit: dBc

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-5725-5850-50

5725–5850 MHz RF Power Amplifier Module, 50 W Typical Saturated Output

Power amplifier module covering 5725–5850 MHz, with 50 W typical saturated output and 47 dB typical gain at saturation. Typical dynamic current is 6 A at 50 W.

Operating frequency: Symbol: BW; Minimum: 5725; Maximum: 5850; Unit: MHz

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

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

Operating voltage: Symbol: VDC; Typical: 28; Unit: V

Product details Product datasheet



LCPAM-5725-5850-50A

5725–5850 MHz RF Power Amplifier, 50 W Typical, Variant A

Variant A covers 5725–5850 MHz with 50 W typical output and 47 dB typical gain. The source records −25 dBc typical harmonics at 50 W output.

Operating frequency: Symbol: BW; Minimum: 5725; Maximum: 5850; Unit: MHz

RF output power @ PSAT: Symbol: PSAT; Typical: 50; Unit: W

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

Harmonics at 50 W: Symbol: H; Typical: -25; Unit: dBc

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-6000-8500-20

6000–8500 MHz GaN RF Power Amplifier, 20 W Minimum

This model's sheet specifies 20 W minimum and 25 W typical saturated output across 6000–8500 MHz. Typical current of 2.5 A and power-added efficiency of 30% apply at 20 W; typical quiescent current is 1.8 A.

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

RF output power @ PSAT: Symbol: PSAT; Minimum: 20; Typical: 25; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 43; Typical: 44; Unit: dB

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

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAM-6000-8500-25

6000–8500 MHz GaN RF Power Amplifier, 25 W Typical

This model specifies 25 W typical and 20 W minimum saturated output across 6000–8500 MHz. Gain is 44 dB typical and 43 dB minimum, with ±0.5 dB typical gain flatness.

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

RF output power @ PSAT: Symbol: PSAT; Minimum: 20; Typical: 25; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 43; Typical: 44; Unit: dB

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

+28.0VDC; 25°C; 50Ω

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

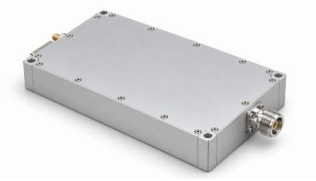
Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W

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-700-4000-50-485

700–4000 MHz Broadband RF Power Amplifier Module, 50 W Typical Saturated Output

Broadband RF module covering 700–4000 MHz, with 50 W typical saturated output, 47 dB typical power gain and 7 A typical current at Pout = 50 W. RS-485 is provided on pins 3 and 4.

Operating frequency: Symbol: BW; Minimum: 700; Maximum: 4000; Unit: MHz

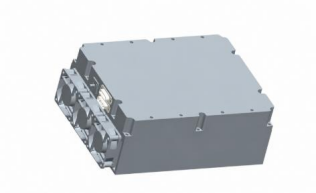
Saturated RF output power: Symbol: Pout; Typical: 50; Unit: W; PSAT

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

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

+28.0 V DC; 25°C; 50Ω

Product details Product datasheet



LCPAM-8000-12000-100

8000–12000 MHz GaN RF Power Amplifier, 100 W Typical

The GaN amplifier covers 8000–12000 MHz with 100 W typical saturated output and 53 dB minimum gain. Typical output at 1 dB compression is 20 W, with ±1.5 dB typical gain flatness.

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

Output power at 1 dB compression: Symbol: P-1dB; Typical: 20; Unit: W

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

Power gain @ PSAT: Symbol: Gp; Minimum: 53; Unit: dB

+28.0VDC; 25°C; 50Ω

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



LCPAS-8000-12000-200

8000–12000 MHz GaN RF Power Amplifier System, 200 W Typical

The GaN system covers 8000–12000 MHz with 200 W typical saturated output and 40 W typical output at 1 dB compression. Gain is 53 dB minimum with ±1.5 dB typical gain flatness.

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

Output power at 1 dB compression: Symbol: P-1dB; Typical: 40; Unit: W

RF output power @ PSAT: Symbol: PSAT; Typical: 200; Unit: W

Power gain @ PSAT: Symbol: Gp; Minimum: 53; Unit: dB

+28.0VDC; 25°C; 50Ω

Product details Product datasheet



LCPAS-8000-12000-400

8000–12000 MHz GaN RF Power Amplifier System, 400 W Typical

The GaN system specifies 400 W typical saturated output across 8000–12000 MHz and 120 W typical output at 1 dB compression. Gain is 56 dB minimum with ±1.5 dB typical gain flatness.

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

Output power at 1 dB compression: Symbol: P-1dB; Typical: 120; Unit: W

RF output power @ PSAT: Symbol: PSAT; Typical: 400; Unit: W

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

+28.0VDC; 25°C; 50Ω

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.