Product catalog

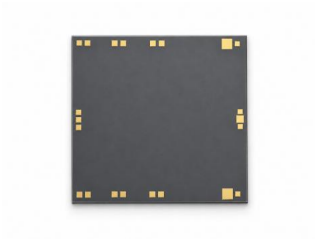
# RF MMIC Amplifiers

RF MMIC amplifiers integrate gain stages into monolithic microwave circuits for compact RF front ends, instruments and modules where repeatable gain and controlled bias matter.



Products: 199

Revision: 34 · Revision date: 2026-11-11



## LCI-PA-11500-18000-PS44p5T

### 11500–18000 MHz GaN MMIC Power Amplifier Die

A GaN MMIC power amplifier die for 11.5–18 GHz microwave transmit stages. It supports continuous-wave and pulsed operation and integrates DC blocking in both RF signal paths.

**Operating frequency:** Symbol: f; Minimum: 11500; Maximum: 18000; Value: 11500–18000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 44; Typical: 44.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 19; Typical: 19.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.4 V; Pin = 25 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-14000-18000-PS42p5T

### 14000–18000 MHz GaN MMIC Power Amplifier Die

Saturated output power: 42 dBm (minimum) / 42.5 dBm (typical); Power gain: 22 dB (minimum) / 22.5 dB (typical); Power-added efficiency: 35 % (minimum). Die dimensions: 3 × 2 × 0.1 mm.

**Operating frequency:** Minimum: 14000; Maximum: 18000; Value: 14000–18000; Unit: MHz

**Saturated output power:** Minimum: 42; Typical: 42.5; Unit: dBm

**Power gain:** Minimum: 22; Typical: 22.5; Unit: dB

**Power-gain flatness:** Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-14200-16800-PS48T

### 14200–16800 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 48 dBm (typical); Power gain: 20 dB (typical); PAE: 35 % (typical). Die dimensions: 3.6 × 5.9 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 14200; Maximum: 16800; Value: 14200–16800; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.35; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V; Pin = 28 dBm; τ = 100 µs; D = 5%; pulsed

Product details Product datasheet



## LCI-PA-14500-17200-PS48T

### 14500–17200 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 48 dBm (typical); Power gain: 20 dB (typical); PAE: 35 % (typical). Die dimensions: 3.6 × 5.9 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 14500; Maximum: 17200; Value: 14500–17200; Unit: MHz

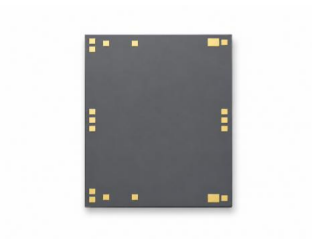
**Saturated output power:** Symbol: Psat; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.35; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 28 dBm; τ = 100 µs; D = 5%; pulsed

Product details Product datasheet



## LCI-PA-13750-14500-PS45MIN

### 13750–14500 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 45 dBm (minimum); Power gain: 20 dB (minimum); PAE: 37 % (minimum) / 38 % (typical). Die dimensions: 2.8 × 3.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 13750; Maximum: 14500; Value: 13750–14500; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 45; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -3.08 V; pulsed

Product details Product datasheet



## LCI-PA-13750-15250-PS46T

### 13750–15250 MHz GaN MMIC Power Amplifier Die

Saturated output power: 46 dBm (typical); Power gain: 21 dB (typical); Power-added efficiency: 33 % (typical). Die dimensions: 5 × 6 × 0.08 mm.

**Operating frequency:** Minimum: 13750; Maximum: 15250; Value: 13750–15250; Unit: MHz

**Saturated output power:** Typical: 46; Unit: dBm

**Power gain:** Typical: 21; Unit: dB

**Power-gain flatness:** Maximum: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -3.05 V; CW

Product details Product datasheet



## LCI-PA-8000-12000-PS48p5T

### 8000–12000 MHz GaN MMIC Power Amplifier Die

Saturated output power: 48 dBm (minimum) / 48.5 dBm (typical); Power gain: 23 dB (minimum) / 23.5 dB (typical); Power-added efficiency: 44 % (typical). Die dimensions: 4 × 5.8 × 0.1 mm.

**Operating frequency:** Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

**Saturated output power:** Minimum: 48; Typical: 48.5; Unit: dBm

**Power gain:** Minimum: 23; Typical: 23.5; Unit: dB

**Power-gain flatness:** Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-13800-18200-PS47p5T

### 13800–18200 MHz GaN MMIC Power Amplifier Die

PSAT: 47 dBm (minimum) / 47.5 dBm (typical); Power gain: 21 dB (minimum) / 21.5 dB (typical); PAE: 33 % (typical). Die dimensions: 3.6 × 5.9 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 13800; Maximum: 18200; Value: 13800–18200; Unit: MHz

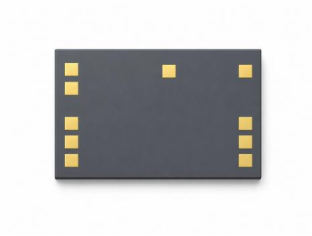
**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 47.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 21; Typical: 21.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-14000-18000-PS37p5T

### 14000–18000 MHz GaN MMIC Power Amplifier Die

PSAT: 37 dBm (minimum) / 37.5 dBm (typical); Power gain: 15 dB (minimum) / 15.5 dB (typical); PAE: 35 % (typical). Die dimensions: 1.5 × 1 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 14000; Maximum: 18000; Value: 14000–18000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 37; Typical: 37.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 15; Typical: 15.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.4; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-12200-16000-PS46p5T

### 12200–16000 MHz GaN MMIC Power Amplifier Die

PSAT: 46 dBm (minimum) / 46.5 dBm (typical); Power gain: 19 dB (minimum) / 19.5 dB (typical); PAE: 33 % (typical). Die dimensions: 4.2 × 6.02 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 12200; Maximum: 16000; Value: 12200–16000; Unit: MHz

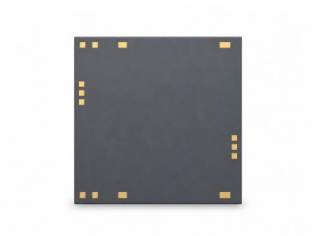
**Saturated output power:** Symbol: Psat; Minimum: 46; Typical: 46.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 19; Typical: 19.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -3.0 V

Product details Product datasheet



## LCI-PA-26000-40000-PS40p5T

### 26000–40000 MHz GaN MMIC Power Amplifier Die

Power gain: 15 dB (typical); PSAT: 40.5 dBm (typical); PAE: 23 % (typical). Die dimensions: 3.4 × 3.4 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 26000; Maximum: 40000; Value: 26000–40000; Unit: MHz

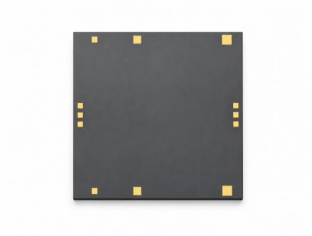
**Small-signal gain:** Symbol: S21; Typical: 22; Unit: dB

**Power gain:** Symbol: Gp; Typical: 15; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +22 V; Id = 0.8 A

Product details Product datasheet



## LCI-PA-31000-37000-PS41T

### 31000–37000 MHz MMIC Power Amplifier Die

PSAT: 41 dBm (typical); PAE: 26 % (typical); Small-signal gain: 21 dB (typical). Die dimensions: 3.6 × 3.6 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 31000; Maximum: 37000; Value: 31000–37000; Unit: MHz

**Small-signal gain:** Symbol: S21; Typical: 21; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±1; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 41; Unit: dBm

TA = +25 °C; Vd = +22 V; Id = 1 A

Product details Product datasheet



## LCI-PA-33000-37000-PS45T

### 33000–37000 MHz MMIC Power Amplifier Die

PSAT: 45 dBm (typical); PAE: 22 % (typical); Small-signal gain: 23 dB (typical). Die dimensions: 3.6 × 6.2 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 33000; Maximum: 37000; Value: 33000–37000; Unit: MHz

**Small-signal gain:** Symbol: S21; Typical: 23; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±1; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

TA = +25 °C; Vd = +28 V; Id = 2.1 A

Product details Product datasheet



## LCI-PA-18000-40000-PS40p5T

### 18000–40000 MHz GaN MMIC Power Amplifier Die

PSAT: 40.5 dBm (typical); PAE: 15 % (typical); Small-signal gain: 21 dB (typical). Die dimensions: 3.4 × 4.2 × 0.05 mm.

**Operating frequency:** Symbol: f; Minimum: 18000; Maximum: 40000; Value: 18000–40000; Unit: MHz

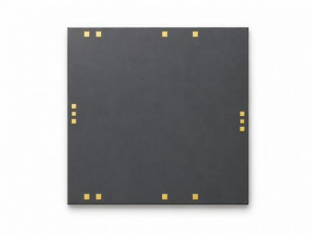
**Small-signal gain:** Symbol: S21; Typical: 21; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±1; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 40.5; Unit: dBm

TA = +25 °C; Vd = +18 V; Id = 2.2 A

Product details Product datasheet



## LCI-PA-92000-96000-PS36T

### 92000–96000 MHz MMIC Power Amplifier Die

PSAT: 36 dBm (typical); PAE: 9 % (typical); Small-signal gain: 19 dB (typical). Die dimensions: 5.1 × 5.1 × 0.05 mm.

**Operating frequency:** Symbol: f; Minimum: 92000; Maximum: 96000; Value: 92000–96000; Unit: MHz

**Small-signal gain:** Symbol: S21; Typical: 19; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±1; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 36; Unit: dBm

TA = +25 °C; Vd = +18 V; Id = 1.2 A

Product details Product datasheet



## LCI-PA-27000-31000-PS43T

### 27000–31000 MHz Power Amplifier Die

PSAT: 43 dBm (typical); PAE: 28 % (typical); Small-signal gain: 23 dB (typical). Die dimensions: 3.26 × 4.8 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 27000; Maximum: 31000; Value: 27000–31000; Unit: MHz

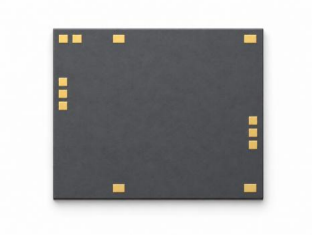
**Small-signal gain:** Symbol: S21; Typical: 23; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±0.5; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 43; Unit: dBm

TA = +25 °C; Vd = +22 V; Id = 0.9 A

Product details Product datasheet



## LCI-PA-50000-63000-PS37T

### 50000–63000 MHz GaN MMIC Power Amplifier Die

PSAT: 37 dBm (typical); PAE: 20 % (typical); Small-signal gain: 18 dB (typical). Die dimensions: 2.9 × 2.4 × 0.05 mm.

**Operating frequency:** Symbol: f; Minimum: 50000; Maximum: 63000; Value: 50000–63000; Unit: MHz

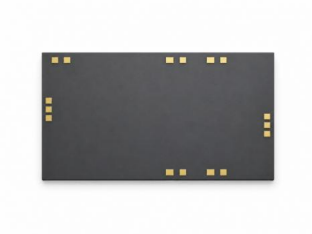
**Small-signal gain:** Symbol: S21; Typical: 18; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±1.5; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 37; Unit: dBm

TA = +25 °C; Vd = +18 V; Id = 0.77 A

Product details Product datasheet



## LCI-PA-92000-96000-PS34T

### 92000–96000 MHz MMIC Power Amplifier Die

PSAT: 34 dBm (typical); PAE: 10 % (typical); Small-signal gain: 19 dB (typical). Die dimensions: 4.5 × 2.6 × 0.05 mm.

**Operating frequency:** Symbol: f; Minimum: 92000; Maximum: 96000; Value: 92000–96000; Unit: MHz

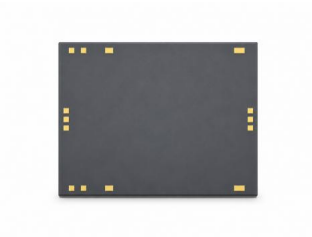
**Small-signal gain:** Symbol: S21; Typical: 19; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±1; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 34; Unit: dBm

TA = +25 °C; Vd = +18 V; Id = 1.2 A

Product details Product datasheet



## LCI-PA-18000-26500-PS41T

### 18000–26500 MHz GaN MMIC Power Amplifier Die

PSAT: 41 dBm (typical); PAE: 26 % (typical); Power gain: 19 dB (typical). Die dimensions: 4.1 × 3.2 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 18000; Maximum: 26500; Value: 18000–26500; Unit: MHz

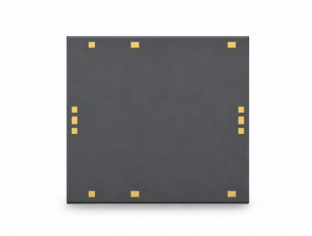
**Small-signal gain:** Symbol: S21; Typical: 25; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±0.4; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 41; Unit: dBm

TA = +25 °C; Vd = +22 V; Id = 0.9 A

Product details Product datasheet



## LCI-PA-27000-31000-PS42T

### 27000–31000 MHz GaN MMIC Power Amplifier Die

PSAT: 42 dBm (typical); PAE: 30 % (typical); Small-signal gain: 23 dB (typical). Die dimensions: 3.26 × 3 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 27000; Maximum: 31000; Value: 27000–31000; Unit: MHz

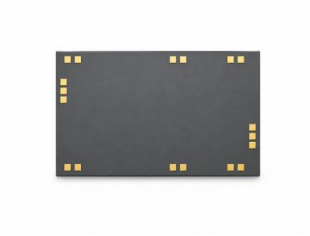
**Small-signal gain:** Symbol: S21; Typical: 23; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.5; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 42; Unit: dBm

TA = +25 °C; Vd = +22 V; Id = 0.5 A

Product details Product datasheet



## LCI-PA-15000-43000-PS30T

### 15000–43000 MHz Power Amplifier Die

PSAT: 30 dBm (typical); PAE: 18 % (typical); Small-signal gain: 18 dB (minimum) / 20 dB (typical) / 22 dB (maximum). Die dimensions: 3.94 × 2.48 × 0.07 mm.

**Operating frequency:** Symbol: f; Minimum: 15000; Maximum: 43000; Value: 15000–43000; Unit: MHz

**Small-signal gain:** Symbol: S21; Minimum: 18; Typical: 20; Maximum: 22; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±2; Unit: dB

**Output power at 1 dB compression:** Typical: 29.5; Unit: dBm

TA = +25 °C; Vd = +5 V; Id = 0.9 A

Product details Product datasheet



## LCI-PA-92000-96000-PS26p5T

### 92000–96000 MHz Power Amplifier Die

PSAT: 26.5 dBm (typical); PAE: 12 % (typical) / 13 % (maximum); Small-signal gain: 18 dB (typical). Die dimensions: 3.25 × 1.15 × 0.05 mm.

**Operating frequency:** Symbol: f; Minimum: 92000; Maximum: 96000; Value: 92000–96000; Unit: MHz

**Small-signal gain:** Symbol: S21; Typical: 18; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±0.5; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 26.5; Unit: dBm

TA = +25 °C; Vd = +18 V; Id = 0.11 A

Product details Product datasheet



## LCI-PA-15000-17000-PS45T-PG21T

### 15000–17000 MHz GaN MMIC Power Amplifier Die

PSAT: 45 dBm (typical); Power gain: 21 dB (typical); PAE: 37 % (typical). Die dimensions: 3.45 × 3.95 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 15000; Maximum: 17000; Value: 15000–17000; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 21; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-12700-14500-PS47T

### 12700–14500 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 46.8 dBm (minimum) / 47 dBm (typical); Power gain: 18.8 dB (minimum) / 19 dB (typical); PAE: 37 % (typical). Die dimensions: 3.7 × 5.9 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 12700; Maximum: 14500; Value: 12700–14500; Unit: MHz

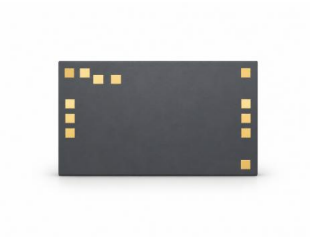
**Saturated output power:** Symbol: Psat; Minimum: 46.8; Typical: 47; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 18.8; Typical: 19; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.96 V; pulsed

Product details Product datasheet



## LCI-PA-15000-18000-PS38T

### 15000–18000 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 38 dBm (typical); Power gain: 20 dB (typical); PAE: 40 % (typical). Die dimensions: 2.3 × 1.35 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 15000; Maximum: 18000; Value: 15000–18000; Unit: MHz

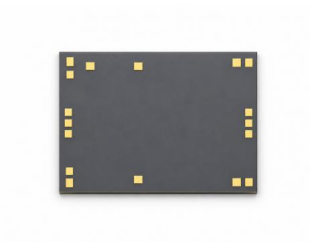
**Saturated output power:** Symbol: Psat; Typical: 38; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.35; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 19 dBm; τ = 100 µs; D = 10%; pulsed

Product details Product datasheet



## LCI-PA-13000-15000-PS42T

### 13000–15000 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 42 dBm (typical); Power gain: 21 dB (typical); PAE: 35 % (minimum) / 37 % (typical). Die dimensions: 2.8 × 2 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 13000; Maximum: 15000; Value: 13000–15000; Unit: MHz

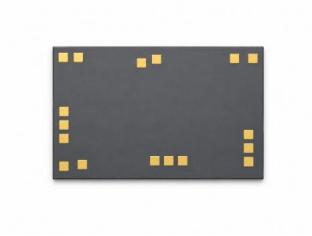
**Saturated output power:** Symbol: Psat; Typical: 42; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 21; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.35; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -3.05 V; pulsed

Product details Product datasheet



## LCI-TRPA-5000-13000-PS31T

### 5000–13000 MHz GaN T/R MMIC Power Amplifier Die

PSAT: 31 dBm (typical); Power gain: 18 dB (typical); PAE: 30 % (typical). Die dimensions: 2.35 × 1.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 13000; Value: 5000–13000; Unit: MHz

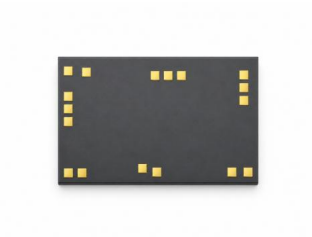
**Saturated output power:** Symbol: Psat; Typical: 31; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 18; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.5; Unit: dB

TA = +25 °C; Vd = +16 V; Vg = -2.8 V

Product details Product datasheet



## LCI-TRPA-5000-13000-PS31T-M

### 5000–13000 MHz GaN T/R MMIC Power Amplifier Die

PSAT: 31 dBm (typical); Power gain: 18 dB (typical); PAE: 30 % (typical). Die dimensions: 2.35 × 1.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 13000; Value: 5000–13000; Unit: MHz

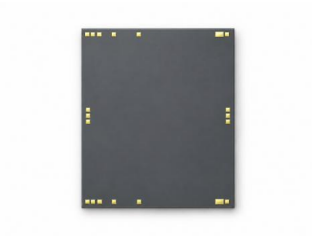
**Saturated output power:** Symbol: Psat; Typical: 31; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 18; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.5; Unit: dB

TA = +25 °C; Vd = +16 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-12000-15000-PS47p5T

### 12000–15000 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 47 dBm (minimum) / 47.5 dBm (typical); Power gain: 22 dB (minimum) / 22.5 dB (typical); PAE: 30 % (minimum) / 34 % (typical). Die dimensions: 4.1 × 5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 12000; Maximum: 15000; Value: 12000–15000; Unit: MHz

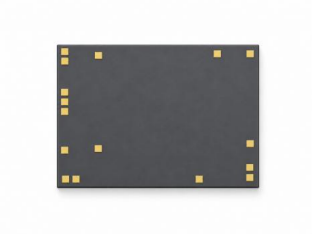
**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 47.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 22; Typical: 22.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; pulsed

Product details Product datasheet



## LCI-TRPA-8000-12000-PS41T

### 8000–12000 MHz GaN T/R MMIC Power Amplifier Die

PSAT: 41 dBm (typical); Power gain: 25 dB (typical); PAE: 38 % (typical). Die dimensions: 3.2 × 2.3 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

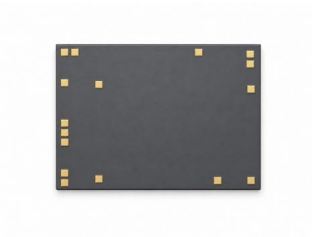
**Saturated output power:** Symbol: Psat; Typical: 41; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 25; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-TRPA-8000-12000-PS41T-M

### 8000–12000 MHz GaN T/R MMIC Power Amplifier Die

PSAT: 41 dBm (typical); Power gain: 25 dB (typical); PAE: 38 % (typical). Die dimensions: 3.2 × 2.3 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

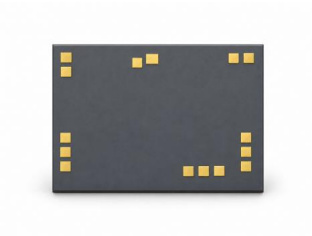
**Saturated output power:** Symbol: Psat; Typical: 41; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 25; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-TRPA-9000-10000-PS35T

### 9000–10000 MHz GaN T/R MMIC Power Amplifier Die

PSAT: 35 dBm (typical); Power gain: 21 dB (typical); PAE: 35 % (typical). Die dimensions: 2.1 × 1.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 9000; Maximum: 10000; Value: 9000–10000; Unit: MHz

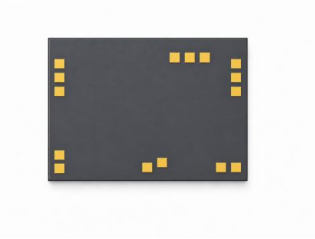
**Saturated output power:** Symbol: Psat; Typical: 35; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 21; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.2; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-TRPA-9000-10000-PS35T-M

### 9000–10000 MHz GaN T/R MMIC Power Amplifier Die

PSAT: 35 dBm (typical); Power gain: 21 dB (typical); PAE: 35 % (typical). Die dimensions: 2.1 × 1.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 9000; Maximum: 10000; Value: 9000–10000; Unit: MHz

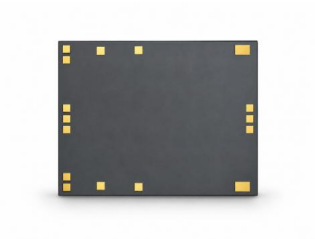
**Saturated output power:** Symbol: Psat; Typical: 35; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 21; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.2; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-15000-17000-PS45T-PG24T

### 15000–17000 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 45 dBm (typical); Power gain: 24 dB (typical); PAE: 43 % (typical). Die dimensions: 3.1 × 2.45 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 15000; Maximum: 17000; Value: 15000–17000; Unit: MHz

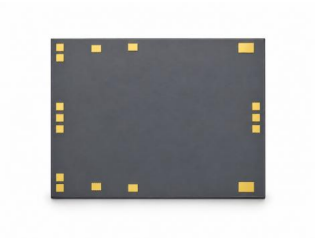
**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 24; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V; pulsed

Product details Product datasheet



## LCI-PA-14000-18000-PS45T

### 14000–18000 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 45 dBm (typical); Power gain: 24 dB (typical); PAE: 41 % (typical). Die dimensions: 3.1 × 2.45 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 14000; Maximum: 18000; Value: 14000–18000; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 24; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V; pulsed

Product details Product datasheet



## LCI-PA-15000-18500-PS48T

### 15000–18500 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 48 dBm (typical); Power gain: 22 dB (typical); PAE: 38 % (typical). Die dimensions: 3.34 × 4.95 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 15000; Maximum: 18500; Value: 15000–18500; Unit: MHz

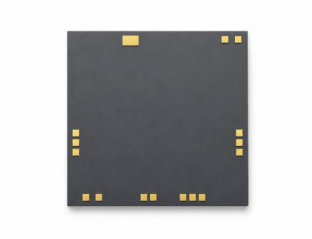
**Saturated output power:** Symbol: Psat; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 22; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V; pulsed

Product details Product datasheet



## LCI-TRPA-300-6000-PS39T

### 300–6000 MHz GaN T/R MMIC Power Amplifier Die

pulsed: PSAT: 38.7 dBm (minimum) / 39 dBm (typical) / 40.5 dBm (maximum); Power gain: 10.7 dB (minimum) / 11 dB (typical) / 12.5 dB (maximum); PAE: 30 % (minimum) / 35 % (typical) / 53 % (maximum). Die dimensions: 3.1 × 3.1 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 300; Maximum: 6000; Value: 300–6000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 38.7; Typical: 39; Maximum: 40.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 10.7; Typical: 11; Maximum: 12.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.9; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V; pulsed

Product details Product datasheet



## LCI-PA-13750-15350-PS48T

### 13750–15350 MHz GaN MMIC Power Amplifier Die

pulsed: PSAT: 47 dBm (minimum) / 48 dBm (typical); Power gain: 19 dB (minimum) / 20 dB (typical); PAE: 35 % (typical). Die dimensions: 3.7 × 5.9 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 13750; Maximum: 15350; Value: 13750–15350; Unit: MHz

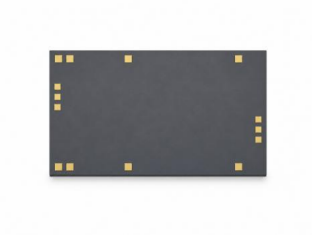
**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 19; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Id = 0.5 A; pulsed

Product details Product datasheet



## LCI-PA-34000-64000-PS30T

### 34000–64000 MHz GaN MMIC Power Amplifier Die

PSAT: 30 dBm (typical); PAE: 17 % (typical); Power gain: 17 dB (typical). Die dimensions: 3.9 × 2.3 × 0.07 mm.

**Operating frequency:** Symbol: f; Minimum: 34000; Maximum: 64000; Value: 34000–64000; Unit: MHz

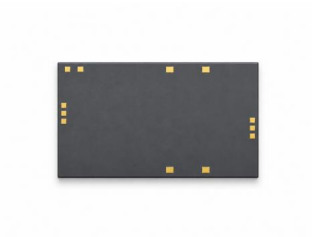
**Small-signal gain:** Symbol: S21; Typical: 19; Unit: dB

**Output power at 1 dB compression:** Typical: 27; Unit: dBm

**Saturated output power:** Symbol: Psat; Typical: 30; Unit: dBm

TA = +25 °C; Vd = +4 V; Id = 0.81 A

Product details Product datasheet



## LCI-PA-92000-96000-PS34p5T

### 92000–96000 MHz MMIC Power Amplifier Die

PSAT: 34.5 dBm (typical); PAE: 14 % (typical); Small-signal gain: 22 dB (typical). Die dimensions: 4.5 × 2.6 × 0.05 mm.

**Operating frequency:** Symbol: f; Minimum: 92000; Maximum: 96000; Value: 92000–96000; Unit: MHz

**Small-signal gain:** Symbol: S21; Typical: 22; Unit: dB

**Small-signal gain flatness:** Symbol: ΔS21; Typical: ±1; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 34.5; Unit: dBm

TA = +25 °C; Vd = +15 V; Id = 0.28 A

Product details Product datasheet



## LCI-LNA-8000-12000-NF0p7T-SG28T

### 8000–12000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 0.7 dB (typical) / 0.75 dB (maximum); Small-signal gain: 26.5 dB (minimum) / 28 dB (typical); Output 1 dB compression power: 10 dBm (typical). Die dimensions: 1.4 × 0.9 × 0.1 mm.

**Operating frequency:** Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

**Output 1 dB compression power:** Typical: 10; Unit: dBm

**Small-signal gain:** Minimum: 26.5; Typical: 28; Unit: dB

**Small-signal gain flatness:** Typical: ±1.3; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-8000-12000-NF0p7T-SG28T-M

### 8000–12000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 0.7 dB (typical) / 0.75 dB (maximum); Small-signal gain: 26.5 dB (minimum) / 28 dB (typical); Output 1 dB compression power: 10 dBm (typical). Die dimensions: 1.4 × 0.9 × 0.1 mm.

**Operating frequency:** Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

**Output 1 dB compression power:** Typical: 10; Unit: dBm

**Small-signal gain:** Minimum: 26.5; Typical: 28; Unit: dB

**Small-signal gain flatness:** Typical: ±1.3; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-14000-15000-NF1p1T

### 14000–15000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 1.1 dB (typical); Small-signal gain: 32 dB (typical); Output 1 dB compression power: 5 dBm (typical). Die dimensions: 1.8 × 1.4 × 0.1 mm.

**Operating frequency:** Minimum: 14000; Maximum: 15000; Value: 14000–15000; Unit: MHz

**Output 1 dB compression power:** Typical: 5; Unit: dBm

**Small-signal gain:** Typical: 32; Unit: dB

**Small-signal gain flatness:** Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-14000-15000-NF1p1T-M

### 14000–15000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 1.1 dB (typical); Small-signal gain: 32 dB (typical); Output 1 dB compression power: 5 dBm (typical). Die dimensions: 1.8 × 1.4 × 0.1 mm.

**Operating frequency:** Minimum: 14000; Maximum: 15000; Value: 14000–15000; Unit: MHz

**Output 1 dB compression power:** Typical: 5; Unit: dBm

**Small-signal gain:** Typical: 32; Unit: dB

**Small-signal gain flatness:** Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-800-4000-NF0p4T

### 800–4000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 0.4 dB (typical); Small-signal gain: 32 dB (typical) (Vd = +5 V); Output 1 dB compression power: 15 dBm (typical) (Vd = +5 V). Die dimensions: 1.8 × 1.7 × 0.1 mm.

**Operating frequency:** Minimum: 800; Maximum: 4000; Value: 800–4000; Unit: MHz

**Output 1 dB compression power:** Typical: 15; Value: Vd = +5 V; Unit: dBm

**Small-signal gain:** Typical: 32; Value: Vd = +5 V; Unit: dB

**Small-signal gain flatness:** Typical: ±1.5; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-800-4000-NF0p4T-M

### 800–4000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 0.4 dB (typical); Small-signal gain: 32 dB (typical) (Vd = +5 V); Output 1 dB compression power: 15 dBm (typical) (Vd = +5 V). Die dimensions: 1.8 × 1.7 × 0.1 mm.

**Operating frequency:** Minimum: 800; Maximum: 4000; Value: 800–4000; Unit: MHz

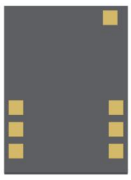
**Output 1 dB compression power:** Typical: 15; Value: Vd = +5 V; Unit: dBm

**Small-signal gain:** Typical: 32; Value: Vd = +5 V; Unit: dB

**Small-signal gain flatness:** Typical: ±1.5; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-30-600-NF0p6T

### 30–600 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 0.6 dB (typical); Small-signal gain: 32.3 dB (typical); Input VSWR: 1.2 (typical). Die dimensions: 0.85 × 1.15 × 0.1 mm.

**Operating frequency:** Minimum: 30; Maximum: 600; Value: 30–600; Unit: MHz

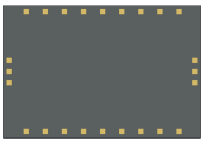
**Small-signal gain:** Typical: 32.3; Unit: dB

**Small-signal gain flatness:** Typical: ±0.3; Unit: dB

**Input VSWR:** Typical: 1.2

TA = +25 °C; Vd = +4 V

Product details Product datasheet



## LCI-LNA-75000-110000-NF3p3MAX

### 75000–110000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 2.8 dB (typical) (f = 90000 MHz); Noise figure: 3.3 dB (maximum); Small-signal gain: 25 dB (typical) (f = 75000–90000 MHz); Small-signal gain: 22 dB (typical) (f = 90000–110000 MHz). Die dimensions: 2 × 3 × 0.1 mm.

**Operating frequency:** Minimum: 75000; Maximum: 110000; Value: 75000–110000; Unit: MHz

**Small-signal gain:** Typical: 25; Unit: dB; Notes: f = 75000–90000 MHz

**Small-signal gain:** Typical: 22; Unit: dB; Notes: f = 90000–110000 MHz

**Input return loss:** Typical: 6; Unit: dB

TA = +25 °C; VD1–VD4 = +1 V; VG1–VG4 = 0 V; IDtotal = 0.033 A

Product details Product datasheet



## LCI-LNA-17000-22000-NF1p3T

### 17000–22000 MHz GaAs MMIC Low-Noise Amplifier Die

Noise figure: 1.3 dB (typical); Small-signal gain: 26 dB (typical); Output 1 dB compression power: 4 dBm (typical). Die dimensions: 1.5 × 0.75 × 0.07 mm.

**Operating frequency:** Minimum: 17000; Maximum: 22000; Value: 17000–22000; Unit: MHz

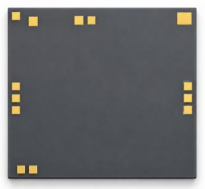
**Small-signal gain:** Typical: 26; Unit: dB

**Small-signal gain flatness:** Typical: ±0.5; Unit: dB

**Noise figure:** Typical: 1.3; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-PA-2700-3900-PS31T

### 2700–3900 MHz GaAs MMIC Power Amplifier Die

pulsed: PSAT: 30.5 dBm (minimum) / 31 dBm (typical); Power gain: 35.5 dB (minimum) / 36 dB (typical); PAE: 45 % (minimum) / 48 % (typical). Plan-view die dimensions: 2.5 × 2.262 mm.

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3900; Value: 2700–3900; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 30.5; Typical: 31; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 35.5; Typical: 36; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1.5; Unit: dB

TA = +25 °C; Vd = +8 V; Vg = -0.8 V; Pin = -5 dBm; τ = 100 µs; D = 10%; pulsed

Product details Product datasheet



## LCI-PA-2700-3900-PS34p5T

### 2700–3900 MHz GaAs MMIC Power Amplifier Die

pulsed: PSAT: 34 dBm (minimum) / 34.5 dBm (typical); Power gain: 29 dB (minimum) / 29.5 dB (typical); PAE: 47 % (minimum) / 49 % (typical). Plan-view die dimensions: 2.2 × 3.092 mm.

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3900; Value: 2700–3900; Unit: MHz

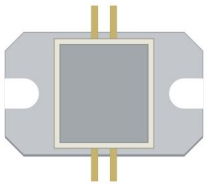
**Saturated output power:** Symbol: Psat; Minimum: 34; Typical: 34.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 29; Typical: 29.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +8 V; Vg = -0.7 V; Pin = 5 dBm; τ = 100 µs; D = 10%; pulsed

Product details Product datasheet



## LCI-PA-200-2200-PS41T

### 200–2200 MHz Metal-ceramic packaged GaN MMIC power amplifier

Saturated output power: 39.5 dBm (minimum) / 41 dBm (typical); Power gain: 23.5 dB (minimum) / 25 dB (typical); Power-added efficiency: 40 % (minimum) / 50 % (typical).

**Operating frequency:** Minimum: 200; Maximum: 2200; Value: 200–2200; Unit: MHz

**Saturated output power:** Minimum: 39.5; Typical: 41; Unit: dBm

**Power gain:** Minimum: 23.5; Typical: 25; Unit: dB

**Power-gain flatness:** Maximum: ±1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V; Pin = +16 dBm

Product details Product datasheet



## LCI-LNA-8000-12000-NF0p9T-SG28T

### 8000–12000 MHz QFN low-noise amplifier IC

Noise figure: 0.9 dB (typical); Small-signal gain: 28 dB (typical); Output 1 dB compression power: 10 dBm (typical). Package dimensions: 2.5 × 2.5 × 0.75 mm.

**Operating frequency:** Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

**Output 1 dB compression power:** Typical: 10; Unit: dBm

**Small-signal gain:** Typical: 28; Unit: dB

**Noise figure:** Typical: 0.9; Unit: dB

TA = +25 °C; Vd = +5 V; Pin = -35 dBm

Product details Product datasheet



## LCI-LNA-8000-12000-NF0p9T-SG28T-M

### 8000–12000 MHz QFN low-noise amplifier IC

Noise figure: 0.9 dB (typical); Small-signal gain: 28 dB (typical); Output 1 dB compression power: 10 dBm (typical). Package dimensions: 2.5 × 2.5 × 0.75 mm.

**Operating frequency:** Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

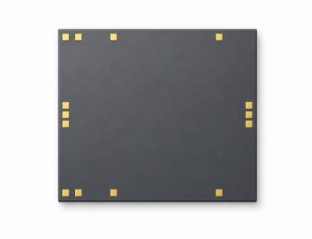
**Output 1 dB compression power:** Typical: 10; Unit: dBm

**Small-signal gain:** Typical: 28; Unit: dB

**Noise figure:** Typical: 0.9; Unit: dB

TA = +25 °C; Vd = +5 V; Pin = -35 dBm

Product details Product datasheet



## LCI-PA-6000-18000-PS42T

### 6000–18000 MHz GaN MMIC Power Amplifier Die

6000–18000 MHz; Saturated output power: 42 dBm (typical); Power gain: 17 dB (typical); Power-added efficiency: 20 % (typical); Die dimensions: 3.9 × 3.4 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 41.2; Typical: 42; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 16.2; Typical: 17; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V

Product details Product datasheet



## LCI-PA-8000-12000-PS29T

### 8000–12000 MHz GaN MMIC Power Amplifier Die

8000–12000 MHz; Saturated output power: 29 dBm (typical); Power gain: 14 dB (typical); Power-added efficiency: 15 % (typical); Die dimensions: 1.95 × 1.35 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Unit: MHz

**Power gain:** Symbol: Gp; Minimum: 13; Typical: 14; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.5; Unit: dB

**Saturated output power:** Symbol: Psat; Typical: 29; Unit: dBm

TA = +25 °C; Vd = +28 V

Product details Product datasheet



## LCI-PA-4000-8000-PS43p5T

### 4000–8000 MHz GaN MMIC Power Amplifier Die

4000–8000 MHz; PSAT 43.5 dBm (typical); Power gain 20.5 dB (typical); PAE 40% (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 8000; Unit: MHz

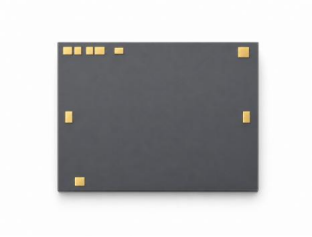
**Saturated output power:** Symbol: Psat; Minimum: 43; Typical: 43.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 20; Typical: 20.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V

Product details Product datasheet



## LCI-PA-2000-6000-PS40p5T

### 2000–6000 MHz GaN MMIC Power Amplifier Die

2000–6000 MHz; Saturated output power: 40.5 dBm (typical); Power gain: 22.5 dB (typical); Power-added efficiency: 38 % (typical); Die dimensions: 2.8 × 2.1 mm.

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Unit: MHz

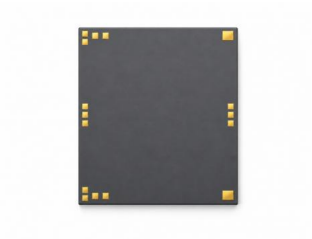
**Saturated output power:** Symbol: Psat; Minimum: 39.5; Typical: 40.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 21.5; Typical: 22.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.8; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.4 V; Pin = 18 dBm; CW

Product details Product datasheet



## LCI-PA-2000-6000-PS45p8T

### 2000–6000 MHz GaN MMIC Power Amplifier Die

2000–6000 MHz; Saturated output power: 45.8 dBm (typical); Power gain: 18.8 dB (typical); Power-added efficiency: 42 % (typical); Die dimensions: 3.17 × 3.58 mm.

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Unit: MHz

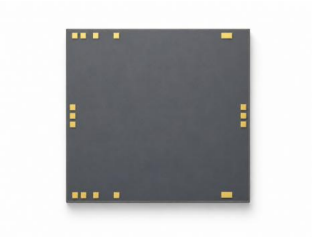
**Saturated output power:** Symbol: Psat; Minimum: 44.8; Typical: 45.8; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 17.8; Typical: 18.8; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1.8; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 27 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-4000-10000-PS45T

### 4000–10000 MHz GaN MMIC Power Amplifier Die

4000–10000 MHz; Saturated output power: 45 dBm (typical); Power gain: 17 dB (typical); Power-added efficiency: 30 % (typical); Die dimensions: 4.1 × 3.9 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 10000; Unit: MHz

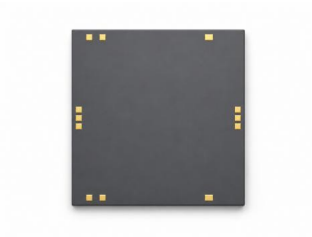
**Saturated output power:** Symbol: Psat; Minimum: 43.8; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 15.8; Typical: 17; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.8; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-2500-6200-PS45p5T

### 2500–6200 MHz GaN MMIC Power Amplifier Die

2500–6200 MHz; PSAT 45.5 dBm (typical); Power gain 17.5 dB (typical); PAE 40% (typical).

**Operating frequency:** Symbol: f; Minimum: 2500; Maximum: 6200; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 45; Typical: 45.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 17; Typical: 17.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-8500-10500-PS47p8T

### 8500–10500 MHz GaN MMIC Power Amplifier Die

8500–10500 MHz; Saturated output power: 47.8 dBm (typical); Power gain: 21.8 dB (typical); Power-added efficiency: 47 % (typical); Die dimensions: 4 × 5.1 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 8500; Maximum: 10500; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 47.8; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 21; Typical: 21.8; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-8000-12000-PS42T-D

### 8000–12000 MHz GaN MMIC Power Amplifier Die

8000–12000 MHz; Saturated output power: 42 dBm (typical); Power gain: 22 dB (typical); Power-added efficiency: 43 % (typical); Die dimensions: 3.04 × 1.91 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 41.2; Typical: 42; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 21.2; Typical: 22; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-2000-18000-PS40T

### 2000–18000 MHz GaN MMIC Power Amplifier Die

2000–18000 MHz; PSAT 40 dBm (typical); Power gain 12 dB (typical); PAE 20% (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 18000; Unit: MHz

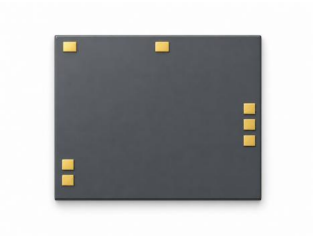
**Saturated output power:** Symbol: Psat; Typical: 40; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 12; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -1.8 V

Product details Product datasheet



## LCI-PA-6000-18000-PS33p5T

### 6000–18000 MHz GaN MMIC Power Amplifier Die

6000–18000 MHz; Saturated output power: 33.5 dBm (typical); Power gain: 12 dB (typical); Power-added efficiency: 20 % (typical); Die dimensions: 2.1 × 1.7 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 33; Typical: 33.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 11; Typical: 12; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2 V

Product details Product datasheet



## LCI-PA-2000-18000-PS35T

### 2000–18000 MHz GaN MMIC Power Amplifier Die

2000–18000 MHz; PSAT 35 dBm (typical); Power gain 7 dB (typical); PAE 20% (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 18000; Unit: MHz

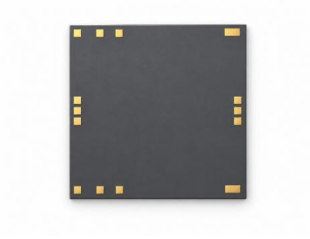
**Saturated output power:** Symbol: Psat; Typical: 35; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 7; Unit: dB

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

TA = +25 °C; Vd = +28 V; Vg = -2.5 V

Product details Product datasheet



## LCI-PA-9200-10400-PS46p2T

### 9200–10400 MHz GaN MMIC Power Amplifier Die

9200–10400 MHz; Saturated output power: 46.2 dBm (typical); Power gain: 24.2 dB (typical); Power-added efficiency: 50 % (typical); Die dimensions: 3 × 3.03 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 9200; Maximum: 10400; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 46; Typical: 46.2; Maximum: 46.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 24; Typical: 24.2; Maximum: 24.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-7500-10500-PS49T

### 7500–10500 MHz GaN MMIC Power Amplifier Die

7500–10500 MHz; Saturated output power: 49 dBm (typical); Power gain: 25 dB (typical); Power-added efficiency: 40 % (typical); Die dimensions: 3.7 × 6 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 7500; Maximum: 10500; Unit: MHz

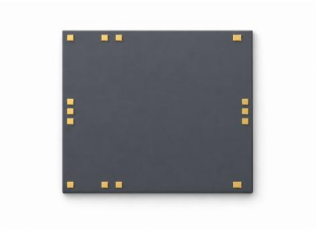
**Saturated output power:** Symbol: Psat; Minimum: 48.6; Typical: 49; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 24.6; Typical: 25; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-7000-13000-PS45T

### 7000–13000 MHz GaN MMIC Power Amplifier Die

7000–13000 MHz; Saturated output power: 45 dBm (typical); Power gain: 22 dB (typical); Power-added efficiency: 40 % (typical); Die dimensions: 3.5 × 3.2 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 7000; Maximum: 13000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 44; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 21; Typical: 22; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-6000-18000-PS45T

### 6000–18000 MHz GaN MMIC Power Amplifier Die

6000–18000 MHz; Saturated output power: 45 dBm (typical); Power gain: 20 dB (typical); Power-added efficiency: 23 % (typical); Die dimensions: 4.52 × 5.82 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 44.5; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 19.5; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V

Product details Product datasheet



## LCI-PA-5000-6000-PS49p5T

### 5000–6000 MHz GaN MMIC Power Amplifier Die

5000–6000 MHz; Saturated output power: 49.5 dBm (typical); Power gain: 26.5 dB (typical); Power-added efficiency: 50 % (typical); Die dimensions: 3.5 × 5.8 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 6000; Unit: MHz

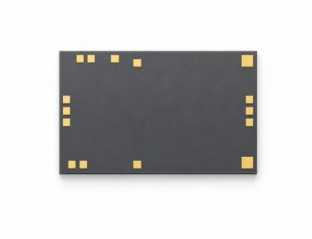
**Saturated output power:** Symbol: Psat; Minimum: 49; Typical: 49.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 26; Typical: 26.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.2; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-6000-18000-PS40T

### 6000–18000 MHz GaN MMIC Power Amplifier Die

6000–18000 MHz; Saturated output power: 40 dBm (typical); Power gain: 19 dB (typical); Power-added efficiency: 23 % (typical); Die dimensions: 3 × 1.8 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Unit: MHz

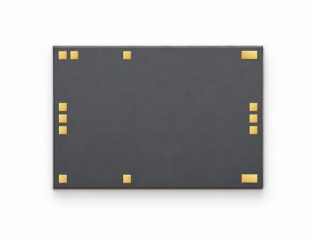
**Saturated output power:** Symbol: Psat; Minimum: 39; Typical: 40; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 18; Typical: 19; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.8; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V; Pin = 21 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-10000-18000-PS41T

### 10000–18000 MHz GaN MMIC Power Amplifier Die

10000–18000 MHz; Saturated output power: 41 dBm (typical); Power gain: 19 dB (typical); Power-added efficiency: 30 % (typical); Die dimensions: 3.2 × 2.25 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 10000; Maximum: 18000; Unit: MHz

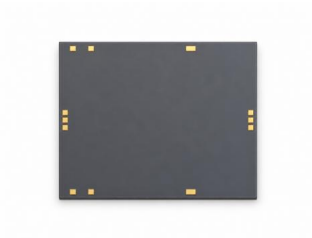
**Saturated output power:** Symbol: Psat; Minimum: 40.9; Typical: 41; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 18.9; Typical: 19; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-950-1250-PS47p5T

### 950–1250 MHz GaN MMIC Power Amplifier Die

950–1250 MHz; Saturated output power: 47.5 dBm (typical); Power gain: 22.5 dB (typical); Power-added efficiency: 60 % (typical); Die dimensions: 4.35 × 3.43 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 950; Maximum: 1250; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 47.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 22; Typical: 22.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-5000-6000-PS47p5T

### 5000–6000 MHz GaN MMIC Power Amplifier Die

5000–6000 MHz; Saturated output power: 47.5 dBm (typical); Power gain: 24.5 dB (typical); Power-added efficiency: 53 % (typical); Die dimensions: 3.1 × 3.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 6000; Unit: MHz

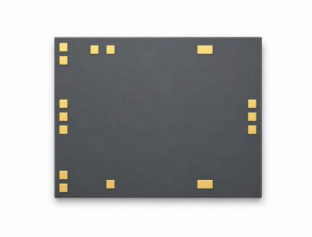
**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 47.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 24; Typical: 24.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.4; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-8000-12000-PS43p5T

### 8000–12000 MHz GaN MMIC Power Amplifier Die

8000–12000 MHz; Saturated output power: 43.5 dBm (typical); Power gain: 22.5 dB (typical); Power-added efficiency: 45 % (typical); Die dimensions: 2.7 × 2.08 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 43; Typical: 43.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 22; Typical: 22.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-8000-12000-PS39T-D

### 8000–12000 MHz GaN MMIC Power Amplifier Die

8000–12000 MHz; Saturated output power: 39 dBm (typical); Power gain: 18 dB (typical); Power-added efficiency: 43 % (typical); Die dimensions: 2.3 × 1.15 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 38; Typical: 39; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 17; Typical: 18; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.7; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-8500-10500-PS52T

### 8500–10500 MHz GaN MMIC Power Amplifier Die

8500–10500 MHz; Saturated output power: 52 dBm (typical); Power gain: 24 dB (typical); Power-added efficiency: 45 % (typical); Die dimensions: 3.9 × 6.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8500; Maximum: 10500; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 52; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 24; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +48 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-4000-8000-PS47p5T

### 4000–8000 MHz GaN MMIC Power Amplifier Die

4000–8000 MHz; PSAT 47.5 dBm (typical); Power gain 17.5 dB (typical); PAE 40% (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 8000; Unit: MHz

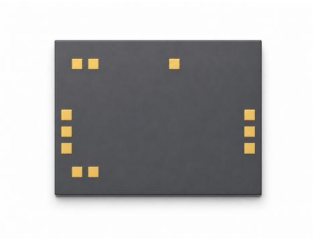
**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 47.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 17; Typical: 17.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.8; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-4000-8000-PS37T

### 4000–8000 MHz GaN MMIC Power Amplifier Die

4000–8000 MHz; PSAT 37 dBm (typical); Power gain 20 dB (typical); PAE 35% (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 8000; Unit: MHz

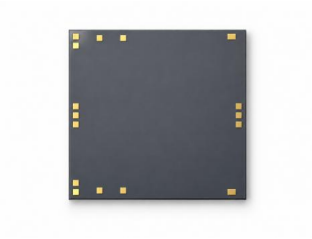
**Saturated output power:** Symbol: Psat; Minimum: 36.5; Typical: 37; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 19.5; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.4 V

Product details Product datasheet



## LCI-PA-8000-12000-PS47T

### 8000–12000 MHz GaN MMIC Power Amplifier Die

8000–12000 MHz; Saturated output power: 47 dBm (typical); Power gain: 25 dB (typical); Power-added efficiency: 45 % (typical); Die dimensions: 3.5 × 3.6 × 0.1 mm. RF test conditions: Vd = +28 V; Vg = -2.6 V.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Unit: MHz

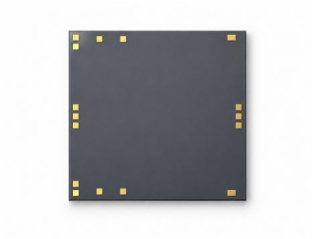
**Saturated output power:** Symbol: Psat; Minimum: 46.5; Typical: 47; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 24.5; Typical: 25; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-8000-12000-PS47T-B

### 8000–12000 MHz GaN MMIC Power Amplifier Die

8000–12000 MHz; Saturated output power: 47 dBm (typical); Power gain: 25 dB (typical); Power-added efficiency: 45 % (typical); Die dimensions: 3.5 × 3.6 × 0.1 mm. RF test conditions: Vd = +28 V; Vg = -1.8 V.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Unit: MHz

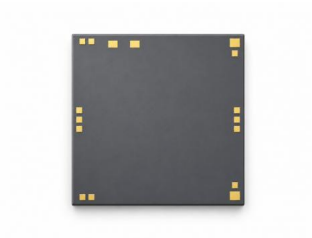
**Saturated output power:** Symbol: Psat; Minimum: 46.5; Typical: 47; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 24.5; Typical: 25; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -1.8 V

Product details Product datasheet



## LCI-PA-3600-5000-PS44p5T

### 3600–5000 MHz GaN MMIC Power Amplifier Die

3600–5000 MHz; PSAT 44.5 dBm (typical); Power gain 23.5 dB (typical); PAE 43% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 3600; Maximum: 5000; Unit: MHz

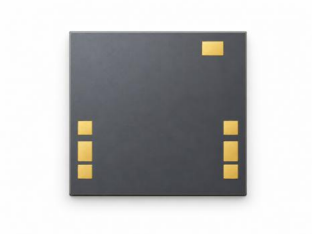
**Saturated output power:** Symbol: Psat; Minimum: 44; Typical: 44.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 23; Typical: 23.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 21 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-5000-13000-PS25T

### 5000–13000 MHz GaN MMIC Power Amplifier Die

5000–13000 MHz; Saturated output power: 25 dBm (typical); Power gain: 10 dB (typical); Die dimensions: 1.3 × 1.25 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 13000; Unit: MHz

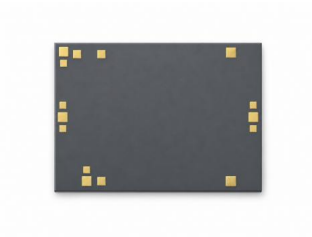
**Saturated output power:** Symbol: Psat; Typical: 25; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 10; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Pin = 15 dBm; °CW

Product details Product datasheet



## LCI-PA-5000-13000-PS42T

### 5000–13000 MHz GaN MMIC Power Amplifier Die

5000–13000 MHz; Saturated output power: 42 dBm (typical); Power gain: 20 dB (typical); Power-added efficiency: 35 % (typical); Die dimensions: 3.1 × 2.26 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 13000; Unit: MHz

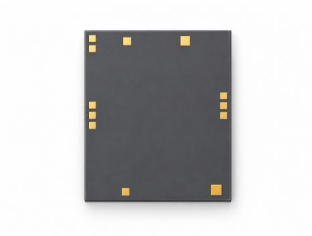
**Saturated output power:** Symbol: Psat; Typical: 42; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-4200-7000-PS42T

### 4200–7000 MHz GaN MMIC Power Amplifier Die

4200–7000 MHz; PSAT 42 dBm (typical); Power gain 22 dB (typical); PAE 45% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 4200; Maximum: 7000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 41.8; Typical: 42; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 21.8; Typical: 22; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 20 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2000-6000-PS45p5T

### 2000–6000 MHz GaN MMIC Power Amplifier Die

2000–6000 MHz; PSAT 45.5 dBm (typical); Power gain 20.5 dB (typical); PAE 35% (typical); CW; Vd = +24 V.

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Unit: MHz

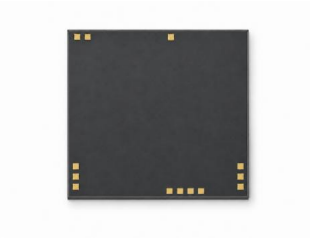
**Saturated output power:** Symbol: Psat; Minimum: 45; Typical: 45.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 20; Typical: 20.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1.5; Unit: dB

TA = +25 °C; Vd = +24 V; Vg = -2.4 V; Pin = 25 dBm; CW

Product details Product datasheet



## LCI-PA-200-2200-PS41p5T

### 200–2200 MHz GaN MMIC Power Amplifier Die

GaN-on-SiC power amplifier die for 200–2200 MHz, with 41.5 dBm typical saturated output, 25.5 dB typical power gain and a 3.00 × 3.00 × 0.10 mm outline.

**Operating frequency:** Symbol: f; Minimum: 200; Maximum: 2200; Unit: MHz

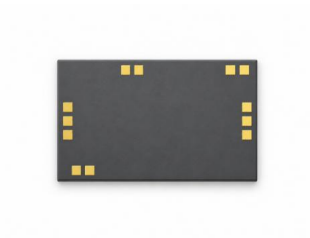
**Saturated output power:** Symbol: Psat; Minimum: 41.0; Typical: 41.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 25.0; Typical: 25.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.0; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = −2.6 V

Product details Product datasheet



## LCI-PA-3400-5600-PS40T

### 3400–5600 MHz GaN MMIC Power Amplifier Die

3400–5600 MHz; PSAT 40 dBm (typical); Power gain 17 dB (typical); PAE 46% (typical); CW.

**Operating frequency:** Symbol: f; Minimum: 3400; Maximum: 5600; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 39; Typical: 40; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 16; Typical: 17; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 23 dBm; CW

Product details Product datasheet



## LCI-PA-5800-6800-PS47T

### 5800–6800 MHz GaN MMIC Power Amplifier Die

5800–6800 MHz; Saturated output power: 47 dBm (typical); Power gain: 21 dB (typical); Power-added efficiency: 46 % (typical); Die dimensions: 3.5 × 5.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 5800; Maximum: 6800; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 47; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 21; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-2700-3500-PS45p5T-D

### 2700–3500 MHz GaN MMIC Power Amplifier Die

2700–3500 MHz; PSAT 45.5 dBm (typical); Power gain 25.5 dB (typical); PAE 58% (typical); CW.

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3500; Unit: MHz

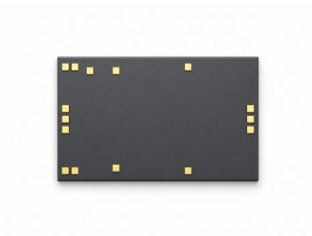
**Saturated output power:** Symbol: Psat; Minimum: 45; Typical: 45.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 25; Typical: 25.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 20 dBm; CW

Product details Product datasheet



## LCI-PA-6700-7400-PS41T

### 6700–7400 MHz GaN MMIC Power Amplifier Die

6700–7400 MHz; Saturated output power: 41 dBm (typical); Power gain: 22 dB (typical); Power-added efficiency: 55 % (typical); Die dimensions: 3.2 × 2 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 6700; Maximum: 7400; Unit: MHz

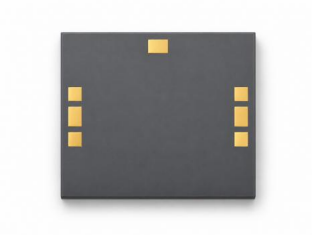
**Saturated output power:** Symbol: Psat; Typical: 41; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 22; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-6000-18000-PS27T

### 6000–18000 MHz GaN MMIC Power Amplifier Die

6000–18000 MHz; Saturated output power: 27 dBm (typical); Power gain: 9 dB (typical); Die dimensions: 1.5 × 1.3 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Unit: MHz

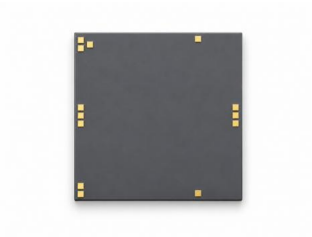
**Saturated output power:** Symbol: Psat; Minimum: 26; Typical: 27; Maximum: 29; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 8; Typical: 9; Maximum: 11; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.5; Unit: dB

TA = +25 °C; Vd = +28 V; Pin = 18 dBm; °CW

Product details Product datasheet



## LCI-PA-2000-8000-PS42T

### 2000–8000 MHz GaN MMIC Power Amplifier Die

2000–8000 MHz; PSAT 42 dBm (typical); Power gain 15 dB (typical); PAE 30% (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 8000; Unit: MHz

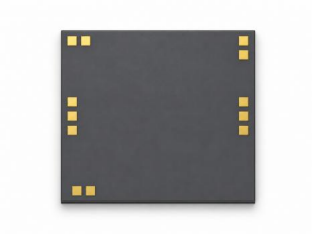
**Saturated output power:** Symbol: Psat; Minimum: 41; Typical: 42; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 14; Typical: 15; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V

Product details Product datasheet



## LCI-PA-2500-3700-PS41p5T

### 2500–3700 MHz GaN MMIC Power Amplifier Die

2500–3700 MHz; PSAT 41.5 dBm (typical); Power gain 22.5 dB (typical); PAE 50% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 2500; Maximum: 3700; Unit: MHz

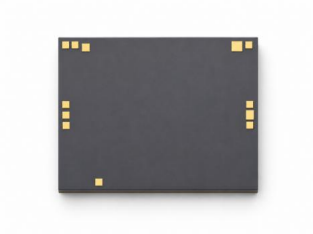
**Saturated output power:** Symbol: Psat; Minimum: 41; Typical: 41.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 22; Typical: 22.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 19 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2600-3300-PS45p5T

### 2600–3300 MHz GaN MMIC Power Amplifier Die

2600–3300 MHz; PSAT 45.5 dBm (typical); Power gain 25.5 dB (typical); PAE 60% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 2600; Maximum: 3300; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 45; Typical: 45.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 25; Typical: 25.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 20 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2400-3800-PS46p5T

### 2400–3800 MHz GaN MMIC Power Amplifier Die

2400–3800 MHz; PSAT 46.5 dBm (typical); Power gain 27.5 dB (typical); PAE 56% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 2400; Maximum: 3800; Unit: MHz

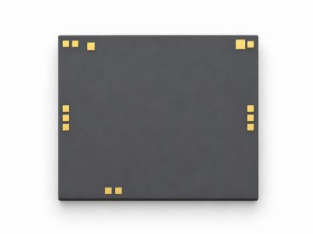
**Saturated output power:** Symbol: Psat; Minimum: 46; Typical: 46.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 27; Typical: 27.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 19 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2500-4000-PS47T

### 2500–4000 MHz GaN MMIC Power Amplifier Die

2500–4000 MHz; PSAT 47 dBm (typical); Power gain 26 dB (typical); PAE 52% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 2500; Maximum: 4000; Unit: MHz

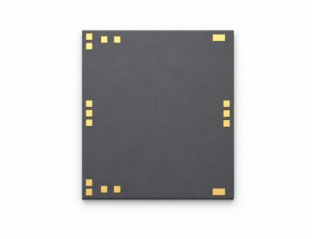
**Saturated output power:** Symbol: Psat; Minimum: 46.2; Typical: 47; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 25.2; Typical: 26; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.3 V; Pin = 21 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-8000-9400-PS45T

### 8000–9400 MHz GaN MMIC Power Amplifier Die

8000–9400 MHz; Saturated output power: 45 dBm (typical); Power gain: 31 dB (typical); Power-added efficiency: 52 % (typical); Die dimensions: 3 × 3.2 × 0.1 mm. RF test conditions: Vd = +28 V; Vg = -2.8 V.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 9400; Unit: MHz

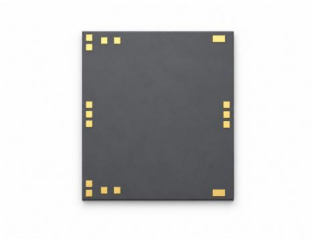
**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 31; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-8000-9400-PS45T-A

### 8000–9400 MHz GaN MMIC Power Amplifier Die

8000–9400 MHz; Saturated output power: 45 dBm (typical); Power gain: 31 dB (typical); Power-added efficiency: 52 % (typical); Die dimensions: 3 × 3.2 × 0.1 mm. RF test conditions: Vd = +28 V; Vg = -1.8 V.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 9400; Unit: MHz

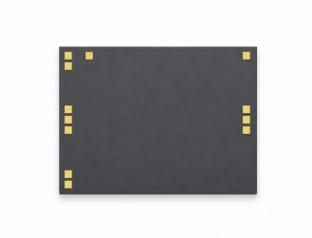
**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 31; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -1.8 V

Product details Product datasheet



## LCI-PA-1200-1600-PS43p5T

### 1200–1600 MHz GaN MMIC Power Amplifier Die

1200–1600 MHz; Saturated output power: 43.5 dBm (typical); Power gain: 17 dB (typical); Power-added efficiency: 60 % (typical); Die dimensions: 2.7 × 2 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 1200; Maximum: 1600; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 43.5; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 17; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-8000-18000-PS46p5T

### 8000–18000 MHz GaN MMIC Power Amplifier Die

8000–18000 MHz; Saturated output power: 46.5 dBm (typical); Power gain: 18 dB (typical); Power-added efficiency: 28 % (typical); Die dimensions: 4 × 5.6 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 18000; Unit: MHz

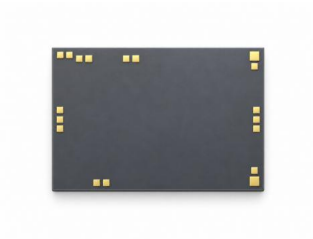
**Saturated output power:** Symbol: Psat; Minimum: 46; Typical: 46.5; Maximum: 47.5; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 18; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V

Product details Product datasheet



## LCI-PA-4400-6500-PS44T

### 4400–6500 MHz GaN MMIC Power Amplifier Die

4400–6500 MHz; Saturated output power: 44 dBm (typical); Power gain: 27 dB (typical); Power-added efficiency: 47 % (typical); Die dimensions: 3.51 × 2.44 mm.

**Operating frequency:** Symbol: f; Minimum: 4400; Maximum: 6500; Unit: MHz

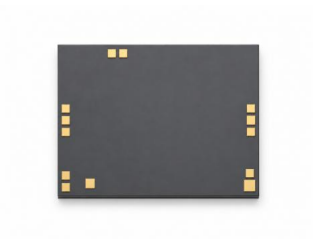
**Saturated output power:** Symbol: Psat; Minimum: 43.5; Typical: 44; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 26.5; Typical: 27; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 17 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2700-3500-PS43p5T

### 2700–3500 MHz GaN MMIC Power Amplifier Die

2700–3500 MHz; PSAT 43.5 dBm (typical); Power gain 26.5 dB (typical); PAE 61% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3500; Unit: MHz

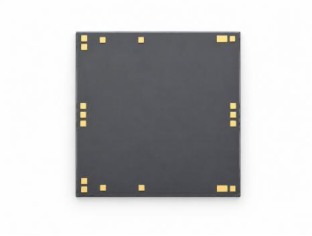
**Saturated output power:** Symbol: Psat; Minimum: 43; Typical: 43.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 26; Typical: 26.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 0.6; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 17 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-10800-13000-PS45T

### 10800–13000 MHz GaN MMIC Power Amplifier Die

10800–13000 MHz; Saturated output power: 45 dBm (typical); Power gain: 21 dB (typical); Power-added efficiency: 38 % (typical); Die dimensions: 3.4 × 3.52 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 10800; Maximum: 13000; Unit: MHz

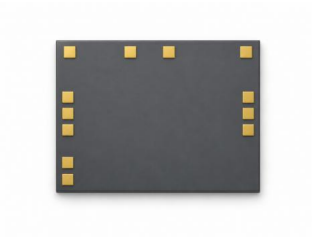
**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 21; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-9000-11000-PS37T

### 9000–11000 MHz GaN MMIC Power Amplifier Die

9000–11000 MHz; Saturated output power: 37 dBm (typical); Power gain: 22 dB (typical); Power-added efficiency: 38 % (typical); Die dimensions: 2.04 × 1.54 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 9000; Maximum: 11000; Unit: MHz

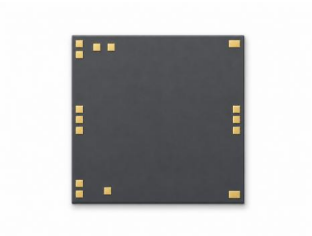
**Saturated output power:** Symbol: Psat; Typical: 37; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 22; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.2; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V

Product details Product datasheet



## LCI-PA-8000-8400-PS45T

### 8000–8400 MHz GaN MMIC Power Amplifier Die

8000–8400 MHz; Saturated output power: 45 dBm (typical); Power gain: 23 dB (typical); Power-added efficiency: 55 % (typical); Die dimensions: 2.9 × 2.8 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 8400; Unit: MHz

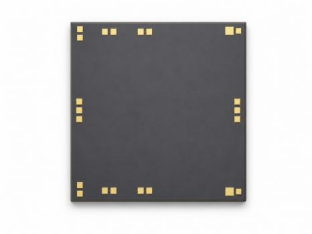
**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 23; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -3 V

Product details Product datasheet



## LCI-PA-3700-5000-PS45p2T

### 3700–5000 MHz GaN MMIC Power Amplifier Die

3700–5000 MHz; PSAT 45.2 dBm (typical); Power gain 27 dB (typical); PAE 48% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 3700; Maximum: 5000; Unit: MHz

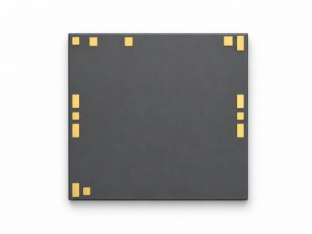
**Saturated output power:** Symbol: Psat; Minimum: 45; Typical: 45.2; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 26.8; Typical: 27; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 18 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2000-6000-PS43T-D

### 2000–6000 MHz GaN MMIC Power Amplifier Die

2000–6000 MHz; Saturated output power: 43 dBm (typical); Power gain: 26.5 dB (typical); Power-added efficiency: 50 % (typical); Die dimensions: 3.1 × 2.9 mm.

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Unit: MHz

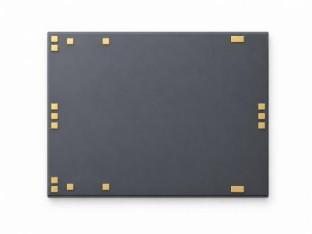
**Saturated output power:** Symbol: Psat; Minimum: 42.5; Typical: 43; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 25.5; Typical: 26.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 0.6; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.4 V; Pin = 17 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-6000-18000-PS44T

### 6000–18000 MHz GaN MMIC Power Amplifier Die

6000–18000 MHz; Saturated output power: 44 dBm (typical); Power gain: 20 dB (typical); Power-added efficiency: 30 % (typical); Die dimensions: 4 × 3.3 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 44; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V

Product details Product datasheet



## LCI-PA-8000-18000-PS44T

### 8000–18000 MHz GaN MMIC Power Amplifier Die

8000–18000 MHz; Saturated output power: 44 dBm (typical); Power gain: 19 dB (typical); Power-added efficiency: 30 % (typical); Die dimensions: 3.5 × 4 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 18000; Unit: MHz

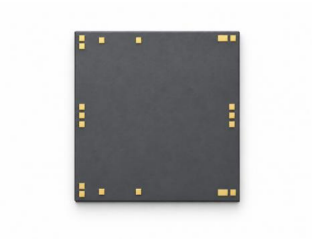
**Saturated output power:** Symbol: Psat; Typical: 44; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 19; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.2 V

Product details Product datasheet



## LCI-PA-10000-13000-PS45T

### 10000–13000 MHz GaN MMIC Power Amplifier Die

10000–13000 MHz; Saturated output power: 45 dBm (typical); Power gain: 20 dB (typical); Power-added efficiency: 40 % (typical); Die dimensions: 3.3 × 3.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 10000; Maximum: 13000; Unit: MHz

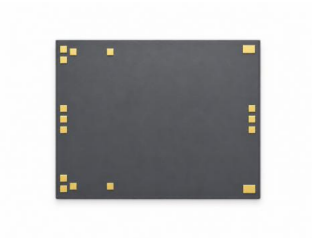
**Saturated output power:** Symbol: Psat; Typical: 45; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-8000-18000-PS43p5T

### 8000–18000 MHz GaN MMIC Power Amplifier Die

8000–18000 MHz; Saturated output power: 43.5 dBm (typical); Power gain: 19.5 dB (typical); Power-added efficiency: 30 % (typical); Die dimensions: 3.2 × 2.5 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 18000; Unit: MHz

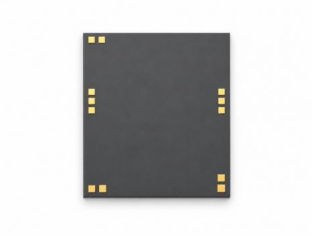
**Saturated output power:** Symbol: Psat; Typical: 43.5; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 19.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.4 V

Product details Product datasheet



## LCI-PA-2000-2800-PS41T

### 2000–2800 MHz GaN MMIC Power Amplifier Die

2000–2800 MHz; Saturated output power: 41 dBm (typical); Power gain: 24 dB (typical); Power-added efficiency: 56 % (typical); Die dimensions: 2.4 × 2.7 mm.

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 2800; Unit: MHz

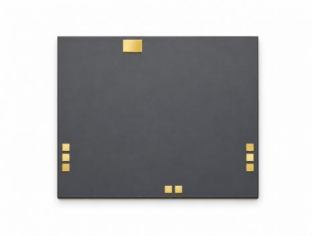
**Saturated output power:** Symbol: Psat; Minimum: 40.7; Typical: 41; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 23.7; Typical: 24; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: 1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V; Pin = 17 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-300-6000-PS40p8T

### 300–6000 MHz GaN MMIC Power Amplifier Die

300–6000 MHz; Saturated output power: 40.8 dBm (typical); Power gain: 12.8 dB (typical); Power-added efficiency: 40 % (typical); Die dimensions: 2.95 × 2.4 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 300; Maximum: 6000; Unit: MHz

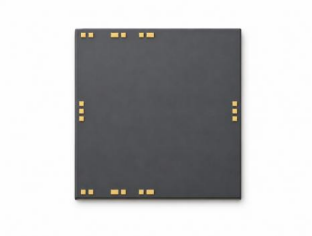
**Saturated output power:** Symbol: Psat; Minimum: 40; Typical: 40.8; Maximum: 41.6; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 12; Typical: 12.8; Maximum: 13.6; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±0.8; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.4 V

Product details Product datasheet



## LCI-PA-2000-18500-PS43T

### 2000–18500 MHz GaN MMIC Power Amplifier Die

2000–18500 MHz; PSAT 43 dBm (typical); Power gain 13 dB (typical); PAE 20% (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 18500; Unit: MHz

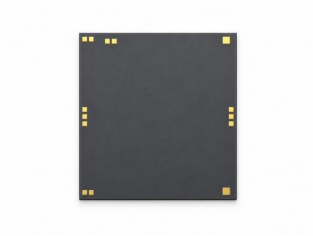
**Saturated output power:** Symbol: Psat; Typical: 43; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 13; Unit: dB

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

TA = +25 °C; Vd = +28 V; Vg = -2 V

Product details Product datasheet



## LCI-PA-1950-4050-PS46p5T

### 1950–4050 MHz GaN MMIC Power Amplifier Die

1950–4050 MHz; Saturated output power: 46.5 dBm (typical); Power gain: 24.5 dB (typical); Power-added efficiency: 52 % (typical); Die dimensions: 3.56 × 3.78 mm.

**Operating frequency:** Symbol: f; Minimum: 1950; Maximum: 4050; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 46; Typical: 46.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 24; Typical: 24.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V; Pin = 22 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-300-6000-PS30T

### 300–6000 MHz GaN MMIC Power Amplifier Die

300–6000 MHz; Saturated output power: 30 dBm (typical); Power gain: 15 dB (typical); Power-added efficiency: 15 % (typical); Die dimensions: 2.15 × 2.46 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 300; Maximum: 6000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 28; Typical: 30; Maximum: 32.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 13; Typical: 15; Maximum: 17.5; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Typical: ±2.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-2700-3900-PS48T

### 2700–3900 MHz GaN MMIC Power Amplifier Die

2700–3900 MHz; PSAT 48 dBm (typical); Power gain 24 dB (typical); PAE 56% (typical); τ = 100 µs; D = 10%.

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3900; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 47.6; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 23.6; Typical: 24; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.6; Unit: dB

Vd = +28 V; Vg = -2.7 V; Pin = 24 dBm; τ = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-10000-13000-PS30p5T

### 10000–13000 MHz GaN MMIC Power Amplifier Die

10000–13000 MHz; Saturated output power: 30.5 dBm (typical); Power gain: 30 dB (typical); Power-added efficiency: 22 % (typical); Die dimensions: 2.22 × 1.16 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 10000; Maximum: 13000; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 30; Typical: 30.5; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 30; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.4 V

Product details Product datasheet



## LCI-PA-10000-13000-PS48T

### 10000–13000 MHz GaN MMIC Power Amplifier Die

10000–13000 MHz; Saturated output power: 48 dBm (typical); Power gain: 20 dB (typical); Power-added efficiency: 37 % (typical); Die dimensions: 3.4 × 5.74 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 10000; Maximum: 13000; Unit: MHz

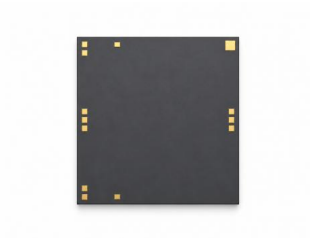
**Saturated output power:** Symbol: Psat; Minimum: 47; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 19; Typical: 20; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1; Unit: dB

TA = +25 °C; Vd = +28 V; Id = 2.2 A

Product details Product datasheet



## LCI-PA-1200-2400-PS45T

### 1200–2400 MHz GaN MMIC Power Amplifier Die

1200–2400 MHz; Saturated output power: 45 dBm (typical); Power gain: 25 dB (typical); Power-added efficiency: 53 % (typical); Die dimensions: 3.1 × 3.2 × 0.08 mm.

**Operating frequency:** Symbol: f; Minimum: 1200; Maximum: 2400; Unit: MHz

**Saturated output power:** Symbol: Psat; Minimum: 44.5; Typical: 45; Maximum: 45.5; Unit: dBm

**Power gain:** Symbol: Gp; Minimum: 24.5; Typical: 25; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-6000-12000-PS48T

### 6000–12000 MHz GaN MMIC Power Amplifier Die

6000–12000 MHz; Saturated output power: 48 dBm (typical); Power gain: 24 dB (typical); Power-added efficiency: 40 % (typical); Die dimensions: 3.85 × 5.82 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 12000; Unit: MHz

**Saturated output power:** Symbol: Psat; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 24; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-PA-7000-13000-PS48T

### 7000–13000 MHz GaN MMIC Power Amplifier Die

7000–13000 MHz; Saturated output power: 48 dBm (typical); Power gain: 24 dB (typical); Power-added efficiency: 40 % (typical); Die dimensions: 3.83 × 5.82 × 0.1 mm.

**Operating frequency:** Symbol: f; Minimum: 7000; Maximum: 13000; Unit: MHz

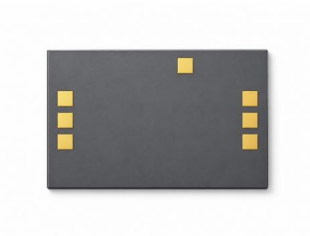
**Saturated output power:** Symbol: Psat; Typical: 48; Unit: dBm

**Power gain:** Symbol: Gp; Typical: 24; Unit: dB

**Power-gain flatness:** Symbol: ΔGp; Maximum: ±1; Unit: dB

TA = +25 °C; Vd = +28 V; Vg = -2.6 V

Product details Product datasheet



## LCI-LNA-5000-6000-NF0p6T

### 5000–6000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.6 dB (typical)

5000–6000 MHz; NF 0.6 dB (typical); Small-signal gain 28 dB (typical); P1dB 6 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 6000; Value: 5000–6000; Unit: MHz

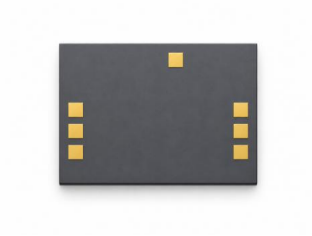
**Output 1 dB compression power:** Symbol: P1dB; Typical: 6; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 28; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Maximum: ±0.5; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-7000-13000-NF0p9T

### 7000–13000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.9 dB (typical)

7000–13000 MHz; NF 0.9 dB (typical); Small-signal gain 22 dB (typical); P1dB 14 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 7000; Maximum: 13000; Value: 7000–13000; Unit: MHz

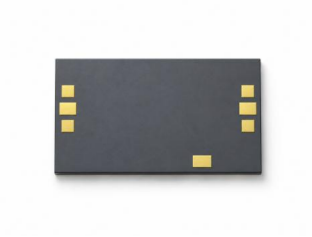
**Output 1 dB compression power:** Symbol: P1dB; Typical: 14; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 22; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Maximum: ±0.4; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-7000-13000-NF1T

### 7000–13000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 1 dB (typical)

7000–13000 MHz; NF 1 dB (typical); Small-signal gain ≥ 28 dB; P1dB 6 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 7000; Maximum: 13000; Value: 7000–13000; Unit: MHz

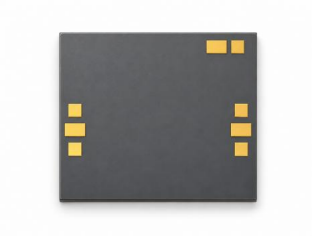
**Output 1 dB compression power:** Symbol: P1dB; Typical: 6; Unit: dBm

**Small-signal gain:** Symbol: Gain; Minimum: 28; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±2; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-2000-6000-NF0p8T

### 2000–6000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.8 dB (typical)

2000–6000 MHz; NF 0.8 dB (typical); Small-signal gain ≥ 29 dB; P1dB 10 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Value: 2000–6000; Unit: MHz

**Output 1 dB compression power:** Symbol: P1dB; Typical: 10; Unit: dBm

**Small-signal gain:** Symbol: Gain; Minimum: 29; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±0.2; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-6000-18000-NF1p2T

### 6000–18000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 1.2 dB (typical)

6000–18000 MHz; NF 1.2 dB (typical); Small-signal gain 22 dB (typical); P1dB 8 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Value: 6000–18000; Unit: MHz

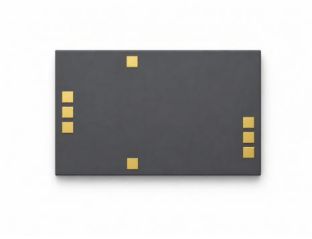
**Output 1 dB compression power:** Symbol: P1dB; Typical: 8; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 22; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±2; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-24000-40000-NF2p5T

### 24000–40000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 2.5 dB (typical)

24000–40000 MHz; NF 2.5 dB (typical); Small-signal gain 23 dB (typical); P1dB ≥ 11 dBm.

**Operating frequency:** Symbol: f; Minimum: 24000; Maximum: 40000; Value: 24000–40000; Unit: MHz

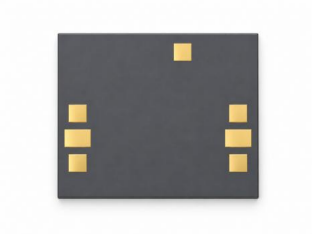
**Output 1 dB compression power:** Symbol: P1dB; Minimum: 11; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 23; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±1; Unit: dB

TA = +25 °C; Vd = +5 V; Vg = 0 V

Product details Product datasheet



## LCI-LNA-8000-12000-NF0p7T-SG26T

### 8000–12000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.7 dB (typical)

8000–12000 MHz; NF 0.7 dB (typical); Small-signal gain 26 dB (typical); P1dB 8 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

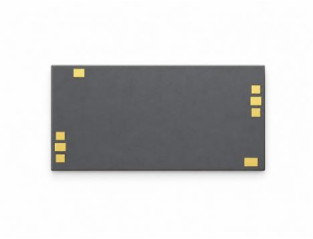
**Output 1 dB compression power:** Symbol: P1dB; Minimum: 7; Typical: 8; Unit: dBm

**Small-signal gain:** Symbol: Gain; Minimum: 25; Typical: 26; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Maximum: ±1; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-2000-20000-NF2T

### 2000–20000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 2 dB (typical)

2000–20000 MHz; NF 2 dB (typical); Small-signal gain 17 dB (typical); P1dB 14 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 20000; Value: 2000–20000; Unit: MHz

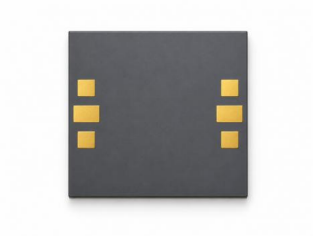
**Output 1 dB compression power:** Symbol: P1dB; Typical: 14; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 17; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +5 V; Vg = 0 V

Product details Product datasheet



## LCI-LNA-100-2000-NF1p1T

### 100–2000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 1.1 dB (typical)

100–2000 MHz; NF 1.1 dB (typical); Small-signal gain 17.5 dB (typical); P1dB 19.5 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 100; Maximum: 2000; Value: 100–2000; Unit: MHz

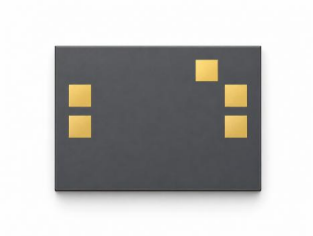
**Output 1 dB compression power:** Symbol: P1dB; Typical: 19.5; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 17.5; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±1; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-800-2000-NF0p45T

### 800–2000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.45 dB (typical)

800–2000 MHz; NF 0.45 dB (typical); Small-signal gain 23 dB (typical); P1dB 20.5 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 800; Maximum: 2000; Value: 800–2000; Unit: MHz

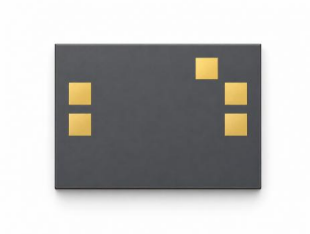
**Output 1 dB compression power:** Symbol: P1dB; Typical: 20.5; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 22; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 23; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-200-600-NF0p4T

### 200–600 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.4 dB (typical)

200–600 MHz; NF 0.4 dB (typical); Small-signal gain 28 dB (typical); P1dB 21 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 200; Maximum: 600; Value: 200–600; Unit: MHz

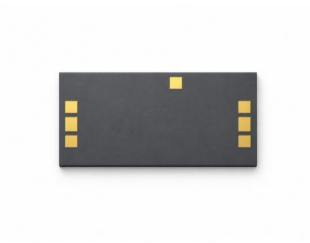
**Output 1 dB compression power:** Symbol: P1dB; Typical: 21; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 22.5; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 28; Unit: dB

TA = +25 °C; Vd = +5 V

Product details  Product datasheet



## LCI-LNA-2000-5000-NF0p45T-P1DB14T

### 2000–5000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.45 dB (typical); P1dB 14 dBm (typical)

2000–5000 MHz; NF 0.45 dB (typical); Small-signal gain 30 dB (typical); P1dB 14 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 5000; Value: 2000–5000; Unit: MHz

**Output 1 dB compression power:** Symbol: P1dB; Typical: 14; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 15; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 30; Unit: dB

TA = +25 °C; Vd = +5 V

Product details  Product datasheet



## LCI-LNA-7000-9000-NF0p6U

### 7000–9000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.6 dB

7000–9000 MHz; NF 0.6 dB; Small-signal gain 31 dB (typical); P1dB 15 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 7000; Maximum: 9000; Value: 7000–9000; Unit: MHz

**Output 1 dB compression power:** Symbol: P1dB; Typical: 15; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 31; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +5 V

Product details  Product datasheet



## LCI-LNA-6000-20000-NF1p2T

### 6000–20000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 1.2 dB (typical)

6000–20000 MHz; NF 1.2 dB (typical); Small-signal gain 26 dB (typical); P1dB -2 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 20000; Value: 6000–20000; Unit: MHz

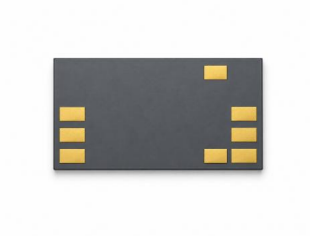
**Output 1 dB compression power:** Symbol: P1dB; Minimum: -4; Typical: -2; Maximum: 0; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 26; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±1; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-4000-12000-NF0p6T

### 4000–12000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.6 dB (typical)

4000–12000 MHz; NF 0.6 dB (typical); Small-signal gain 34.5 dB (typical); P1dB 7 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 12000; Value: 4000–12000; Unit: MHz

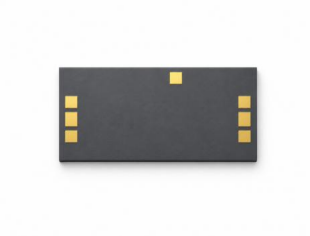
**Output 1 dB compression power:** Symbol: P1dB; Minimum: 6.5; Typical: 7; Maximum: 8.5; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 34.5; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±0.2; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-2000-5000-NF0p45T-P1DB11T

### 2000–5000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 0.45 dB (typical); P1dB 11 dBm (typical)

2000–5000 MHz; NF 0.45 dB (typical); Small-signal gain 30 dB (typical); P1dB 11 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 5000; Value: 2000–5000; Unit: MHz

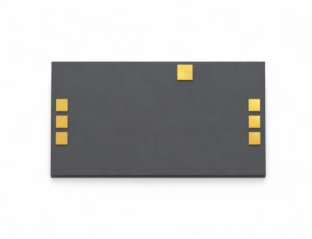
**Output 1 dB compression power:** Symbol: P1dB; Typical: 11; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 12; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 30; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-LNA-32000-52000-NF1p8T

### 32000–52000 MHz GaAs MMIC Low-Noise Amplifier Die — NF 1.8 dB (typical)

32000–52000 MHz; NF 1.8 dB (typical); Small-signal gain 26 dB (typical); P1dB 5 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 32000; Maximum: 52000; Value: 32000–52000; Unit: MHz

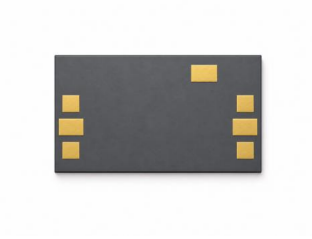
**Output 1 dB compression power:** Symbol: P1dB; Typical: 5; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 26; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±1; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-8000-12000-P1DB16T

### 8000–12000 MHz GaAs MMIC Amplifier Die — P1dB 16 dBm (typical)

8000–12000 MHz; P1dB 16 dBm (typical); Small-signal gain 24 dB (typical); NF 1.7 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

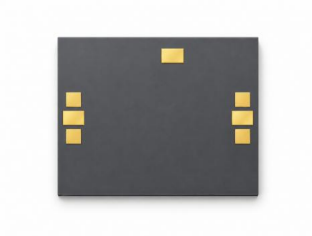
**Output 1 dB compression power:** Symbol: P1dB; Typical: 16; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 24; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±0.5; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-700-5000-P1DB19T

### 700–5000 MHz GaAs MMIC Amplifier Die — P1dB 19 dBm (typical)

700–5000 MHz; P1dB 19 dBm (typical); Small-signal gain 14 dB (typical); NF 2.5 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 700; Maximum: 5000; Value: 700–5000; Unit: MHz

**Output 1 dB compression power:** Symbol: P1dB; Typical: 19; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 14; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±1; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-2700-3500-P1DB23p5T

### 2700–3500 MHz GaAs MMIC Amplifier Die — P1dB 23.5 dBm (typical)

2700–3500 MHz; P1dB 23.5 dBm (typical); Small-signal gain 28 dB (typical); NF 3.5 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3500; Value: 2700–3500; Unit: MHz

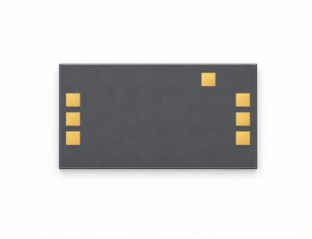
**Output 1 dB compression power:** Symbol: P1dB; Typical: 23.5; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 25; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 28; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-14000-18000-P1DB23T-D

### 14000–18000 MHz GaAs MMIC Amplifier Die — P1dB 23 dBm (typical)

14000–18000 MHz; P1dB 23 dBm (typical); Small-signal gain 19 dB (typical); NF 5.5 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 14000; Maximum: 18000; Value: 14000–18000; Unit: MHz

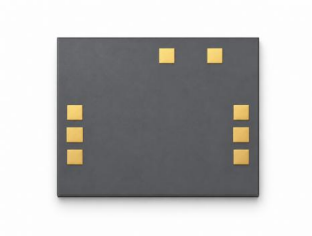
**Output 1 dB compression power:** Symbol: P1dB; Typical: 23; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 24; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 19; Maximum: 23; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-5000-20000-P1DB20T

### 5000–20000 MHz GaAs MMIC Amplifier Die — P1dB 20 dBm (typical)

5000–20000 MHz; P1dB 20 dBm (typical); Small-signal gain 21 dB (typical); NF 6.5 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 20000; Value: 5000–20000; Unit: MHz

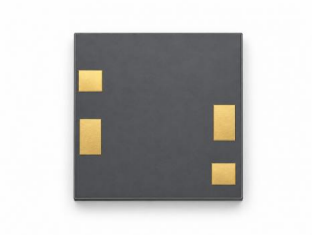
**Output 1 dB compression power:** Symbol: P1dB; Typical: 20; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 21; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 21; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-DC-6000-P1DB22p8T

### DC–6000 MHz GaAs MMIC Amplifier Die — P1dB 22.8 dBm (typical)

DC–6000 MHz; P1dB 22.8 dBm (typical); Small-signal gain 21 dB (typical); NF 1.8 dB (typical).

**Operating frequency:** Symbol: f; Minimum: DC; Maximum: 6000; Value: DC–6000; Unit: MHz

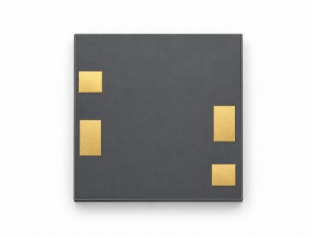
**Output 1 dB compression power:** Symbol: P1dB; Typical: 22.8; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 21; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±1; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-DC-6000-P1DB21T

### DC–6000 MHz GaAs MMIC Amplifier Die — P1dB 21 dBm (typical)

DC–6000 MHz; P1dB 21 dBm (typical); Small-signal gain 20 dB (typical); NF 1 dB (typical).

**Operating frequency:** Symbol: f; Minimum: DC; Maximum: 6000; Value: DC–6000; Unit: MHz

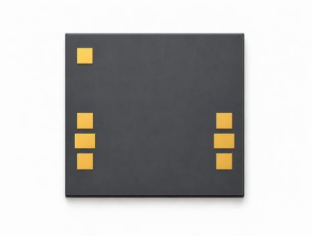
**Output 1 dB compression power:** Symbol: P1dB; Typical: 21; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 20; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±1; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-800-2000-P1DB15T

### 800–2000 MHz GaAs MMIC Amplifier Die — P1dB 15 dBm (typical)

800–2000 MHz; P1dB 15 dBm (typical); Small-signal gain 17 dB (typical); NF 1.4 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 800; Maximum: 2000; Value: 800–2000; Unit: MHz

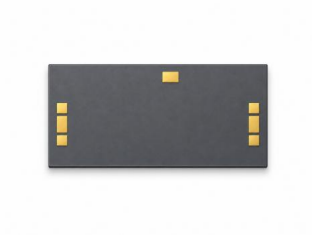
**Output 1 dB compression power:** Symbol: P1dB; Typical: 15; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 17; Unit: dB

**Small-signal gain flatness:** Symbol: ΔGain; Typical: ±0.3; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-2000-7000-P1DB23p5T

### 2000–7000 MHz GaAs MMIC Amplifier Die — P1dB 23.5 dBm (typical)

2000–7000 MHz; P1dB 23.5 dBm (typical); Small-signal gain 21 dB (typical); NF 5 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 7000; Value: 2000–7000; Unit: MHz

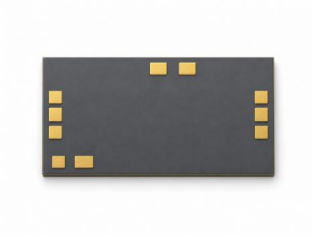
**Output 1 dB compression power:** Symbol: P1dB; Typical: 23.5; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 24.5; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 21; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-8000-12000-PS28T

### 8000–12000 MHz GaAs MMIC Amplifier Die — PSAT 28 dBm (typical)

8000–12000 MHz; PSAT 28 dBm (typical); Small-signal gain 21 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

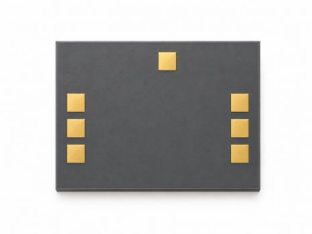
**Saturated output power:** Minimum: 27.8; Typical: 28; Unit: dBm

**Power gain:** Typical: 19; Unit: dB

**Power-added efficiency:** Typical: 40; Unit: %

TA = +25 °C; Vd = +5 V; Vg = -0.6 V

Product details Product datasheet



## LCI-AMP-4000-9000-P1DB17T

### 4000–9000 MHz GaAs MMIC Amplifier Die — P1dB 17 dBm (typical)

4000–9000 MHz; P1dB 17 dBm (typical); Small-signal gain 13 dB (typical); NF 3.5 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 9000; Value: 4000–9000; Unit: MHz

**Output 1 dB compression power:** Symbol: P1dB; Typical: 17; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 18; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 13; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-2000-18000-P1DB16T

### 2000–18000 MHz GaAs MMIC Amplifier Die — P1dB 16 dBm (typical)

2000–18000 MHz; P1dB 16 dBm (typical); Small-signal gain 21 dB (typical); NF 3 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 18000; Value: 2000–18000; Unit: MHz

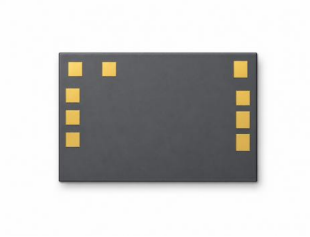
**Output 1 dB compression power:** Symbol: P1dB; Typical: 16; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 17; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 21; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-6000-12000-P1DB23T

### 6000–12000 MHz GaAs MMIC Amplifier Die — P1dB 23 dBm (typical)

6000–12000 MHz; P1dB 23 dBm (typical); Small-signal gain 23 dB (typical); NF 5 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 12000; Value: 6000–12000; Unit: MHz

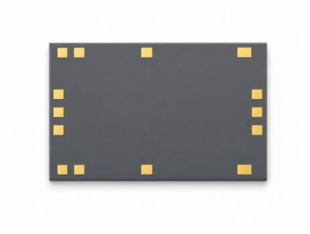
**Output 1 dB compression power:** Symbol: P1dB; Typical: 23; Unit: dBm

**Saturated output power:** Symbol: Psat; Value: 23.8; Unit: dBm

**Small-signal gain:** Symbol: Gain; Typical: 23; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-AMP-24000-31000-PS25T

### 24000–31000 MHz GaAs MMIC Amplifier Die — PSAT 25 dBm (typical)

24000–31000 MHz; PSAT 25 dBm (typical); Small-signal gain 22 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 24000; Maximum: 31000; Value: 24000–31000; Unit: MHz

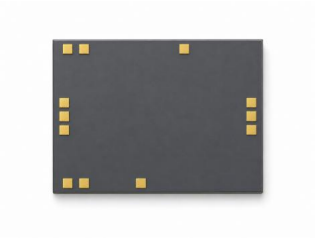
**Small-signal gain:** Typical: 22; Unit: dB

**Saturated output power:** Typical: 25; Unit: dBm

**Power gain:** Typical: 20; Unit: dB

TA = +25 °C; Vd = +5 V; Id = 160 mA

Product details Product datasheet



## LCI-BDA-8000-18000-RXP1DB24T

### 8000–18000 MHz GaAs MMIC Bidirectional Amplifier Die — Rx / Tx P1dB 24 dBm (typical)

8000–18000 MHz; Rx / Tx: Rx / Tx P1dB 24 dBm (typical); Small-signal gain 21 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 18000; Value: 8000–18000; Unit: MHz

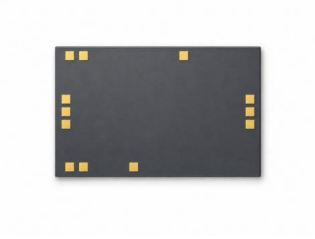
**Output 1 dB compression power (Rx):** Typical: 24; Unit: dBm

**Saturated output power (Rx):** Typical: 24.5; Unit: dBm

**Small-signal gain (Rx):** Typical: 21; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-BDA-6000-18000-RXP1DB21T

### 6000–18000 MHz GaAs MMIC Bidirectional Amplifier Die — Rx / Tx P1dB 21 dBm (typical)

6000–18000 MHz; Rx / Tx: Rx / Tx P1dB 21 dBm (typical); Small-signal gain 19 dB (typical).

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 18000; Value: 6000–18000; Unit: MHz

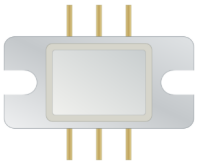
**Output 1 dB compression power (Rx):** Typical: 21; Unit: dBm

**Saturated output power (Rx):** Typical: 22; Unit: dBm

**Small-signal gain (Rx):** Typical: 19; Unit: dB

TA = +25 °C; Vd = +5 V

Product details Product datasheet



## LCI-PA-2000-6000-PS40T

### 2000–6000 MHz GaN Packaged Power Amplifier — PSAT 40 dBm (typical)

2000–6000 MHz; PSAT 40 dBm (typical); Power gain 22 dB (typical); PAE 38 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Value: 2000–6000; Unit: MHz

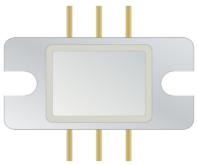
**Saturated output power:** Minimum: 39.5; Typical: 40; Unit: dBm

**Power gain:** Minimum: 21.5; Typical: 22; Unit: dB

**Power-added efficiency:** Minimum: 32; Typical: 38; Unit: %

TA = +25 °C; Vd = +28 V; Vg = -2.4 V; Pin = 18 dBm; CW

Product details Product datasheet



## LCI-PA-7500-10500-PS48T

### 7500–10500 MHz GaN Packaged Power Amplifier — PSAT 48 dBm (typical)

7500–10500 MHz; PSAT 48 dBm (typical); Power gain 24 dB (typical); PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 7500; Maximum: 10500; Value: 7500–10500; Unit: MHz

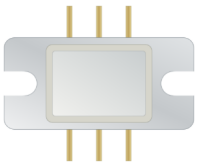
**Saturated output power:** Minimum: 47.5; Typical: 48; Unit: dBm

**Power gain:** Minimum: 23.5; Typical: 24; Unit: dB

**Power-added efficiency:** Minimum: 32; Typical: 40; Unit: %

Vd = +28 V; Vg = -2.6 V; D = 10%; Pin = 24 dBm

Product details Product datasheet



## LCI-PA-2000-8500-PS41T

### 2000–8500 MHz GaN Packaged Power Amplifier — PSAT 41 dBm (typical)

2000–8500 MHz; PSAT 41 dBm (typical); Power gain 15 dB (typical); PAE 35 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 8500; Value: 2000–8500; Unit: MHz

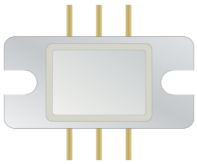
**Saturated output power:** Minimum: 40.3; Typical: 41; Unit: dBm

**Power gain:** Minimum: 14.3; Typical: 15; Unit: dB

**Power-added efficiency:** Minimum: 25; Typical: 35; Unit: %

TA = +25 °C; Vd = +28 V; Vg = -2.6 V; Pin = 26 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2500-6200-PS44p5T

### 2500–6200 MHz GaN Packaged Power Amplifier — PSAT 44.5 dBm (typical)

2500–6200 MHz; PSAT 44.5 dBm (typical); Power gain 16.5 dB (typical); PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2500; Maximum: 6200; Value: 2500–6200; Unit: MHz

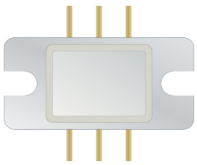
**Saturated output power:** Minimum: 44; Typical: 44.5; Unit: dBm

**Power gain:** Minimum: 16; Typical: 16.5; Unit: dB

**Power-added efficiency:** Minimum: 35; Typical: 40; Unit: %

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 28 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-5000-6000-PS47T

### 5000–6000 MHz GaN Packaged Power Amplifier — PSAT 47 dBm (typical)

5000–6000 MHz; PSAT 47 dBm (typical); Power gain 24 dB (typical); PAE 56 % (typical).

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 6000; Value: 5000–6000; Unit: MHz

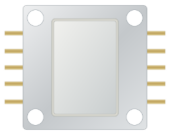
**Saturated output power:** Minimum: 46.2; Typical: 47; Unit: dBm

**Power gain:** Minimum: 23.2; Typical: 24; Unit: dB

**Power-added efficiency:** Minimum: 50; Typical: 56; Unit: %

TA = +25 °C; Vd = +28 V; Vg = -2.6 V; Pin = 23 dBm; PW = 100 µs; D = 5%

Product details Product datasheet



## LCI-PA-13400-14600-PS44p5T

### 13400–14600 MHz GaN Packaged Power Amplifier — PSAT 44.5 dBm (typical)

13400–14600 MHz; PSAT 44.5 dBm (typical); Power gain 19.5 dB (typical); PAE 32 % (typical).

**Operating frequency:** Symbol: f; Minimum: 13400; Maximum: 14600; Value: 13400–14600; Unit: MHz

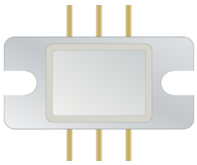
**Saturated output power:** Minimum: 43.7; Typical: 44.5; Unit: dBm

**Power gain:** Typical: 19.5; Unit: dB

**Power-added efficiency:** Minimum: 28; Typical: 32; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.4] V; Pin = 25 dBm; CW

Product details Product datasheet



## LCI-PA-5000-6000-PS49T

### 5000–6000 MHz GaN Packaged Power Amplifier — PSAT 49 dBm (typical)

5000–6000 MHz; PSAT 49 dBm (typical); Power gain 26 dB (typical); PAE 53 % (typical).

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 6000; Value: 5000–6000; Unit: MHz

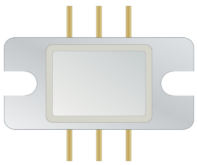
**Saturated output power:** Minimum: 48.5; Typical: 49; Unit: dBm

**Power gain:** Minimum: 25.5; Typical: 26; Unit: dB

**Power-added efficiency:** Minimum: 51; Typical: 53; Unit: %

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 23 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-2500-3700-PS41T

### 2500–3700 MHz GaN Packaged Power Amplifier — PSAT 41 dBm (typical)

2500–3700 MHz; PSAT 41 dBm (typical); Power gain 22 dB (typical); PAE 47 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2500; Maximum: 3700; Value: 2500–3700; Unit: MHz

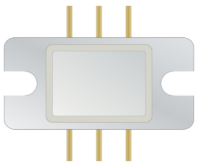
**Saturated output power:** Minimum: 40.5; Typical: 41; Unit: dBm

**Power gain:** Minimum: 21.5; Typical: 22; Unit: dB

**Power-added efficiency:** Minimum: 42; Typical: 47; Unit: %

TA = +25 °C; Vd = +28 V; Vg = -2.8 V; Pin = 19 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-13600-14500-PS41MIN

### 13600–14500 MHz GaN Packaged Power Amplifier — PSAT ≥ 41 dBm

13600–14500 MHz; PSAT ≥ 41 dBm; Power gain ≥ 20 dB; PAE 37 % (typical).

**Operating frequency:** Symbol: f; Minimum: 13600; Maximum: 14500; Value: 13600–14500; Unit: MHz

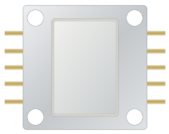
**Saturated output power:** Minimum: 41; Unit: dBm

**Power gain:** Minimum: 20; Unit: dB

**Power-added efficiency:** Minimum: 32; Typical: 37; Unit: %

Vd = +28 V; Vg = -3.05 V; Pin = 21 dBm; CW

Product details Product datasheet



## LCI-PA-6000-12000-PS46T

### 6000–12000 MHz GaN Packaged Power Amplifier — PSAT 46 dBm (typical)

6000–12000 MHz; PSAT 46 dBm (typical); Power gain 22 dB (typical); PAE 30 % (typical).

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 12000; Value: 6000–12000; Unit: MHz

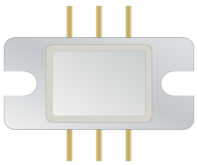
**Saturated output power:** Typical: 46; Unit: dBm

**Power gain:** Typical: 22; Unit: dB

**Power-added efficiency:** Typical: 30; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.4] V; Pin = 25 dBm; D = 10%; PW = 100 µs

Product details Product datasheet



## LCI-PA-4200-7000-PS41MIN

### 4200–7000 MHz GaN Packaged Power Amplifier — PSAT ≥ 41 dBm

4200–7000 MHz; PSAT ≥ 41 dBm; Power gain ≥ 21 dB; PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 4200; Maximum: 7000; Value: 4200–7000; Unit: MHz

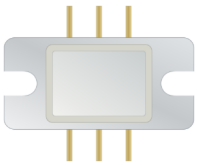
**Saturated output power:** Minimum: 41; Unit: dBm

**Power gain:** Minimum: 21; Unit: dB

**Power-added efficiency:** Typical: 40; Unit: %

Vd = +28 V; Vg = -2.6 V; Pin = 20 dBm; CW

Product details Product datasheet



## LCI-PA-4000-5000-PS45MIN

### 4000–5000 MHz GaN Packaged Power Amplifier — PSAT ≥ 45 dBm

4000–5000 MHz; PSAT ≥ 45 dBm; Power gain ≥ 26 dB; PAE 50 % (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 5000; Value: 4000–5000; Unit: MHz

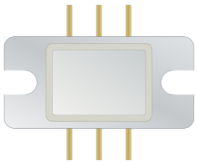
**Saturated output power:** Minimum: 45; Unit: dBm

**Power gain:** Minimum: 26; Unit: dB

**Power-added efficiency:** Minimum: 40; Typical: 50; Unit: %

Vd = +28 V; Vg = -3.05 V; D = 10%; Pin = 19 dBm

Product details Product datasheet



## LCI-PA-1200-1600-PS42MIN

### 1200–1600 MHz GaN Packaged Power Amplifier — PSAT ≥ 42 dBm

1200–1600 MHz; PSAT ≥ 42 dBm; Power gain ≥ 16 dB; PAE 55 % (typical).

**Operating frequency:** Symbol: f; Minimum: 1200; Maximum: 1600; Value: 1200–1600; Unit: MHz

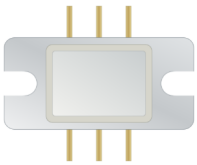
**Saturated output power:** Minimum: 42; Unit: dBm

**Power gain:** Minimum: 16; Unit: dB

**Power-added efficiency:** Minimum: 45; Typical: 55; Unit: %

Vd = +28 V; Vg = -1.8; D = 10%; Pin = 26 dBm

Product details Product datasheet



## LCI-PA-2500-4000-PS46p5T

### 2500–4000 MHz GaN Packaged Power Amplifier — PSAT 46.5 dBm (typical)

2500–4000 MHz; PSAT 46.5 dBm (typical); Power gain 26.5 dB (typical); PAE 50 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2500; Maximum: 4000; Value: 2500–4000; Unit: MHz

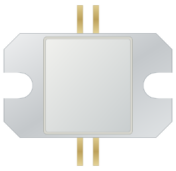
**Saturated output power:** Minimum: 46; Typical: 46.5; Unit: dBm

**Power gain:** Minimum: 25; Typical: 26.5; Unit: dB

**Power-added efficiency:** Minimum: 45; Typical: 50; Unit: %

Vd = +28 V; Vg = -2.3 V; D = 10%; Pin = 20 dBm

Product details Product datasheet



## LCI-PA-2700-3500-PS45p5T-C

### 2700–3500 MHz GaN Packaged Power Amplifier — PSAT 45.5 dBm (typical)

2700–3500 MHz; PSAT 45.5 dBm (typical); Power gain 26.5 dB (typical); PAE 55 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3500; Value: 2700–3500; Unit: MHz

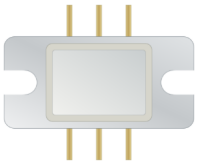
**Saturated output power:** Minimum: 44.5; Typical: 45.5; Unit: dBm

**Power gain:** Minimum: 25.5; Typical: 26.5; Unit: dB

**Power-added efficiency:** Minimum: 50; Typical: 55; Unit: %

Vd = +28 V; Vg = -2.8 V; D = 10%; Pin = 19 dBm

Product details Product datasheet



## LCI-PA-4000-8000-PS43T

### 4000–8000 MHz GaN Packaged Power Amplifier — PSAT 43 dBm (typical)

4000–8000 MHz; PSAT 43 dBm (typical); Power gain 20 dB (typical); PAE 35 % (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 8000; Value: 4000–8000; Unit: MHz

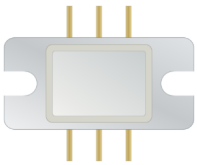
**Saturated output power:** Minimum: 42; Typical: 43; Unit: dBm

**Power gain:** Minimum: 19; Typical: 20; Unit: dB

**Power-added efficiency:** Minimum: 30; Typical: 35; Unit: %

Vd = +28 V; Vg = -2.2 V; PW = 100 µs; D = 10%; Pin = 23 dBm

Product details Product datasheet



## LCI-PA-3400-4800-PS43T

### 3400–4800 MHz GaN Packaged Power Amplifier — PSAT 43 dBm (typical)

3400–4800 MHz; PSAT 43 dBm (typical); Power gain 23 dB (typical); PAE 45 % (typical).

**Operating frequency:** Symbol: f; Minimum: 3400; Maximum: 4800; Value: 3400–4800; Unit: MHz

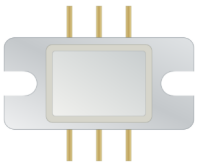
**Saturated output power:** Minimum: 42; Typical: 43; Unit: dBm

**Power gain:** Minimum: 22; Typical: 23; Unit: dB

**Power-added efficiency:** Minimum: 35; Typical: 45; Unit: %

Vd = +28 V; Vg = -2.8 V; Pin = 20 dBm; CW

Product details Product datasheet



## LCI-PA-9200-10400-PS45T

### 9200–10400 MHz GaN Packaged Power Amplifier — PSAT 45 dBm (typical)

9200–10400 MHz; PSAT 45 dBm (typical); Power gain 23 dB (typical); PAE 38 % (typical).

**Operating frequency:** Symbol: f; Minimum: 9200; Maximum: 10400; Value: 9200–10400; Unit: MHz

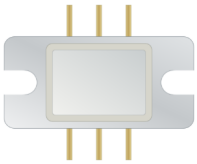
**Saturated output power:** Minimum: 44.7; Typical: 45; Unit: dBm

**Power gain:** Minimum: 22.7; Typical: 23; Unit: dB

**Power-added efficiency:** Minimum: 35; Typical: 38; Unit: %

Vd = +28 V; Vg = -2.4 V; PW = 100 µs; D = 10%; Pin = 22 dBm

Product details Product datasheet



## LCI-PA-2000-8000-PS42p5T

### 2000–8000 MHz GaN Packaged Power Amplifier — PSAT 42.5 dBm (typical)

2000–8000 MHz; PSAT 42.5 dBm (typical); Power gain 15.5 dB (typical); PAE 28 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 8000; Value: 2000–8000; Unit: MHz

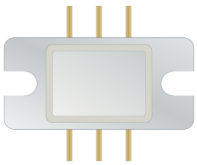
**Saturated output power:** Minimum: 40; Typical: 42.5; Unit: dBm

**Power gain:** Minimum: 13; Typical: 15.5; Unit: dB

**Power-added efficiency:** Minimum: 25; Typical: 28; Unit: %

TA = +25 °C; Vd = +28 V; Vg = -2.4 V; Pin = 27 dBm; CW

Product details Product datasheet



## LCI-PA-5800-6800-PS46p5T

### 5800–6800 MHz GaN Packaged Power Amplifier — PSAT 46.5 dBm (typical)

5800–6800 MHz; PSAT 46.5 dBm (typical); Power gain 21 dB (typical); PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 5800; Maximum: 6800; Value: 5800–6800; Unit: MHz

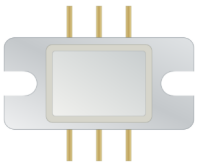
**Saturated output power:** Minimum: 45.5; Typical: 46.5; Unit: dBm

**Power gain:** Minimum: 20; Typical: 21; Unit: dB

**Power-added efficiency:** Typical: 40; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.4] V; Pin = 26 dBm; CW

Product details Product datasheet



## LCI-PA-2000-6000-PS44p5T

### 2000–6000 MHz GaN Packaged Power Amplifier — PSAT 44.5 dBm (typical)

2000–6000 MHz; PSAT 44.5 dBm (typical); Power gain 17.5 dB (typical); PAE 35 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Value: 2000–6000; Unit: MHz

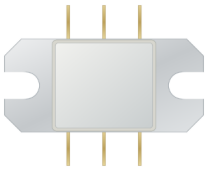
**Saturated output power:** Minimum: 44; Typical: 44.5; Unit: dBm

**Power gain:** Minimum: 17; Typical: 17.5; Unit: dB

**Power-added efficiency:** Minimum: 30; Typical: 35; Unit: %

TA = +25 °C; VDS = +28 V; VGS ∈ [-3.2, -2.4] V; Pin = 27 dBm; CW

Product details Product datasheet



## LCI-PA-8000-12000-PS42T-C

### 8000–12000 MHz GaN Packaged Power Amplifier — PSAT 42 dBm (typical)

8000–12000 MHz; PSAT 42 dBm (typical); Power gain 21 dB (typical); PAE 38 % (typical).

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

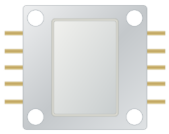
**Saturated output power:** Typical: 42; Unit: dBm

**Power gain:** Typical: 21; Unit: dB

**Power-added efficiency:** Typical: 38; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.4] V; Pin = 21 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-8000-12000-PS46T

### 8000–12000 MHz GaN Packaged Power Amplifier — PSAT 46 dBm (typical)

8000–12000 MHz; PSAT 46 dBm (typical); Power gain 24 dB (typical); PAE 37 % (typical).

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

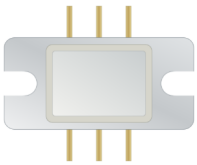
**Saturated output power:** Typical: 46; Unit: dBm

**Power gain:** Typical: 24; Unit: dB

**Power-added efficiency:** Typical: 37; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.2] V; Pin = 22 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-4000-8000-PS36p5T

### 4000–8000 MHz GaN Packaged Power Amplifier — PSAT 36.5 dBm (typical)

4000–8000 MHz; PSAT 36.5 dBm (typical); Power gain 19.5 dB (typical); PAE 35 % (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 8000; Value: 4000–8000; Unit: MHz

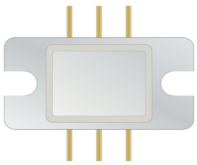
**Saturated output power:** Minimum: 36; Typical: 36.5; Unit: dBm

**Power gain:** Minimum: 19; Typical: 19.5; Unit: dB

**Power-added efficiency:** Minimum: 30; Typical: 35; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.2] V; Pin = 17 dBm; CW

Product details Product datasheet



## LCI-PA-4000-8000-PS47T

### 4000–8000 MHz GaN Packaged Power Amplifier — PSAT 47 dBm (typical)

4000–8000 MHz; PSAT 47 dBm (typical); Power gain 19 dB (typical); PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 8000; Value: 4000–8000; Unit: MHz

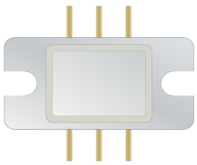
**Saturated output power:** Minimum: 46.5; Typical: 47; Unit: dBm

**Power gain:** Minimum: 18.5; Typical: 19; Unit: dB

**Power-added efficiency:** Minimum: 32; Typical: 40; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.2] V; Pin = 28 dBm; D = 10%; PW = 100 µs

Product details Product datasheet



## LCI-PA-2000-6000-PS43T-C

### 2000–6000 MHz GaN Packaged Power Amplifier — PSAT 43 dBm (typical)

2000–6000 MHz; PSAT 43 dBm (typical); Power gain 26 dB (typical); PAE 45 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 6000; Value: 2000–6000; Unit: MHz

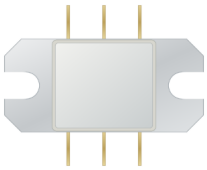
**Saturated output power:** Minimum: 42.5; Typical: 43; Unit: dBm

**Power gain:** Minimum: 25.5; Typical: 26; Unit: dB

**Power-added efficiency:** Minimum: 35; Typical: 45; Unit: %

TA = +25 °C; VDS = +28 V; VGS ∈ [-3.2, -2.2] V; Pin = 17 dBm; D = 10%; PW = 100 µs

Product details Product datasheet



## LCI-PA-8000-12000-PS39T-C

### 8000–12000 MHz GaN Packaged Power Amplifier — PSAT 39 dBm (typical)

8000–12000 MHz; PSAT 39 dBm (typical); Power gain 18 dB (typical); PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

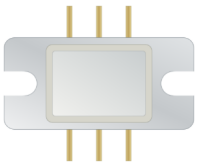
**Saturated output power:** Minimum: 37; Typical: 39; Unit: dBm

**Power gain:** Minimum: 17; Typical: 18; Unit: dB

**Power-added efficiency:** Typical: 40; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.4, -2.4] V; Pin = 26 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-9000-11000-PS36MIN

### 9000–11000 MHz GaN Packaged Power Amplifier — PSAT ≥ 36 dBm

9000–11000 MHz; PSAT ≥ 36 dBm; Power gain ≥ 23 dB; PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 9000; Maximum: 11000; Value: 9000–11000; Unit: MHz

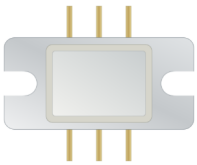
**Saturated output power:** Minimum: 36; Unit: dBm

**Power gain:** Minimum: 23; Unit: dB

**Power-added efficiency:** Minimum: 33; Typical: 40; Unit: %

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.4, -2.4] V; Pin = 13 dBm; CW

Product details Product datasheet



## LCI-PA-2700-3500-PS31p5T

### 2700–3500 MHz GaAs Packaged Power Amplifier — PSAT 31.5 dBm (typical)

2700–3500 MHz; PSAT 31.5 dBm (typical); Power gain 36.5 dB (typical); PAE 40 % (typical).

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3500; Value: 2700–3500; Unit: MHz

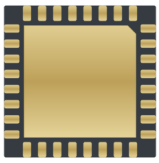
**Saturated output power:** Minimum: 31; Typical: 31.5; Unit: dBm

**Power gain:** Minimum: 36; Typical: 36.5; Unit: dB

**Power-added efficiency:** Minimum: 37; Typical: 40; Unit: %

TA = +25 °C; VDS = 8 V; VGS ∈ [-0.8, -0.6] V; Pin = -5 dBm; PW = 100 µs; D = 10%

Product details Product datasheet



## LCI-PA-10-1100-PS40MIN

### 10–1100 MHz GaN Packaged Power Amplifier — PSAT ≥ 40 dBm

10–1100 MHz; PSAT ≥ 40 dBm; Power gain ≥ 13 dB; PAE ≥ 60 %.

**Operating frequency:** Symbol: f; Minimum: 10; Maximum: 1100; Value: 10–1100; Unit: MHz

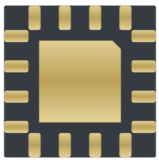
**Saturated output power:** Minimum: 40; Unit: dBm

**Power gain:** Minimum: 13; Unit: dB

**Power-added efficiency:** Minimum: 60; Unit: %

TA = +25 °C; VDS = +28 V; VGS ∈ [-3.2, -2.4] V; Pin = 23 dBm; CW

Product details Product datasheet



## LCI-LNA-4000-12000-NF0p8T

### 4000–12000 MHz Packaged Low-Noise Amplifier — NF 0.8 dB (typical)

4000–12000 MHz; Small-signal gain 34 dB (typical); Noise figure 0.8 dB (typical); Output 1 dB compression power 7 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 4000; Maximum: 12000; Value: 4000–12000; Unit: MHz

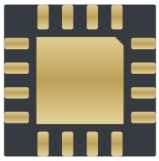
**Small-signal gain:** Symbol: Gain; Typical: 34; Unit: dB

**Noise figure:** Symbol: NF; Typical: 0.8; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 7; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -40 dBm

Product details Product datasheet



## LCI-LNA-2000-5000-NF0p65T-P1DB10p5T

### 2000–5000 MHz Packaged Low-Noise Amplifier — NF 0.65 dB (typical)

2000–5000 MHz; Small-signal gain 29 dB (typical); Noise figure 0.65 dB (typical); Output 1 dB compression power 10.5 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 5000; Value: 2000–5000; Unit: MHz

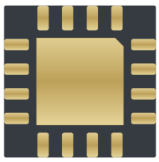
**Small-signal gain:** Symbol: Gain; Typical: 29; Unit: dB

**Noise figure:** Symbol: NF; Typical: 0.65; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 10.5; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -40 dBm

Product details Product datasheet



## LCI-LNA-2000-5000-NF0p65T-P1DB14T

### 2000–5000 MHz Packaged Low-Noise Amplifier — NF 0.65 dB (typical)

2000–5000 MHz; Small-signal gain 29 dB (typical); Noise figure 0.65 dB (typical); Output 1 dB compression power 14 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 5000; Value: 2000–5000; Unit: MHz

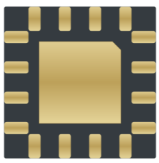
**Small-signal gain:** Symbol: Gain; Typical: 29; Unit: dB

**Noise figure:** Symbol: NF; Typical: 0.65; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 14; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -40 dBm

Product details Product datasheet



## LCI-LNA-8000-12000-NF0p9T-SG26T

### 8000–12000 MHz Packaged Low-Noise Amplifier — NF 0.9 dB (typical)

8000–12000 MHz; Small-signal gain 26 dB (typical); Noise figure 0.9 dB (typical); Output 1 dB compression power ≥ 7 dBm.

**Operating frequency:** Symbol: f; Minimum: 8000; Maximum: 12000; Value: 8000–12000; Unit: MHz

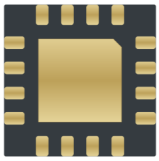
**Small-signal gain:** Symbol: Gain; Typical: 26; Unit: dB

**Noise figure:** Symbol: NF; Typical: 0.9; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Minimum: 7; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -30 dBm

Product details Product datasheet



## LCI-LNA-6000-20000-NF1p5T

### 6000–20000 MHz Packaged Low-Noise Amplifier — NF 1.5 dB (typical)

6000–20000 MHz; Small-signal gain 26 dB (typical); Noise figure 1.5 dB (typical); Output 1 dB compression power -2 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 6000; Maximum: 20000; Value: 6000–20000; Unit: MHz

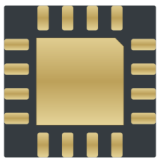
**Small-signal gain:** Symbol: Gain; Typical: 26; Unit: dB

**Noise figure:** Symbol: NF; Typical: 1.5; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: -2; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -40 dBm

Product details Product datasheet



## LCI-AMP-2000-7000-P1DB23T

### 2000–7000 MHz Packaged RF Gain Amplifier — P1dB 23 dBm (typical)

2000–7000 MHz; Small-signal gain 20 dB (typical); Noise figure 6 dB (typical); Output 1 dB compression power 23 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2000; Maximum: 7000; Value: 2000–7000; Unit: MHz

**Small-signal gain:** Symbol: Gain; Typical: 20; Unit: dB

**Noise figure:** Symbol: NF; Typical: 6; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 23; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -20 dBm

Product details Product datasheet



## LCI-AMP-100-6000-P1DB20T

### 100–6000 MHz Packaged RF Gain Amplifier — P1dB 20 dBm (typical)

100–6000 MHz; Small-signal gain 17 dB (typical); Noise figure 1.2 dB (typical); Output 1 dB compression power 20 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 100; Maximum: 6000; Value: 100–6000; Unit: MHz

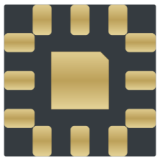
**Small-signal gain:** Symbol: Gain; Typical: 17; Unit: dB

**Noise figure:** Symbol: NF; Typical: 1.2; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 20; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -20 dBm

Product details Product datasheet



## LCI-AMP-100-6000-P1DB22T

### 100–6000 MHz Packaged RF Gain Amplifier — P1dB 22 dBm (typical)

100–6000 MHz; Small-signal gain 20 dB (typical); Noise figure 2 dB (typical); Output 1 dB compression power 22 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 100; Maximum: 6000; Value: 100–6000; Unit: MHz

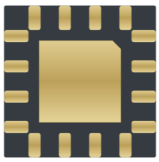
**Small-signal gain:** Symbol: Gain; Typical: 20; Unit: dB

**Noise figure:** Symbol: NF; Typical: 2; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 22; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -20 dBm

Product details Product datasheet



## LCI-AMP-800-2000-P1DB14p5T

### 800–2000 MHz Packaged RF Gain Amplifier — P1dB 14.5 dBm (typical)

800–2000 MHz; Small-signal gain 16.5 dB (typical); Noise figure 1.6 dB (typical); Output 1 dB compression power 14.5 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 800; Maximum: 2000; Value: 800–2000; Unit: MHz

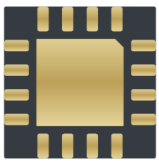
**Small-signal gain:** Symbol: Gain; Typical: 16.5; Unit: dB

**Noise figure:** Symbol: NF; Typical: 1.6; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 14.5; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -20 dBm

Product details Product datasheet



## LCI-AMP-2700-3500-P1DB23T

### 2700–3500 MHz Packaged RF Gain Amplifier — P1dB 23 dBm (typical)

2700–3500 MHz; Small-signal gain 27 dB (typical); Noise figure 4 dB (typical); Output 1 dB compression power 23 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 2700; Maximum: 3500; Value: 2700–3500; Unit: MHz

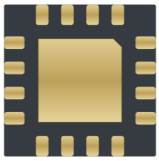
**Small-signal gain:** Symbol: Gain; Typical: 27; Unit: dB

**Noise figure:** Symbol: NF; Typical: 4; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 23; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -20 dBm

Product details Product datasheet



## LCI-AMP-5000-20000-P1DB19p5T

### 5000–20000 MHz Packaged RF Gain Amplifier — P1dB 19.5 dBm (typical)

5000–20000 MHz; Small-signal gain 20 dB (typical); Noise figure 6 dB (typical); Output 1 dB compression power 19.5 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 5000; Maximum: 20000; Value: 5000–20000; Unit: MHz

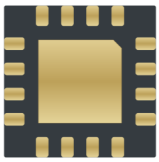
**Small-signal gain:** Symbol: Gain; Typical: 20; Unit: dB

**Noise figure:** Symbol: NF; Typical: 6; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 19.5; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -20 dBm

Product details  Product datasheet



## LCI-AMP-14000-18000-P1DB23T-C

### 14000–18000 MHz Packaged RF Gain Amplifier — P1dB 23 dBm (typical)

14000–18000 MHz; Small-signal gain 18 dB (typical); Noise figure 6 dB (typical); Output 1 dB compression power 23 dBm (typical).

**Operating frequency:** Symbol: f; Minimum: 14000; Maximum: 18000; Value: 14000–18000; Unit: MHz

**Small-signal gain:** Symbol: Gain; Typical: 18; Unit: dB

**Noise figure:** Symbol: NF; Typical: 6; Unit: dB

**Output 1 dB compression power:** Symbol: P_1; Typical: 23; Unit: dBm

TA = +25 °C; VD = +5 V; Pin = -20 dBm

Product details  Product datasheet

**Document notice**

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