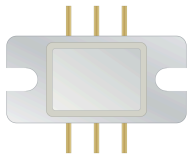
2700–3500 MHz GaAs Packaged Power Amplifier — PSAT 31.5 dBm (typical)

LCI-PA-2700-3500-PS31p5T · 2700–3500 MHz · GaAs Packaged Power Amplifier.



The RF table specifies: PSAT 31.5 dBm (typical); Power gain 36.5 dB (typical); PAE 40 % (typical). RF test conditions: TA = +25 °C; VDS = 8 V; VGS ∈ [-0.8, -0.6] V; Pin = -5 dBm; PW = 100 µs; D = 10%.

Apply gate bias before drain bias. Remove drain bias before gate bias.

Vg: C = 10 µF

Vg: 1, 3

RFin: 2

Vd: 4

RFout: 5

Package outline dimensions: 18.03 × 8.7 mm.

RF characteristics

TA = +25 °C; VDS = 8 V; VGS ∈ [-0.8, -0.6] V; Pin = -5 dBm; PW = 100 µs; D = 10%

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	f	2700	-	3500	MHz
Saturated output power	-	31	31.5	-	dBm
Power gain	-	36	36.5	-	dB
Power-added efficiency	-	37	40	-	%
Power-gain flatness	-	-	-	±0.5	dB

DC bias and current

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Drain voltage	-	-	-	-	8	V
Gate voltage	-	-	-	-	[-0.8, -0.6]	V
Quiescent current	-	-	-	-	0.25 (Vd = +8 V)	A

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum drain-source voltage	-	-	-	8	V
Minimum gate bias	-	-1	-	-	V
Storage temperature	-	-65	-	150	°C
Maximum input power	-	-	-	-2	dBm

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum channel temperature	-	-	-	175	°C

Package outline dimensions

Parameter	Value	Unit
Package outline dimensions	18.03 × 8.7	mm
Terminal span	14.7	mm

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Integration notes

Apply gate bias before drain bias. Remove drain bias before gate bias. Vg: C = 10 µF Vg: 1, 3 RFin: 2 Vd: 4 RFout: 5

Mechanical Outline

Partial drawing showing confirmed dimensions in mm. Use the complete installation drawing for installation.

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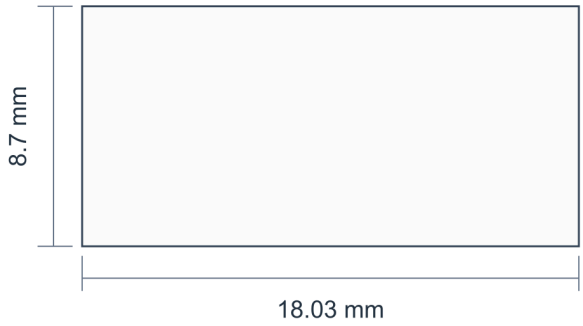


18.03 × 8.7 mm

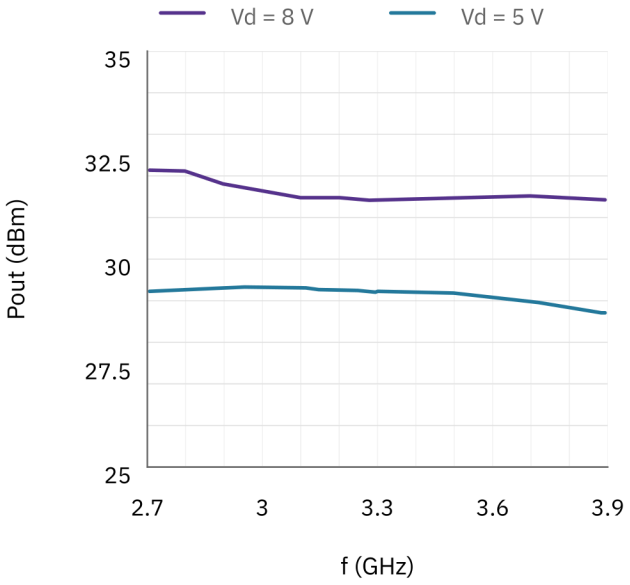
mm

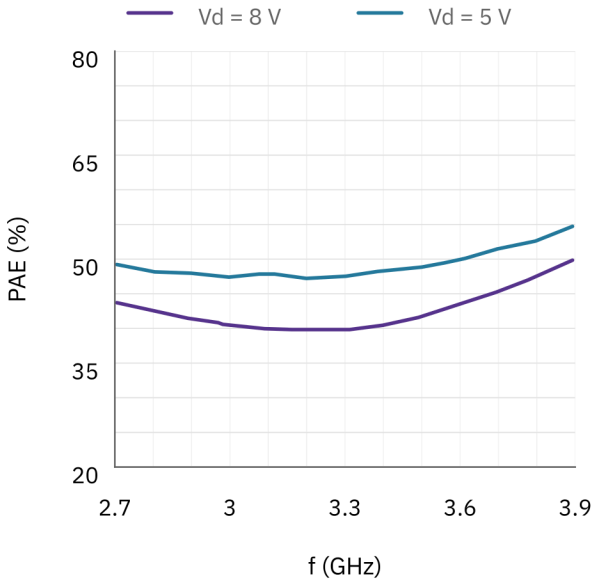
Performance curves

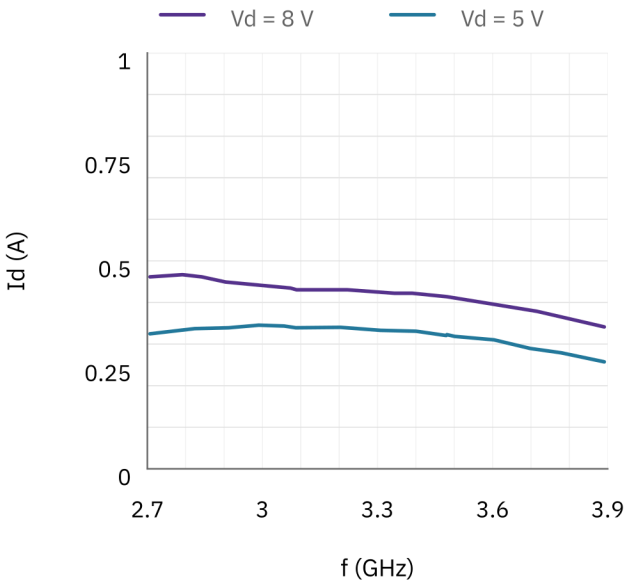
Each performance plot applies to its stated operating conditions.

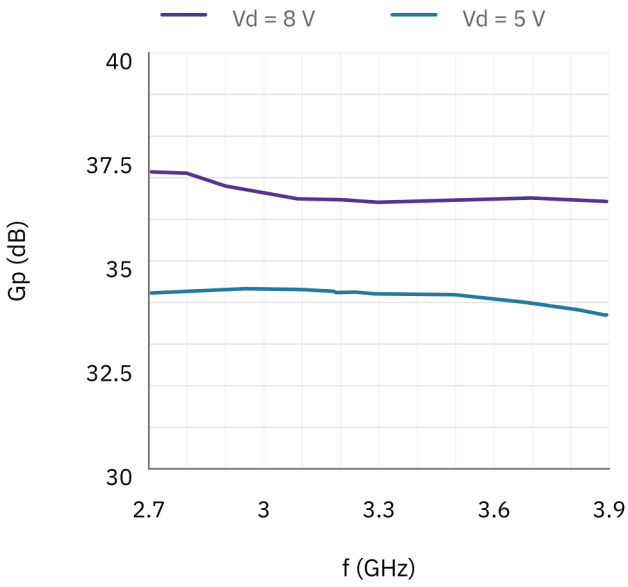
Pulsed — Output power; Power-added efficiency; Drain current; Power gain.

Readings are approximate. Figure notes: Temp = +25 °C; Vg = −0.7 V; Pin = −5 dBm; Vd = 8 V / 5 V. Read each trace with the conditions shown in its plot. Pulse width = 100 µs; duty cycle = 10%.



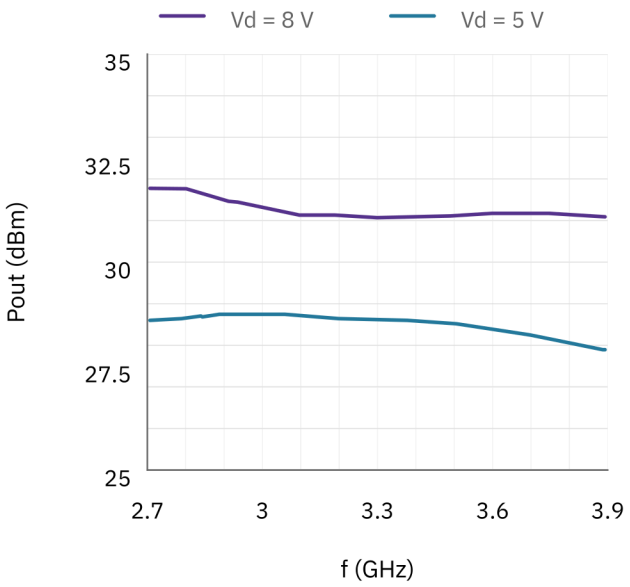


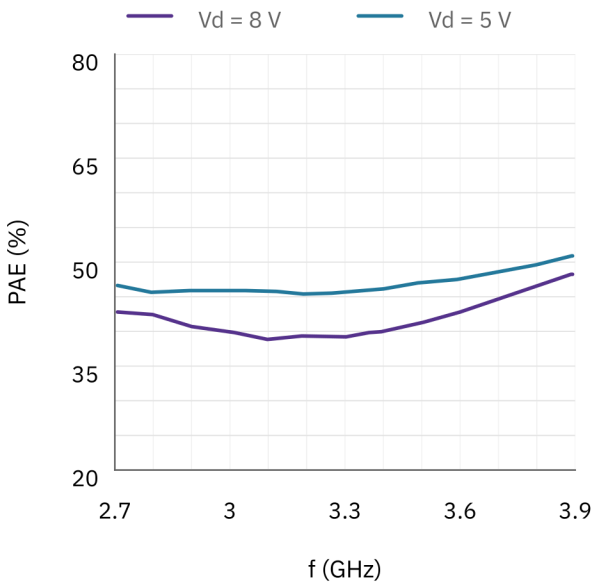


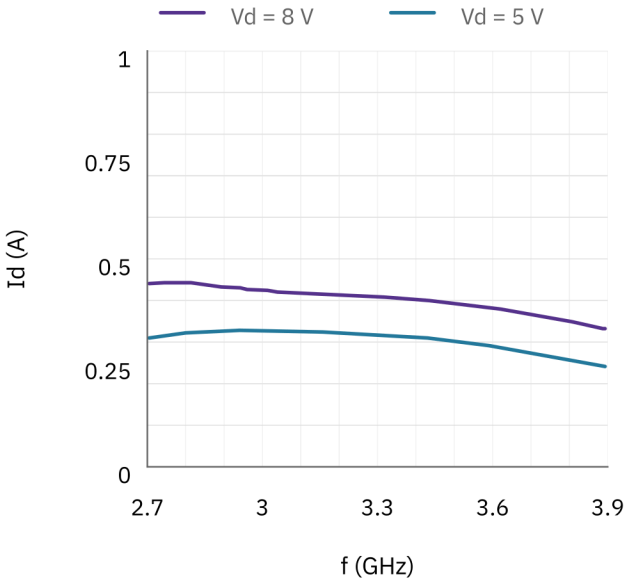


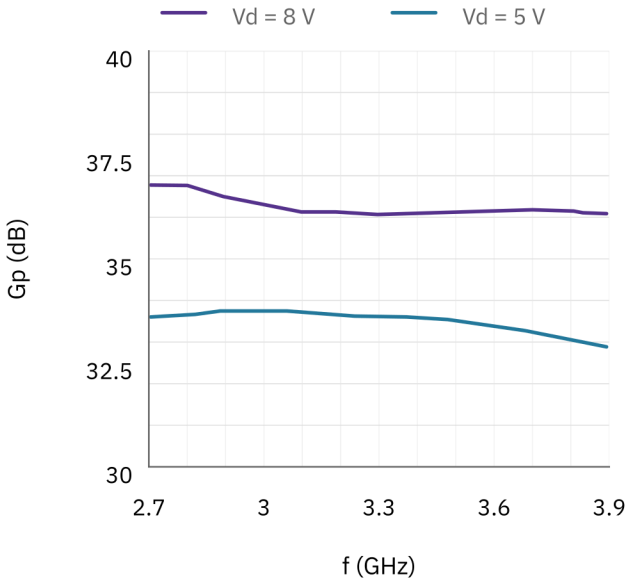
Continuous wave (CW) — Output power; Power-added efficiency; Drain current; Power gain.

Readings are approximate. Figure notes: Temp = +25 °C; Vg = −0.7 V; Pin = −5 dBm; Vd = 8 V / 5 V. Read each trace with the conditions shown in its plot. CW.









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.