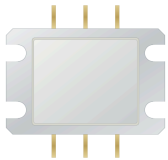
2600–3700 MHz GaN Internally Matched Power Transistor — PSAT 49 dBm (typical)

LCT-2600-3700-PS49T · 2600–3700 MHz · GaN Internally Matched Power Transistor.



The RF table specifies: PSAT 49 dBm (typical); Power gain 13 dB (typical); PAE 50 % (typical). RF test conditions: TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.2] V; Pin = 36 dBm; CW.

QF136GD

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

Vg: C = 10 µF

Vg: 1, 3

RFin: 2

Vd: 4, 6

RFout: 5

Package outline dimensions: 24 × 15.9 × 4.4 mm.

RF characteristics

TA = +25 °C; VDS = 28 V; VGS ∈ [-3.2, -2.2] V; Pin = 36 dBm; CW

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	f	2600	-	3700	MHz
Saturated output power	-	48	49	-	dBm
Power gain	-	12	13	-	dB
Power-added efficiency	-	45	50	-	%
Power-gain flatness	-	-	-	1.5	dB

DC bias and current

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Drain operating voltage	-	-	-	-	28	V
Gate operating voltage	-	-	-	-	[-3.2, -2.2]	V

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum drain-source voltage	-	-	-	32	V
Minimum gate bias	-	-5	-	-	V
Storage temperature	-	-65	-	150	°C

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum input power	-	-	-	38	dBm
Maximum channel temperature	-	-	-	225	°C

Package outline dimensions

Parameter	Value	Unit
Package outline dimensions	24 × 15.9 × 4.4	mm
Terminal span	17.4	mm

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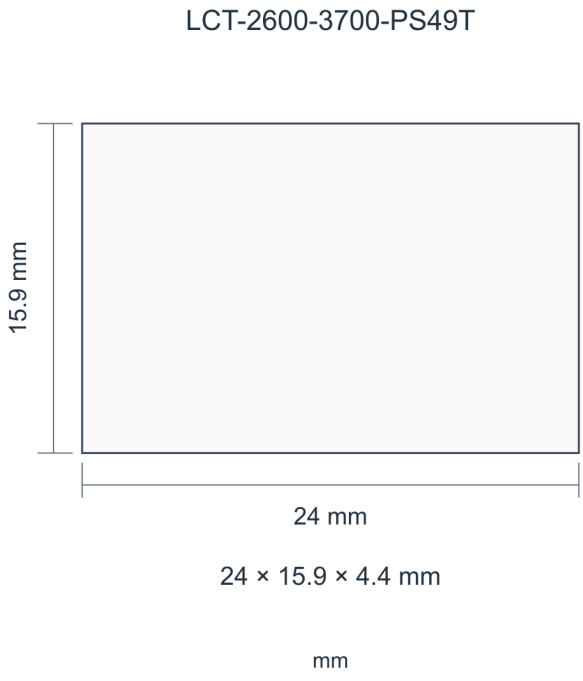
Integration notes

QF136GD Apply gate bias before drain bias. Remove drain bias before gate bias. Vg: C = 10 µF Vg: 1, 3 RFin: 2 Vd: 4, 6 RFout: 5

Mechanical Outline

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

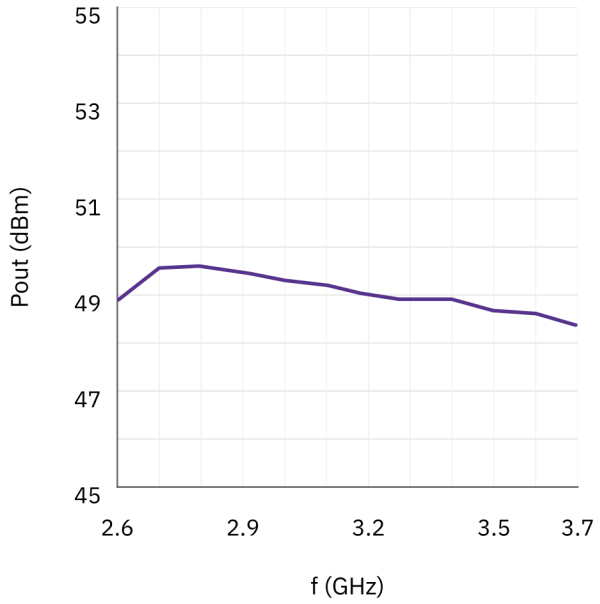


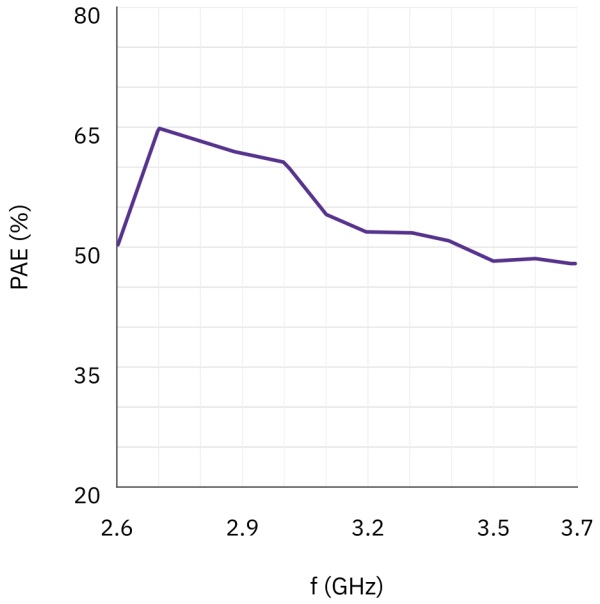
Performance curves

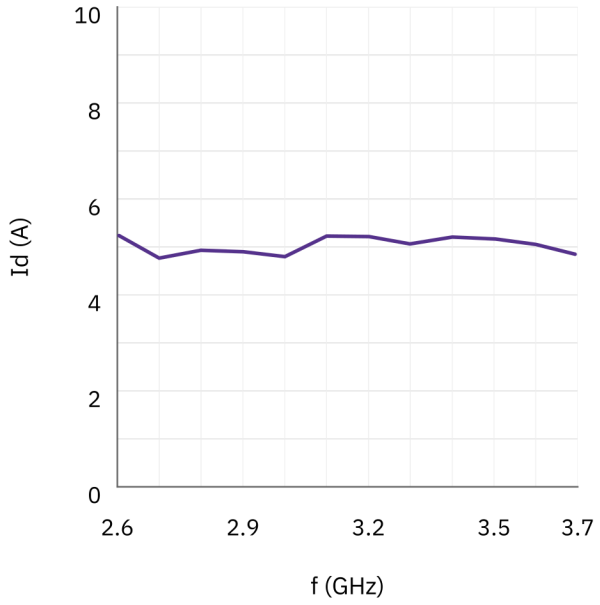
Each performance plot applies to its stated operating conditions.

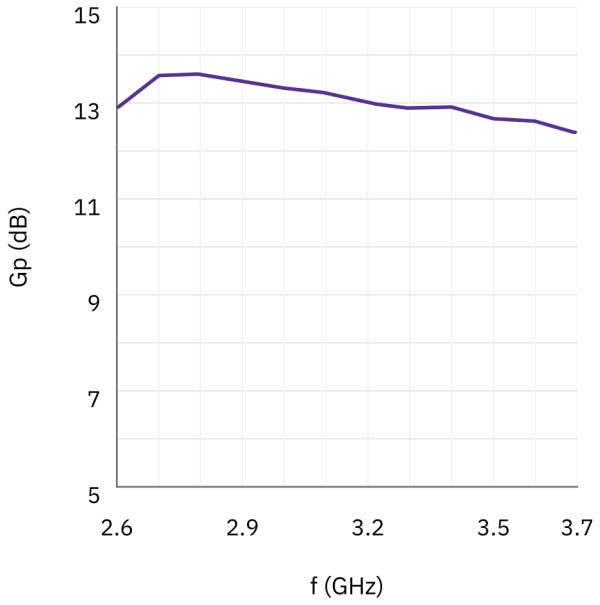
Output power; Power-added efficiency; Drain current; Power gain.

Readings are approximate. Figure notes: Vd = 28 V; Vg = −2.5 V; Pin = 36 dBm; 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.