92000–96000 MHz Power Amplifier Die

LCI-PA-92000-96000-PS26p5T is a power amplifier supplied as bare die for 92000–96000 MHz.

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.



RF characteristics

TA = +25 °C; Vd = +18 V; Id = 0.11 A

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	f	92000	-	96000	MHz
Small-signal gain	S21	-	18	-	dB
Small-signal gain flatness	ΔS21	-	±0.5	-	dB
Saturated output power	Psat	-	26.5	-	dBm
Power-added efficiency	PAE	-	12	13	%
Input VSWR	VSWR(in)	-	1.5	1.8	-
Output VSWR	-	-	1.5	-	-
Saturation current	-	-	0.22	-	A

DC bias and current

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Drain voltage [1]	Vd	-	-	-	18	V
Gate voltage [1]	Vg	-	-	-	-1.65	V
Bias current [2]	-	-	-	-	0.11	A

[1] Value stated without a Min/Typ/Max qualification.

[2] Vd = +18 V; Vg = -1.65 V; Value stated without a Min/Typ/Max qualification.

Absolute limits

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum drain-source voltage	Vd	-	-	20	V
Minimum gate bias	Vg	-5	-	-	V
Maximum input power	Pin	-	-	16	dBm
Storage temperature	TSTG	-65	-	150	°C

Environmental specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating temperature	-	-55	-	85	°C

Die dimensions

Parameter	Value	Unit
Die dimensions	3.25 × 1.15 × 0.05	mm

Current publication record · 1.7 · 2026-11-12. Product description or editorial content updated. Replaces revision 1.6.

Die integration and bias sequencing

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

Mechanical Outline

Outline and dimensioned coordinates in mm. Use this drawing as a dimensional reference. Fabrication and wire bonding require complete drawings.

LCI-PA-92000-96000-PS26p5T

X (mm)
Vg: 0.160
Vd: 1.780

Y (mm)
RFin / RFout: 0.400



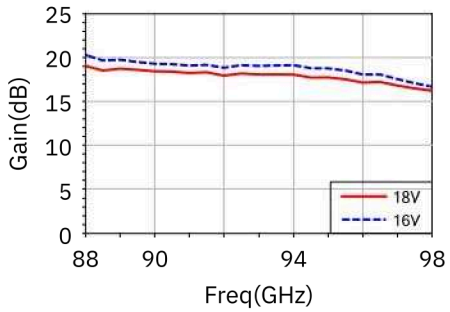
3.250 × 1.150 × 0.050 mm
X, Y: ±0.050 mm
X → · Y ↑ · X, Y: mm

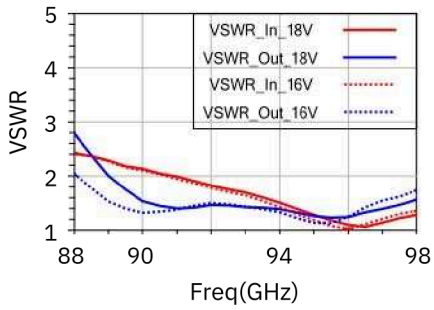
Performance curves

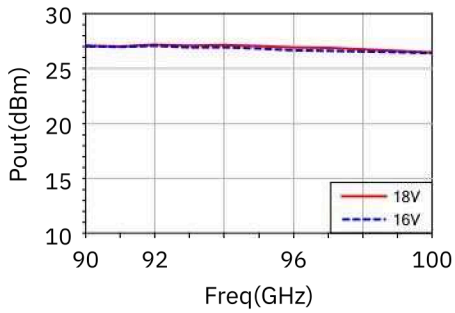
Each performance plot applies to its stated operating conditions.

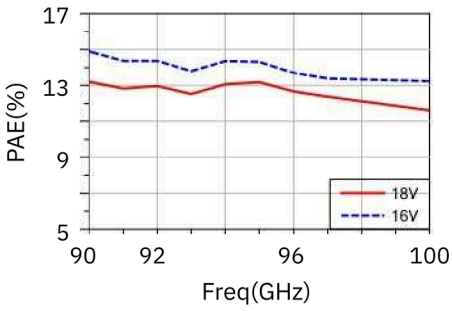
Small-signal gain; Input matching; Output matching; Output power; Power-added efficiency; Drain current.

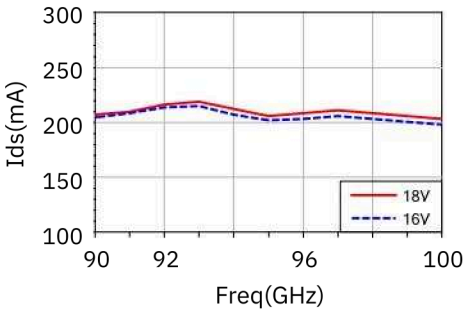
Figure notes: TA = +25 °C; Id = 110 mA; Vd = 18 / 16 V. Pout / PAE / Ids: Pin = 12 dBm. Conditions apply to the indicated plots and their own legends.











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.