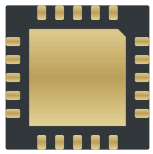
8000–12000 MHz GaAs Packaged RF Limiter — Pp 42 dBm; PW = 4 ms; D = 20%

LCI-LIM-8000-12000-PIP42U · 8000–12000 MHz · GaAs Packaged RF Limiter.



The RF table specifies: Insertion loss 0.9 dB (typical); Limiting level 14 dBm (typical); Input power handling 42 dBm; PW = 4 ms; D = 20%. RF test conditions: TA = +25 °C.

QFN20 4 × 4 mm

The RF output includes a DC-blocking capacitor.

T_peak ≤ 260 °C

RFin: 3

RFout: 13

GND: 2, 4, 12, 14

NC: 1, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20

Package outline dimensions: 4 × 4 × 0.75 mm.

RF characteristics

TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Operating frequency	f	8000	-	12000	-	MHz
Insertion loss	IL	-	0.9	-	-	dB
Limiting level	PLim	-	14	-	-	dBm
Input power handling	Pp	-	-	-	42 (PW = 4 ms; D = 20%)	dBm

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum pulsed input power [1]	-	-	-	42	dBm
Storage temperature	-	-65	-	150	°C
Operating temperature	-	-55	-	125	°C

[1] PW = 4 ms; D = 20%

Package outline dimensions

Parameter	Value	Unit
Package outline dimensions	4 × 4 × 0.75	mm

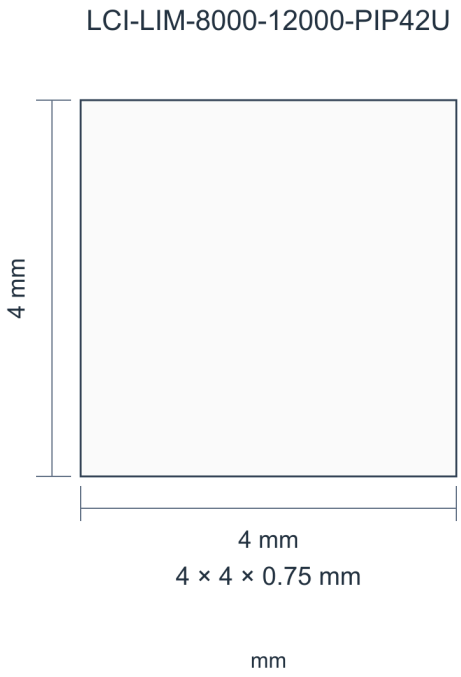
Current publication record · 1.3 · 2026-11-12. Product description or editorial content updated. Replaces revision 1.2.

Integration notes

QFN20 4 × 4 mm The RF output includes a DC-blocking capacitor. T_peak ≤ 260 °C RFin: 3 RFout: 13 GND: 2, 4, 12, 14 NC: 1, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20

Mechanical Outline

Reference drawing showing selected dimensions in mm. Use the complete installation drawing for mounting.



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.