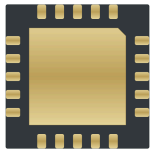
8000–12000 MHz GaAs Packaged RF Limiter — Pp 48 dBm; PW = 300 µs; D = 30%

LCI-LIM-8000-12000-PIP48U · 8000–12000 MHz · GaAs Packaged RF Limiter.



The RF table specifies: Insertion loss 1.2 dB (typical); Limiting level 16 dBm (typical); Input power handling 48 dBm; PW = 300 µs; D = 30%. 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	-	1.2	-	-	dB
Limiting level	PLim	-	16	-	-	dBm
Input power handling	Pp	-	-	-	48 (PW = 300 µs; D = 30%)	dBm

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum pulsed input power [1]	-	-	-	48	dBm
Storage temperature	-	-65	-	150	°C
Operating temperature	-	-55	-	125	°C

[1] PW = 300 µs; D = 30%

Package outline dimensions

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

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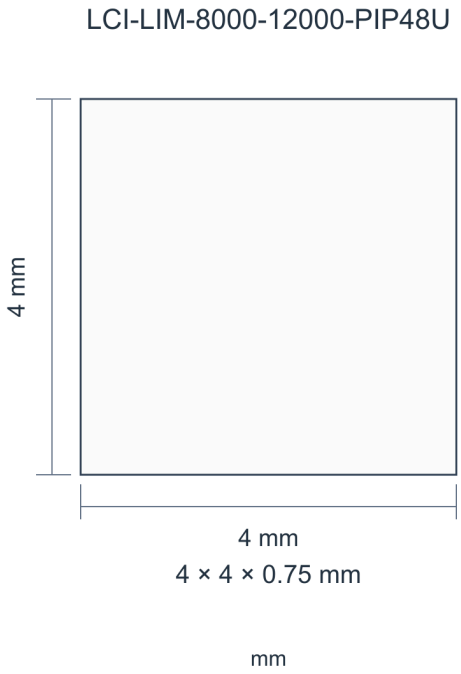
Integration notes

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.