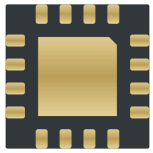
# 6000–18000 MHz GaAs Packaged RF Limiter — Pp 42 dBm; PW = 300 µs; D = 30%

LCI-LIM-6000-18000-PIP42U · 6000–18000 MHz · GaAs Packaged RF Limiter.



The RF table specifies: Insertion loss 1.3 dB (typical); Limiting level 17 dBm (typical); Input power handling 42 dBm; PW = 300 µs; D = 30%. RF test conditions: TA = +25 °C.

QFN16 3 × 3 mm

The RF ports include DC-blocking capacitors.

T_peak ≤ 260 °C

RFin: 2

RFout: 11

GND: 1, 3, 10, 12

NC: 4, 5, 6, 7, 8, 9, 13, 14, 15, 16

Package outline dimensions: 3 × 3 × 0.75 mm.

## RF characteristics

TA = +25 °C

| Parameter | Symbol | Minimum | Typical | Maximum | Value | Unit |
|---|---|---|---|---|---|---|
| Operating frequency | f | 6000 | - | 18000 | - | MHz |
| Insertion loss | IL | - | 1.3 | - | - | dB |
| Limiting level | PLim | - | 17 | - | - | dBm |
| Input power handling | Pp | - | - | - | 42 (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] | - | - | - | 42 | 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 | 3 × 3 × 0.75 | mm |

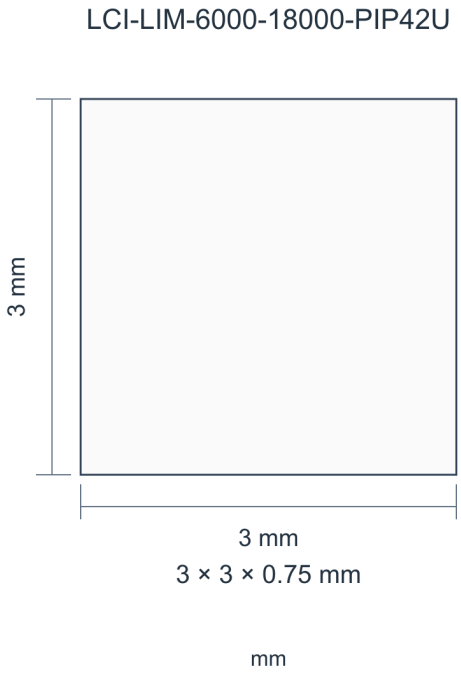
**Current publication record** · 1.3 · 2026-11-12. Product description or editorial content updated. Replaces revision 1.2.

## Integration notes

QFN16 3 × 3 mm The RF ports include DC-blocking capacitors. T_peak ≤ 260 °C RFin: 2 RFout: 11 GND: 1, 3, 10, 12 NC: 4, 5, 6, 7, 8, 9, 13, 14, 15, 16

## 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.