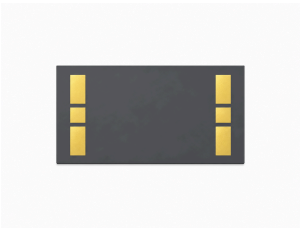
DC–14000 MHz GaAs PIN RF Limiter Die

LCI-LIM-DC-14000-PICW37MAX is a GaAs PIN limiter bare die for DC–14000 MHz, designed to limit RF power ahead of power-sensitive components.

Insertion loss: 0.4 dB (typical) / 0.5 dB (maximum); Limiting level: 16 dBm (typical) / 17 dBm (maximum); Maximum input power: 37 dBm (maximum) (CW). Die dimensions: 1.25 × 0.65 × 0.1 mm.



RF characteristics

TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Operating frequency	-	0	-	14000	DC–14000	MHz
Insertion loss	-	-	0.4	0.5	-	dB
Input VSWR	-	-	1.3	-	-	-
Output VSWR	-	-	1.3	-	-	-
Limiting level	-	-	16	17	-	dBm
Maximum input power	-	-	-	37	CW	dBm

Environmental specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Storage temperature	-	-65	-	150	°C
Operating temperature	-	-55	-	125	°C

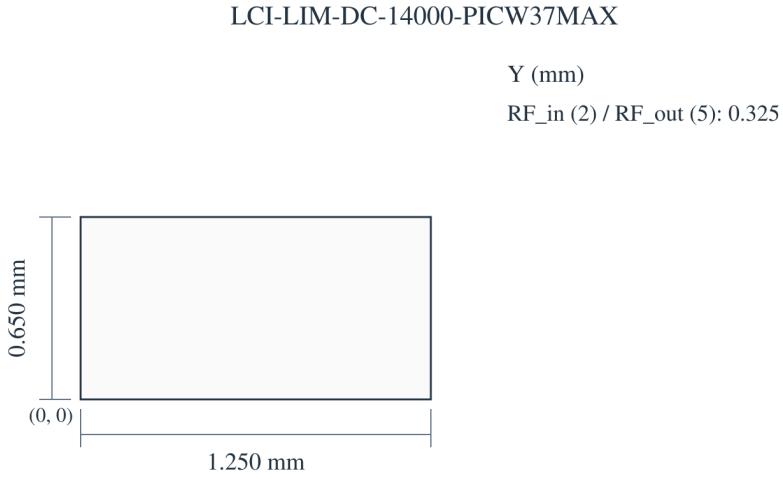
Bond-pad assignments

Pins	Symbol	Function	Notes
2	RF_in	RF input	50 Ω
5	RF_out	RF output	50 Ω
1, 3, 4, 6	GND	Ground pad for probe testing	-

Die dimensions

Parameter	Value	Unit
Die dimensions	1.25 × 0.65 × 0.1	mm

Partial dimensional reference in mm. Fabrication and wire bonding require complete drawings.



Current publication record · 1.6 · 2026-11-12. Product description or editorial content updated. Replaces revision 1.5.

Die integration and bias sequencing

The RF ports have no integrated DC-blocking capacitors.

Performance curves

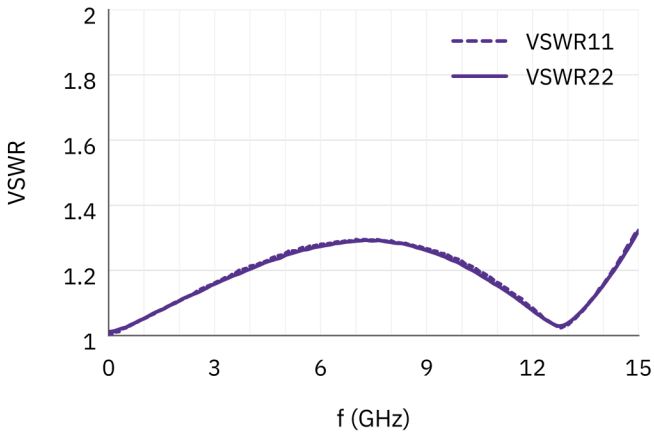
Each performance plot applies to its stated operating conditions.

Input/output matching; Insertion loss.

Figure notes: TA=+25°C. Readings are approximate.

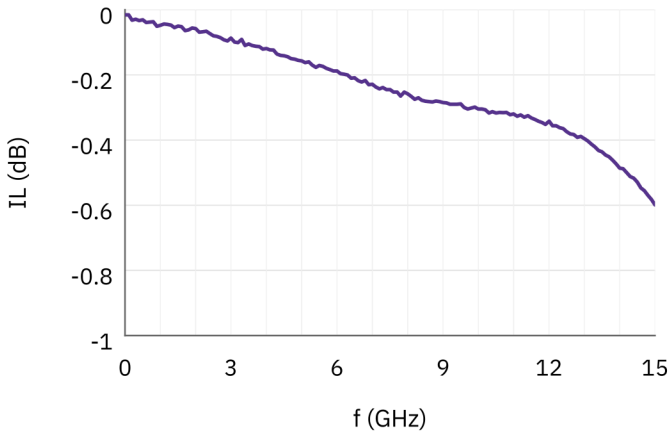
VSWR

TA = +25 °C



IL

TA = +25 °C



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.