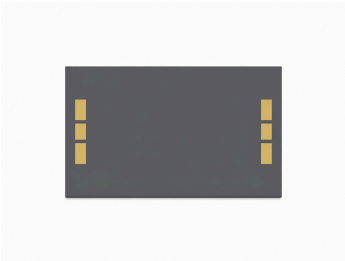


5000–6000 MHz GaAs PIN RF Limiter Die

Insertion loss: 0.45 dB (typical) / 0.5 dB (maximum); Limiting level: 18.5 dBm (typical) / 19.5 dBm (maximum); Maximum pulsed input power: 49 dBm (maximum) ($\tau = 2\text{ ms}$; $D = 20\%$); Maximum pulsed input power: 50 dBm (maximum) ($\tau = 300\text{ }\mu\text{s}$; $D = 30\%$). Die dimensions: $2 \times 1.2 \times 0.1\text{ mm}$.



RF characteristics · TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Operating frequency	-	5000	-	6000	5000–6000	MHz
Insertion loss	-	-	0.45	0.5	-	dB
Input VSWR	-	-	1.2	1.3	-	-
Output VSWR	-	-	1.2	1.3	-	-
Limiting level	-	-	18.5	19.5	-	dBm
Maximum pulsed input power	-	-	-	49	$\tau = 2\text{ ms}$; $D = 20\%$	dBm
Maximum pulsed input power	-	-	-	50	$\tau = 300\text{ }\mu\text{s}$; $D = 30\%$	dBm

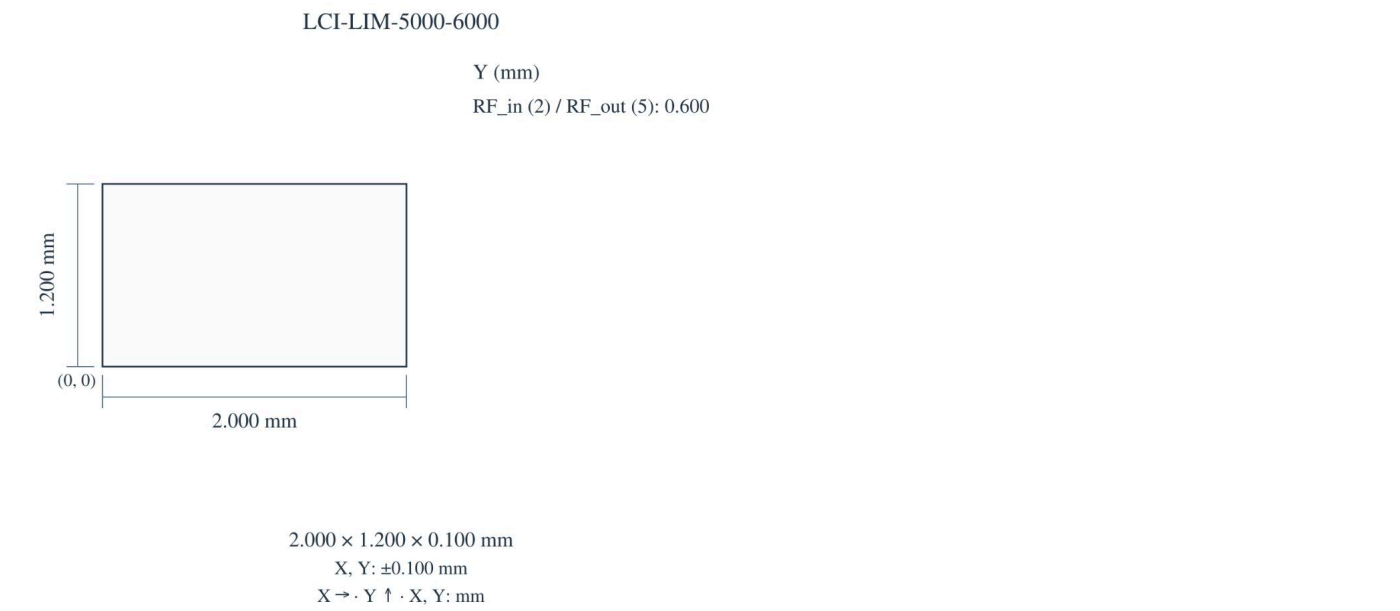
Environmental specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Storage temperature	-	-65	-	150	°C
Operating temperature	-	-55	-	70	°C

Die dimensions

Parameter	Value	Unit
Die dimensions	$2 \times 1.2 \times 0.1$	mm

Mechanical Outline



All dimensions are in mm [in].

Bond-pad assignments

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

Current publication record · 1.3 · 2026-10-27. Product description or editorial content updated. Replaces revision 1.2.

Die integration and bias sequencing

RFout includes an integrated DC-blocking capacitor.

Mechanical reference scope

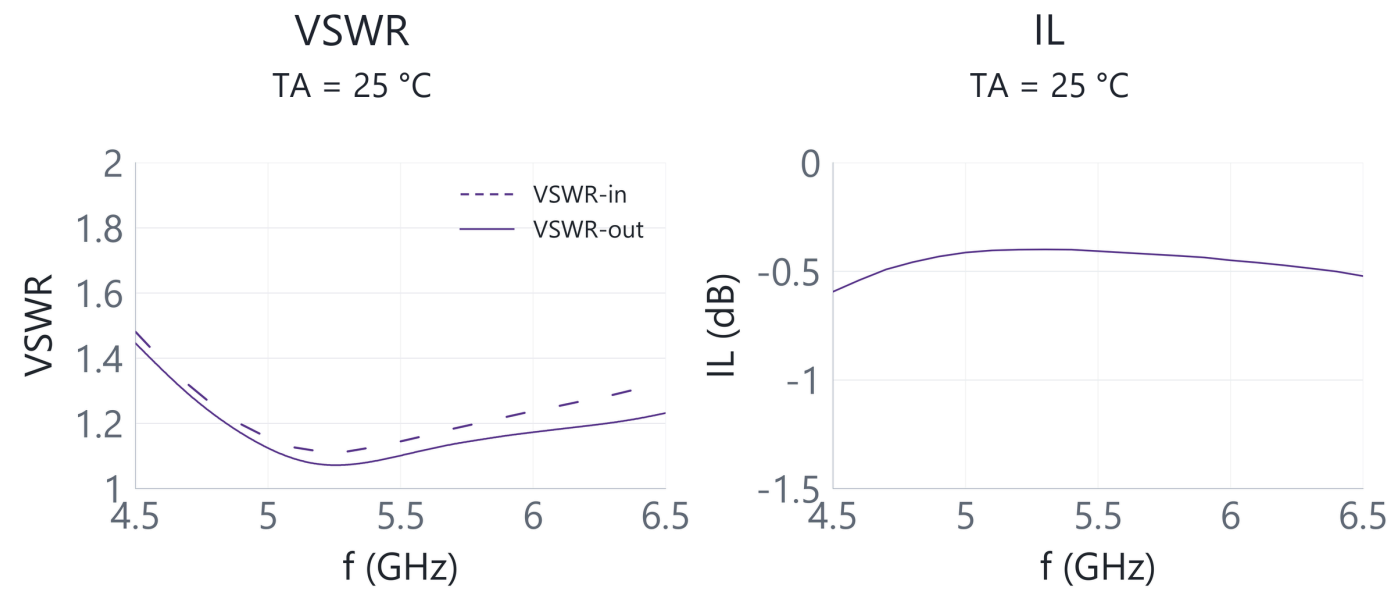
Source-based dimensional guide in mm. Partial information; not a complete fabrication or wire-bonding drawing.

Performance curves

Plots from the source datasheet. Read each figure with its stated operating conditions.

Input/output matching; Insertion loss.

Source-page annotation: TA=+25°C. Redrawn from the source figure; readings are approximate.



[Source](#)

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.