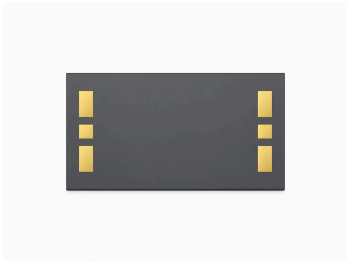


10000–18000 MHz GaAs PIN RF Limiter Die

Insertion loss: 0.8 dB (typical); Limiting level: 17 dBm (typical) / 18 dBm (maximum); Maximum pulsed input power: 45 dBm (maximum) ($\tau = 200\ \mu\text{s}$; D = 30%). Die dimensions: $1.6 \times 0.85 \times 0.1\ \text{mm}$.



RF characteristics · TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Operating frequency	-	10000	-	18000	10000–18000	MHz
Insertion loss	-	-	0.8	-	-	dB
Input VSWR	-	-	1.6	1.8	-	-
Output VSWR	-	-	1.6	1.8	-	-
Limiting level	-	-	17	18	-	dBm
Maximum pulsed input power	-	-	-	45	$\tau = 200\ \mu\text{s}$; D = 30%	dBm

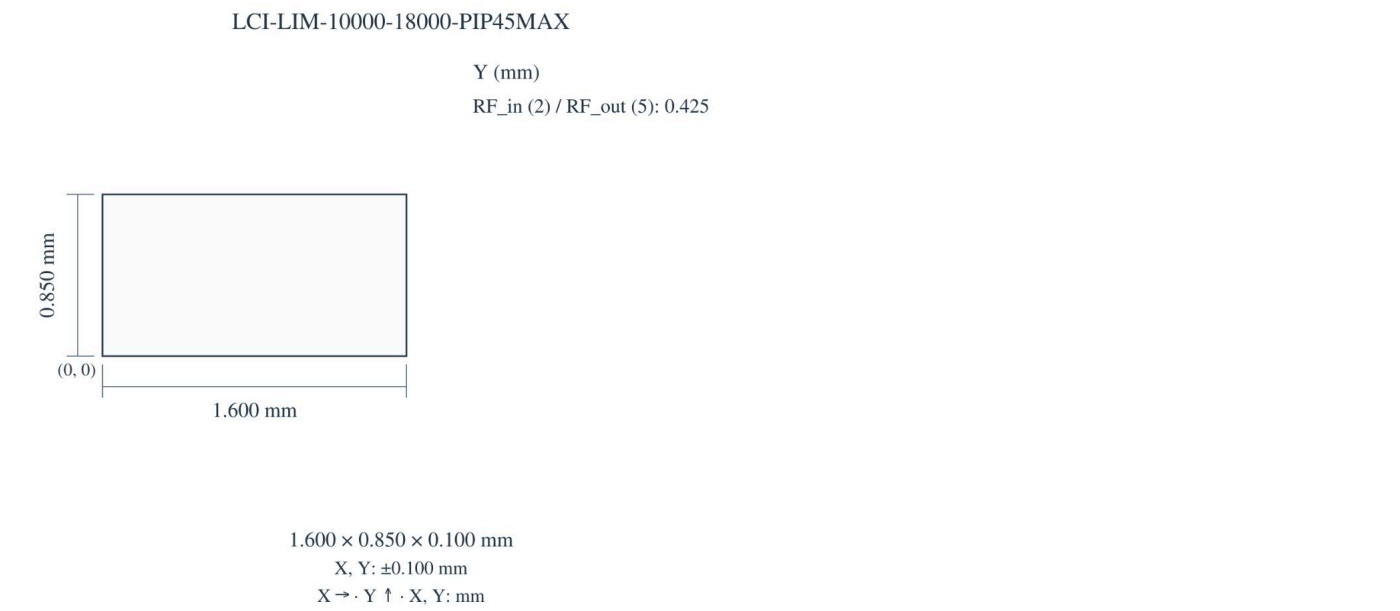
Environmental specifications

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

Die dimensions

Parameter	Value	Unit
Die dimensions	$1.6 \times 0.85 \times 0.1$	mm

Mechanical Outline



All dimensions are in mm [in].

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	-

Current publication record · 1.4 · 2026-10-27. Product description or editorial content updated. Replaces revision 1.3.

Die integration and bias sequencing

Input and output DC-blocking capacitors are integrated.

Mechanical reference scope

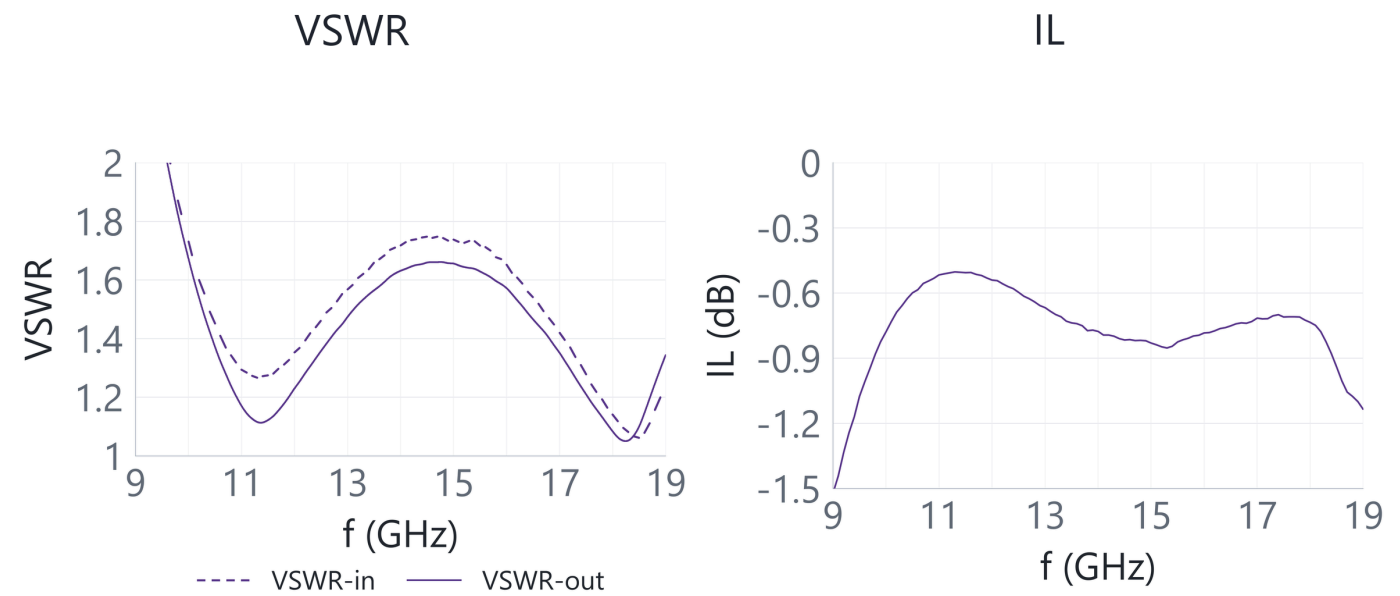
Source-based dimensional guide in mm. Partial information; not a complete fabrication or wire-bonding drawing.

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.