

2000–4000 MHz GaAs PIN RF Limiter Die

Insertion loss: 0.4 dB (typical); Limiting level: 16 dBm (typical) / 17 dBm (maximum); Maximum pulsed input power: 51 dBm (maximum) ($\tau = 100\ \mu\text{s}$; $D = 10\%$); Maximum input power: 48 dBm (maximum) (CW). Die dimensions: $2.6 \times 1.5 \times 0.1\ \text{mm}$.



RF characteristics · $T_A = +25\ ^\circ\text{C}$

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Operating frequency	-	2000	-	4000	2000–4000	MHz
Insertion loss	-	-	0.4	-	-	dB
Input VSWR	-	-	1.3	-	-	-
Output VSWR	-	-	1.3	-	-	-
Limiting level	-	-	16	17	-	dBm
Maximum pulsed input power	-	-	-	51	$\tau = 100\ \mu\text{s}$; $D = 10\%$	dBm
Maximum input power	-	-	-	48	CW	dBm

Environmental specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Storage temperature	-	-65	-	150	$^\circ\text{C}$
Operating temperature	-	-55	-	125	$^\circ\text{C}$

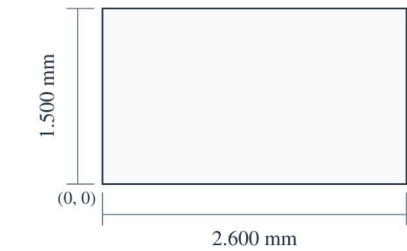
Die dimensions

Parameter	Value	Unit
Die dimensions	$2.6 \times 1.5 \times 0.1$	mm

Mechanical Outline

LCI-LIM-2000-4000-PIP51MAX

Y (mm)
RF_in (2) / RF_out (5): 0.700



$2.600 \times 1.500 \times 0.100$ mm
X, Y: ± 0.100 mm
X $\rightarrow$ · Y $\uparrow$ · X, Y: mm

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	-

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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

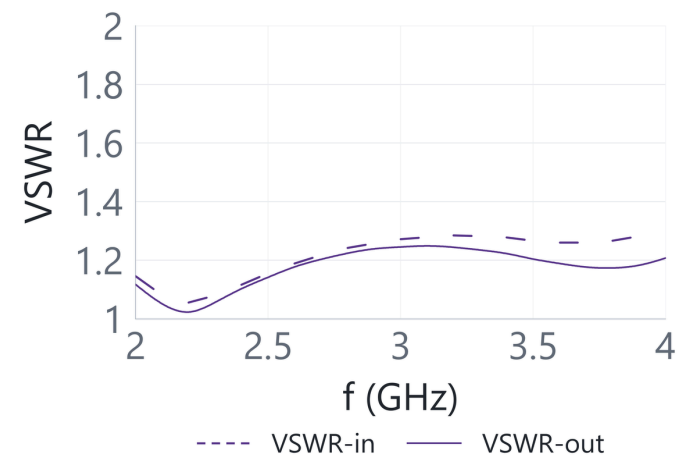
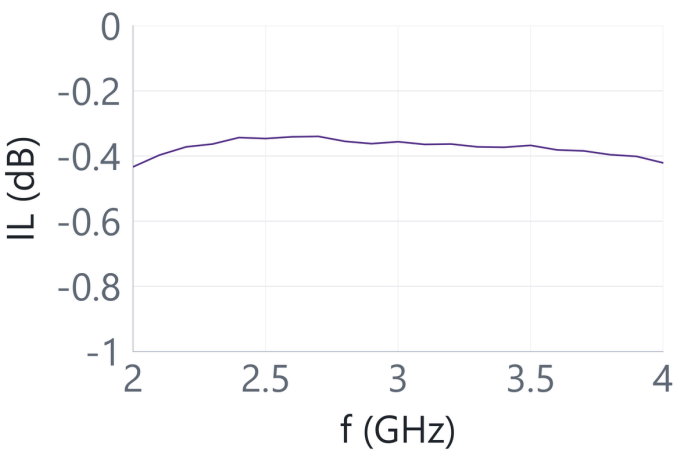
Plots from the source datasheet. Read each figure with its stated operating conditions.

Input/output matching; Insertion loss.

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

VSWR

IL



[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.