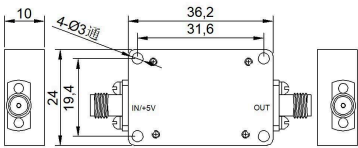


6–9 GHz LNA with RF-Input DC Feed

30 dB typical gain, 2 dB typical noise figure and 15 dBm typical saturated output.



Electrical specifications

Parameter	Value	Unit	Notes
Operating frequency	6000–9000	MHz	-
Gain	30	dB	Typical: 30 dB.
Noise figure	2	dB	Typical: 2 dB.
Saturated output power (Psat)	15	dBm	Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 15 dBm.
Input S11 (signed source value)	–10	dB	Negative S11 convention retained from source; not recast as positive return loss. Typical: -10 dB.
Supply voltage	5	VDC	Typical: 5 VDC.
Dynamic current	100	mA	Typical: 100 mA.

Absolute maximum ratings

Parameter	Value	Unit
Absolute maximum supply voltage	≤7 (Absolute maximum rating; continuous operation or performance at this limit is not established. Maximum: 7 VDC.)	VDC
Absolute maximum input power	≤12 (Absolute maximum rating; continuous operation or performance at this limit is not established. Maximum: 12 dBm.)	dBm
Operating temperature	–40–+70	°C
Storage temperature	–40–+85	°C

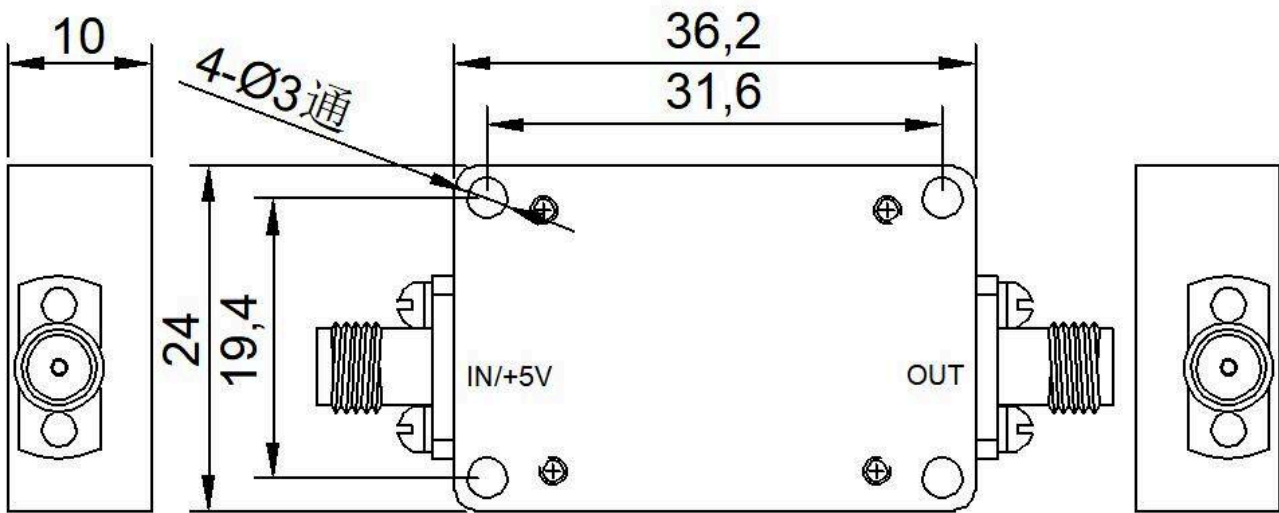
Interfaces and contacts

Parameter	Value	Unit
RF input connector	SMA-K female	-
RF output connector	SMA-K female	-
RF port carrying DC supply	IN / +5 V (DC +5 V supplied through the RF input; source drawing labels IN/+5V.)	-

Mechanical specifications

Parameter	Value	Unit
Body dimensions	36.2 × 24 × 10	mm
Mounting-hole center spacing	31.6 × 19.4	mm
Mounting holes	4 × Ø3 (Four through holes.)	mm

Mechanical Outline



All dimensions are in mm [in].

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.