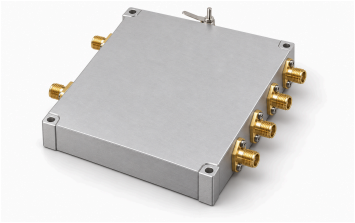
5150–5250 MHz Two-Input Four-Output LNA

For 5150–5250 MHz, two amplifier paths join before branching to four RF outputs. Gain is 25 dB typical, noise figure 1 dB typical and 1.2 dB maximum. Psat is 5 dBm typical, without a per-output qualification.

SMA-K female ports serve the RF connections. The module uses 5 V typical supply and 200 mA typical current with feed-through power and a separate ground sheet. Output isolation and phase balance are not specified.



Electrical specifications

Parameter	Value	Unit
Operating frequency	5150–5250	MHz
Gain	25 (Typical)	dB
Noise figure [1]	1 / 1.2	dB
Saturated output power (Psat) [2]	5 (Typical)	dBm
Input S11 (signed source value) [3]	−10 (Typical)	dB
Supply voltage	5 (Typical)	VDC
Dynamic current	200 (Typical)	mA

[1] Typical: 1 dB. Maximum: 1.2 dB.

[2] Saturated output (Psat), not P1dB or guaranteed linear output.

[3] Negative S11 convention retained from source; not recast as positive return loss.

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

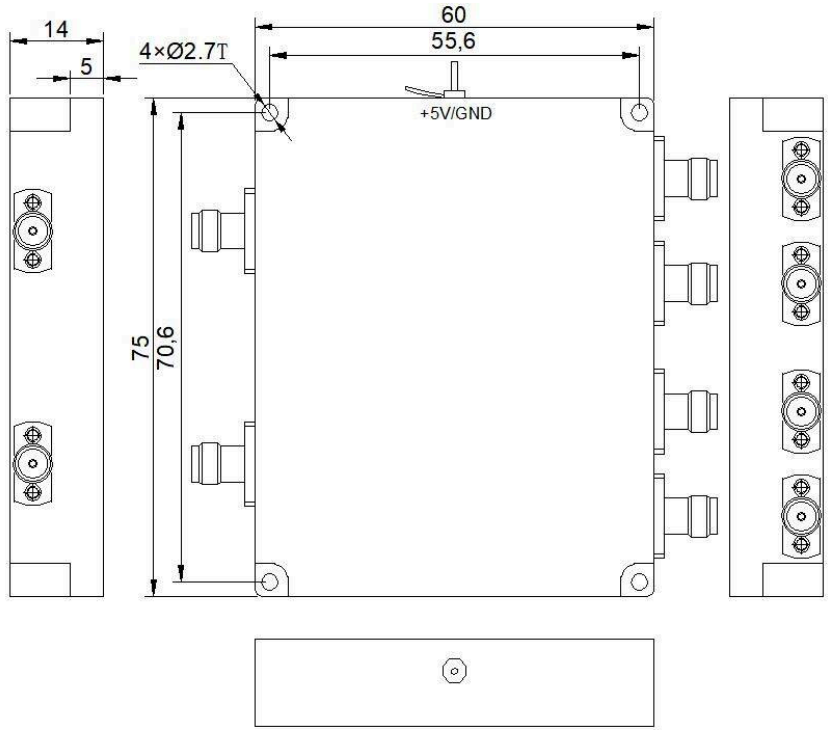
Interface	Specification
RF input connector	SMA-K female
RF output connector	SMA-K female

Interfaces and contacts

Interface	Specification
DC supply interface	Feed-through capacitor
Ground interface	Grounding metal sheet
RF input port count	2
RF output port count	4
Signal routing	Two amplified inputs combined and distributed to four outputs

Mechanical specifications

Parameter	Value	Unit
Body dimensions	75 × 60 × 14	mm
Mounting-hole center spacing	55.6 × 70.6	mm
Mounting holes	4 × Φ2.7T (The original drawing marks T; hole construction is not expanded.)	mm



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.