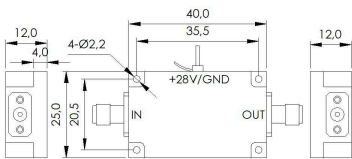


70–6000 MHz Low-Noise Amplifier with Input Limiter

30–33 dB gain range, 3 dB maximum noise figure and 10–36 V operating supply range.



Electrical specifications

Parameter	Value	Unit	Notes
Operating frequency	70–6000	MHz	-
Gain	30–33	dB	-
Saturated output power (Psat)	≤8	dBm	Saturated output (Psat), not P1dB or guaranteed linear output. Maximum: 8 dBm.
Input S11 (signed source value)	≤−10	dB	Negative S11 convention retained from source; not recast as positive return loss. Maximum: -10 dB.
Input/output impedance	50	Ω	Typical: 50 Ω.
Supply voltage	10 / 28 / 36	VDC	Typical: 28 VDC.
Dynamic current	0.06	A	Typical: 0.06 A.
Noise figure	≤3	dB	Maximum: 3 dB.
Input limiter	Integrated	-	-

Absolute maximum ratings

Parameter	Value	Unit
Absolute maximum supply voltage	≤36 (Absolute maximum rating; continuous operation or performance at this limit is not established. Maximum: 36 VDC.)	VDC
Absolute maximum input power	≤35 (Absolute maximum rating; continuous operation or performance at this limit is not established. Maximum: 35 dBm.)	dBm
Operating temperature	−45–+70	°C
Storage temperature	−55–+125	°C

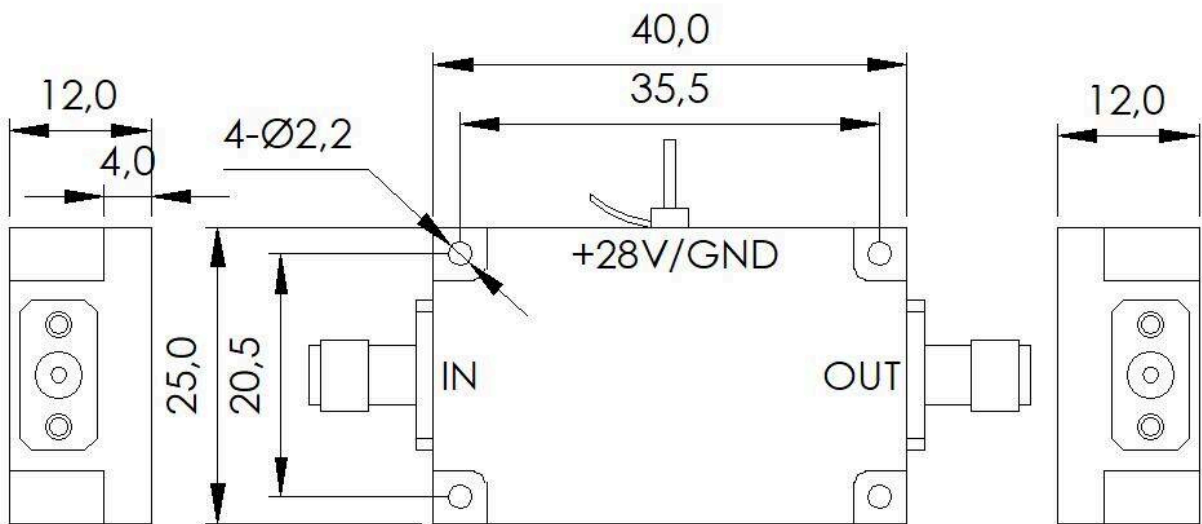
Interfaces and contacts

Parameter	Value	Unit
RF input connector	SMA female	-
RF output connector	SMA female	-
DC supply interface	Φ0.8 (Pin diameter.)	mm
Ground interface	Gold-plated copper post	-

Mechanical specifications

Parameter	Value	Unit
Body dimensions	40 × 25 × 12	mm
Mounting-hole center spacing	35.5 × 20.5	mm
Mounting holes	4 × Φ2.2	mm

Mechanical Outline



All dimensions are in mm [in].

Current publication record · 1.0 · 2026-10-08. First publication of approved product data.

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.