1000–5000 MHz Swept RF Interference Source, 25 W Typical, Variant A



Variant A integrates a swept-frequency signal generator to produce RF output directly across 1000–5000 MHz. Saturated output is 18 W minimum and 25 W typical; typical dynamic current is 3.5 A at 25 W.

The RF output uses SMA with 50 Ω impedance and 28 VDC typical supply. Enable accepts 3.3 V or 5 V, with 0 V off; temperature sensing references 750 mV at 25 °C and scales at 10 mV/°C.

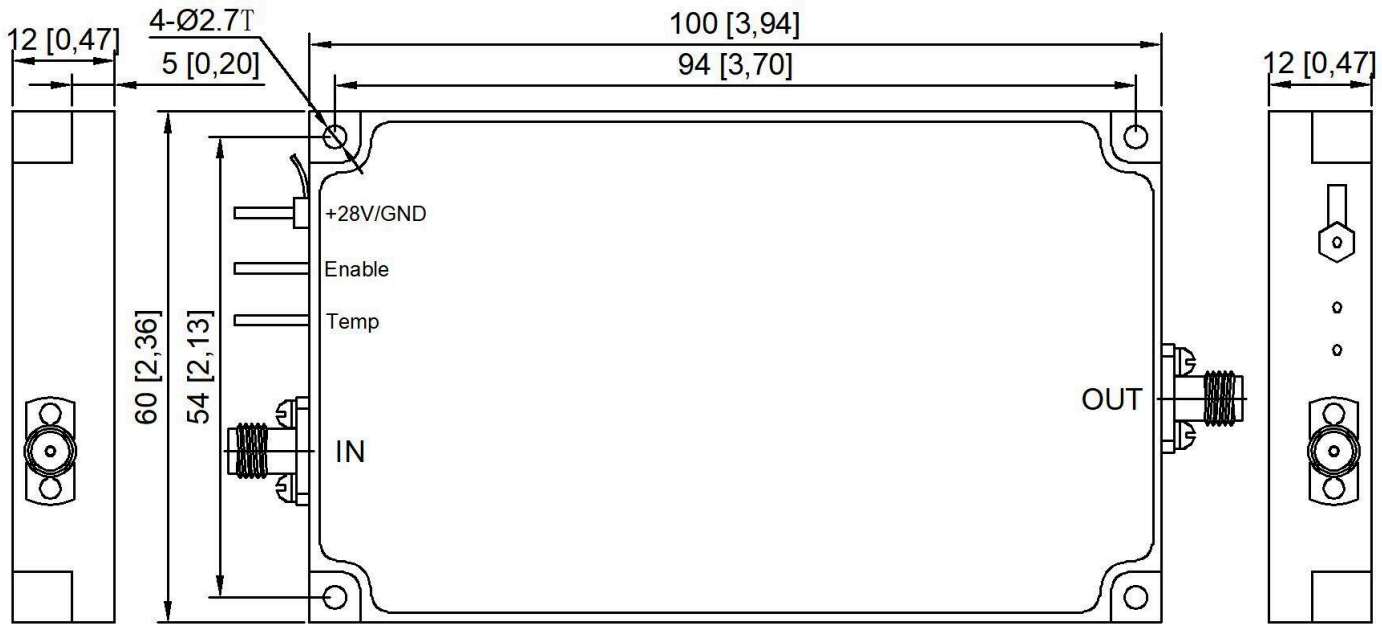
Electrical Specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	BW	1000	-	5000	MHz
RF output power @ PSAT	PSAT	18	25	-	W
Power gain @ PSAT	Gp	42.5	-	-	dB
Harmonics at 25 W	H	-	-12	-	dBc
Output impedance	Impedance	-	50	-	Ω
Operating voltage	VDC	-	28	-	VDC
Dynamic current @ 25W	IDD	-	3.5	-	A
Power-added efficiency	Eff	-	30	-	%
RF output connector	-	-	SMA, female	-	-

Power and control interfaces

Pin #	Description	Specification
-	Positive supply / Ground	+28 VDC / Ground
-	Enable	EN = 3.3 V / 5 V → Enabled; EN = 0 V → Disabled
-	Temperature sense output	750 mV @25 °C; 10 mV/°C

Mechanical Outline



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.