5150–5250 MHz RF Power Amplifier, 50 W Typical, Variant A

Variant A provides 50 W typical output across 5150–5250 MHz and 47 dB typical gain. Typical dynamic current is 6 A at 50 W, with 30% typical power-added efficiency.

The output uses SMA at 50 Ω and typical supply is 28 VDC. Typical harmonics are −25 dBc at 50 W; the displayed mechanical outline comes directly from the source document.



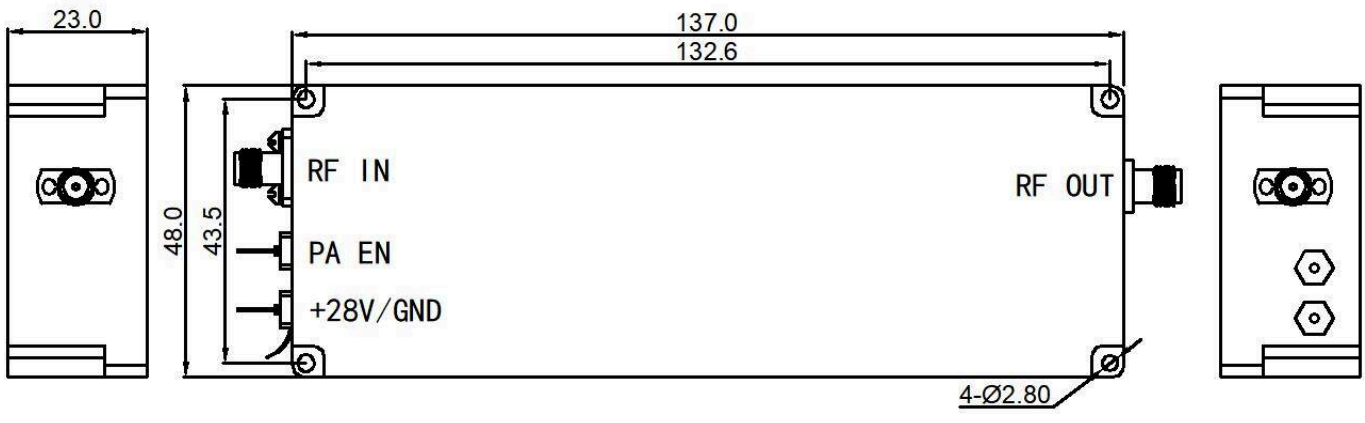
Electrical Specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	BW	5150	-	5250	MHz
RF output power @ PSAT	PSAT	-	50	-	W
Power gain @ PSAT	Gp	-	47	-	dB
Harmonics at 50 W	H	-	-25	-	dBc
Output impedance	Impedance	-	50	-	Ω
Operating voltage	VDC	-	28	-	VDC
Dynamic current @ 50W	IDD	-	6	-	A
Power-added efficiency	Eff	-	30	-	%
RF output connector	-	-	SMA, female	-	-

Mechanical Specifications

Parameter	Value	Unit
Body dimensions	137 × 48 × 23 mm (Body dimensions from the original mechanical drawing dimension lines; excludes protruding RF connectors and DC/control pins. Refer to the original outline drawing for installation protrusions.)	mm

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.