5150–5250 MHz RF Power Amplifier Module, 50 W Typical Saturated Output



LCPAM-5150-5250-50 is a defined-band power amplifier module for communication transmission links, navigation signals and wireless communication. It operates from 5150 to 5250 MHz, with typical saturated output of 50 W and typical gain of 47 dB at saturation.

Typical supply voltage is 28 V DC; typical dynamic current at 50 W is 6 A. The source lists 30% typical power-added efficiency. SMA female RF ports, PA EN and supply terminals are shown on the outline drawing. The 137×48×23 mm housing dimensions exclude connector and terminal projections.

Electrical specifications

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

Interfaces

Interface	Specification
RF connector	SMA, female
Amplifier-enable connection	PA EN (PA EN marking on the outline drawing.)
Supply and ground marking	+28V/GND (+28V/GND marking on the outline drawing.)

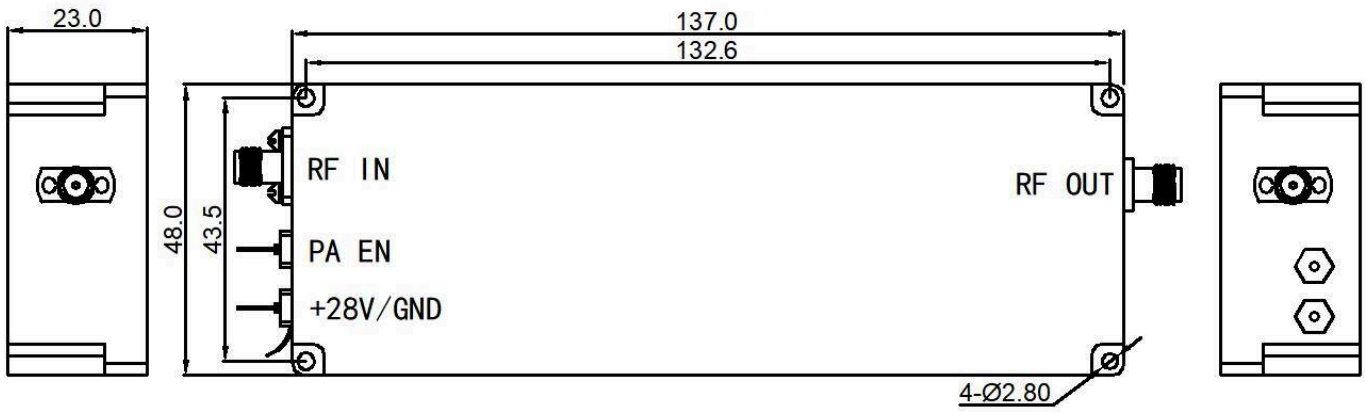
Mechanical specifications

Parameter	Value	Unit
Body dimensions [1]	137 × 48 × 23	mm
Mounting-hole centre spacing [2]	132.6 × 43.5	mm
Mounting holes [3]	4 × Ø2.80	mm

[1] Housing dimensions from the outline drawing; excluding connector and terminal projections.

[2] Centre-to-centre dimensions from the outline drawing.

[3] Four holes as marked on the outline drawing.



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.