2400–2500 MHz RF Power Amplifier Module, 50 W Minimum Saturated Output



LCPAM-2400-2500-50 amplifies signals across 2400–2500 MHz for communication transmission links, navigation signals and wireless communication within the ISM band. Its specified saturated output is at least 50 W, with 47 dB typical gain at saturation.

The module has a typical operating voltage of 28 V DC and a typical dynamic current of 4 A at the source's stated 50 W working point. The outline drawing identifies RF IN, RF OUT, PA EN and +28V/GND connections. The housing measures 128×48×23 mm, with four mounting holes; connector and terminal projections lie outside those housing dimensions.

Electrical specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	BW	2400	-	2500	MHz
Saturated RF output power	PSAT	50	-	-	W
Power gain @PSAT	Gp	-	47	-	dB
Operating voltage	VDC	-	28	-	V
Dynamic current @50 W	IDD	-	4	-	A
Harmonics @50 W	H	-	-25	-	dBc
Output impedance	Impedance	-	50	-	Ω
Power-added efficiency	Eff	-	40	-	%

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.)

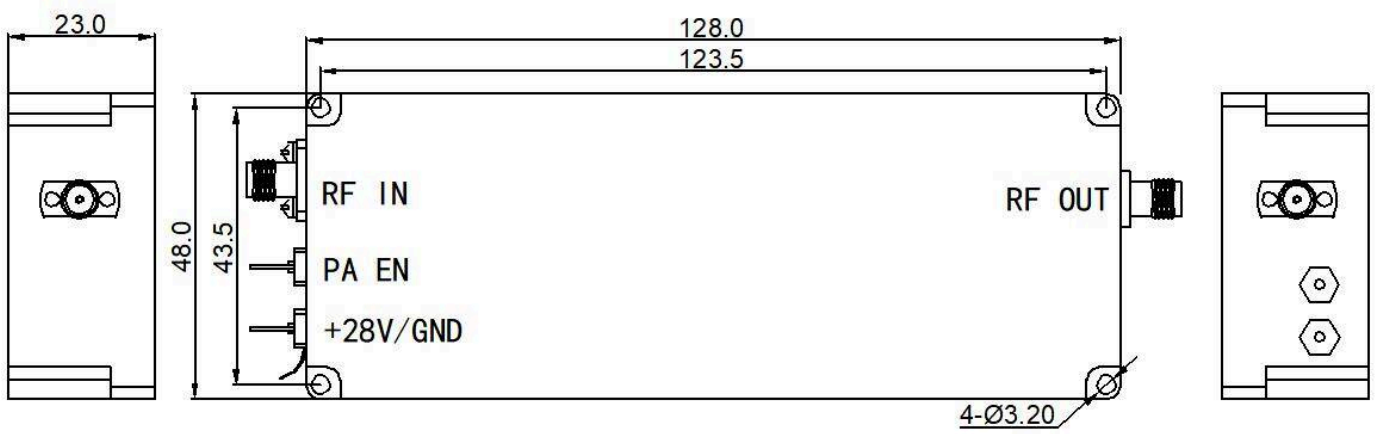
Mechanical specifications

Parameter	Value	Unit
Body dimensions [1]	128 × 48 × 23	mm
Mounting-hole centre spacing [2]	123.5 × 43.5	mm
Mounting holes [3]	4 × Ø3.20	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.