2400–2485 MHz RF Power Amplifier Module, 50 W Minimum Saturated Output



LCPAM-2400-2485-50 is a power amplifier module for communication transmission links, navigation signals and wireless communication over 2400–2485 MHz. The specified saturated output is at least 50 W, while gain at saturation is typically 47 dB.

The source gives 28 V DC typical operation and 4 A typical dynamic current at 50 W. SMA female RF connections and the PA EN connection are shown with the supply terminals. The 128×48×23 mm housing has four mounting holes; its dimensions exclude the projecting connectors and terminals.

Electrical specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	BW	2400	-	2485	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.)

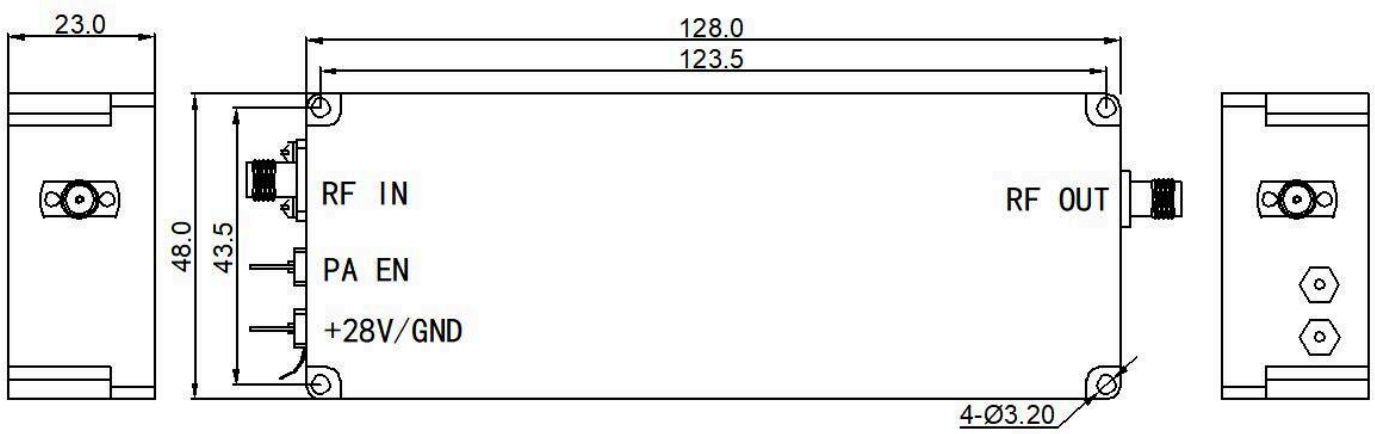
Mechanical specifications

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.