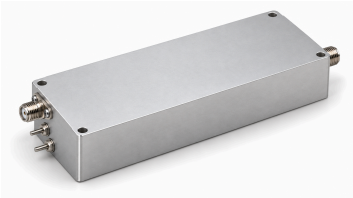
5725–5850 MHz RF Power Amplifier Module, 50 W Typical Saturated Output



LCPAM-5725-5850-50 provides RF signal amplification for communication transmission links, navigation signals and wireless communication in its specified 5725–5850 MHz band. Its saturated output power and gain at saturation are typically 50 W and 47 dB respectively.

The module uses 28 V DC typical operation; dynamic current at the stated 50 W point is typically 6 A and power-added efficiency is typically 30%. The drawing shows SMA female RF connections, PA EN and supply terminals. Housing size is 137×48×23 mm, excluding the projecting connections.

Electrical specifications

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	BW	5725	-	5850	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.)

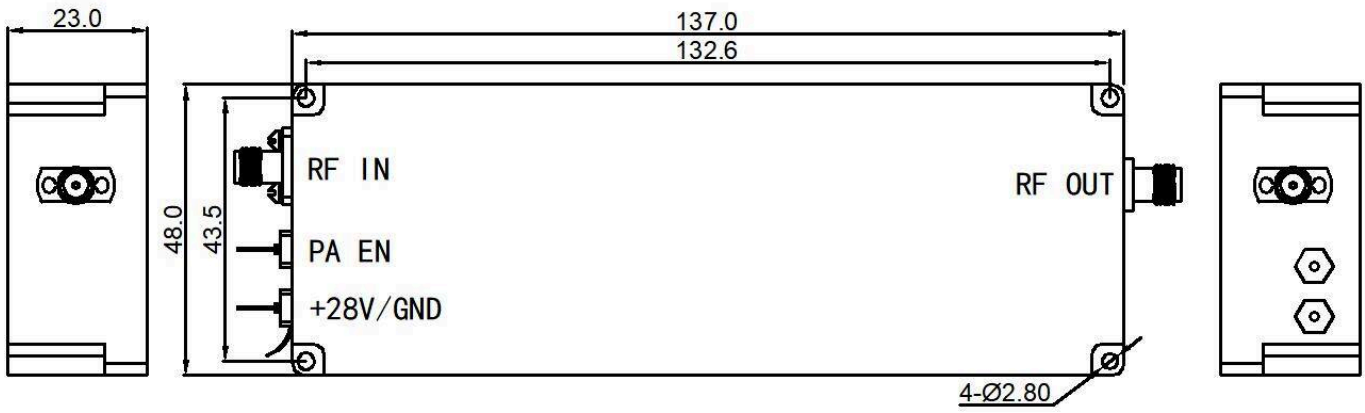
Mechanical specifications

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.