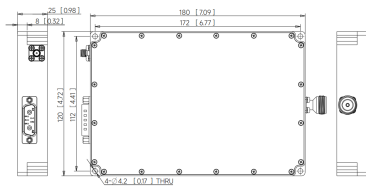


5725–5885 MHz RF Power Amplifier, 200 W Typical, RS-485

The conservatively presented band is 5725–5885 MHz as stated in the header and description; the table’s extension down to 5720 MHz remains unconfirmed. The table specifies 150 W minimum and 200 W typical output, with 52 dB minimum and 53 dB typical gain. These table values are at 28 VDC, 25 °C and 50 Ω.



Electrical Specifications · +28.0VDC; 25°C; 50Ω

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	BW	5725	-	5885	MHz
RF output power	Pout	150	200	-	W
Power gain	Gp	52	53	-	dB
Power gain flatness	Gp	-	±2	-	dB
VSWR	S11	-	1.5	-	-
Harmonics at 100 W	H	-	-12	-	dBc
Spurious signals	Spur	-	-60	-	dBc
Input/output impedance	Impedance	-	50	-	Ω
Operating voltage	VDC	24	28	32	VDC
Power-added efficiency	Eff	-	30	-	%
Current consumption at Pout = 100 W	IDD	-	18	-	A

Monitoring and Protection

Parameter	Specification
Monitoring	Voltage, current, output power, reflected power, and temperature
Output VSWR protection	VSWR 3–3.5 → Shutdown
Over-temperature protection	85 °C → Shutdown
Supply protection	(VDC >32 V) or (VDC <24 V) or Reversed polarity → Shutdown
Over-current protection	IDD >23 A → Shutdown

Absolute Maximum Ratings

Parameter	Rating
RF input drive without damage	+10 dBm maximum
Load VSWR at Pout = 100 W	3:1; All load phases and amplitudes; continuous
Thermal overload	85 °C → Shutdown (maximum)

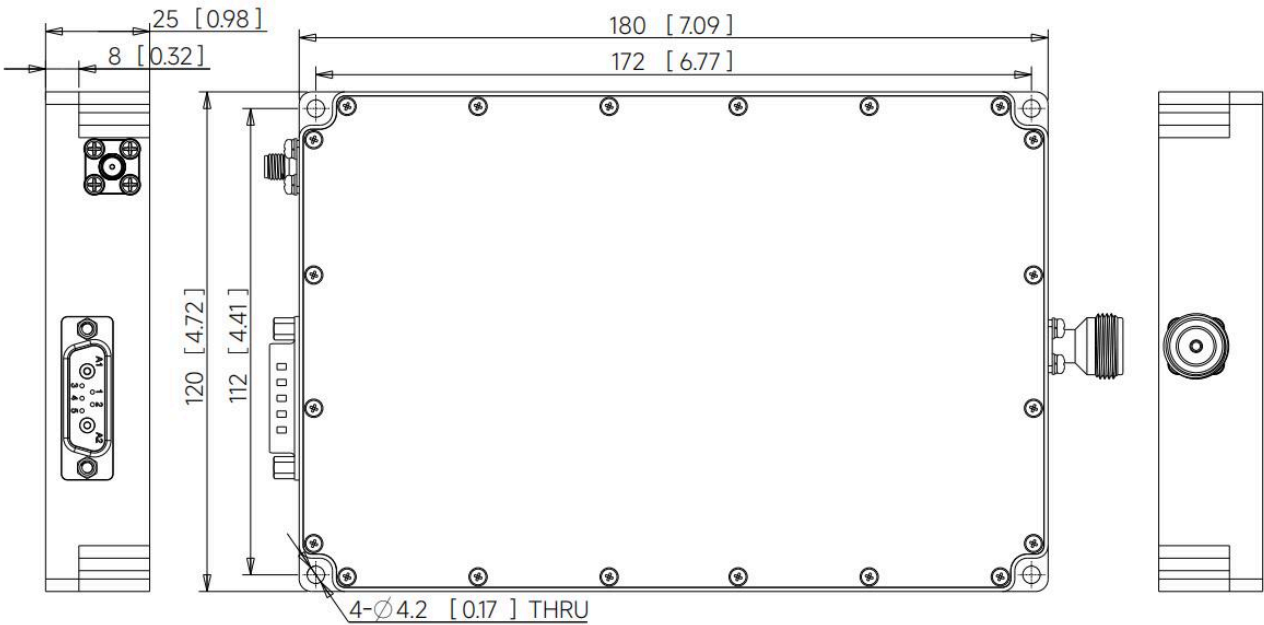
Environmental Specifications · Environmental design targets; qualified test results are not established.

Parameter	Minimum	Typical	Maximum	Unit	Notes
Operating temperature	-20	-	50	°C	-
Storage temperature	-25	-	65	°C	Storage temperature
Relative humidity (non-condensing)	-	-	95	%	-

Mechanical Specifications

Parameter	Value	Unit
Dimensions	180 × 120 × 25[7.09 × 4.72 × 0.98] mm [in] (maximum)	mm [in]
Weight	2[4.4] kg [lb] (maximum)	kg [lb]
RF input connector	SMA, female	-
RF output connector	N, female	-
DC/control interface	Hybrid, D-Sub 7, male	-

Mechanical Outline



All dimensions are in mm [in].

DC and Control Interface

Pin #	Description	Specification
A1	A1 — Ground	Ground
A2	A2 — Positive supply	+28V
1	1 — Enable	TTL logic high (3.3 V); internally pulled low
2	2 — Ground	Ground
3	3 — 485A	RS-485 serial communication
4	4 — 485B	RS-485 serial communication
5	5 — Not connected	Not connected

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.