

Features

- ◆ Broadband Power Amplifier
- ◆ Class AB design
- ◆ Built-in protection circuits
- ◆ High reliability and ruggedness
- ◆ 50 ohm input/output impedance



Applications

- ◆ Test Equipment
- ◆ Communication Systems

Electrical Specifications: 50Ω, 25°C

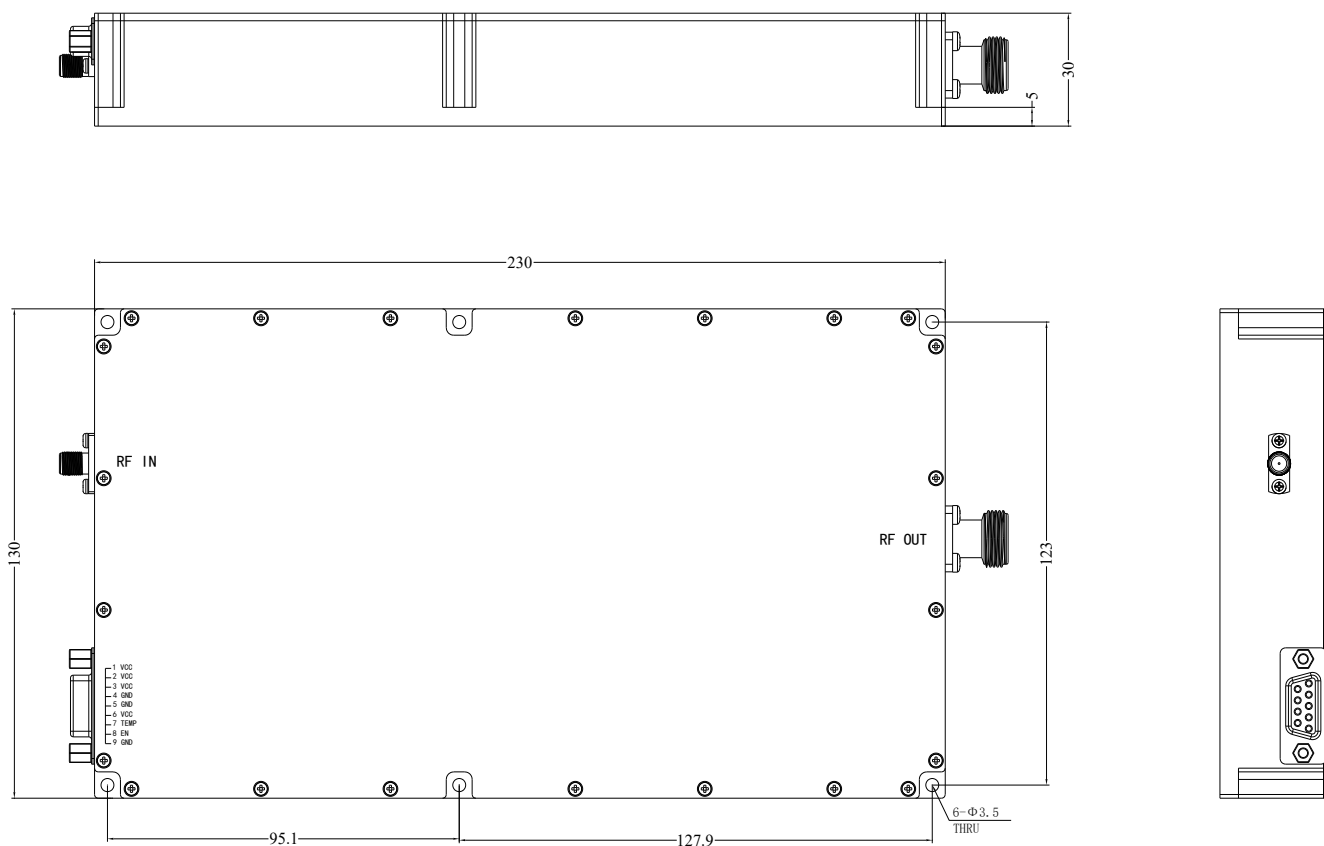
Parameter	Min	Typ	Max	Units
Operating Frequency	30		108	MHz
RF Power Output CW	57	58		dBm
Output Power for 1 dB Compression (P1dB)	53	54		dBm
Gain	64	66		dB
Gain Flatness		± 1.5	± 2	dB
Input VSWR		1.5		:1
Harmonics		-15	-10	dBc
Spurious			-60	dBc
Supply Voltage	46	48	50	V
Supply Current(VCC=48V)		4	27	A
Input RF drive level without damage			0	dBm

Environmental Specifications

Operating Case Temperature	-30°C to +70°C
Storage Temperature	-50°C to +105°C

Mechanical Specifications

Dimensions (Excluding Connectors)	230 X 130 X 30 mm
RF Connectors	SMA-Female/N-Female
DC Interface Connector	D-SUB-9
Weight	1.8kg
Cooling	Forced air required (Option)



DC Interface Connector: D-sub, 9-Pin, Female

Pin #	Name	Function
1	VDD	+46.0-50.0VDC
2	VDD	+46.0-50.0VDC
3	VDD	+46.0-50.0VDC
4	GND	Ground
5	GND	Ground
6	VDD	+46.0-50.0VDC
7	TEMP	When the temperature of the case exceeds 70 °C, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 60 °C, the power amplifier will return to normal operation, and this pin will be pulled low.
8	EN	Amplifier Enable: TTL Logic High (5V) (Internally Pulled-High) Amplifier Disable: Short to ground
9	GND	Ground