



Power Amplifier

Model: PA-1G-1G1-500

1-1.1GHz 500W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 1-1.1GHz
- High output power at saturation, 500W Min.
- High gain, 50 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-1G-1G1-500 is a power amplifier with a typical gain of 50 dB and a minimum Psat of 500W across the frequency range of 1 to 1.1 GHz. The DC power requirement for the amplifier is +32 VDC/5 A. The input and output port configuration offers coax adapter structure with SMA female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	1		1.1	GHz
Gain	45	50		dB
Gain Flatness		±1	±2	dB
Output P1dB	50	53		dBm
Output Psat	57	57.5		dBm
Input VSWR		1.5	2	:1
DC Voltage	+30	+32	+34	V DC
DC Supply Current		5	50	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-20°C to +50°C	
Non-operating Temperature*	-30°C to +60°C	
Relative humidity	95	%
RF Input/Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Altitude	10,000	feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	230*150*25	mm
Weight	1500	g

*Note: For a wider temperature range, please consult the manufacturer.

Absolute Maximum Ratings:

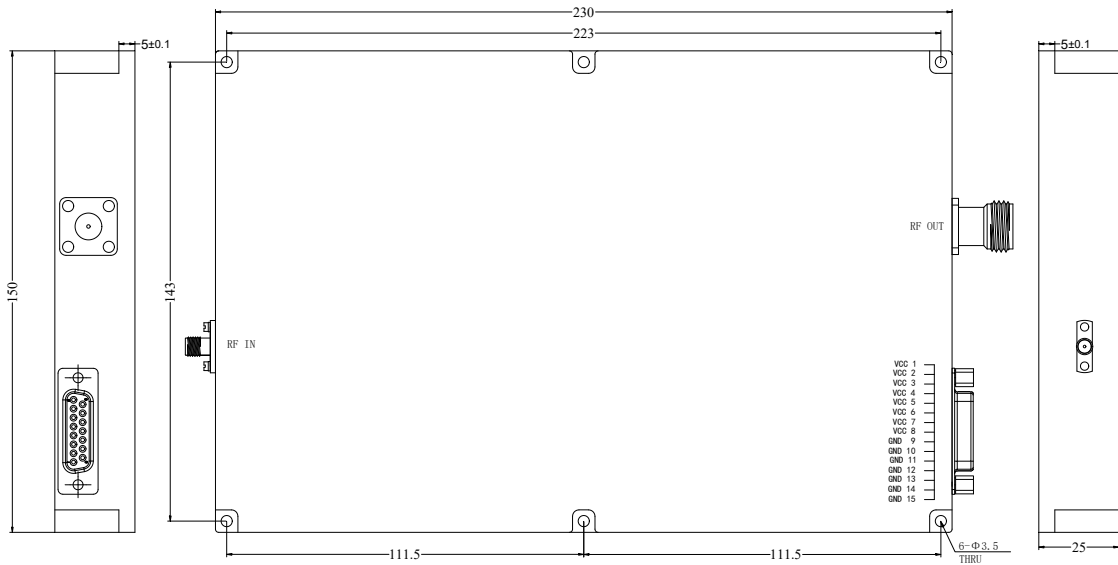
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-1G-1G1-500



Ordering Information:

Base Number	Description	Optional
PA-1G-1G1-500	Power Amplifier, 1-1.1GHz, Gain:50dB,Psat:500W,+32V DC	Without Heatsink
PA-1G-1G1-500-HS	Power Amplifier, 1-1.1GHz, Gain:50dB,Psat:500W,+32V DC	With Heatsink