

500 - 2500MHz 50W Power Amplifier Specifications

Electrical performance indicators:

index	parameter
working frequency	500MHz ~ 2500MHz
gain	$\geq 50\text{dB}$
maximum input power	+2dBm
Output C W saturation power	$\geq 50\text{W}$
In-band gain flatness	$\pm 3.5\text{dB}$
temperature protection	8.5 °C power amplifier protection is turned off, and 6.5 °C power amplifier is turned on
Amplifier efficiency	$\geq 20\%$
input port standing wave	≤ 2.6
Clutter suppression	$\geq 65\text{dBc}$
Harmonic suppression	$\geq -8\text{dBc}$
RF input interface	SMA-F
RF output interface	SMA-F
Power interface	VH-4A
Amplifier enable switch	Low-level, floating power amplifier work, high-level (1.8~ 5 V) off
Supply voltage	DC + 28V
maximum supply voltage	DC+ 31V
Dimensions	See below
Operating temperature	- 25°C ~ + 65°C
Installation method	A radiator needs to be installed for power amplifier testing

Definition of power interface (VH-4A):

pin number	definition
1	+ 28V
2	+ 28V
3	GND
4	GND

Power amplifier enable control (136-02ST) interface:

pin number	definition	Remark
1	enable switch	Off: 1; On: 0 or floating
2	land	

The outline structure diagram is as follows:

