

PULSE SSPA

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C Band 5.3-5.9GHz 200W Pulse SSPA

Frequency: 5300-5900MHz

Pout: >200W

Modulation Type: Pulsed

Working Voltage: 28VDC

Place of Origin:	Shenzhen, China
Brand Name:	YONLIT, OEM, ODM
Model Number:	HPP53(5.3-5.9GHz)

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[Description](#)

Feature:

- Over-high VSWR to avoid or reduce the damage from any mismatch
- Over-high temperature protection, Shutdown more than 75°C, auto-restart less than 50°C.

Applications:

For Phased Array RADAR, Electronic warfare, electronic countermeasure, [SDR](#),

Description

- Any malfunction or damage to the amplifier caused by improper operation that violates the following instructions will not be covered by the warranty.
- Please notice that the Pin (peak) is completely different from Pin (average). 200 μ s, 20%, 6dBm Pin (peak) is actually -1dBm Pin

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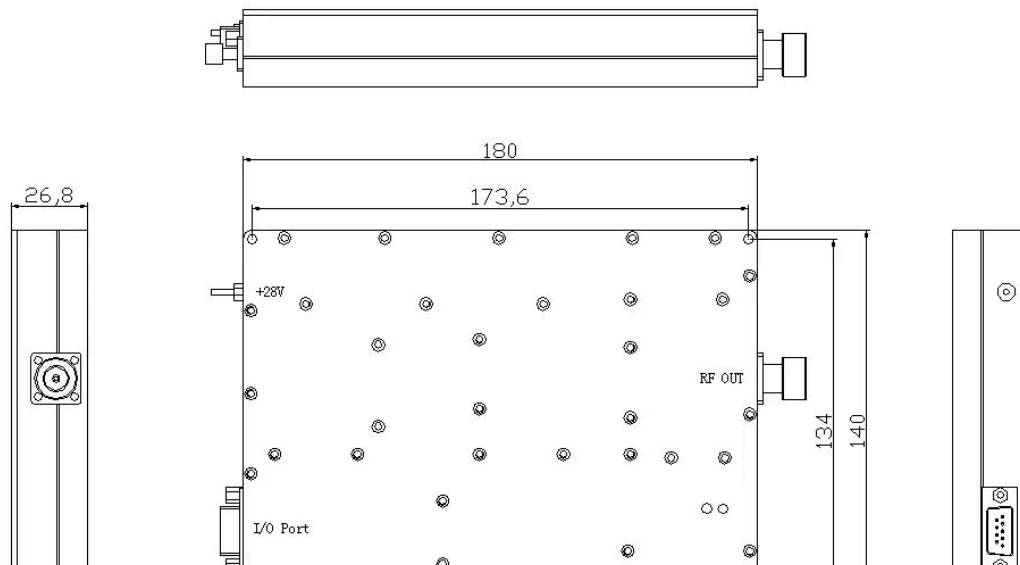
- verify and ensure the input signal with instruments that comply with the following requirements:

- Pout probably is lower the rated power if the Pin is lower than 3dBm; PA probably is damaged if the Pin is higher than 15dBm;
- Ensure that the power supply voltage meets 48VDC $\pm$ 1VDC;
- Ensure that all of the above requirements are met. Turn on the power switch then the amplifier can work properly.

No.	Item	Specification
1	Frequency	5300-5900MHz or customized
2	Pout (Pulse ,Peak)	53dBm $\pm$ 1dB
3	Pin	3-6dBm (Pulse, Peak)
4	Max Pin (undamaged level)	10dBm (Pulse, Peak)
5	Pulse width	<200 us
6	Pulse Duty cycle	<20%
7	Pulse Rise/Fall time	<100 ns
8	RF IN/OUT VSWR	2
9	Harmonic suppression	50dBc
10	Spurious emission	50dBc
11	Working temperature	-25°C to 65°C
12	RF IN Connector	SMA-Female
13	RF OUT Connector	N-Female
14	Ic (Quiescent current)	0.5-0.8A
15	Ic (Working average current)	<4A
16	Supply voltage	40VDC $\pm$ 1VDC
17	Dimension	180*140*30mm
18	Protection	Shutdown over High-Temperature and Auto-restart

I/O Port (DB15 Female)

PIN7: Pr (Reversed RF Power)
PIN10: Pf (Forward RF Power)
PIN11: Enable PA (5V: PA OFF; Hang in air or grounding: PA ON)
PIN12: TA (Temperature alarm, Alarm: 5V; Normal: 0V)
PIN14: Tc (Temperature: 0.01V/1°C, 0.75V @25 °C)
PIN15: GND
PIN1-PIN5, PIN8: NC.


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- * Please notice that the Pin (peak) is completely different from Pin (average). 200 μ s, 20%, 6dBm Pin (peak) is actually -1dBm Pin (average).
- * PA should operate on an appropriate radiator, and it's recommended to paste the silicon grease in between. Otherwise, PA would be shut down by high temperatures;
- * PA's output port cannot open or short;
- * PA's output port should connect to a proper load (Load: Either an attenuator connects with a power meter or an antenna. The VSWR of the load should be less than 1.3);
- * The Pin range and polarity of the power supply must be correct;
- * Verify and ensure the input signal to PA that comply with the following requirements:
Frequency: 2.7-3.5GHz
Pulse duty: < 20%
Pulse width: <200 μ s
Pin: 3-6dBm(peak)
- * Pout probably is lower the rated power if the Pin is lower than 3dBm; PA probably is damaged if the Pin is higher than 15dBm;
- * Ensure that the power supply voltage meets 48VDC $\pm$ 1VDC;
- * Ensure that all of the above requirements are met. Turn on the power switch then the amplifier can work properly.

Related Products



700-2700MHz 150W Broadband Amplifier



C Band 5.2-5.8GHz 200W Pulse SSPA



S band 2.7-3.1GHz 500W Pulse SSPA



1.8/1.9/2.1/2.6GHz 100W Amplifier

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