SPA-0P6-6-300 Solid State Power Amplifier

(0.6GHz - 6GHz, 300W)

Key Features

- Multi-octave broadband performance
- High output power
- Wide dynamic range
- High-efficiency GaN technology
- Low power consumption
- Low spurious signal
- Extremely load-resistant
- Forward & reverse power monitoring
- Over voltage, over temperature, over current protection
- CE, RoHS certification

Overview

Saluki SPA-0P6-6-300 is a solid-state RF power amplifier with an output frequency of 0.6GHz to 6GHz and an output power of 300W. Its design is based on the most advanced GaN technology in the industry, and its power output is efficient and reliable. It is mainly used for testing and measuring instruments, Communication or interference, aviation control and other fields. The product has functions such as temperature and current detection, alarm protection and so on.

Technical Specifications

SPA-0P6-6-300			
Frequency Range	0.6GHz - 6GHz	**Input Power**	0dBm (max.)
Output Power	300W (min.)	**Harmonic**	-10dBc (max.)
Gain	60dB (min.)	**Spurious**	-60dBc (max.)
Gain Flatness	± 4dB (max.)	**Input VSWR**	2:1 (max.)
Adjustable Gain	20dB (max.)	**Impedance**	50 Ω
Cooling Type	Air cooling		

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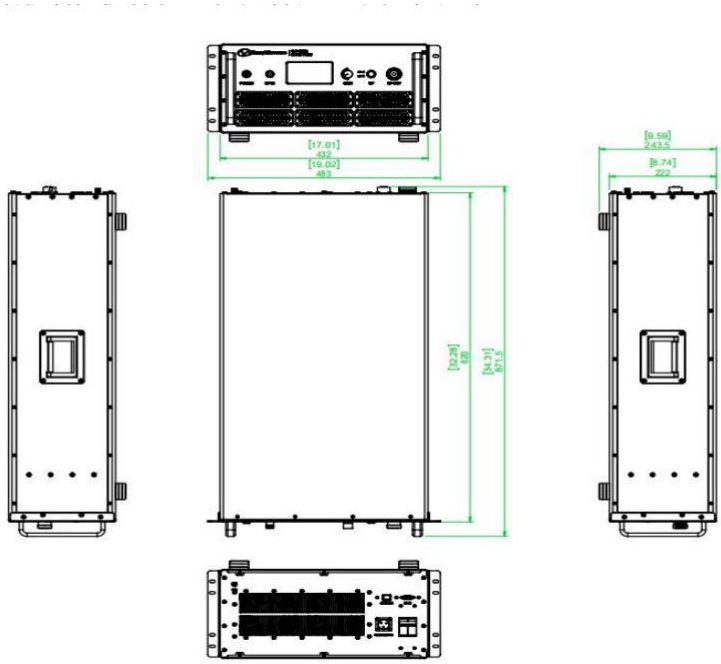
Input Port	N-F (female)	**Output Port**	7/16 (female)
Communication Interface	RS485, LAN, GPIB	**Power Supply**	AC 220V±10%, 50/60Hz
Dimension	1270×503×610 mm	**Weight**	160kg
Operating Temperature	0 - 50℃		

Outline Structure



Note: *Information will conduct the necessary updates，the contents of this document are subject to change without notice.*

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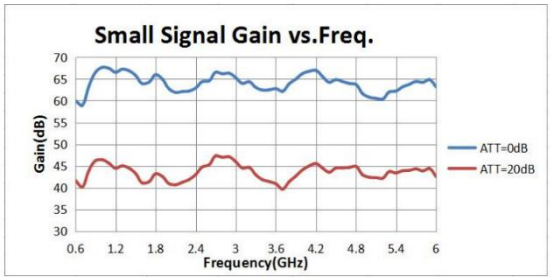
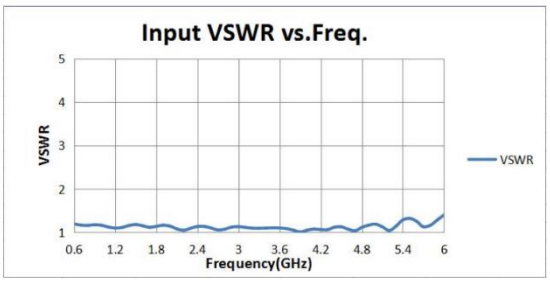
Measured data

1、Small signal test

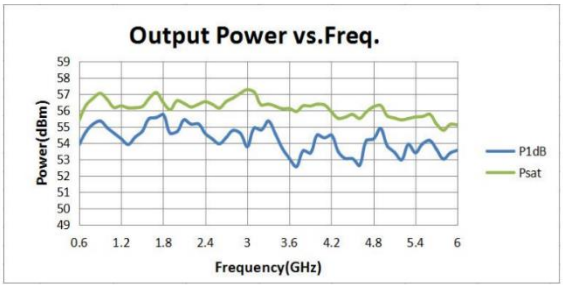


Small signal gain at room temperature of 25℃

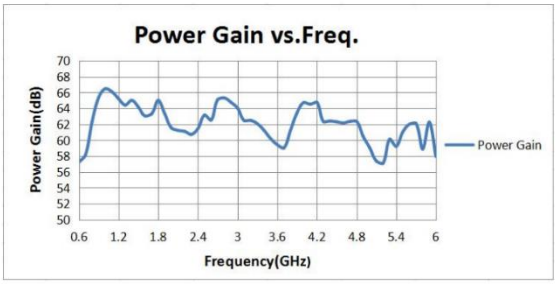


Input standing wave at room temperature of 25℃

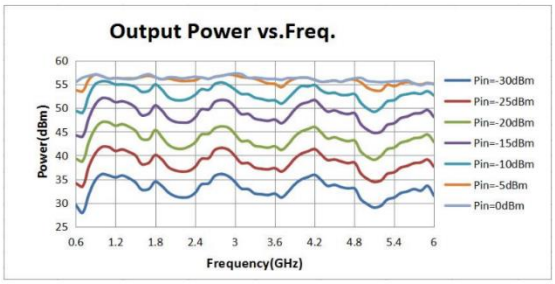
2、Large signal test



P1, P3, and Psat output power



Power gain (Pout=55dBm)



The output power under different input conditions

Gain compression curve

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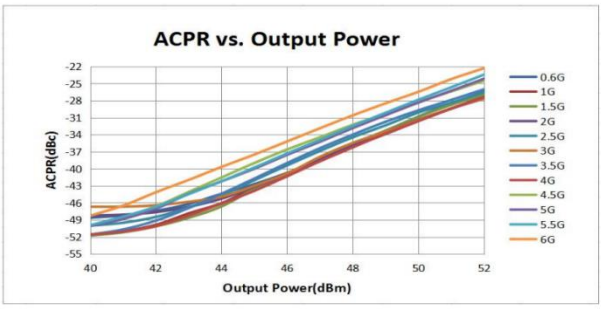
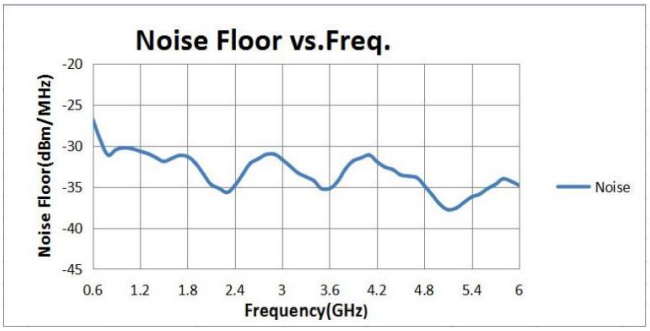


ACPR

Third-order intermodulation

3、Background noise



Background noise curve

interference power

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