

# 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

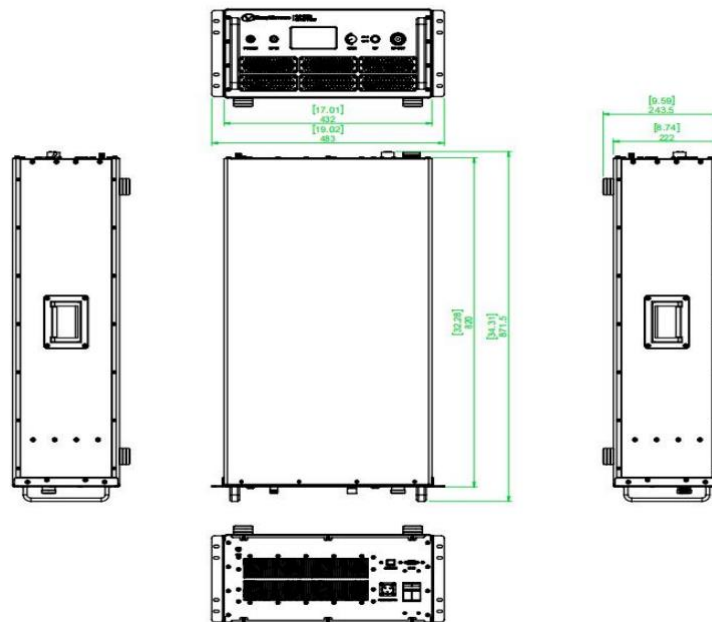
SPA-0P6-6-300			
Frequency Range	0.6GHz - 6GHz	Input Power	0dBm (max.)
Output Power	300W (min.)	Harmonic	-10dBc (max.)
Gain	60dB (min.)	Spurious	-60dBc (max.)
Gain Flatness	± 4dB (max.)	Input VSWR	2:1 (max.)
Adjustable Gain	20dB (max.)	Impedance	50 Ω
Cooling Type	Air cooling		

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

## Outline Structure



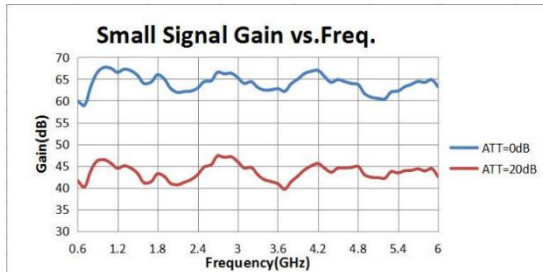
*Note: Information will conduct the necessary updates, the contents of this document are subject to change without notice.*

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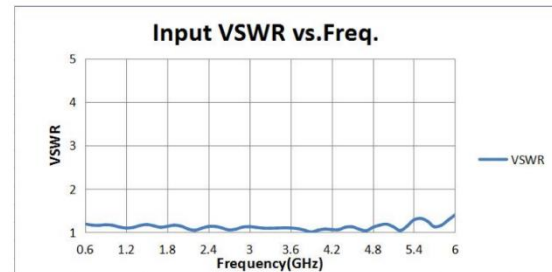
(0.6GHz - 6GHz, 300W)

## Measured data

### 1、 Small signal test

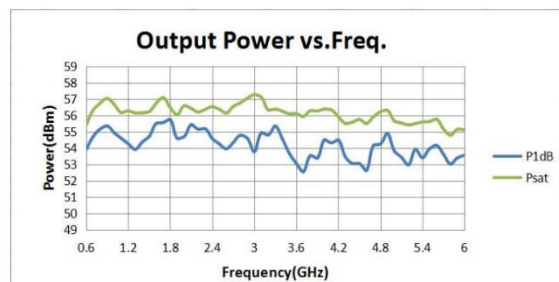


Small signal gain at room temperature of 25°C

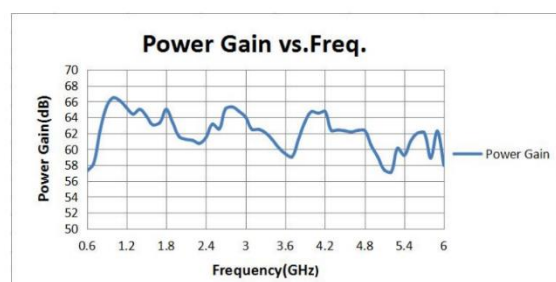


Input standing wave at room temperature of 25°C

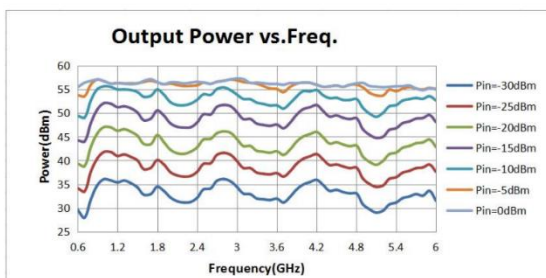
### 2、 Large signal test



P1, P3, and Psat output power



Power gain (Pout=55dBm)



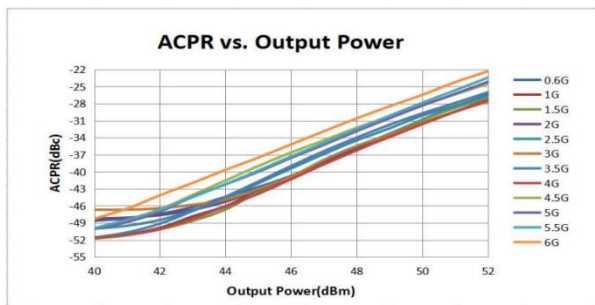
The output power under different input conditions



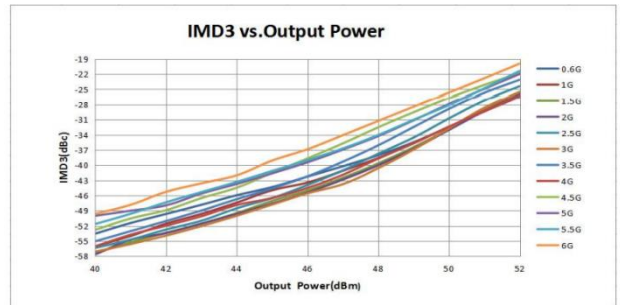
Gain compression curve

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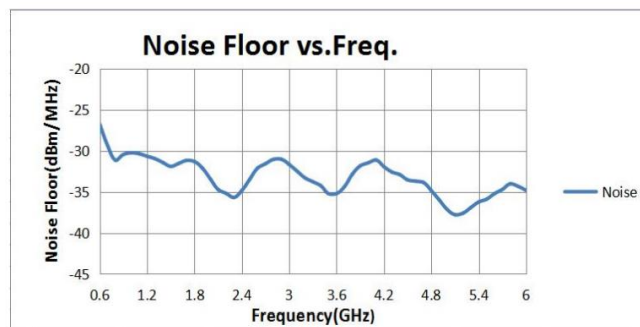


ACPR



Third-order intermodulation

### 3、Background noise



Background noise curve



interference power