

## X Band 150W Power Amplifier

The 150W X Band power amplifier operates in the frequency band 8,5GHz÷9,5GHz with a peak power level output up to 150 Watt. The PA is based on GaN technology suitable for pulsed signal with 10% duty cycle.

All technical characteristics and features, together with a preliminary block diagram, are below described in the table. The RF Generator is enclosed in a custom frame, weight and dimension are indicated in the drawings.



### Features:

150W peak power;  
Duty cycle: 10%  
Vdc 40V  
VSWR protection

### Control Interface: (Front Panel Available)

D-sub interface connectors (2x)  
RF Output: Waveguide WR90  
SMA female RF input

The image is purely indicative, just to show the outer layout of the HPA

### 1.0 Technical Specification

Parameters	Frequency (GHz)	Unit	Note
Frequency Range	8,5÷9,5	Hz	
Output Power	150	Watt	@ 9GHz, duty10%
	51,76	dBm	51,5 min
Interface Conn.	D-Sub male 9p		Vdc 40V and gating control
	D-Sub female 9p		Vdc 12V and bite and measurements
RF Interface	SMA Female		RF input
	Waveguide WR90		RF output
DC Input	40	V	
VSWR	2:1		
Harmonics	< -40	dBc	
Operating Temperature	0 to 50	°C	
Storage Temperature	-40 to + 80	°C	
Environmental	0 to 40	°C	

## 2.0 Block Diagram

