

VBA2000-10000P

1000MHz-2000MHz 10000W
Solid State Pulsed Amplifier



- Solid State GaN Technology
- Pulse amplifier

The VBA 2000-10000P is a pulsed amplifier operating over the 1-2GHz frequency band with 10kW output power.

It utilizes GaN technology for its specific suitability for this application, giving high pulse power and solid-state reliability.

The amplifier is programmable from either the front panel or remote control via the USB/GPIB/Ethernet communication interface.

Technical Specification

Electrical	
Frequency Range (Instantaneous)	1 – 2 GHz
Rated Output Power	10kW pulsed
Gain	70dB Min
Gain variation with Frequency	±2dB at rated power
Harmonics at 10kW	Better than -20dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR Tolerance (see note 2)	Infinity any phase
Input VSWR	2:1 (Max)
Supply Frequency Range	45-63Hz
Supply Power	3 Phase 350-415Vac, 5 pin plug (With neutral)
Mains Connector	EN60309 plug
Pulse rise/fall time	<50n
Pulse delay (external)	<200ns
Pulse width	100µs max at 10kW
Duty cycle	10% max at 10kW
Mechanical	
RF Connector Style	Input type N female, 7/16
Pulse Input	BNC(f)
Communication Interface	USB/GPIB/Ethernet
Dimensions	27U Rack
Mass	140kg
Operating Temperature Range	0-40°C
Case Style Options	Rack with rear panel connectors
Regulatory Compliance	
Conducted and Radiated Emissions	EN61326 Class A
Conducted and Radiated Immunity	EN61326:2013 Table 1
Safety	EN61010-1

Note
Output VSWR tolerance is specified for excitation within the permitted levels and frequency range.