Solid State RF Power Amplifier
Model SSPA-9.0-10.0-1E3

Providing 1000 Watts Pulsed RF Power, the Model SSPA-9.0-10.0-1E3 Solid State Power Amplifier operates from 9.0 to 10.0 GHz with superior performance for radar and EW applications. High Peak Power and efficient operation ensure system reliability and performance in demanding environments.

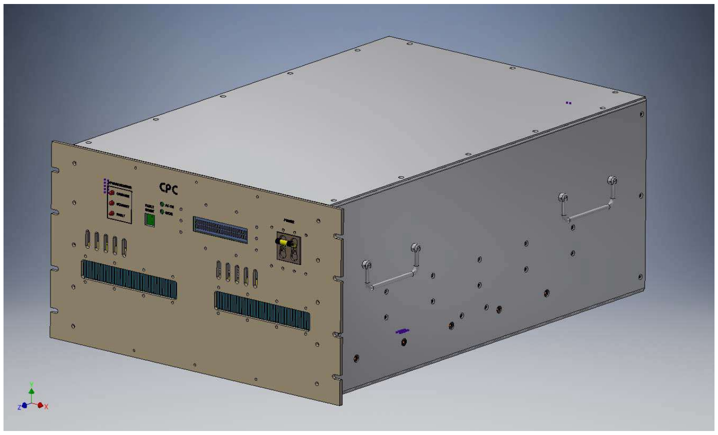
Features:
- High Gain
- Applicable for EW or Radar Systems
- Over Temp Protection
- Remote Interface Available

Key Parameters
- 9.0 – 10.0 GHz
- 1000 Watts Typical Output Power
- 50 dBm Power Gain
- Pulse Operation
- Rack Mount

CPC delivers exceptional products from HF to Ka Band. CPC's full line of high performance Solid State Power Amplifiers are designed specifically for CW or Pulse Radar, EW, Medical, Scientific, or Communication applications. These systems consist of single or multi-channel matched amplifiers that enable transmitting systems to meet the power levels needed, both today and in the future.

Unique combining methodology coupled with more efficient thermal management supports smaller footprints and higher power levels exceeding 100 kW.

Contact CPC with your specific requirements to discuss support for your system solution.



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CPC Amps
Communication Power Corporation

80 Davids Drive, Suite 3
Hauppauge, NY 11788
631-434-7306 • sales@cpcamps.com • cpcamps.com

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Solid State Power Amplifier

Specifications

Parameter	Units	Min	Typ	Max
Electrical Specifications				
Operating Frequency	GHz	9.0		10.0
Peak Output Power	W	850	1000	
Psat, Pulse	dBm	59	60	
Pulse Width	µs			100
Duty Cycle	%			10
Power Gain	dB	50	60	
Pulse Droop	dBm		0.5	
Blanking Time TTL Input	µs		1	
Harmonics at Rated Psat	dBc			-25
Spurious	dBc			-60
Input/Output Impedance	Ohms		50	
Input Return Loss	dB	15		
Max Load VSWR				3:1
Input Voltage	VAC/Hz	120 – 240 VAC/50 – 60 Hz Single Phase		
Mechanical Specification				
Dimensions (less connectors)		19' Rack Mount, 7RU		
Weight	Lbs	150		
Connector – Input		SMA(f)		
Connector – Output		TNC(f)		
Connector – Blanking		BNC(f)		
Cooling		Internal Forced Air		
Environmental Characteristics				
Operating Temperature	°C	+10		+40
Storage Temperature	°C	-40		+60
Relative Humidity	%	90%, Non-Condensing		
Shock/Vibration		Lab/Base Station Environment, Mil-STD-810		
Remote Interface				
Optional Remote Interface		Ethernet, USB, Serial, Discrete		

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