8000 W, L-Band RF Amplifier
Model AR-1030-1090-8E3

Delivering 8000 W Peak Output Power, the AR-1030-1090-8E3 High Power SSPA from CPC is ideal for IFF system and Test Equipment applications. The unit performs from 1030 to 1090 MHz with pulse widths up to 45 µs. The unit exhibits fast Rise and Fall Times with superior Gain Flatness to make it easily integrated into systems.

CPC's line of rugged Solid State Power Amplifiers are custom designed specifically for CW/Pulse Radar, EW, Medical, Scientific or Communication applications. These systems consist of single or multiple channels of matched amplifiers that are ideal for creating uniform transmitters to meet your specific power needs. Power levels are available from 1 to >100 kW operating from 100 kHz to 32 GHz.

Features:
- High Gain
- Applicable for IFF Systems
- Internal Protection
- Remote Interface
- Rack Mount

Key Parameters:
- 1030 – 1090 MHz
- 8000 Watts Output Power
- 69 dB Power Gain
- Pulse Operation
- Rack Mount

Specifications

Parameter	Units	Min	Typ	Max
Electrical Specifications				
Operating Frequency	MHz	1030		1090
Output Power, Pulsed	W	8000		
Gain (0 dBm input)	dB		+69	
Gain Flatness	dB		±0.75	
Duty Cycle	%			2
Pulse Width	µsec			45
Droop/Tilt	dB	0.3 - 0.5		
Rise/Fall Time	nsec	150 - 200		
Circulators		Internal		
Input/Output Impedance	Ohms		50	
Blanking Signal		TTL Active High (RF on = +5 Vdc)		
Internal Protecton		AC/DC Overvolt, Temperature, Load VSWR		
Input Voltage		240 VAC, Single Phase		
Mechanical Specifications				
Size		19" W x 10.5" H x 26" D (approx.)		
Connector, Input		N(F)		
Connector, Output		7/16		
Connector, Blanking		BNC(F)		
Cooling		Forced Air (Front to Rear)		
Remote Interface				
Remote Interface Protocol		TTL Parallel Port		
Front Panel Controls				
Front Panel		AC Power/Fault Reset		

Contact CPC today to discuss a solution to fit your system requirements.

90 Davids Drive, Hauppauge, NY 11788
631-424-7306 x1347 • Sales@CPCAmps.com • www.CPCAmps.com

CPC Amps
Communication Power Corporation