

800 W, S-Band RF Amplifier

Model AR-2700-3500-8E2

Delivering 800 W Peak Output Power, the AR-2700-3500-8E2 High Power SSPA from CPC is ideal for Radar Test Equipment and other EW/Radar applications. The unit performs from 2700 to 3500 MHz with pulse widths up to 55 μ s. The unit can be configured with a variety of options to make it easily integrated into a system. Complete remote control is available via discrete, serial, or Ethernet.

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 Radar or EW Systems
- Remote Interface Available

Key Parameters:

- 2700 – 3500 MHz
- 800 Watts Output Power
- 32 dB Power Gain
- Pulse Operation
- Rack Mount



Specifications

Parameter	Units	Min	Typ	Max
Electrical Specifications				
Operating Frequency	MHz	2700		3500
Output Power, Pulsed	W	800		
	dBm		59	
Input Power	dBm		<27	
Pulse Width	μ s			55
Duty Cycle	%			2
Power Gain	dB		32	
Input/Output Impedance	Ohms		50	
Input Voltage	Vdc	120 VAC, 60 Hz		
Mechanical Specifications				
Form Factor		Rack Mount or Bench Top		
Size		10.5" x 19" x 26"		
Remote Interface				
Optional Remote Interface		Ethernet, USB, Serial, Discrete		

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

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System Features:

Protection functions:

- Maximum forward power
- Maximum VSWR
- Power supply
- Regulator
- Duty Cycle
- Pulse Width
- Thermal
- Energy

Controls, front panel:

- AC power on/off
- Fault reset

Connectors, rear panel:

- AC mains, Receptacles, EMI filtered
- RF input: SMA (F)
- RF output: Type N (F)
- Blanking (Gate): BNC (F)
- Discrete Interface: 25 pin D (F), EMI filtered
- Protective ground: threaded bolt

Front panel indicators:

- AC power on
- Standby
- Shutdown
- Summary Fault
- Blanking (Gate)

Interface functions:

(C= Control Input F= Flag Output)

- Standby (C/F)
- Shutdown (C/F)
- Blanking (Gate) (C)
- Blanking (Gate Not) (C)
- Fault Summary (F)
- Fault Reset (C)
- Pulse Width (F)
- Duty Cycle (F)
- Regulator (F)
- Thermal (F)
- Power Supply (F)
- Energy (F)
- VSWR (F)
- Max Power (F)

Outline Drawing:

