

2.1 TECHNICAL SPECIFICATIONS

The SSPA specified herein is capable of meeting or exceeding the performance specifications listed in the following table over the frequency range, operating temperature and line voltage variation, unless otherwise specified. The SSPA will meet all RF performance specifications within thirty minutes after the application of prime power.

TABLE 1: TECHNICAL SPECIFICATIONS	
Operating Frequency	5.40 - 5.90 GHz
Input Signal	Pulsed CW
Input Level	20 dBm
Input Impedance	50 Ohms
Input Return Loss	18 dB
Input Connector	SMA
Peak Output Level	(P1dB) 51.5 dBm
Output Impedance	50 Ohms
Output Return Loss	18 dB
Output Connector	Type N
Gain versus Frequency	31.5 $\pm$ 1 dB over operating band
Gating Signal	1 Volt square wave to precede RF pulse by 15 μ s
Decay Interval	Amplifier output will cease 2 μ s after loss of gating signal
Maximum Pulse Width	2 μ s
Duty Cycle	1 per cent
Monitor Output	Calibrated output sample loop with 40-dB attenuation. Type N connector
Dimensions	19" wide x 3.5" high x 24" deep
Weight	45 lbs. nominal
Power Requirement	300 Watts @ 110-220 VAC, single phase



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ARSA-CP150-CSN

TABLE 3: ENVIRONMENTAL CONDITIONS

Temperature:	
Non operating (continuous exposure)	- 40°C to + 85°C
Operating (ambient)	0°C to + 50°C
Relative humidity	50 % Non Condensing
Altitude	10,000 feet AMSL, de-rated 2°C/1,000 feet from AMSL

TABLE 4: POWER SPECIFICATIONS

Power Requirements	110-220 VAC, 47-63 Hz, single phase
Power Consumption	300 Watts, max

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ENGINEERING TEST DATA SHEET

PRODUCT: 100-300960-000, 150 WATT, C - BAND, RACK-MOUNT, SSPA

PRODUCT CODE: ARSA-CP150-CSN

SERIAL NUMBER: A5649

1.0 PEAK OUTPUT POWER VS FREQUENCY AND TEMPERATURE

AMBIENT TEMPERATURE	OUTPUT POWER AT 1 dB GAIN COMPRESSION SPEC: 51 dBm		
	5.400 GHz	5.650 GHz	5.900 GHz
+23°C	52.5	52.3	52.1
+50°C	52.4	52.2	52.1
0°C	52.8	52.4	52.2

2.0 INPUT/OUTPUT RETURN LOSS

FREQUENCY (GHz)	INPUT RETURN LOSS SPEC: 18 dB min	OUTPUT RETURN LOSS SPEC: 18 dB min
5.45	19.0	
5.8		18.1

3.0 RISE TIME

RISE TIME SPEC: 2 μ sec @ centre frequency and 40°C	120 μ s
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4.0 FALL TIME

FALL TIME SPEC: 15 μ sec @ centre frequency and 40°C	350 μ s
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TESTED BY: S. PrangeDATE: June 28, 2002APPROVED BY: [Signature]DATE: July 2/2002

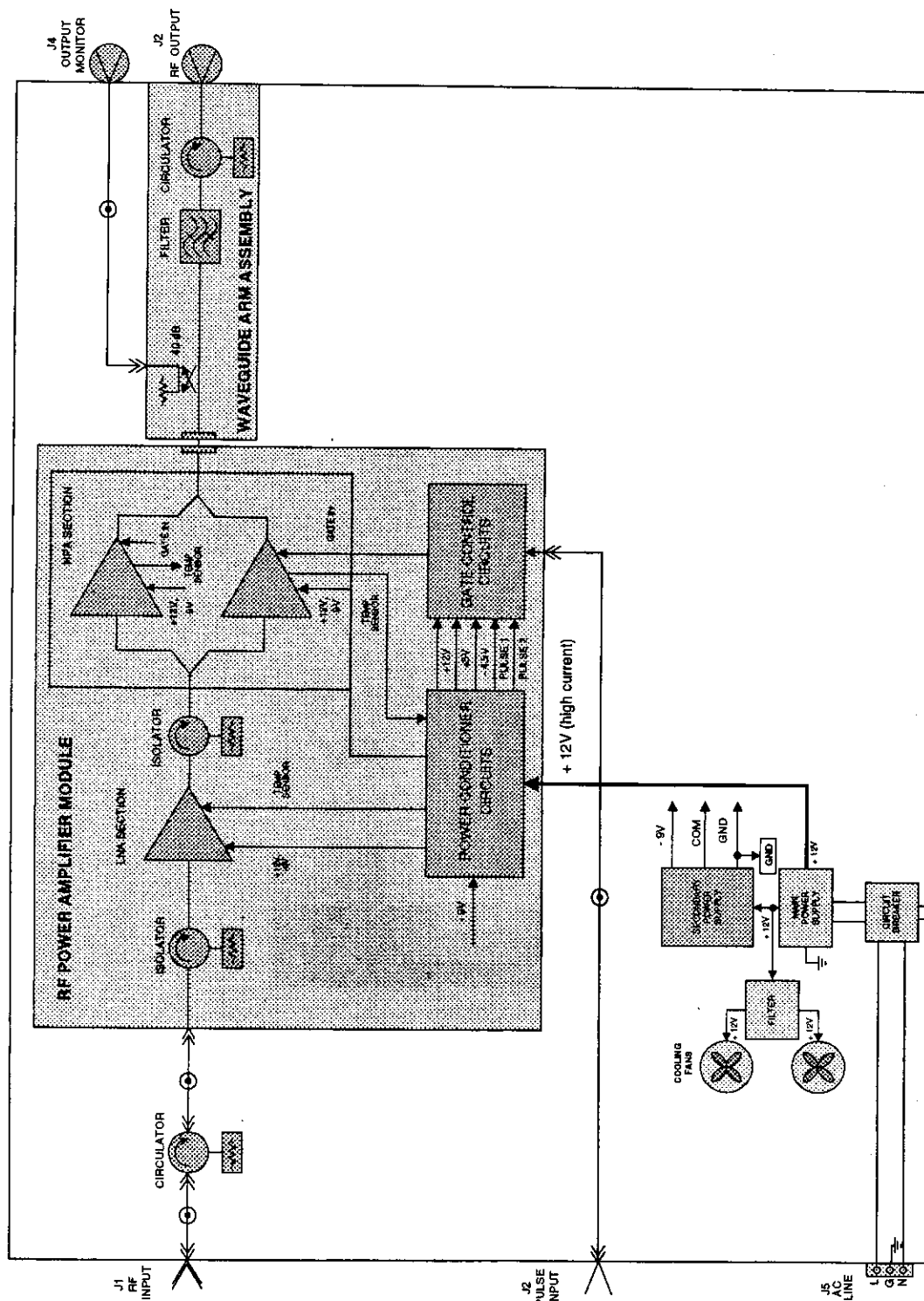


Figure 2: Block Diagram