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**MODEL 7008**  
**DUAL BAND SOLID STATE AMPLIFIER**  
**1.15 - 1.45 GHz, 2.7 - 3.1 GHz**  
**1000/500 WATTS**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 7008 is a dual band solid state pulsed amplifier that covers a 1.15 to 1.45 GHz, and 2.7 to 3.1 GHz with peak output power of 1000W and 500W with a single RF input and single RF output port.

The amplifier is controlled by Ethernet and include external Gate BNC interface.

The output power can be varied by RS232 and forward power coupled port is provided.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1.15 - 1.45 GHz, 2.7 - 3.1 GHz
2	Peak Output Power	1000 Watts min @ 1.15 - 1.45 GHz 500 Watts min @ 2.7 - 3.1 GHz
3	RF drive for rated power	0 dB typ.
4	Small signal power flatness	4dB peak to peak for each band
5	Power Flatness	2dB peak to peak for each band
6	Input VSWR	2:1 max
7	Harmonics	-30 dBc max
8	Spurious Signals	> -60 dBc max
9	Pulse width	0.07 to 30 uS
10	Duty Cycle	10% max
11	Rise Time and Fall time	30nS max
12	TTL Gating	1uS max
13	Pulse Off Isolation (amplifier is Gated)	80dB min
14	Transmit In-band noise	-90 dBm/Hz max for pulse on -140 dBm/Hz max for pulse off
15	Band selection	Front panel selection with 100mS band switching time
16	Variable Gain control	30dB via Gain Knob
17	Primary Power	190 to 260 VAC single phase 50/60 Hz
18	Average AC Power Consumption	600W max (one channel transmit at a time)
<b><u>Mechanical</u></b>		
19	Dimensions	19" x 26" x 8.75"
20	Weight	120 lb. max
21	Connectors	Type-N for RF input and output Type-N for RF sample port BNC for Gate RS232 for interface
22	Grounding	Chassis
23	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
24	Operating Temperature	0° C to +50° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck transport



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**1000/500 WATTS**

### CIRCUIT PROTECTIONS

- ◇ Infinite Load VSWR using an Isolator
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Input overdrive—by passive limiter

### CIRCUIT INDICATIONS

- ◇ Forward Power @ pulse width greater than 2uS
- ◇ Reflected power @ pulse width greater than 2uS
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

### CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ TTL Gate
- ◇ Gain/power setting with 30dB range
- ◇ Temp Fault
- ◇ Band Selection

