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# MODEL 7000

**1.0MHz – 2.5GHz**  
**FOUR CHANNEL**  
**BROADBAND POWER RF AMPLIFIER**

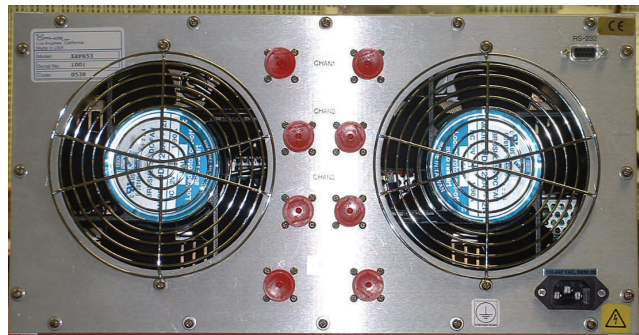
## Solid State Broadband High Power RF Amplifier

The 7000 is a 100/50 Watt broadband system that covers the 1 – 2500 MHz frequency range. This small and lightweight system utilizes Class A/AB linear power devices that provide high gain, excellent efficiency and a wide dynamic range.

The 7000 comes with a RS232 controller and a front panel display in a Rear panel Connectors configuration.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	CH 1. 1-30MHz CH 2. 30-500MHz CH 3. 500-1000MHz CH 4. 1.0 – 2.5GHz
2	Saturated Output Power	CH 1, 2 and 3: 100 Watts typical CH 4. 50Watts typical
3	Power Output @ 1dB Comp.	CH. 1, 2 and 3: 60 Watts Ch. 4: 40 Watts
4	Small Signal Gain	CH 1, 2 and 3: +50 dB min CH 4: +47 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	Input VSWR	2:1 max
7	Harmonics	CH 1. -20dBc typ. @ 60W CH 2. -15dBc typ. @ 60W CH 3. -40dBc typ. @ 60W CH 4. -20dBc typ. @ 40W
8	Spurious Signals	-60 dBc typical @ P1dB
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power (only one channel transmit at a time)	CH 1. 250 Watts max. CH 2. 400 Watts max. CH 3. 700 Watts max. CH 4. 350 Watts max.
11	AC Input	100 – 240 VAC, single phase
12	RF Input drive required for Psat	0 dBm
13	Max. RF drive without damage	+ 3 dBm
<b>Mechanical</b>		
14	Dimensions	19" x 8.75" x 26"
15	Weight	95 lb. max
16	Connectors	Type-N
17	Grounding	Chassis
18	Cooling	Internal Forced Air
<b>Environmental</b>		
19	Operating Temperature	0° C to +50° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	Normal Truck Transport

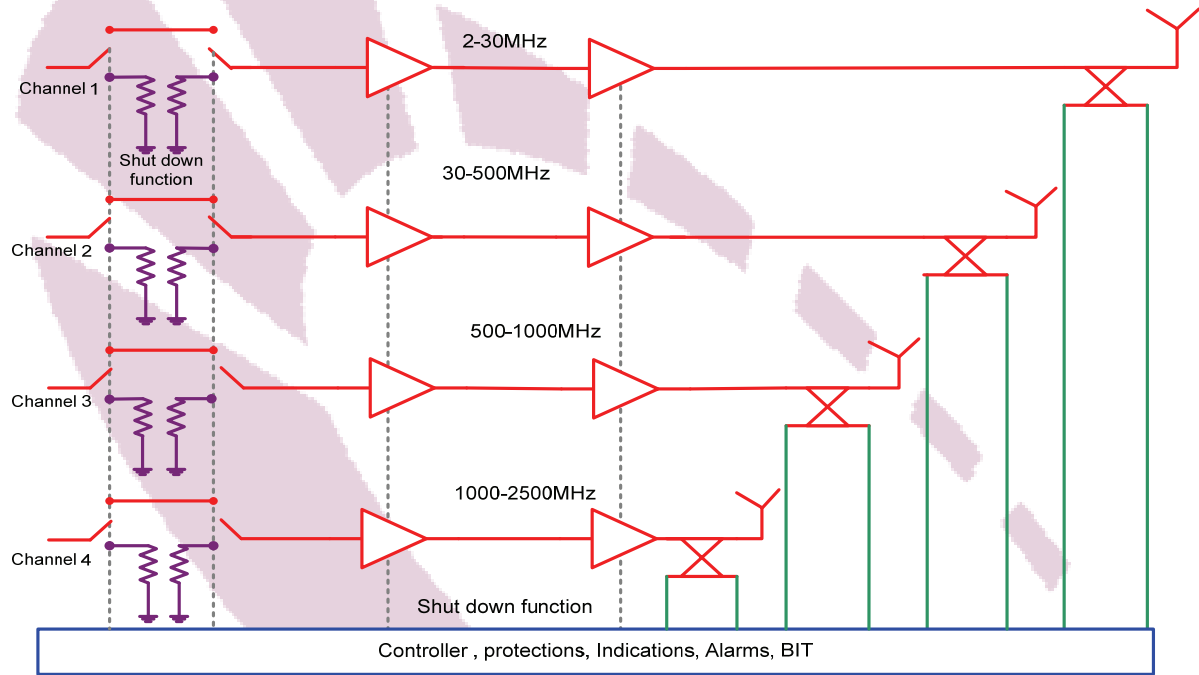
Specifications subject to change without notice





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**CIRCUIT PROTECTIONS**

- ◇ Protection against VSWR of > 2.5:1 , latched with Reset
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

**CONTROL & INDICATIONS**

- ◇ AC Circuit Breaker
- ◇ Band Select
- ◇ Forward power of selected channel
- ◇ Reflected Power of selected channel
- ◇ VSWR Fault Reset