



5300 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)821-7413  
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**MODEL 7020**  
**380 - 4000 MHz**  
**30 WATTS**  
**BANDED POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 7020 is a dual channel broadband system that covers the 380MHz – 4000 MHz frequency range in a single Antenna port.

The system includes RF high power switch controlled by the system controller. The RS232/Ethernet and/or Front panel key-pad provides full control of the HPA and reduces the power consumption to the minimum by shutting down the un-selected channel.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	380MHz – 4000 MHz
2	Output Power @ Psat	30W Minimum
3	IP3	+50dBm Typical
4	Nominal RF drive for rated power	0 dB typ.
5	Small signal gain	46dB min
6	Small signal flatness	+/-3 dB max
7	Input VSWR	2:1 max
8	Input/Output Impedance	50 Ohms nominal
9	Harmonics	-20 dBc Minimum
10	Spurious Signals	< -60 dBc typical
11	Temperature Protection	Base plate above 80° C
12	AC Input	100 – 240 VAC, single phase
13	AC Power Consumption	50000W max
14	Maximum RF Input	10 dBm max
15	Band Switching time	100mS max
16	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
17	Dimensions	19" x 8.75" x 26"
18	Weight	80 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck transport

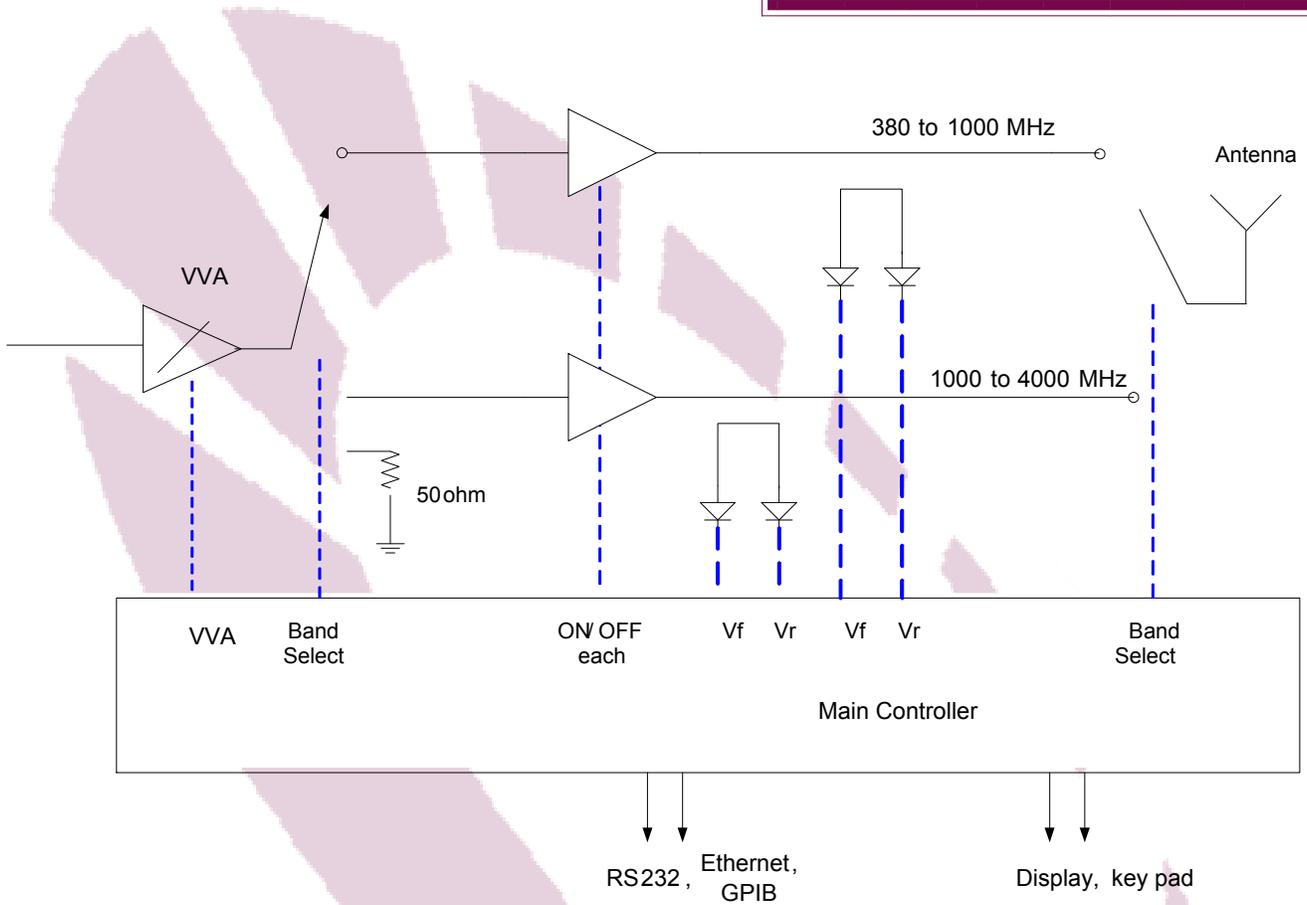


Specifications subject to change without notice



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### CIRCUIT INDICATIONS

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

### CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 20dB range
- ◇ Temp Fault
- ◇ Band Selection

### CIRCUIT PROTECTIONS

- ◇ Infinite VSWR
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage