



5200 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)821-7413  
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

**MODEL 5001**  
**1-1000 MHz**  
**200 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State Broadband High Power RF Amplifier**

The 5001 is a 200 Watt broadband amplifier that covers the 1-1000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide low harmonics, high gain, and excellent stability

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5001 comes with an extended multi-year warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1-1000 MHz
2	Saturated Output Power	200 Watts Minimum
3	Power at P1dB	100 Watts Minimum
4	Small Signal Gain	+54 dB Minimum
5	Small Signal Gain Flatness	± 2.5 dB Maximum
6	IP <sub>3</sub>	+56 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20dBc Typical @ 100 Watts
9	Spurious Signals	< -60dBc Typical @ 100 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3,000 Watts Maximum
12	AC Input	180 – 240 VAC, single phase
13	RF Input	0 dBm nominal for rated power <b>+3 dBm Maximum</b>
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	Class A/AB
<b><u>Mechanical</u></b>		
16	Dimensions (5RU)	19" x 8.75" x 26"
17	Weight	95 lbs.
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

*Specifications subject to change without notice*



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	<u>Parameter</u>
<b><u>Front Panel Controller</u></b>	
25	Forward Power Monitoring
26	Reflected Power Monitoring
27	Gain Control (20 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open or Short, any Phase.
30	Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
31	Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
32	Standby/Enable Control
33	Front Panel Display for easy viewing of System Status Locally
34	Keypad buttons for full local control
<b><u>Circuit Protections</u></b>	
35	Thermal Overload
36	Over Current
37	Over Voltage
38	Open or Short VSWR Conditions
<b><u>Circuit Control</u></b>	
39	Standby (amplifier disable)
40	Gain/power setting with 20 dB range
41	VSWR protection Reset
42	ALC On/ Off
<b><u>Circuit Indications</u></b>	
43	Forward Power
44	Reflected power
45	VSWR Fault
46	Temp Fault
47	Gain Setting (VVA) percentage





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**FE MODEL SHOWN**

**ORDERING MODELS**

- RE** Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- FE** Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232