

5300 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5051

100 - 500 MHz 300 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5051 is a 300 Watt broadband amplifier that covers the 100 - 500 MHz frequency range. This small lightweight and amplifier utilizes Class A/AB linear power devices that provide 3rd excellent order an intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier efficiency achieves high with proven operation reliability. Like all OPHIR_{RF} amplifiers, the 5051 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ♦ Thermal Overload
- ♦ Over Current
- ◊ Over Voltage

CIRCUIT CONTROL

- ♦ Standby (amplifier disable)
- ♦ Gain/power setting with 25dB range
- ♦ VSWR protection Reset
- ♦ ALC On/ Off

CIRCUIT INDICATIONS

- ♦ Forward Power
- ♦ Reflected power
- ♦ VSWR Fault
- ♦ Temp Fault

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♦ Gain Setting (VVA) percentage

Specifications subject to change without notice

	<u>Parameter</u>	Specification @ 25° C
Electrical		
1	Frequency Range	100 – 500 MHz
2	Saturated Output Power	300 Watts Minimum
3	Power Output @ 1dB Comp.	250 Watts min
4	Small Signal Gain	+55 dB min
5	Gain Flatness	<u>+</u> 2.0 dB
6	IP ₃	+61 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 250 Watts
9	Spurious Signals	< -60 dBc typical @ 250 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts max
12	AC Input	200 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	19" x 8.75" x 20"
17	Weight	80 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
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



ORDERING MODELS

- ♦ RE R model with Ethernet, IEEE488 and RS232
- ♦ FE F model with Ethernet, IEEE488 and RS232

Approved By:	Date:
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