



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 4151
6.0-18 GHz
250 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 4151 is a 250 Watt Solid State broadband amplifier that covers the 6.0-18 GHz frequency range. This amplifier utilizes Class AB 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_{RF} amplifiers, the 4151 comes backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C			
		Minimum	Nominal	Maximum	Unit
Electrical					
1	Frequency Range	6.0		18	GHz
2	Power at P _{SAT}	200	250		Watts
3	Power at P _{1dB}	20	30		Watts
4	Small Signal Gain	54			dB
5	Gain Flatness		± 2.5	± 3.0	dB
6	IP ₃		58		dBm
7	Input VSWR			2:1	Ratio
8	Harmonics		-20	-15	dBc
9	Spurious Signals		-60	-55	dBc
10	Input/Output Impedance		50		Ohms
11	AC Input Power			3,500	Watts
12	AC Input (Single Phase)	180		240	VAC
13	RF Input		0	+3	dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse			
15	Class of Operation	Class A			
Mechanical					
16	Dimensions	19" x 10.5" x 26"			
17	Weight		91		lbs.
18	RF Connectors (Rear Panel)	RF Input Type-N Female RF Output WRD-650			
19	Grounding	Chassis			
20	Cooling	Internal Forced Air			
Environmental					
21	Operating Temperature	0		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>
<u>Front Panel Controller</u>	
25	Forward Power Monitoring (dBm or Watts)
26	Reflected Power Monitoring (dBm or Watts)
27	Gain Control (20 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open or Short, at 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 an even output level with variances in temperature, or input RF drive
32	Standby/Enable Control
33	Front Panel Display for easy viewing of System Status Locally
34	Keypad buttons for full local control
<u>Circuit Protections</u>	
35	Thermal Overload
36	Over Current
37	Over Voltage
38	Open or Short VSWR Conditions
<u>Circuit Control</u>	
39	Standby (amplifier disable)
40	Gain/power setting with 20 dB range
41	VSWR protection Reset
42	ALC On/ Off
<u>Circuit Indications</u>	
43	Forward Power
44	Reflected power
45	VSWR Fault
46	Temp Fault
47	Gain Setting (VVA) percentage

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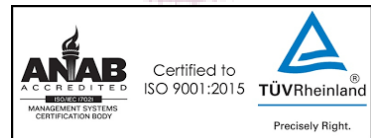


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OPHIR RF 6RU CHASSIS

ORDERING MODELS

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

12/24 Approved By: _____ Date: _____