



5300 Beethoven Street, Los Angeles, CA 90066  
TEL: (310)306-5556 • FAX: (310)577-9887  
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

## MODEL 5144-150

**0.7 - 3.0 GHz**  
**150 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5144-150 is a 150 Watt broadband amplifier that covers the 0.7 – 3.0 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	0.7 – 3.0 GHz
2	Saturated Output Power	150 Watts min
4	Small Signal Gain	+53 dB min
5	Power Flatness	+/- 2.5 dB max with no ALC +/- 1 dB max with ALC
6	IP <sub>3</sub>	+56 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	≥ -60 dBc
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1500 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b>Mechanical</b>		
16	Dimensions	19" x 8.75" x 26"
17	Weight	120 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b>Environmental</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

### CIRCUIT PROTECTIONS

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

### CIRCUIT INDICATIONS

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

### CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset

### ORDERING MODELS

- ◇ RE - Rear Panel with RS232, ETHERNET & IEEE-488
- ◇ FE - Front Panel with RS232, ETHERNET & IEEE-488