



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 5190**  
**2 - 6 GHz**  
**9 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5190 is a 9 Watt broadband amplifier that covers the 2 – 6 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.

**CIRCUIT PROTECTIONS**

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

**CIRCUIT CONTROL (w Controller Option)**

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

**CIRCUIT INDICATIONS (w Controller Option)**

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

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	2 – 6 GHz
2	Saturated Output Power	9 Watts Minimum
3	Small Signal Gain	+40 dB min
4	Power Flatness	± 2.5 dB max
5	IP <sub>3</sub>	+46 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	300 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	+3 dBm
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
<b>Mechanical</b>		
15	Dimensions	19" x 5.25" x 20"
16	Weight	43 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<b>Environmental</b>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport



RE Model Shown

**ORDERING MODELS**

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model with Ethernet, IEEE488 and RS232
- ◇ FE - F model with Ethernet, IEEE488 and RS232

Specifications subject to change without notice

02/12

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_