



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)577-9779
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5313004

1.0 - 2.0 GHz
100 WATTS

Solid State Broadband High Power RF Amplifier

The 5313004 is a 100 Watt broadband amplifier that covers the 1.0 – 2.0 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd 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. Like all OPHIR_{RF} amplifiers, the 5313004 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.0 – 2.0 GHz
2	Saturated Output Power	100 Watts typical
3	Power Output @ 1dB Comp.	75 Watts min
4	Small Signal Gain	+8 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+58 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 75 Watts
9	Spurious Signals	> -60 dBc typical @ 75 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	25 Amps max
12	DC Input	13 ± 0.5 VDC nominal
13	RF Input	+42 dBm nominal
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB Linear
Mechanical		
16	Dimensions	8.2" x 7.8" x 1.1"
17	Weight	5 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
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

Specifications subject to change without notice.

