



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 5303117R

2.0-6.0 GHz

5 WATTS

LINEAR POWER RF AMPLIFIER

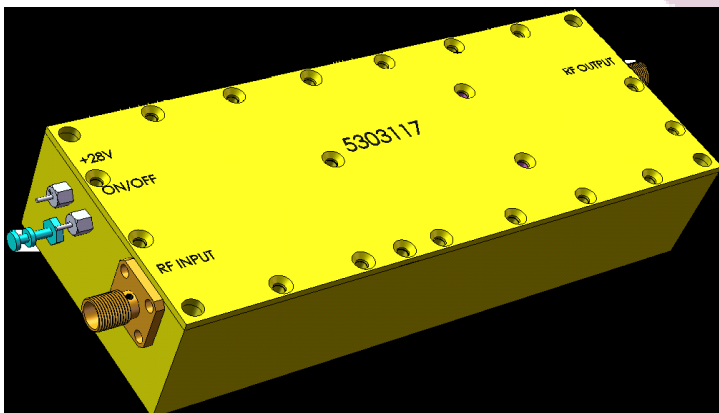
### Solid State Broadband High Power RF Amplifier

The 5303117R is a 5 Watt broadband amplifier that covers the 2.0-6.0 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, reduced 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<sub>RF</sub> amplifiers, the 5303117R comes with an extended multiyear warranty.

Specifications subject to change without notice

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	2.0-6.0 GHz
2	Saturated Output Power	5 Watts Min
3	Power at P1dB Compression	2 Watts Min
3	Small Signal Gain	+20 dB min
4	Gain Flatness	± 3.0 dB max
5	IP <sub>3</sub>	+46 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 5 Watts
8	Spurious Signals	< -60 dBc typical @ 5 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	8 Amps max
11	DC Input	28 VDC nominal
12	RF Input	+10 dBm for Rated Output Power
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
15	On/Off	On = 5V Off = 0V
<b><u>Mechanical</u></b>		
16	Dimensions	5.0" x 2.0" x 1.0"
17	Weight	2 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
21	Baseplate 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



### SPECIAL FEATURES

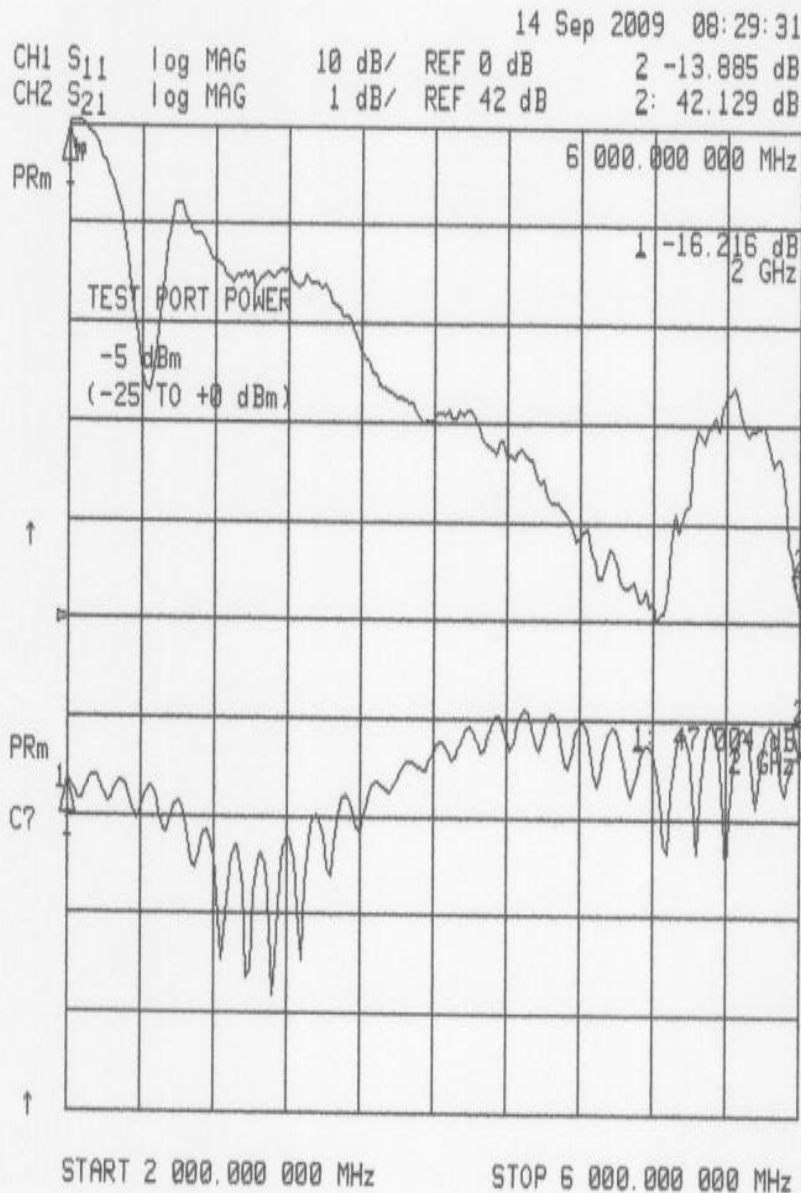
Customer Specific: Reduced Gain



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 5303117

2.0-6.0 GHz  
5 WATTS  
LINEAR POWER RF AMPLIFIER



Ophir RF Model 5303117.  
5 Watts minimum Psat.  
2 Watts minimum P1dB.