



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 5304012
100-300 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5304012 is a 50 Watt broadband amplifier that covers the 100-300 MHz 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 5304012 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	100-500 MHz
2	Output Power @ P3dB	50 Watts min
3	Small Signal Gain	+48 dB min
4	Gain Flatness	± 1.5 dB max
5	IP ₃	+52 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Noise Figure	< 10 dB
10	Input/Output Impedance	50 Ohms nominal
11	Efficiency (PAE)	>50%
12	DC Input	28 VDC nominal
13	RF Input	+0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	2.5" x 6" x 1.1"
17	Weight	2.0 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
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	MIL-STD-810F (Method 516.5)

Specifications subject to change without notice



DC Blanking

◇ Rise/Fall Time < 10uSec