



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 5304007-001

2000-6000 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304007-001 is a 50 Watt broadband amplifier that covers the 2000-6000 MHz frequency range. This small and lightweight amplifier utilizes Class A 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 5304007-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2000-6000 MHz
2	Saturated Output Power	50 Watts Min
3	P1dB Output Power	30 Watts Min
4	Small Signal Gain	47dB Min
5	Gain Flatness	+/- 2.5dB max
6	IP ₃	+53dBm
7	Input Output VSWR	2:1 Nominal
8	Harmonics	-20 dBc typical
9	Spurious Signals	< 70 dBc typical
10	Noise Figure	<10.0 dB
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	10.0A Max
13	DC Input	24 VDC nominal
14	RF Input	+0dBm Nominal for rated power
<u>Mechanical</u>		
15	Dimensions	7.0" x 5.0" x 1.1"
16	Weight	2 lb. max
17	Connectors	SMA female RF In / Out DB9 DC and Control
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
20	Baseplate 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	MIL-STD-810F (Method 514 II)

Specifications subject to change without notice.

DSUB 9 PIN OUT

- 1 NC
- 2 I Sense (0 to 2.5VDC)
- 3 Temp Sense (0 to 1.0VDC)
- 4 NC
- 5 S/D (TTL, Active Low)
- 6 +24VDC
- 7 +24VDC
- 8 GND
- 9 GND

05/10

Approved By: _____ Date: _____