



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 5304043-100**

**3.4 - 3.8 GHz**  
**100 W P-1dB**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5304043-100 is a 100-Watt linear amplifier that covers the 3.4 - 3.8 GHz frequency range. This small and lightweight amplifier utilizes Class A 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. Like all OPHIR<sub>RF</sub> amplifiers, the 5304043-100 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	3.4 - 3.8 GHz
2	Power at 1 dB compression	100 Watts min
3	Small Signal Gain	+51 dB min
4	Gain Flatness	± 1.0 dB max
5	IP <sub>3</sub>	+55 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Noise Figure	< 12 dB
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	20 Amps max
12	DC Input	28 VDC nominal
13	RF Input	<b>+3 dBm max</b> 0 dBm nominal for full rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<b><u>Mechanical</u></b>		
16	Dimensions	7" x 5" x 1.1"
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 20,000' Above Sea Level
24	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice

