



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 5303084
0.5 - 3 GHz
50 WATTS
POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303084 is a 50 Watt broadband amplifier that covers the 0.5 – 3 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent efficiency, 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.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	0.5– 3 GHz
2	Saturated Output Power	50 Watts typ
3	Small Signal Gain	+48 dB min
4	Power Gain Flatness	± 2 dB max
5	Input VSWR	2:1 max
7	Harmonics	-15 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Remote shut down	5V to Enable 0V to Disable
10	Blanking	TTL, 5uS On/Off
11	DC Consumption	300W maximum
12	DC Input Voltage	28V - 48V
13	Temp Indication	Analog voltage reporting with LM35 or equivalent
14	Current Indication	Analog voltage reporting
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<u>Mechanical</u>		
17	Dimensions	6.0" x 5.0" x 1.1"
18	Weight	2 lb. max
19	Connectors	SMA female for RF Feed Thru for DC, control, and indications
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Average Baseplate Temperature	-20° C to +50° C
23	Maximum baseplate temperature under hot spot	+75° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice



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 5303084
0.5 - 3 GHz
50 WATTS
POWER RF AMPLIFIER

