



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 5303084-001

**0.5 - 3 GHz**  
**50 WATTS**  
**POWER RF AMPLIFIER**

### **Solid State Broadband High Power RF Amplifier**

The 5303084-001 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.

This is the perfect choice for many different Electronic Warfare and Tactical Communications applications

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	0.5– 3 GHz
2	Saturated Output Power	50 Watts typical
3	Power at P1dB	25 Watts minimum
4	Small Signal Gain	+48 dB min
5	Power Gain Flatness	± 2 dB max
6	Input VSWR	2:1 max
7	Harmonics	-20dBc typical @ 25 watts
8	Spurious Signals	< -60 dBc typical @ 25 watts
9	DC Consumption	220 Watts at full rated power maximum
10	DC Input Voltage	28VDC Nominal
11	RF Input Signal Format	CW/AM/FM/PM/Pulse
12	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
13	Dimensions	6.0" x 5.0" x 1.1"
14	Weight	1.5 lb. max
15	Connectors	SMA female for RF
16	Grounding	Chassis
17	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
18	Average Baseplate Temperature	-40° C to +55° C
19	Operating Humidity	95% Non-condensing
20	Operating Altitude	Up to 10,000' Above Sea Level
21	Shock and Vibration	MIL-STD 810 (Method 516.6/ Method 514.6)

Specifications subject to change without notice

**Contact Factory for additional details and Features**



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