



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 5302386

3.1 - 3.5 GHz
50 WATTS
POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5302386 is a 50 Watt broadband amplifier that covers the 3.1 – 3.5 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.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	3.1– 3.5 GHz
2	Saturated Output Power	50 Watts min.
3	Small Signal Gain	+48 dB min
4	Power Gain Flatness	± 1 dB max
5	Input VSWR	2:1 max
6	Harmonics	-20 dBc max
7	Spurious Signals	> -60 dBc max
8	Remote shut down	5V to Enable 0V to Disable
9	Blanking	TTL, 5uS On/Off
10	DC Consumption	250W maximum
11	DC Input Voltage	24V
12	Temp Indication	Analog voltage reporting with LM35 or equivalent
13	Current Indication	Analog voltage reporting
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	6.0" x 5.0" x 1.1"
17	Weight	2 lb. max
18	Connectors	SMA female for RF Feed Thru for DC, control, and indications
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Average Baseplate Temperature	-20° C to +50° C
22	Maximum baseplate temperature under hot spot	+75° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F