



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 5303084-025

0.8 - 2.5 GHz
50 WATTS
POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303084-025 is a 50 Watt broadband amplifier that covers the 0.8 – 2.5 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	0.8– 2.5 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



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