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MODEL 5300688-001

2.0-4.0 GHz
20 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5300688 is a 20 Watt broadband amplifier that covers the 2.0-4.0GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd 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_{RF} amplifiers, the 5300688-001 comes with an extended multiyear warranty.

Specifications subject to change without notice.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.0-4.0 GHz
2	Saturated Output Power	20 Watts typical
3	Power Output @ 1dB Comp.	15 Watts min
4	Small Signal Gain	+43 dB min
5	Gain Flatness	± 2 dB max
6	IP ₃	+48 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc minimum
9	Spurious Signals	< -60 dBc minimum
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	15 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+0 dBm nominal for full rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	12" x 10" x 1.75" (Includes Driver)
17	Weight	8 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Baseplate Temperature	0° C to +50C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Application Notes

- ◇ Unit Includes driver model 5303075, for full rated output power with 0 dBm nominal input from signal source
- ◇ Adequate Heatsink Required: Recommend Ophir RF Model HTS00008
- ◇ Adequate Airflow required consult factory for fans
- ◇ Heatsink and Fans can be incorporated to this module from Ophir RF. Change part number to 5800688-001. Consult factory for incorporating drivers to the Heatsink/Fan Assembly

