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MODEL 5300900
80 - 1000 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5300900 is a 200 Watt broadband amplifier that covers the 80 – 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A 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 5300900-001 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

<u>Electrical</u>	<u>Parameter</u>	<u>Specification @ 25° C</u>
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	200 Watts typical
3	Power Output @ 1dB Comp.	120 Watts min
4	Small Signal Gain	+14 dB min
5	Small Signal Gain Flatness	± 2.5 dB max
6	IP ₃	+59 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 120 Watts
9	Spurious Signals	< -60 dBc typical @ 120 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	25 Amps max (for Vcc) <0.1A (for bias)
12	DC Input	36 Vdc nominal (Vcc input) 12 Vdc nominal (Bias input)
13	Blanking	3-5 Vdc = On <0.5 Vdc = off
14	RF Input	+38 dBm nominal Not to exceed +42 dBm
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
<u>Mechanical</u>		
17	Dimensions	10" x 4.0" x 1.15"
18	Weight	7 lbs.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

Application Note:
 To achieve full rated power for this RF Amplifier the use of a linear + 39dBm signal source/ driver is recommended, such as the Ophir RF model 5303038 RF Amplifier.

