



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 5300920
2-30 MHz
350 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5300920 is a 350 Watt broadband amplifier that covers the 2.0-30 MHz frequency range. This small and lightweight amplifier utilizes Class AB linear Gallium Nitride (GaN) devices that provide an excellent 3rd order intercept point, and a wide dynamic range. Due to robust engineering and employment of the most advanced gallium nitride (GaN) devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5300920 comes backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C			Unit of Measure
		Minimum	Nominal	Maximum	
Electrical					
1	Frequency Range	2.0		30	MHz
2	Output Power P _{SAT}	300	350		Watts
3	Output Power P _{1dB}	120	150		Watts
4	Small Signal Gain	18			dB
5	Gain Flatness			2.0	dB
6	IP ₃		58		dBm
7	Input VSWR	2:1			Ratio
8	Harmonics @ 150 Watts		20		dBc
9	Spurious @ 150 Watts		60		dBc
10	Input/Output Impedance		50		Ohms
11	DC Input Current @ 25W			25	Amps
12	DC Input	34	36	38	VDC
13	RF Input for Rated Power		+36	+40	dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse			
15	Class of Operation				
Mechanical					
16	Dimensions (L x W x H)	6" x 6" x 1.5"			
17	Weight		2.0		Lbs.
18	RF Input Connector	SMA female			
19	RF output Connector	SMA Female			
20	Grounding	Chassis			
21	Cooling	Adequate Heatsink Required			
Environmental					
22	Operating Temperature BasePlate	0		50	°C
23	Operating Humidity, Non Condensing			95	%
24	Operating Altitude			10,000	Feet above sea Level
25	MIL-STD 810G Shock and Vibration	Shock Method 514.5 Vibration Method 516.5			

FOR FULL RATED POWER AN RF INPUT OF APPROXIMATELY 10 WATTS IS NEEDED

Specifications subject to change without notice.

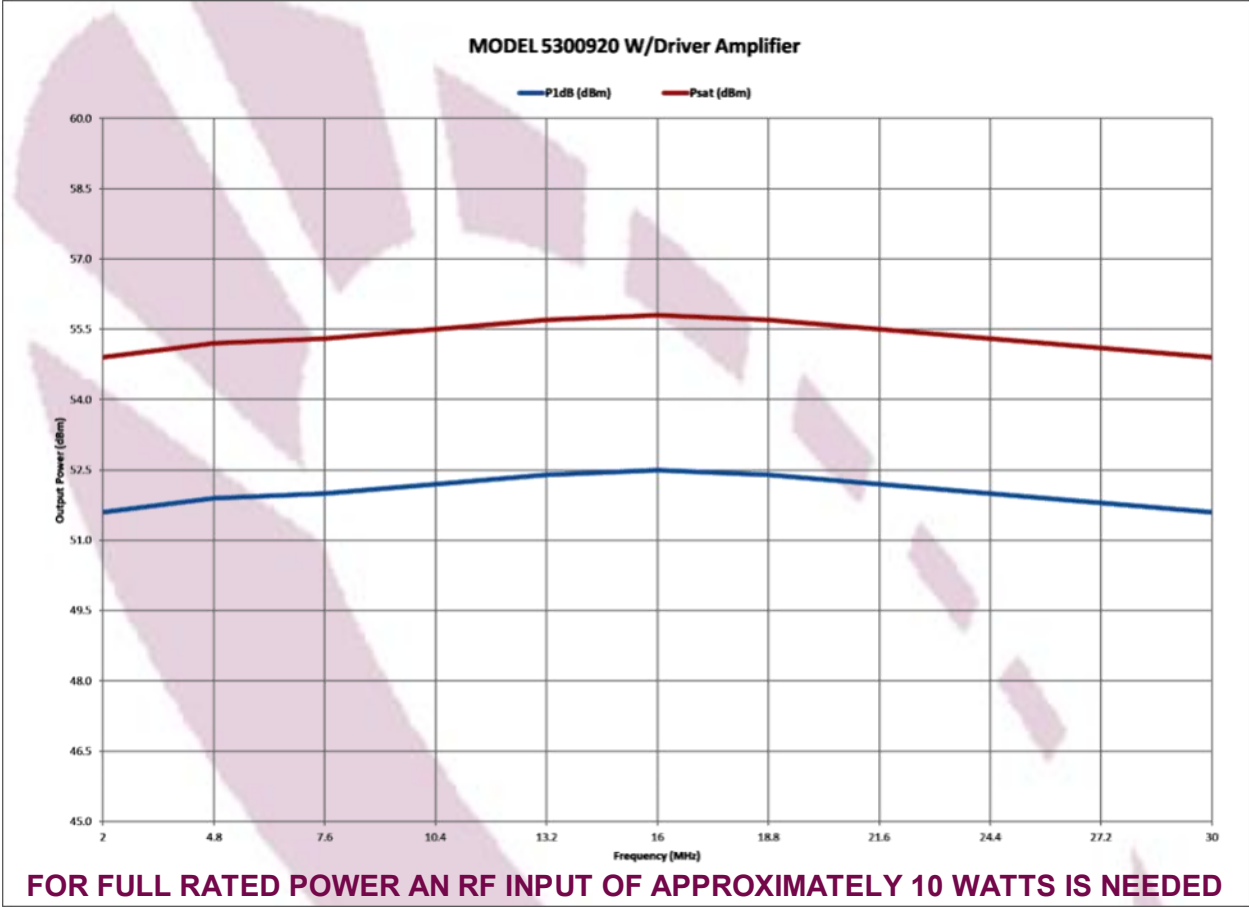


0924 Approved By: _____ Date: _____

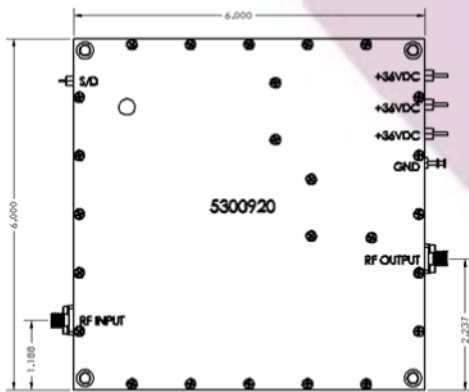


5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)821-7413
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5300920
2-30 MHz
350 WATTS
LINEAR POWER RF AMPLIFIER



Specifications subject to change without notice.



ORDERING MODELS

- ◇ 5300920 Module Only
- ◇ 5900920 Module with Heatsink
- ◇ 5800920 Module with Heatsink and Fans
- ◇ 5800920-001 Modules with Heatsink and Fans and Driver Module 5303032

0924 Approved By: _____ Date: _____