



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 5297
1000 - 6000 MHz
500 WATTS
RF POWER AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5297 is a very high power broadband amplifier that covers the 700 – 6000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3rd order intercept point, high gain, a wide dynamic range, and an industry leading P1dB performance.

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 5297 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C			
		Minimum	Nominal	Maximum	Unit
Electrical					
1	Frequency Range	1.0		6.0	GHz
2	Power at P _{SAT}	400	500		Watts
3	Power at P _{1dB}	250	300		Watts
4	Small Signal Gain	59			dB
5	Gain Flatness		± 3.0	± 5.0	dB
6	IP ₃		58		dBm
7	Input VSWR			2:1	Ratio
8	Harmonics @ 300W		-20		dBc
9	Spurious Signals @ 300W		-60		dBc
10	Input/Output Impedance		50		Ohms
11	AC Input Power		5,000	7,000	Watts
12	AC Input	208 ±10% VAC (Phase-Phase), 3ø, 50/60Hz, 4-wire			
13	RF Input		0	+3	dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse			
15	Class of Operation	Class A			
Mechanical					
16	Dimensions	31 x 24" x 36" (H x W x D) 79 x 61 x 67 (H x W x D) cm			
17	Weight		400	Lbs.	
			182	Kg.	
18	RF Connectors (Rear Panel)	Type-N Female Input Type 7/16 DIN Female Output			
19	Grounding	Chassis			
20	Cooling	Internal Forced Air			
Environmental					
21	Operating Temperature	0		50	° C
22	Operating Humidity	95% Non-condensing			
23	Operating Altitude	Up to 10,000' Above Sea Level			
24	Shock and Vibration	Normal Truck Transport			



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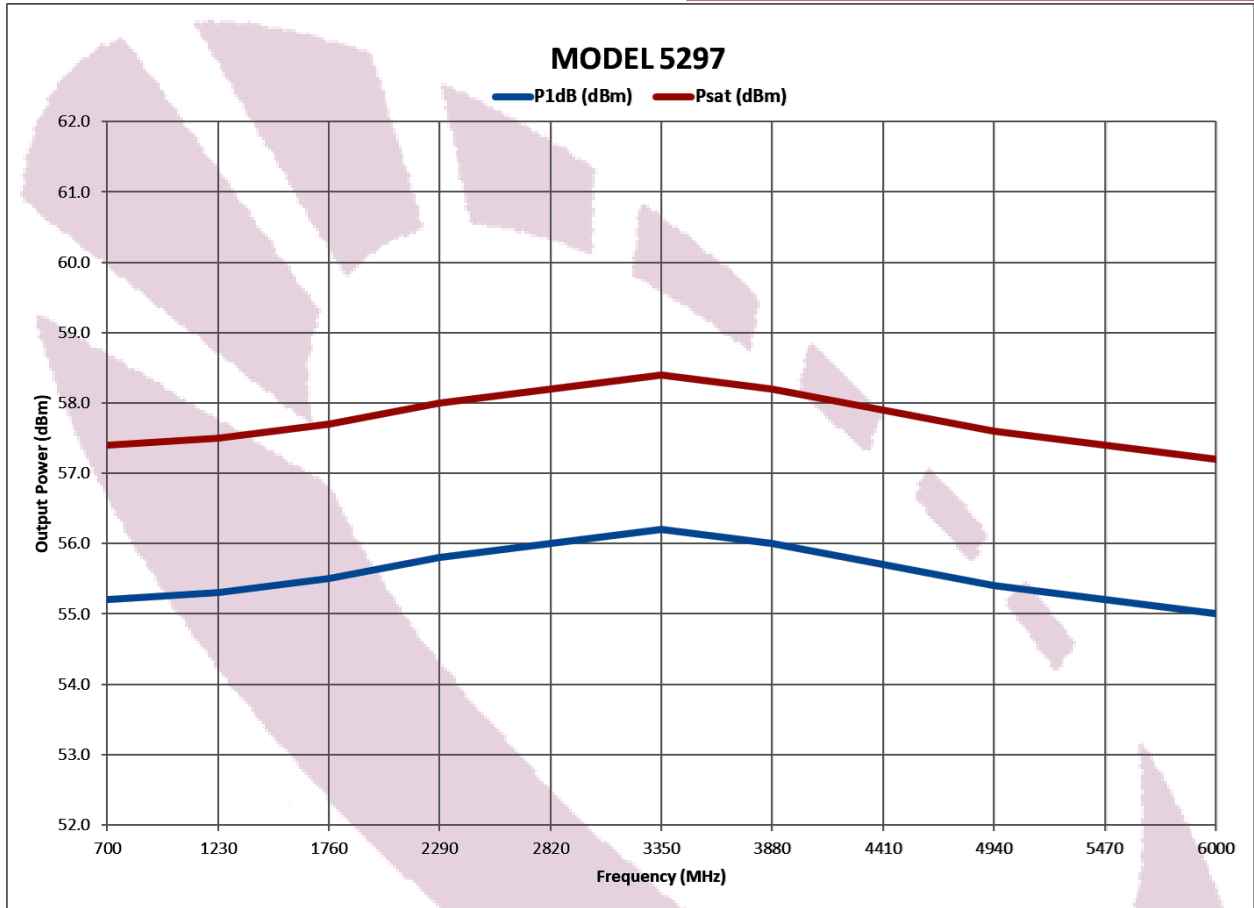
	<u>Parameter</u>
<u>Front Panel Controller</u>	
25	Forward Power Monitoring (dBm or Watts)
26	Reflected Power Monitoring (dBm or Watts)
27	Gain Control (25 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open or Short, any Phase.
30	Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
31	Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
32	Standby/Enable Control
33	Front Panel Display for easy viewing of System Status Locally
34	Keypad buttons for full local control
<u>Circuit Protections</u>	
35	Thermal Overload
36	Over Current
37	Over Voltage
38	Open or Short VSWR Conditions
<u>Circuit Control</u>	
39	Standby (amplifier disable)
40	Gain/power setting with 25 dB range
41	VSWR protection Reset
42	ALC On/ Off
<u>Circuit Indications</u>	
43	Forward Power
44	Reflected power
45	VSWR Fault
46	Temp Fault
47	Gain Setting (VVA) percentage and ALC Setting
48	Monitors, Voltage and Temperature

Specifications subject to change without notice



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ORDERING MODELS

- ◇ RE - Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232