OPHIR RF
5200 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5296

700 - 6000 MHz
300 WATTS
RF POWER AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5296 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 5296 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25º C
Electrical		
1	Frequency Range	700-6000 MHz
2	Power at P_{SAT}	300 Watts Typical
3	Power at P_{1dB}	200 Watts Minimum
4	Small Signal Gain	+57 dB Minimum
5	Gain Flatness	± 5.0 dB Maximum
6	IP_3	+59 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc min @ P_{1dB} Compression
9	Spurious Signals	< -60 dBc typical @ P_{1dB} Compression
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	7,000 Watts Maximum
12	AC Input	208 VAC Phase to Phase, 120 VAC Phase to GND; 50/60 Hz, 3Ø, 4-wire **Single Phase is optional**
13	RF Input	0 dBm nominal **+3 dB Maximum**
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	Class A
Mechanical		
16	Dimensions	31" x 24" x 31"(H x W x D)
17	Weight	400 lbs. / 182 Kg
18	RF Connectors	Type-N Female Input and Output
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0º C to +50º 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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	Parameter
Front Panel Controller	
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
Circuit Protections	
35	Thermal Overload
36	Over Current
37	Over Voltage
38	Open or Short VSWR Conditions
Circuit Control	
40	Standby (amplifier disable)
41	Gain/power setting with 25 dB range
42	VSWR protection Reset
43	ALC On/ Off
Circuit Indications	
44	Forward Power
45	Reflected power
46	VSWR Fault
47	Temp Fault
48	Gain Setting (VVA) percentage

Specifications subject to change without notice

ANAB ACCREDITED ISO/IEC 17021-1 MANAGEMENT SYSTEMS CERTIFICATION BODY — Certified to ISO 9001:2015 — TÜVRheinland® Precisely Right.

MADE IN USA

07/19 Approved By: _____ Date: _____

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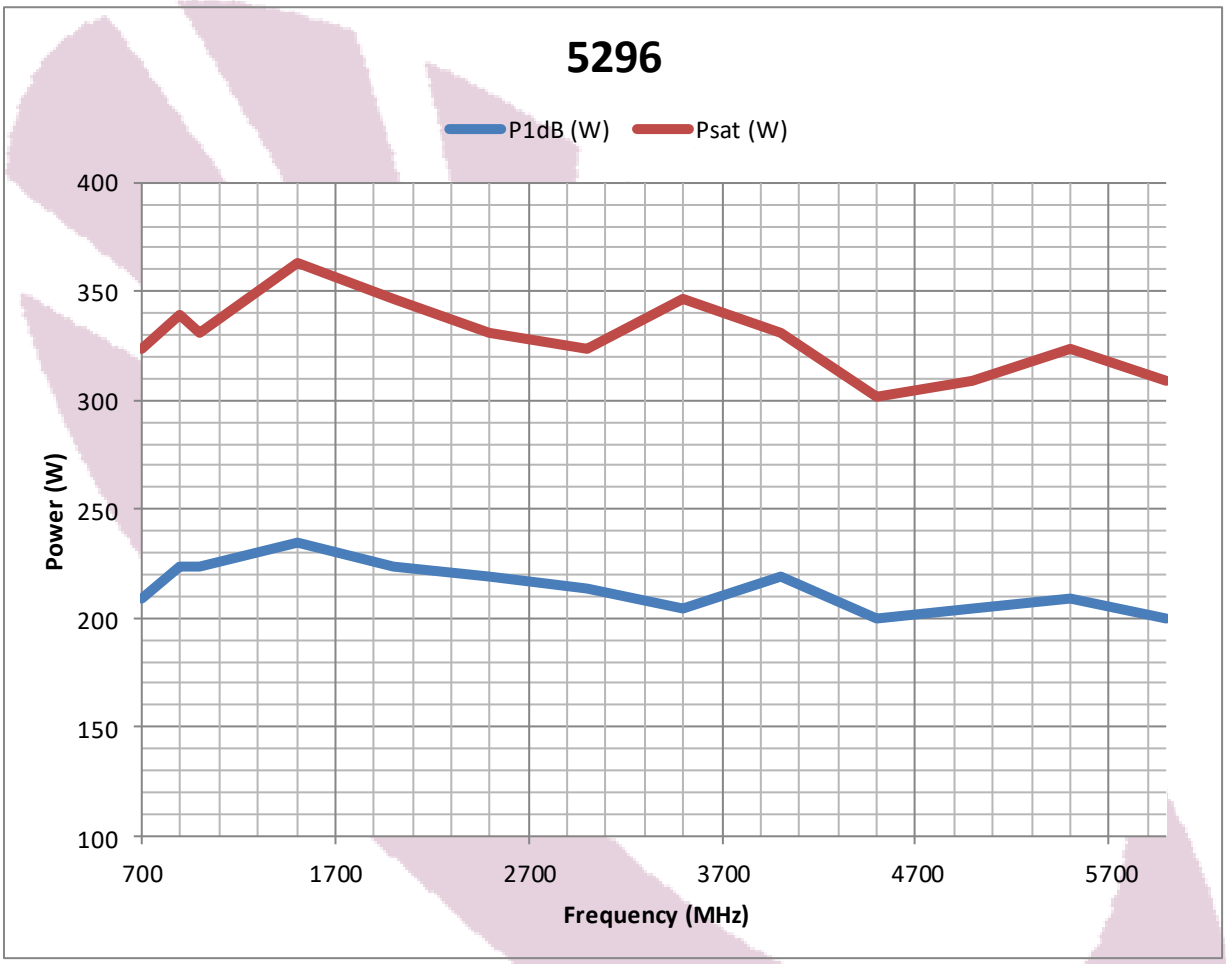

ORDERING MODELS
(Default Connector Configuration is "RE"):

- ◊ RE - Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◊ FE - Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◊ R - Rear RF Connector model
- ◊ F - Front RF Connector model

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