



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 5276
700 - 3000 MHz
500 WATTS
RF POWER AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5276 is a very high power broadband amplifier that covers the 700 – 3000 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 5276 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>			
		<u>Minimum</u>	<u>Nominal</u>	<u>Maximum</u>	<u>Unit</u>
<u>Electrical</u>					
1	Frequency Range	0.7		3.0	GHz
2	Power at P _{SAT}	400	500		Watts
3	Power at P _{1dB}	300			Watts
4	Small Signal Gain	57			dB
5	Gain Flatness			5.0	dB
6	IP ₃		59		dBm
7	Input VSWR			2:1	Ratio
8	Harmonics		-20		dBc
9	Spurious Signals		-60		dBc
10	Input/Output Impedance		50		Ohms
11	AC Input Power			7000	Watts
12	AC Input	208 VAC (± 10%) @ 30 Amps			
13	RF Input		0	+3	dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse			
15	Class of Operation	Class A			
<u>Mechanical</u>					
16	Dimensions	31 x 24" x 26" (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	Type-N Female Input Type-N Female Output			
19	Grounding	Chassis			
20	Cooling	Internal Forced Air			
<u>Environmental</u>					
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

Specifications subject to change without notice



MADE IN USA

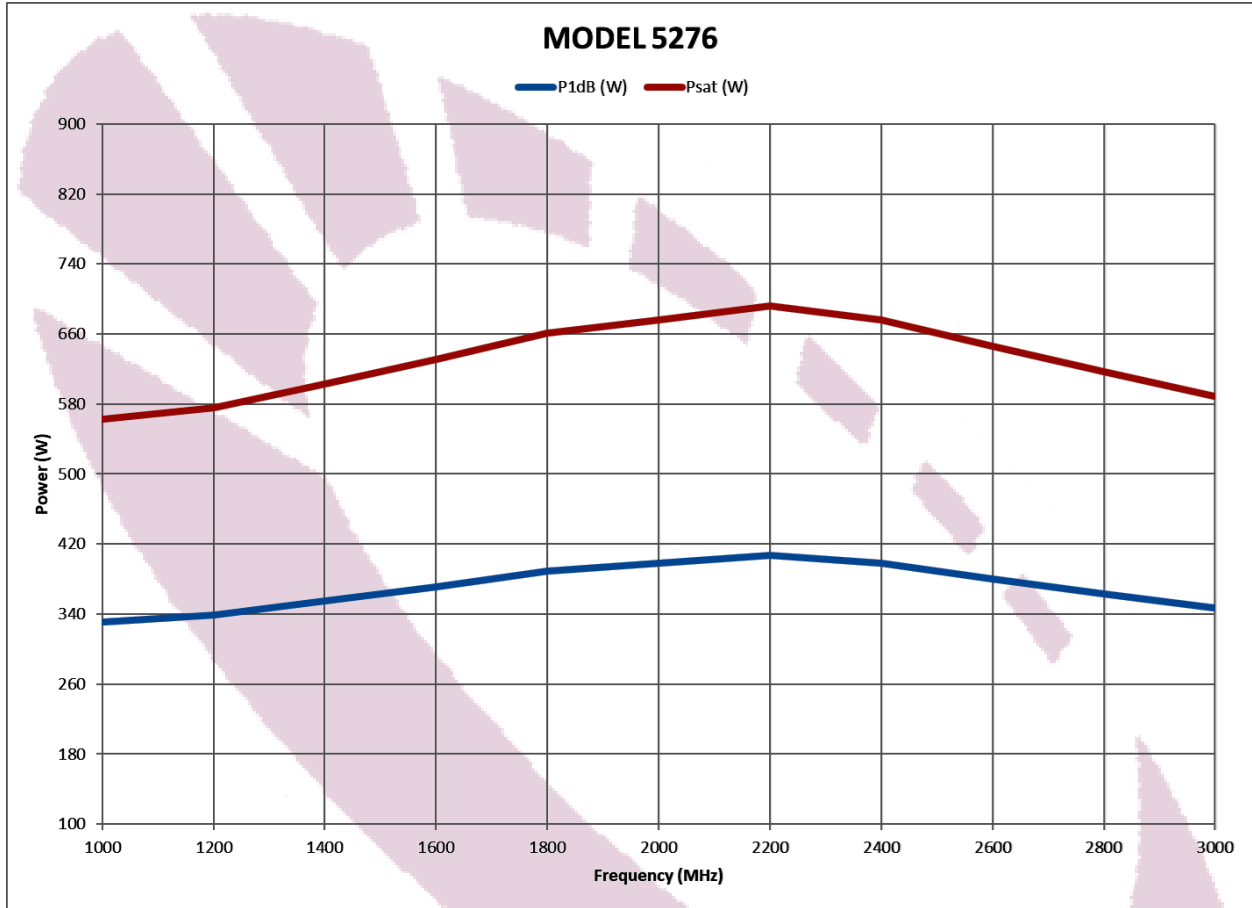
1123 Approved By: _____

Date: _____



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ORDERING MODELS

- ◇ 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