



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 5075
20-500 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The Model 5075 is a 1000 Watt Solid State broadband amplifier that covers the 20-500 MHz frequency range. This amplifier utilizes Class A linear power devices that provide low harmonics, high gain, and excellent stability

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 Model 5075 comes 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	20		500	MHz
2	Power at P _{SAT}	800	1000		Watts
3	Power at P _{1dB}	500	600		
4	Small Signal Gain	61			dB
5	Gain Flatness			4.0	dB
6	IP ₃		64		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			8000	Watts
12	AC Input (Single Phase)	180		240	VAC
13	RF Input		0	+8	dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse			
15	Class of Operation	Class A			
<u>Mechanical</u>					
16	Dimensions	19" x 10.5" x 26"			
17	Weight		150		Lbs.
18	RF Connectors (Front Panel)	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			

Specifications subject to change without notice



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 5075
20-500 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

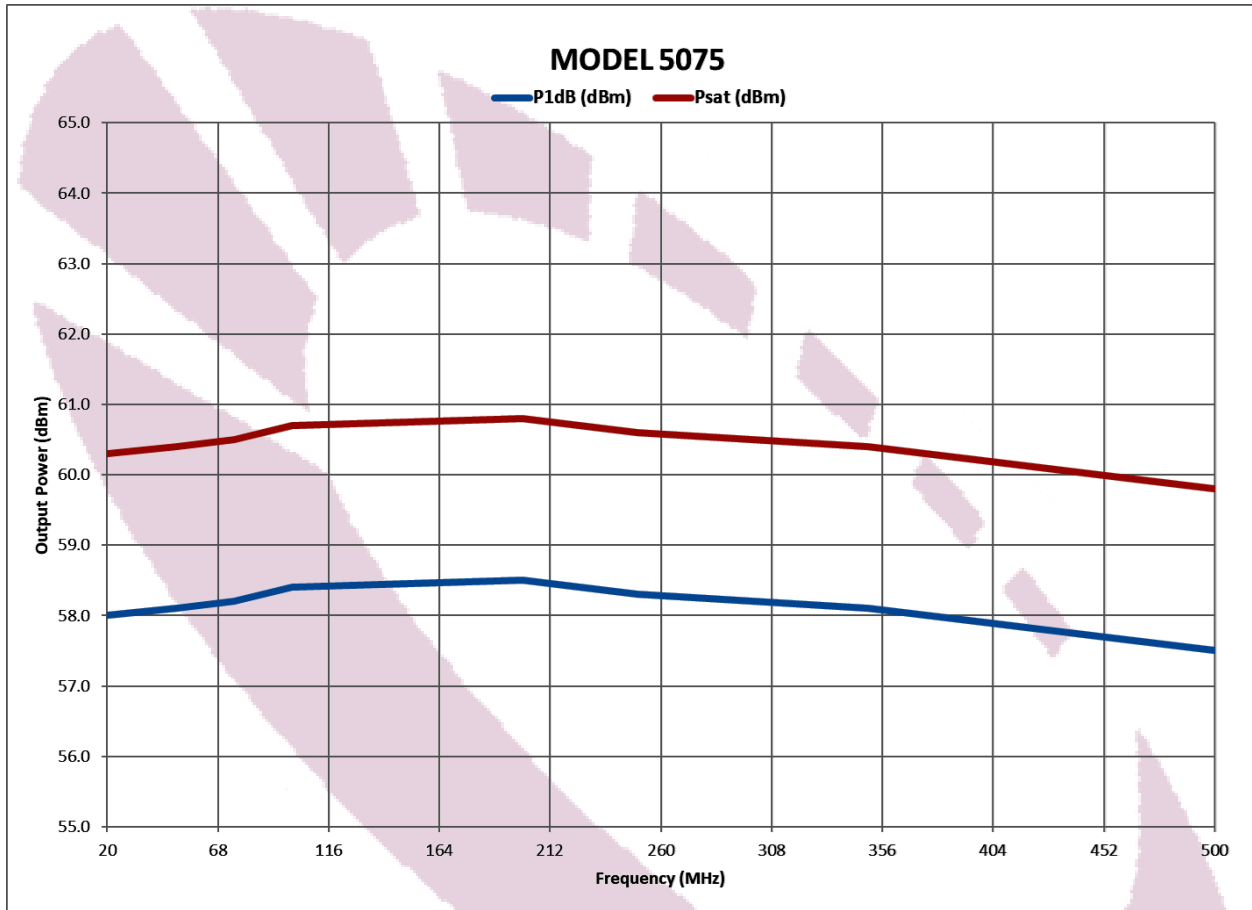
	<u>Parameter</u>
<u>Front Panel Controller</u>	
25	Forward Power Monitoring
26	Reflected Power Monitoring
27	Gain Control (25 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open or Short, any Phase.
30	Remote Control Access via the Ethernet, RS-232, or IEEE-488 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 25dB 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





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 5075
20-500 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER



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



**“FE” Front Connector
Version Shown**