



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)577-9887
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5028
800 - 2000 MHz
12 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5028 is a 12 Watt broad-band amplifier that covers the 800—2000 MHz frequency range. This amplifier utilizes Class A power devices that provide an excellent 3rd order intercept point, high linearity, and a wide dynamic range.

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 5028 comes backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	800 – 2000 MHz
2	Saturated Output Power	12 Watts Typical
3	Power Output @ 1dB Comp.	10 Watts Minimum
4	Small Signal Gain	+41 dB Minimum
5	Small Signal Gain Flatness	± 1.5 dB Maximum
6	IP ₃	+50 dBm Typical
7	Input VSWR	2:1 Maximum
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	< -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	200 Watts Maximum
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm nominal for rated power +3 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<u>Mechanical</u>		
17	Dimensions (W x H x D)	19" x 5.25" x 20"
18	Weight	36 Lbs.
19	RF Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice



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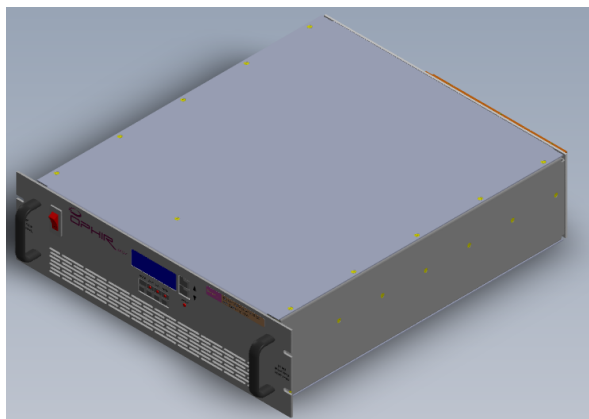
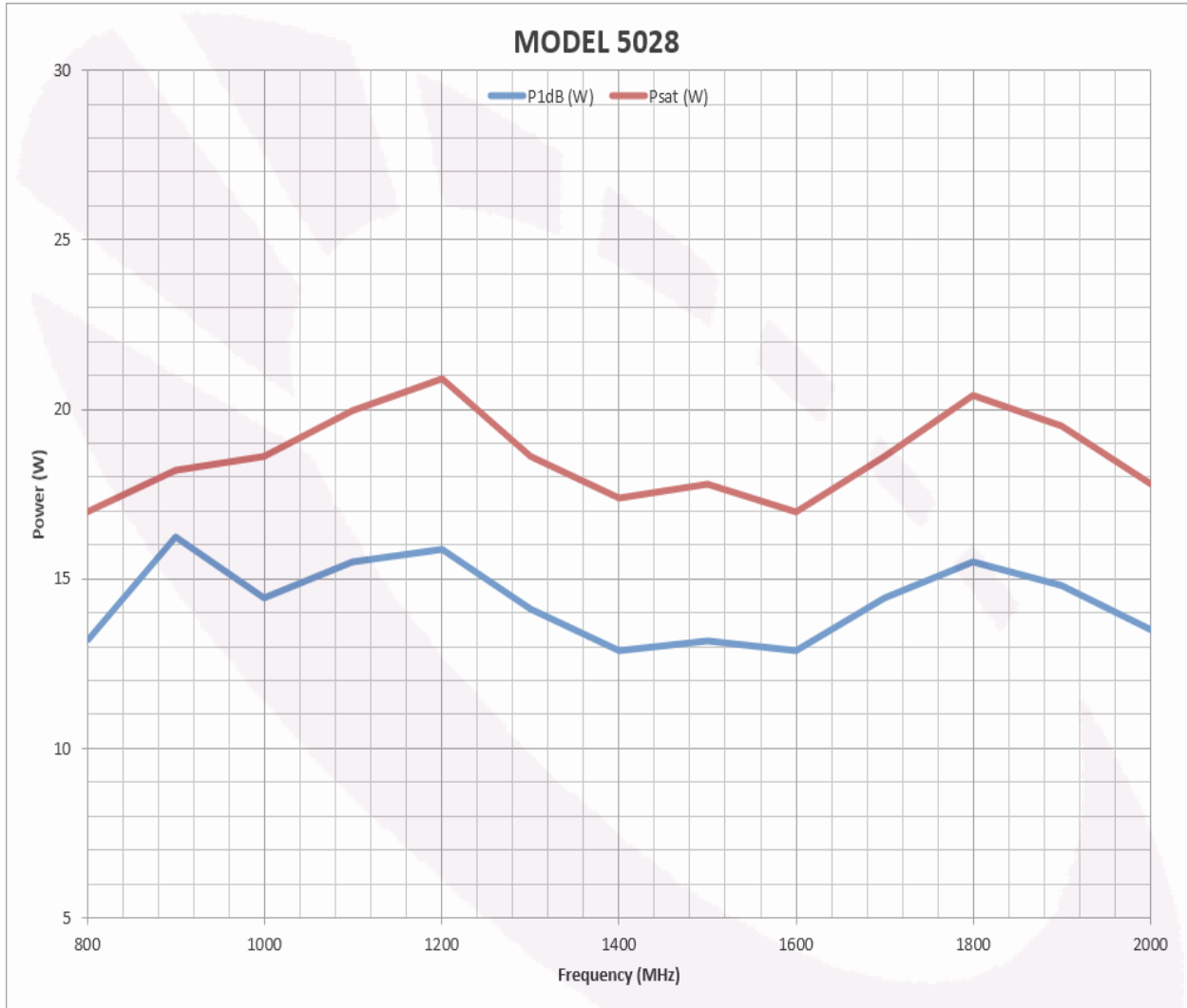
	<u>Parameter</u>
<u>Front Panel Controller</u>	
<i>(With Optional Front Panel Controller (FPC))</i>	
25	Forward Power Monitoring (dBm or Watts)
26	Reflected Power Monitoring (dBm or Watts)
27	Gain Control (20 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open 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 <i>(With optional FPC)</i>
<u>Circuit Control</u>	
<i>(With Optional FPC)</i>	
39	Standby (amplifier disable)
40	Gain/power setting with 20 dB range
41	VSWR protection Reset
42	ALC On/ Off
<u>Circuit Indications</u>	
<i>(With optional FPC)</i>	
43	Forward Power
44	Reflected power
45	VSWR Fault
46	Temp Fault
47	Gain Setting (VVA) percentage





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"RE" Model Shown

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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
- R Rear RF Connector model
- F Front RF Connector model