



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 5258
1000-2500 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5258 is a 1000 Watt broadband amplifier that covers the 1000-2500 MHz frequency range. This amplifier utilizes Class A linear Gallium Nitride (GaN) power devices that provide an excellent output power, VSWR tolerance, 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 5258 comes backed by Ophir RF's commitment to total customer satisfaction.

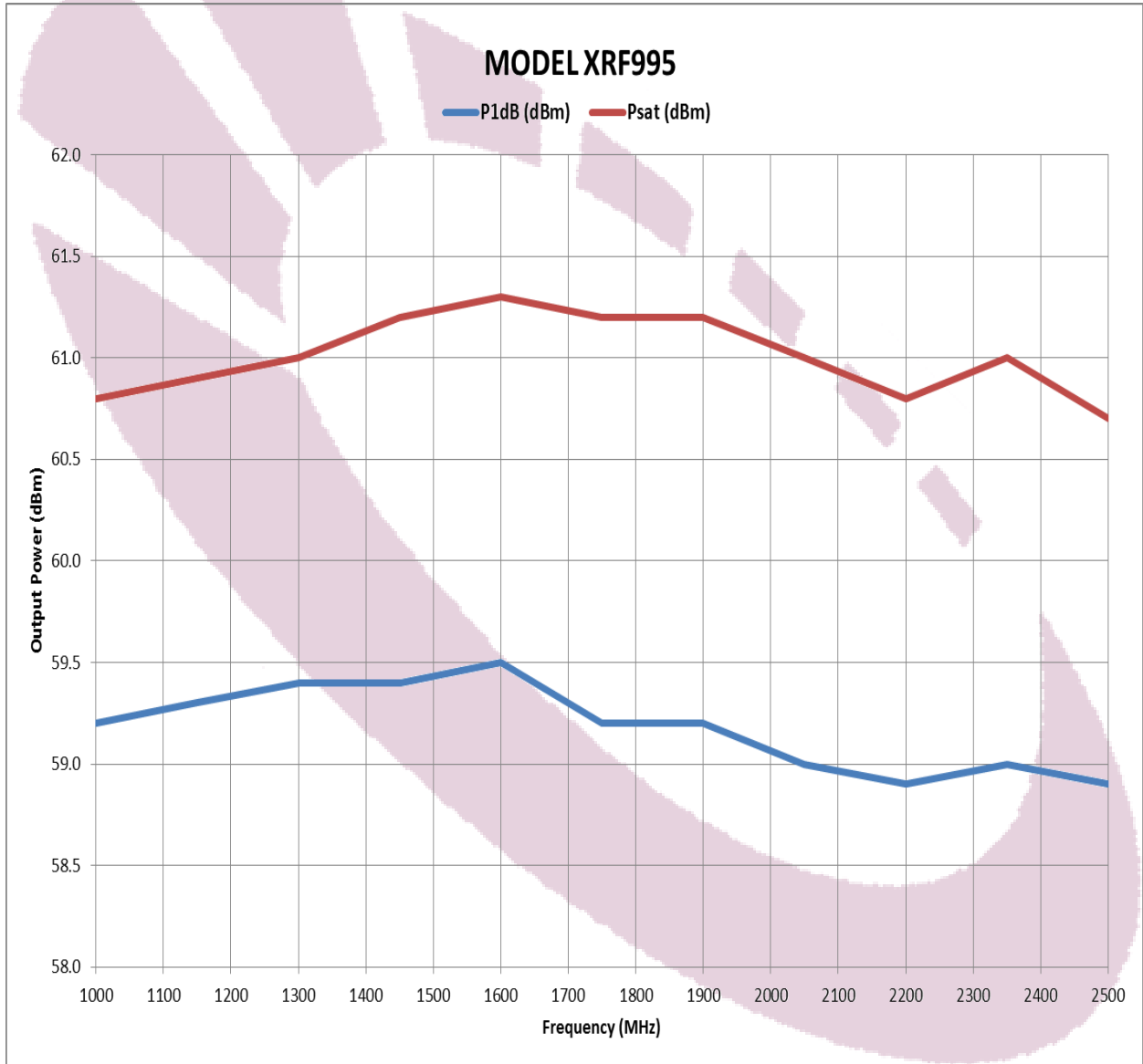
	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	1000-2500 MHz
2	Saturated Output Power	1000 Watts Minimum
3	Power at P _{3dB}	900 Watts Minimum
4	Power at P _{1dB}	700 Watts Minimum
5	Small Signal Gain	+60 dB Minimum
6	Gain Flatness	± 2.0 dB Maximum
7		
8	Input VSWR	2:1 max
9	Harmonics	-15 dBc min @ 700 Watts
10	Spurious Signals	< -60 dBc typical @ 700 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	4500 Watts Maximum
13	AC Input	208 VAC 3Ø, 60 Hz "WYE"
14	Nominal RF Input	0 dBm max
15	Maximum RF input	+10 dBm Maximum
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	Class A
<u>Mechanical</u>		
18	Dimensions (8RU)	19" x 14.0" x 24"
19	Weight	150 Lbs.
20	RF Connectors	Type-N Input Type 7/16 DIN Output
21	Grounding	Chassis
22	Cooling	Internal Forced Air
<u>Environmental</u>		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice



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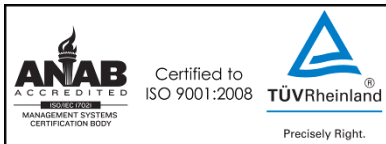
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Proudly made
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FRONT PANEL CONTROLLER FEATURES

- ◇ - Forward Power Monitoring (dBm and Watts)
- ◇ - Reflected Power Monitoring (dBm and Watts)
- ◇ - Gain Control (20 dB dynamic range of adjustment)
- ◇ - Fault Status
- ◇ - Full Protection Of any VSWR Condition, Open or Short, into any Phase Angle
- ◇ - Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
- ◇ - Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
- ◇ - Standby/Enable Control
- ◇ - Front Panel Display for easy viewing of System Status Locally
- ◇ - Keypad buttons for full local control

CIRCUIT PROTECTIONS

- ◇ - Thermal Overload
- ◇ - Over Current
- ◇ - Over Voltage
- ◇ - Open or Short VSWR Conditions

CIRCUIT CONTROL

- ◇ - Standby (amplifier disable)
- ◇ - Gain/power setting with 20dB range
- ◇ - VSWR protection Reset
- ◇ - ALC On/ Off

CIRCUIT INDICATIONS

- ◇ - Forward Power
- ◇ - Reflected power
- ◇ - VSWR Fault
- ◇ - Temp Fault
- ◇ - Gain Setting (VVA) percentage



RE MODEL SHOWN

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