



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 5258**  
**1000-2500 MHz**  
**1,000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

## Solid State Broadband High Power RF Amplifier

The 5258 is a 1,000 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<sub>RF</sub> amplifiers, the 5258 comes backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1000-2500 MHz
2	Saturated Output Power	1000-2000 MHz: 1000 Watts Minimum 2000-2500 MHz: 1000 Watts Typical
3	Power at P <sub>1dB</sub>	1000-2000 MHz: 600 Watts Minimum 2000-2500 MHz: 600 Watts Typical
4	Small Signal Gain	+60 dB Minimum
5	Gain Flatness	± 2.0 dB Maximum
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc min @ 600 Watts
8	Spurious Signals	< -60 dBc typical @ 600 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	10,000 Watts Maximum
11	AC Input	180-240 VAC, Single Phase (Standard) Optional: 208 VAC 3Ø, 60 Hz
12	Nominal RF Input	0 dBm
13	Maximum RF input	<b>+3 dBm Maximum</b>
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	Class A
<b><u>Mechanical</u></b>		
17	Dimensions (8RU)	19" x 14.0" x 24"
18	Weight	200 Lbs.
19	RF Connectors	Type-N Input Type 7/16 DIN Output
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
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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## 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

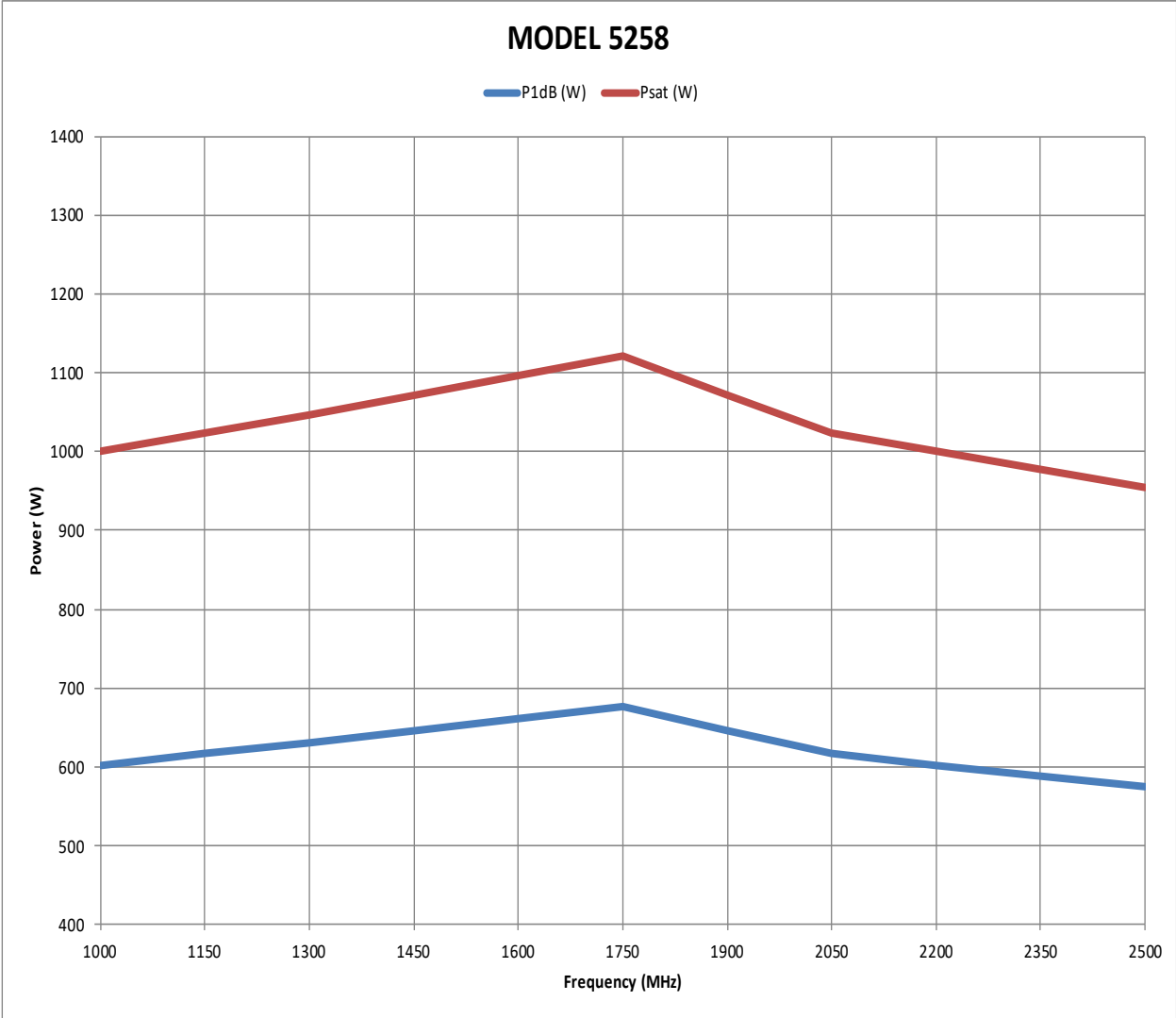
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**FE MODEL SHOWN**

**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