

5200 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

Solid State Broadband High Power RF Amplifier

The 5227 is a 500 Watt broadband amplifier that covers the 80 – 1000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3rd order intercept point, high gain, 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 5227 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	500 Watts Minimum
3	Power at P1dB	350 Watts Minimum
4	Small Signal Gain	+58 dB Minimum
5	Gain Flatness	<u>+</u> 4.0 dB Maximum
6	IP ₃	+64 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc Min @ 350 Watts
9	Spurious Signals	< -60 dBc typical @ 350 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5000 Watts Maximum
12	AC Input	180 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	Class A
Mechanical		
16	Dimensions (3RU)	19" x 8.75" x 26"
17	Weight	100 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing

MODEL 5227

80 - 1000 MHz

500 WATTS

LINEAR POWER RF AMPLIFIER

Specifications subject to change without notice



FE MODEL SHOWN

ORDERING MODELS

23

24

◊ RE _ Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232

Operating Altitude

Shock and Vibration

- ◊ FE _ Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- R _ Rear RF Connector model
- ◊ F _ Front RF Connector model

_ Date: __

Up to 10,000' Above Sea Level

Normal Truck Transport



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80 - 1000 MHz 500 WATTS LINEAR POWER RF AMPLIFIER

FRONT PANEL CONTROLLER FEATURES

◊ Forward Power Monitoring

◊ Reflected Power Monitoring

◊ Gain Control (Continuously Variable VVA 20dB)

◊ 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, phase or input RF level
 Standby/Enable Control

◊ Front Panel Display for easy viewing of System Status Locally

Keypad buttons for full local control

CIRCUIT CONTROL (WITH FRONT PANEL CONTROLLER)

- Standby (amplifier disable)
- Or Gain/power setting with 20dB range
- ◊ VSWR protection Reset

♦ ALC On/ Off

CIRCUIT INDICATIONS (WITH FRONT PANEL CONTROLLER)

- ◊ Forward Power
- ◊ Reflected power

◊ VSWR Fault

◊ Temp Fault

◊ Gain Setting (VVA) percentage

CIRCUIT PROTECTIONS

- Overload
- Over Current
- ◊ Over Voltage
- Open or Short VSWR Conditions (With Front Panel Controller)

RFPA SYSTEM OPTIONS

- Switched Filter Bank
- Input Power Requirements
- Or Ruggedized Version
- Or Cabinet Requirements
- Outdoor Version
- Sample Ports
- Acking Options
- ◊ Many More!
- **Organization of Consult Factory with Specific Requirements**