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#### Solid State Broadband High Power RF Amplifier

The 5126 is a 120 Watt amplifier broadband that covers the 20 - 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide 3<sup>rd</sup> excellent order an 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 5126 comes with an extended multiyear warranty.



**FE MODEL SHOWN** 

#### 20 - 1000 MHz 120 WATTS LINEAR POWER RF AMPLIFIER

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	120 Watts minimum
3	Power Output @ 1dB Comp.	70 Watts minimum
4	Small Signal Gain	+52 dB min
5	Small Signal Gain Flatness	<u>+</u> 2.0 dB max
6	IP <sub>3</sub>	+55 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 70 Watts
9	Spurious Signals	< -60 dBc typical @ 70 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1,500 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b>Mechanical</b>		
16	Dimensions	19" x 5.25 <mark>"</mark> x 26"
17	Weight	69 Lbs.
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b>Environmental</b>		
21	Operating Temperature	0° C to +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.

#### 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

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F \_ Front RF Connector model



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# FRONT PANEL CONTROLLER FEATURES (Optional)

- ◊ Forward Power Monitoring (dBm or Watts)
- ◊ Reflected Power Monitoring (dBm or Watts)
- ◊ Gain Control (20 dB dynamic range)
- ◊ 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 A steady RF output level 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 CONTROL (WITH FRONT PANEL CONTROLLER)

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

ALC On/ Off

## **CIRCUIT INDICATIONS** (WITH FRONT PANEL CONTROLLER)

- ◊ Forward Power
- Output Reflected power
- VSWR Fault

◊ Temp Fault

◊ Gain Setting (VVA) percentage

## **CIRCUIT PROTECTIONS**

- Or Thermal 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**





Date: