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MODEL 5226-001
100 - 500 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High Power
 RF Amplifier**

The 5226-001 is a 500-Watt broadband amplifier that covers the 100 – 500 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 5226-001 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	100 – 500 MHz
2	Saturated Output Power	500 Watts Typical
3	Power at P1dB	250 Watts Minimum
4	Small Signal Gain	+57 dB Minimum
5	Power gain flatness	± 1.5 dB Maximum
6	Small signal gain flatness	± 3.0 dB Maximum
7	IP ₃	+62 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typ. @ 250 Watts
10	Spurious Signals	< -60 dBc typ. @ 250 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	3000 Watts Maximum
13	AC Input	180 – 240 VAC, single phase
14	RF Input	0 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	Class A
<u>Mechanical</u>		
17	Dimensions (4RU)	19" x 7.0" x 24"
18	Weight	67 Lbs.
19	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



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



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FRONT PANEL CONTROLLER FEATURES

- ◇ Forward Power Monitoring
- ◇ Reflected Power Monitoring
- ◇ Gain Control (Continuously Variable VVA 20 dB dynamic range)
- ◇ Fault Status
- ◇ Full Protection of any VSWR Condition, Open or Short, into any phase angle, amplifier folds back on power for protection
- ◇ 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 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
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

CIRCUIT PROTECTIONS

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

RFPA SYSTEM OPTIONS

- ◇ Switched Filter Bank
- ◇ Input Power Requirements
- ◇ Ruggedized Version
- ◇ Cabinet Requirements
- ◇ Outdoor Version
- ◇ Sample Ports
- ◇ Racking Options
- ◇ Many More!
- ◇ **Consult Factory with Specific Requirements**

