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 5226

80 - 1000 MHz
300 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5226 is a 300 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 5226 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25º C
Electrical		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	300 Watts Typical
3	Power at P1dB	200 Watts Minimum
4	Small Signal Gain	+56 dB Minimum
5	Power gain flatness	± 2.0 dB Maximum
6	Small signal gain flatness	± 4.0 dB Maximum
7	IP_3	+62 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typ. @ 200 Watts
10	Spurious Signals	< -60 dBc typ. @ 200 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
Mechanical		
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
Environmental		
22	Operating Temperature	0º C to +50º 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

Approved By: _____ Date: _____

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 5226

80 - 1000 MHz
300 WATTS
LINEAR POWER RF AMPLIFIER

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***

Certified to ISO 9001:2008

Made in the U.S.A.

02/13 Approved By: _____ Date: _____