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

MODEL 5225

80 - 1000 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5225 is a 200 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 5225 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	200 Watts Typical
3	Power at P1dB	120 Watts Minimum
4	Small Signal Gain	+54 dB Minimum
5	Gain Flatness	± 2.5 dB Maximum
6	IP_3	+59 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc min @ 120 Watts
9	Spurious Signals	< -60 dBc typical @ 120 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1800 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	19" x 5.25" x 21"
17	Weight	40 Lbs.
18	RF 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
23	Operating Altitude	Up to 10,000' Above Sea Level
24	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: _____

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FRONT PANEL CONTROLLER FEATURES (*Optional*)

◊ Forward Power Monitoring
◊ Reflected Power Monitoring
◊ 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 CONTROL *(WITH FRONT PANEL CONTROLLER)*

◊ Standby (amplifier disable)
◊ 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

◊ 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***

ANAB ACCREDITED
Certified to ISO 9001:2008
TÜVRheinland Precisely Right.

Made in the U.S.A.

12/12 Approved By: _____ Date: _____