

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 5228-002

500-1000 MHz 1000 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5228-002 is a 1000 Watt broadband amplifier that covers the 500 – 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 devices advanced and this components, amplifier achieves efficiency high operation with proven reliability, Like all OPHIR_{RF} amplifiers, the 5228-002 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

Specifications subject to change without notice



	Parameter	Specification @ 25° C
Electrical	<u>Farameter</u>	Specification (@ 25 C
<u>Electrical</u>	Eroguenov Bango	500 – 1000 MHz
2	Frequency Range	
	Saturated Output Power	1000 Watts Typical
3	Power at P1dB	500 Watts Minimum
4	Small Signal Gain	+63 dB Minimum
5	Gain Flatness	<u>+</u> 5.0 dB Maximum
6	IP ₃	+64 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc min @ 500 Watts
9	Spurious Signals	< -60 dBc typical @ 500 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	10,000 Watts Maximum 12,000 KVA Maximum
12	AC Input	208 VAC, three phase 3Ø Other Input voltages available. Please consult factory
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	31" x 24" x 26"(H x W x D) 79 x 61 x 67 (H x W x D) cm
17	Weight	339 lbs 154 Kg
18	RF Connectors	Type-N Female Input Type 7/16 Female Output
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

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

0413 Approved By: ______ Date: _____



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FRONT PANEL CONTROLLER FEATURES (Optional)

- ♦ 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)
- ♦ 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



Date:

