

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

80 - 1000 MHz 1000 WATTS LINEAR POWER RF AMPLIFIER

Parameter

Electrical

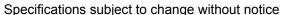
Specification @ 25° C

Solid State Broadband High Power RF Amplifier

The 5228 is a 1000 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 most employment of the advanced devices and components, this amplifier achieves high efficiency operation with proven reliability, Like all OPHIR_{RF} amplifiers, the 5228 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

1	Frequency Range	80 – 1000 MHz	
2	Saturated Output Power	1000 Watts Minimum	
3	Power at P1dB	700 Watts Minimum	
4	Small Signal Gain	+68 dB Minimum	
5	Gain Flatness	<u>+</u> 4.0 dB Maximum	
6	IP ₃	+64 dBm typical	
7	Input VSWR	2:1 max	
8	Harmonics	-15 dBc typical @ 700 Watts	
9	Spurious Signals	< -60 dBc typical @ 700 Watts	
10	Input/Output Impedance	50 Ohms nominal	
11	AC Input Power	10,000 Watts Maximum 12,000 KVA Maximum	
12	AC Input	240 VAC, three phase 3Ø	
13	RF Input	0 dBm max	
14	RF Input Signal Format	CW/AM/FM/PM/Pulse	
15	Class of Operation	Class A	
<u>Mechanical</u>			
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	275 lb. max 125 Kg max	
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

O311 Approved By: ______ Date: _____



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FRONT PANEL CONTROLLER FEATURES

- ♦ 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)







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