



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)577-9887
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5116
10 KHz - 225 MHz
5000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5116 is a 5000 Watt broadband amplifier that covers the 0.01-225 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 5116 comes with a five year warranty backed by Ophir RF's commitment to total customer satisfaction.



Similar system shown

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.01 – 225 MHz
2	Saturated Output Power	5000 Watts ; 10 KHz-50 MHz 5000-4000 Watts; 50 MHz-200 MHz 3500 Watts; 200-225 MHz
3	Power Output @ 1dB Comp.	3400 Watts ; 10 KHz-100 MHz 3400-2500 Watts; 100 MHz-200 MHz 2000 Watts; 200-225 MHz
4	Small Signal Gain	+67 dB min
5	Gain Flatness	+/- 4.0 dB Maximum
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc maximum @ 3000 Watts
8	Spurious Signals	-60 dBc typical @ 3000 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	24,000 Watts maximum
11	AC Input	187-264 VAC, 3Ø "Delta" (4-wire)
12	Nominal RF Input	0 dBm
13	RF Input Overdrive	+10 dBm maximum
14	RF Input Signal Format	CW/AM/FM/PM
15	Class of Operation	A
Mechanical		
17	Dimensions* (W x H x D)	19" x 72" x 36"
18	Weight*	800 lbs. max
19	RF Connectors	RF Input: Type-N RF Output: 1 5/8 DIN
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
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

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



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FRONT PANEL CONTROLLER FEATURES

- ◇ Forward Power Monitoring (dBm or Watts)
- ◇ Reflected Power Monitoring (dBm or Watts)
- ◇ 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 an even output RF level 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

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 20 dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

CIRCUIT INDICATIONS

- ◇ 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

RFPA SYSTEM OPTIONS

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

