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 @ 25º 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	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

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

02/17 Approved By: _____ Date: _____

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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***

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

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