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 5115

10 kHz - 225 MHz
2500 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5115 is a 2500 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 5115 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.01 – 225 MHz
2	Saturated Output Power	2500 Watts ; 10 KHz-100 MHz 2500 -1900 Watts; 100 MHz-225MHz
3	Power Output @ 1dB Comp.	2000 Watts; 10KHz-100MHz 2000-1200 Watts; 100 MHz-225MHz
4	Small Signal Gain	+64 dB min
5	Gain Flatness	+/- 3.0 dB Maximum +/- 1.0 dB Maximum w/ ALC
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc maximum @ 1800 Watts
8	Spurious Signals	-60 dBc typical @ 1800 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	10,000 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 60" x 36" 4 5RU Chassis, 1 3RU Chassis
18	Weight*	600 lb. max
19	RF Connectors	RF Input: Type-N RF Output: 7/16 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

Proudly made in the U.S.A.

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY — Certified to ISO 9001:2008 — TÜVRheinland® Precisely Right.

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

0917 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 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 PROTECTIONS (Included)

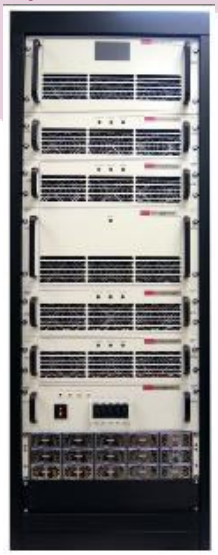
◊ - Thermal Overload
◊ - Over Current
◊ - Over Voltage
◊ - Open or Short VSWR Conditions due to internal Isolator

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



RFPA SYSTEM OPTIONS

◊ - Internal isolator for reflected power protection (Included)
◊ - Input Power Requirements
◊ - Ruggedized Version
◊ - Cabinet Requirements
◊ - Outdoor Version
◊ - Sample Ports
◊ - Racking Options
◊ - Many More!
◊ - ***Consult Factory with Specific Requirements***

 Approved By: _____ Date: _____