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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.



	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
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
<u>Mechanical</u>		
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
<u>Environment</u>		
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
- ◇ Reflected Power Monitoring
- ◇ 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 CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 20dB 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
- ◇ Sample Ports
- ◇ Racking Options
- ◇ Many More!
- ◇ **Consult Factory with Specific Requirements**

