

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 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and this amplifier components, achieves high efficiency operation with proven reliability, Like all OPHIR<sub>RF</sub> amplifiers, the 5115 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.



Parameter				
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; 10 KHz-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		<u>Parameter</u>	Specification @ 25° C	
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2000-1200 Watts; 100 MHz-225MHz	2	Saturated Output Power	2500 -1900 Watts; 100 MHz-	
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25 Shock and vibration Normal Fruck Fransport	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

0715 Approved By: Date:	
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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





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