



5200 Beethoven Street, Los Angeles, CA 90066  
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**MODEL 5064**  
**1 - 1000 MHz**  
**50 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High Power  
 RF Amplifier**

The 5064 is a 50 Watt broadband amplifier that covers the 1 – 1000 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 components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5064 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

|                             | <u>Parameter</u>         | <u>Specification @ 25° C</u>  |
|-----------------------------|--------------------------|-------------------------------|
| <b><u>Electrical</u></b>    |                          |                               |
| 1                           | Frequency Range          | 1 – 1000 MHz                  |
| 2                           | Saturated Output Power   | 50 Watts typical              |
| 3                           | Power Output @ 1dB Comp. | 30 Watts min                  |
| 4                           | Small Signal Gain        | +48 dB min                    |
| 5                           | Gain Flatness            | ± 2.25 dB max                 |
| 6                           | IP <sub>3</sub>          | +51 dBm typical               |
| 7                           | Input VSWR               | 2:1 max                       |
| 8                           | Harmonics                | -20 dBc typical @ 30 Watts    |
| 9                           | Spurious Signals         | < -60 dBc typical @ 30 Watts  |
| 10                          | Input/Output Impedance   | 50 Ohms nominal               |
| 11                          | AC Input Power           | 1000 Watts max                |
| 12                          | AC Input                 | 100 – 240 VAC, single phase   |
| 13                          | RF Input                 | 0 dBm max                     |
| 14                          | RF Input Signal Format   | CW/AM/FM/PM/Pulse             |
| 15                          | Class of Operation       | AB                            |
| <b><u>Mechanical</u></b>    |                          |                               |
| 16                          | Dimensions               | 19" x 5.25" x 20"             |
| 17                          | Weight                   | 45 Lbs.                       |
| 18                          | Connectors               | Type-N                        |
| 19                          | Grounding                | Chassis                       |
| 20                          | Cooling                  | Internal Forced Air           |
| <b><u>Environmental</u></b> |                          |                               |
| 21                          | Operating Temperature    | 0° C to +50° C                |
| 22                          | Operating Humidity       | 95% Non-condensing            |
| 23                          | Operating Altitude       | Up to 10,000' Above Sea Level |
| 24                          | Shock and Vibration      | Normal Truck Transport        |

Specifications subject to change without notice



**FE MODEL SHOWN**

**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
- ◇ R - Rear RF Connector model
- ◇ F - Front RF Connector model



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## FRONT PANEL CONTROLLER FEATURES (*Optional*)

- ◇ 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 (*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

## CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Open or Short VSWR Conditions (*With Front Panel Controller*)

## 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**

