



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)821-7413
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5073
2 - 500 MHz
10 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5073 is a 10 Watt broadband amplifier that covers the 2 – 500 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB 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 5073 comes with an extended multiyear warranty.

| | Parameter | Specification @ 25° C |
|----------------------|----------------------------|-------------------------------|
| Electrical | | |
| 1 | Frequency Range | 2 – 500 MHz |
| 2 | Saturated Output Power | 10 Watts typical |
| 3 | Power Output @ 1dB Comp. | 6 Watts min |
| 4 | Small Signal Gain | +40 dB min |
| 5 | Small Signal Gain Flatness | ± 1.5 dB max |
| 6 | IP ₃ | +44 dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -20 dBc typical @ 6 Watts |
| 9 | Spurious Signals | < -60 dBc typical @ 6 Watts |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | AC Input Power | 200 Watts max |
| 12 | AC Input | 100 – 240 VAC, single phase |
| 13 | RF Input | 0 dBm |
| 14 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 15 | Class of Operation | AB |
| Mechanical | | |
| 16 | Dimensions | 19" x 5.25" x 20" |
| 17 | Weight | 34 Lbs. |
| 18 | Connectors | Type-N |
| 19 | Grounding | Chassis |
| 20 | Cooling | Internal Forced Air |
| Environmental | | |
| 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

- ◇ F Front panel mounted RF Connectors
- ◇ R Rear panel mounted RF Connectors
- ◇ FE Front panel mounted RF Connectors with Front Panel Controller Option Including GPIB, RS-232, and Ethernet Connections
- ◇ RE Rear panel mounted RF Connectors with Front Panel Controller Option Including GPIB, RS-232, and Ethernet Connections



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FRONT PANEL CONTROLLER FEATURES (Optional)

- ◇ Forward Power Monitoring
- ◇ Reflected Power Monitoring
- ◇ Gain Control (Continuously Variable VVA 20dB)
- ◇ 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, phase 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**

