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## MODEL 5322

**5 - 1000 MHz  
15 WATTS  
LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5322 is a 15 Watt broadband amplifier that covers the 5 – 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB 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 5322 comes with an extended multiyear warranty.

|                      | Parameter                  | Specification @ 25° C         |
|----------------------|----------------------------|-------------------------------|
| <b>Electrical</b>    |                            |                               |
| 1                    | Frequency Range            | 5 – 1000 MHz                  |
| 2                    | Saturated Output Power     | 15 Watts typical              |
| 3                    | Power Output @ 1dB Comp.   | 5 Watts min                   |
| 4                    | Small Signal Gain          | +43 dB min                    |
| 5                    | Small Signal Gain Flatness | ± 2.25 dB max                 |
| 6                    | IP <sub>3</sub>            | +45 dBm typical               |
| 7                    | Input VSWR                 | 2:1 max                       |
| 8                    | Harmonics                  | -20 dBc typical @ 5 Watts     |
| 9                    | Spurious Signals           | <-60 dBc typical @ 5 Watts    |
| 10                   | Input/Output Impedance     | 50 Ohms nominal               |
| 11                   | AC Input Power             | 300 Watts max                 |
| 12                   | AC Input                   | 100 – 240 VAC, single phase   |
| 13                   | RF Input                   | +3 dBm max                    |
| 14                   | RF Input Signal Format     | CW/AM/FM/PM/Pulse             |
| 15                   | Class of Operation         | AB                            |
| <b>Mechanical</b>    |                            |                               |
| 16                   | Dimensions                 | 15.5" x 4.75" x 10"           |
| 17                   | Weight                     | 15 Lbs.                       |
| 18                   | Connectors                 | Type-N                        |
| 19                   | Grounding                  | Chassis                       |
| 20                   | Cooling                    | Internal Forced Air           |
| <b>Environmental</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        |

### CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

Specifications subject to change without notice.

