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MODEL 4004

1.8 - 2.0 GHz
12 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4004 is a 12 Watt band-specific amplifier that covers the 1.8-2.0 GHz 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 4004 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ◇ Infinite Load VSWR
- ◇ RF Input Overdrive
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

AVAILABLE OPTIONS

- ◇ LCD Digital Display
- ◇ IEEE-488 GPIB
- ◇ Gain Adjustment
- ◇ Automatic Level Control
- ◇ Extended Temperature Range
- ◇ Rear Panel Connectors
- ◇ Rack Mounting Slide
- ◇ Different Case Styles

| | Parameter | Specification |
|-----------------------------|----------------------------|-------------------------------|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 1.8 – 2.0 GHz |
| 2 | Instantaneous Bandwidth | 60 MHz min |
| 3 | Saturated Output Power | 12 Watts typical |
| 4 | Power Output @ 1dB Comp. | 10 Watts min |
| 5 | Small Signal Gain | +45 dB min |
| 6 | Small Signal Gain Flatness | ± 1.0 dB max |
| 7 | IP ₃ | +52 dBm typical |
| 8 | Input VSWR | 2:1 max |
| 9 | Harmonics | -20 dBc typical @ 1 dB comp. |
| 10 | Spurious Signals | > -60 dBc |
| 11 | Input/Output Impedance | 50 Ohms nominal |
| 12 | AC Input Power | 45 Watts max |
| 13 | AC Input | 100 – 240 VAC, single phase |
| 14 | RF Input Overdrive | +10 dB over 1 dB Compression |
| 15 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 16 | Class of Operation | A/AB Linear |
| <u>Mechanical</u> | | |
| 17 | Dimensions | 19" x 3.5" x 18" |
| 18 | Weight | 22 lb. max |
| 19 | Connectors | Type-N |
| 20 | Grounding | Chassis |
| 21 | Cooling | Internal Forced Air |
| <u>Environmental</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 |

