Solid State Broadband High Power RF Amplifier

The 5175 is a 200 Watt broadband amplifier that covers the 1.0 – 3.0 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 OPHIRRF amplifiers, the 5175 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS
◊ Thermal Overload
◊ Over Current
◊ Over Voltage

ORDERING MODELS
◊ R - Rear Panel Connectors
◊ F - Front Panel Connectors
◊ RE - R model w/Control Option
◊ FE - F model w/Control Option
◊ RT - RE model w/Ethernet Interface
◊ FT - FE model w/Ethernet Interface

Parameter | Specification @ 25° C
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Frequency Range | 1.0 – 3.0 GHz
Saturated Output Power | 200 Watts typical
Power Output @ 1dB Comp. | 150 Watts min
Small Signal Gain | +54 dB min
Small Signal Gain Flatness | ± 2.0 dB max
IP$_3$ | +62 dBm typical
Input VSWR | 2:1 max
Harmonics | -20 dBc typical @ 150 Watts
Spurious Signals | <-60 dBc typical @ 150 Watts
Input/Output Impedance | 50 Ohms nominal
AC Input Power | 2500 Watts max
AC Input | 100 – 240 VAC, single phase
RF Input | +10 dBm max
RF Input Signal Format | CW/AM/FM/PM/Pulse
Class of Operation | A/AB

Dimensions | 24” x 30” x 30” (TBD)
Weight | 200 lb. max
Connectors | Type-N
Grounding | Chassis
Cooling | Internal Forced Air
Operating Temperature | 0° C to +50° C
Operating Humidity | 95% Non-condensing
Operating Altitude | Up to 10,000’ Above Sea Level
Shock and Vibration | Normal Truck Transport

Specifications subject to change without notice.