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MODEL 5183

2.0 - 4.0 GHz 50 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5183 is a 50 Watt broadband amplifier that covers the 2.0 - 4.0 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 5183 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

♦ Thermal Overload
 ♦ Over Current

ORDERING MODELS

- ◊ R Rear Panel Connectors
- ◊ F Front Panel Connectors
- ◊ RE R model w/Control Option
- ◊ FE F model w/Control Option
- ORT RE model w/Ethernet Interface
- ◊ FT FE model w/Ethernet Interface RE Model Shown

Specification @ 25° C Parameter Electrical 1 Frequency Range 2.0 – 4.0 GHz 2 Saturated Output Power 50 Watts typical 3 Power Output @ 1dB Comp. 40 Watts min 4 Small Signal Gain +48 dB min 5 Small Signal Gain Flatness + 2.0 dB max 6 +56 dBm typical IP₃ 7 Input VSWR 2:1 max 8 Harmonics -20 dBc typical @ 40 Watts 9 Spurious Signals > -60 dBc typical @ 40 Watts 10 Input/Output Impedance 50 Ohms nominal 11 AC Input Power 600 Watts max 12 AC Input 100 - 240 VAC, single phase **RF** Input 13 +10 dBm max 14 **RF Input Signal Format** CW/AM/FM/PM/Pulse 15 Class of Operation A/AB Mechanical 16 Dimensions 19" x 5.25" x 20" 17 Weight 48 lb. max 18 Connectors Type-N 19 Grounding Chassis 20 Internal Forced Air Cooling Environmental 0° C to +50° C 21 **Operating Temperature** 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.



Approved By: _

Date: