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line.

MODEL 5182

2.0 - 4.0 GHz 30 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5182 is a 30 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 5182 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

	Parameter Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.0 – 4.0 GHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	24 Watts min
4	Small Signal Gain	+46 dB min
5	Small Signal Gain Flatness	<u>+</u> 1.5 dB max
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 24 Watts
9	Spurious Signals	< -60 dBc typical @ 24 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	350 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+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	35 lb. max
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.

