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MODEL 5193-002

1.8 - 6.0 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5193-002 is a 50 Watt broadband amplifier that covers the 1.8 – 6.0 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 5193-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.8 – 6.0 GHz
2	Saturated Output Power	50 Watts typical @ 1.8 to 5GHz 40 Watts typical @ 5 to 6 GHz
3	Small Signal Gain	+50 dB min
4	Power Flatness	± 1.5 dB max
5	IP ₃	+54 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 30 Watts
8	Spurious Signals	> -60 dBc typical @ 30 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	800 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	10 dBm maximum
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
Mechanical		
15	Dimensions	19" x 5.25" x 18"
16	Weight	48 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
Environmental		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model with Ethernet, IEEE488 and RS232
- ◇ FE - F model with Ethernet, IEEE488 and RS232

CIRCUIT PROTECTIONS

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



F Model Shown

Specifications subject to change without notice

Note: Output power may be lower by up to 1.0dB for RE or FE versions