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MODEL 5019RE-001

500 - 1000 MHz
100 WATTS

Solid State Broadband High Power RF Amplifier

The 5019RE-001 is a 100 Watt broadband amplifier that covers the 500 – 1000 MHz 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 5019RE-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	100 Watts typ
3	Power Output @ 1dB Comp.	60 Watts min
4	Small Signal Gain	+52 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	Third Order Intercept Point	+56 dBm typical
7	Input/Output VSWR	2:1 typ (@ 50 Ohms)
8	Harmonics	-20 dBc typical @ 60 Watts
9	Spurious Signals	> -60 dBc typical @ 60 Watts
10	Input/Output Impedance	50 Ohms nominal
11	Power Consumption	500 Watts
12	AC Input	100 – 240 VAC, single phase
13	RF Input Overdrive	+10 dB over 1 dB Comp. Pt.
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	19" x 5.25" x 20"
17	Weight	48 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.

CIRCUIT PROTECTIONS

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

INCLUDED FEATURES

- ◇ RS-232 Communications Interface
- ◇ Rear Panel Connectors
- ◇ ALC + Gain Adjust
- ◇ LCD Digital Display
- ◇ Rack Mountable

