OPHIR RF

5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)577-9887
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5019RE-001

500 - 1000 MHz
100 WATTS

Solid State Broadband High Power RF Amplifier

The 5019 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 5019 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	$\pm$ 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	Noise Figure	10 dB typ
12	Power Consumption	500 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input Overdrive	+10 dB over 1 dB Compression
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
Mechanical		
17	Dimensions	19" x 5.25" x 20"
18	Weight	48 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	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

RE Model Shown