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MODEL 5029-004

500 - 1000 MHz
500 WATTS

Solid State Broadband High Power RF Amplifier

The 5029-004 is a 500 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.

The 5029-004 consists of three separate components, two power amplifiers and a control unit, to be assembled by the end user with a provided cable kit. Each of the three subassemblies is in a 19" rack mount chassis, with convenient mounting slides for installation.

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 5029-004 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	300 Watts min
4	Small Signal Gain	+58 dB min
5	Gain Flatness	± 2.0 dB
6	IP ₃	+61 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 300 Watts
9	Spurious Signals	> -60 dBc typical @ 300 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	6000 Watts max
12	AC Input	186 – 264 VAC, 3 phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions (Not including rack)	19" x 21" x 26" (W x H x D)
17	Weight	200 lbs. 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

ORDERING MODEL

- ◇ RE - Rear Panel Connectors and Control Option