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MODEL 4049-001

**1930 - 1990 MHz
 12 WATTS
 LINEAR POWER RF AMPLIFIER**

Solid State Band-specific High Power RF Amplifier

The 4049-001 is a 12 Watt band-specific amplifier that covers the 1930 – 1990 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 4049-001 comes with an extended

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1930 – 1990 MHz
2	Saturated Output Power	12 Watts typical
3	Power Output @ 1dB Comp.	10 Watts min
4	Small Signal Gain	+45 dB min
5	Small Signal Gain Flatness	± 1.0 dB max
6	IP ₃	+50 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	< -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	100 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm nominal +10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	19" x 3.5" x 18"
17	Weight	25 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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

- ◇ RT - Rear connectors with control option and Ethernet interface



RT Model Shown