



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 4024-001

2.25 - 2.35 GHz

80 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4024-001 is a 80 Watt band-specific amplifier that covers the 2.25-2.35 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 4024-001 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

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

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - Rear Panel Connectors and Control Option
- ◇ FE - Front Panel Connectors and Control Option

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.25 – 2.35 GHz
2	Saturated Output Power	80 Watts typical
3	Power Output @ 1dB Comp.	60 Watts min
4	Power Output CDMA*	12 Watts typical
5	Small Signal Gain	+49 dB min
6	Small Signal Gain Flatness	± 0.75 dB max
7	IP ₃	+58 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 60 Watts
10	Spurious Signals	< -60 dBc typical @ 60 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	200 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
Mechanical		
17	Dimensions	19" x 3.5" x 18"
18	Weight	30 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.

* CDMA Signal Format: Total composite waveform has a peak-to-average power ratio of 10.2dB.



RE Model Shown