



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 4033-001

2.5 - 2.7 GHz

250 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band-Specific High Power RF Amplifier

The 4033-001 is a 250 Watt band-specific amplifier that covers the 2.5 – 2.7 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 4033-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.5 – 2.7 GHz
2	Saturated Output Power	250 Watts typical
3	Power Output @ 1dB Comp.	200 Watts min
4	Small Signal Gain	+55 dB min
5	Small Signal Gain Flatness	± 1.0 dB max
6	IP ₃	+63 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 200 Watts
9	Spurious Signals	< -60 dBc typical @ 200 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	120 Amps max @ 12 VDC
12	DC Input	12 – 13 VDC
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	19" x 8.75" x 22" (TBD)
17	Weight	80 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
- ◇ Infinite Load VSWR

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface



FE Model Shown