



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 5063A-002

1.0 - 2.0 GHz
300 WATTS

Solid State Broadband High Power RF Amplifier

The 5063A-002 is a 300 Watt broadband amplifier that covers the 1.0 – 2.0 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 5063A-002 comes with an extended

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1.0 – 2.0 GHz
2	Output Power @ 3 dB Comp.	300 Watts typical 280 Watts min
3	Output Power @ 1dB Comp.	250 Watts min
4	Small Signal Gain	+56 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP ₃	+64 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 250 Watts
9	Spurious Signals	> -60 dBc typical @ 250 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2000 Watts max
12	AC Input	208 VAC, single phase
13	RF Input	+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 10.5" x 24"
17	Weight	100 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.

INCLUDED FEATURES

- ◇ LCD Digital Display
- ◇ Gain Adjustment
- ◇ IEEE-488 GPIB
- ◇ RF Coupled Output
- ◇ RF Detected Output
- ◇ Automatic Level Control
- ◇ Safety Interlock

CIRCUIT PROTECTIONS

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

OPTIONAL FEATURES

- ◇ Ethernet Interface

