



5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5075-002

100-400 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5075-002 is a 1000 Watt broadband amplifier that covers the 100-400 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 5075-002 comes with an extended warranty.

Specifications subject to change without notice.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	100-400 MHz
2	Saturated Output Power	1000 Watts typical
3	Power Output @ 1dB Comp.	800 Watts min
4	Small Signal Gain	+61 dB min
5	Gain Flatness	± 3.0 dB
6	IP ₃	+64 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 800 Watts
9	Spurious Signals	> -60 dBc typical @ 800 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	10,000 Watts max
12	AC Input	186 – 264 VAC, three phase
13	RF Input	0 dB max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	42" x 24" x 30" (H x W x D)
17	Weight	550 lb. max
18	RF 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

CIRCUIT PROTECTIONS

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

ORDERING MODELS

- ◇ RE - R model with Ethernet, IEEE488 and RS232
- ◇ FE - F model with Ethernet, IEEE488 and RS232

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

CIRCUIT INDICATIONS

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage



FE Model Shown

Approved By: _____ Date: _____