



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 4047

1.6 - 30 MHz
5000 WATTS

Solid State Band-Specific High Power RF Amplifier

The 4047 is a high power broadband amplifier that covers the 1.6 – 30 MHz frequency range. This 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 4047 comes with an extended multiyear



	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1.6 – 30 MHz
2	Saturated Output Power	5000 Watts typical
3	Power Output @ 1 dB Comp	3000 Watts min
4	Small Signal Gain	+67 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP ₃	+71 dBm typical
7	Harmonics	-15 dBc typ @ 3000 Watts
8	Spurious Signals	< -60 dBc typ @ 3000 Watts
9	Input VSWR	2:1 max
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	20 KVA max
12	AC Input	Per Customer Configuration
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	70" x 24" x 26" (H x W x D)
17	Weight	750 lb. max
18	Connectors	Type-N & LC Female (RF Out)
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 MODELS

- ◇ RE - Rear panel connectors with Control Option
- ◇ FE - Front panel connectors with Control Option
- ◇ RT - RE model with Ethernet Interface
- ◇ FT - FE model with Ethernet Interface