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MODEL 4044-002
2 - 30 MHz
2000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-Specific High Power RF Amplifier

The 4044-002 is a 2000 Watt band-specific amplifier that covers the 2 – 30 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 4044-002 comes with an extended multiyear warranty.



FE Model Shown

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2 – 30 MHz
2	Saturated Output Power	2000 Watts typical
3	Power Output @ 1dB Comp.	1100 Watts min
4	Small Signal Gain	+64 dB min
5	Small Signal Gain Flatness	± 2.5 dB max
6	IP ₃	+66 dBm
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 1100 Watts
9	Spurious Signals	-60 dBc typical @ 1100 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5500 Watts max
12	AC Input	208 ± 10% VAC, single phase
13	Nominal RF Input	0 dBm
14	RF Input Overdrive	+0 dBm max
15	RF Input Signal Format	CW/AM/FM/PM
16	Class of Operation	AB
Mechanical		
17	Dimensions* (W x H x D)	22.5" x 31" x 26"
18	Weight*	300 lbs. max
19	RF 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

* Dimensions and weight include cabinet enclosure.

Specifications subject to change

CIRCUIT CONTROL

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

CIRCUIT INDICATIONS

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

ORDERING MODELS

- ◇ RE - Rear Connector model with Ethernet, IEE-E488 and RS232
- ◇ FE - Front Connector model with Ethernet, IEE-E488 and RS232