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## MODEL 4044-001

**2 - 30 MHz**  
**1800 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Band-Specific High Power RF Amplifier

The 4044-001 is a 1800 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 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 4044-001 comes with an extended multiyear warranty.



**FE Model Shown**

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	2 – 30 MHz
2	Saturated Output Power	1800 Watts typical
3	Power Output @ 1dB Comp.	1100 Watts min
4	Small Signal Gain	+63 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP <sub>3</sub>	+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, three phase
13	Nominal RF Input	0 dBm
14	RF Input Overdrive	+13 dBm max
15	RF Input Signal Format	CW/AM/FM/PM
16	Class of Operation	AB
<b><u>Mechanical</u></b>		
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
<b><u>Environmental</u></b>		
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 without notice.

### CIRCUIT PROTECTIONS

- ◇ Thermal Shutdown
- ◇ Over Voltage
- ◇ High VSWR Alarm
- ◇ RF Input Overdrive Protection

### ORDERING MODELS

- ◇ RE - Rear panel RF connectors with control Option
- ◇ FE - Front panel RF connectors with control option
- ◇ RT - RE model with Ethernet connectivity interface
- ◇ FT - FE model with Ethernet connectivity interface