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**MODEL 4044-004**  
**25 - 27 MHz**  
**1500 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 4044-004 is a 1500 Watt band-specific amplifier that covers the 25 - 27 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 4044-004 comes with an extended multiyear warranty.



**FE Model Shown**

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	25-27 MHz
2	Saturated Output Power	1500 Watts min.
3	Power Output @ 1dB Comp.	1200 Watts min
4	Small Signal Gain	+64 dB min
5	Small Signal Gain Flatness	± 1.0 dB max
6	IP <sub>3</sub>	+66 dBm
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 1200 Watts
9	Spurious Signals	-60 dBc typical @ 1200 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5500 Watts max
12	AC Input	180-240 VAC, single phase
13	Nominal RF Input	0 dBm
14	RF Input Overdrive	+3 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