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## MODEL 5006-002

400 - 525 MHz

575 WATTS

LINEAR POWER RF AMPLIFIER

### Solid State Broadband High Power RF Amplifier

The 5006-002 is a 575 Watt broadband amplifier that covers the 400 – 525 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide 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 5006-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	400 – 525 MHz
2	Saturated Output Power	575 Watts min
3	RF Rise Time @ full power	0.5uS maximum
4	Small Signal Gain	+58 dB min
5	Gain Flatness	± 1.5dB
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	> -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts max
12	AC Input	220 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b><u>Mechanical</u></b>		
16	Dimensions	19" x 8.75" x 26"
17	Weight	80 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
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
- ◇ VSWR @ 2:1 or greater

### ORDERING MODELS

- ◇ FE - F model w/Control Option



Approved By: \_\_\_\_\_ Date: \_\_\_\_\_