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MODEL 4006-001

1.487 - 1.507 GHz

40 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band -specific High Power RF Amplifier

The 4006-001 is a 40 Watt band-specific amplifier that covers the 1.487 – 1.507 GHz 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 4006-001 comes with an extended

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1.487 – 1.507 GHz
2	Saturated Output Power	40 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+63 dB min
5	Small Signal Gain Flatness	± 0.5 dB max
6	IP ₃	+55 dBm typical
7	Input VSWR	1.5:1 max
8	Output VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 30 Watts
10	Spurious Signals	< -60 dBc typical @ 30 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	200 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
17	FWD/REV Coupling	20 dB typical
<u>Mechanical</u>		
18	Dimensions	19" x 3.5" x 18"
19	Weight	26 lb. max
20	Connectors	Type-N (rear)
21	Grounding	Chassis
22	Cooling	Internal Forced Air
<u>Environmental</u>		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage