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MODEL 4007

410 - 450 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4007 is a 1000 Watt band-specific amplifier that covers the 410 – 450 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 4007 comes with an extended multiyear warranty.

	Parameter	Specification
Electrical		
1	Frequency Range	410 – 450 MHz
2	Saturated Output Power	1000 Watts typical
3	Power Output @ 1dB Comp.	700 Watts min
4	Small Signal Gain	+62 dB min
5	Gain Flatness / with ALC	± 1.0 / ± 0/5 dB max
6	IP_3	+66 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 1 dB comp.
9	Spurious Signals	> -60 dBc
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3300 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input Overdrive	+10 dB over 1 dB Compression
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB Linear
Mechanical		
16	Dimensions	19" x 8.75" x 20"
17	Weight	85 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
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

CIRCUIT PROTECTIONS

- ◊ Infinite Load VSWR
- ◊ RF Input Overdrive
- ◊ Thermal Overload
- ◊ Over Current
- ◊ Over Voltage

AVAILABLE OPTIONS

- ◊ LCD Digital Display
- ◊ IEEE-488 GPIB
- ◊ Gain Adjustment
- ◊ Automatic Level Control
- ◊ Extended Temperature Range
- ◊ Rear Panel Connectors
- ◊ Rack Mounting Slide
- ◊ Different Case Styles