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MODEL 6012-002

450-650 MHz
500 WATTS
RF AMPLIFIER FOR NMR

Solid State Broadband High Power RF Amplifier

The 6012-002 is a 500 Watt broadband amplifier that covers the 450-660 MHz frequency range. This amplifier utilizes 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, pulsed operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 6012-002 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

<u>Electrical</u>	<u>Parameter</u>	<u>Specification @ 25° C</u>
1	Frequency Range	450-650 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	250 Watts min
4	Small Signal Gain	+57 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	Blanking	3-5 Vdc = on <0.5 Vdc = Off
7	Blanking Isolation	50 dB min
8	Blanking speed	≤ 5µs
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc @ 250 Watts
11	Spurious Signals	< -60 dBc typical @ 250 Watts
12	AC Input Power	3,000 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	0 dBm Maximum
<u>Mechanical</u>		
15	Dimensions	19" x 8.75" x 20"
16	Weight	80 lbs.
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

CONTROL & INDICATIONS

- ◇ AC Circuit Breaker
- ◇ TTL Control for Blanking (BNC)
- ◇ Temperature Fault

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Open and Short Protection

Specifications subject to change without notice



F VERSION SHOWN

