5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)577-9887
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 6006
1020 - 1550 MHz
150 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 6006 is a 150 Watt band-specific amplifier that covers the 1020-1550 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 6006 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1020-1550 MHz
2	Saturated Output Power	150 Watts typical
3	Power Output @ 1dB Comp.	80 Watts min
4	Small Signal Gain	+50 dB min
5	Small Signal Gain Flatness	± 1.0 dB max
6	IP_3	+59 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc Minimum
9	Spurious Signals	< -60 dBc Minimum
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	800 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	Pulse
15	Class of Operation	A/AB
16	Duty Cycle	1%
17	Pulse Width	500nSec
18	Rise/Fall Time	150nSec
Mechanical		
19	Dimensions	19” x 7.0” x 20”
20	Weight	50 lb. max
21	RF Connectors	Type-N
22	Grounding	Chassis
23	Cooling	Internal Forced Air
Environmental		
24	Operating Temperature	0º C to +50º C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000’ Above Sea Level
27	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

CIRCUIT PROTECTIONS
◊ Thermal Overload
◊ Over Current
◊ Over Voltage

CIRCUIT CONTROL
◊ Standby (amplifier disable)
◊ Gain/power setting with 25dB range
◊ VSWR protection Reset
◊ ALC On/ Off

CIRCUIT INDICATIONS
◊ Forward Power
◊ Reflected power
◊ VSWR Fault
◊ Temp Fault
◊ Gain Setting (VVA) percentage

FE Model Shown

ORDERING MODELS
◊ RE - R model with Ethernet, IEEE488 and RS232
◊ FE - F model with Ethernet, IEEE488 and RS232

Approved By: _____ Date: _____