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MODEL 5020-006

500 - 1000 MHz **200 WATTS** LINEAR POWER RF AMPLIFIER

Solid State **Broadband High Power RF Amplifier**

The 5020-006 is a 200 Watt broadband amplifier that covers the 500 - 1000 MHz frequency range. This small lightweight amplifier and utilizes Class A/AB linear power devices that provide excellent 3rd order an intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier efficiency achieves high with operation proven Like all OPHIR_{RF} reliability. 5020-006 amplifiers, the comes with an extended multiyear warranty.

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

Specifications subject to change without notice

	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	200 Watts Min
3	Power Output @ 1dB Comp.	150 Watts Min
4	Small Signal Gain	+53 dB min
5	Small Signal Gain Flatness	<u>+</u> 1.5 dB max
6	Third Order Intercept Point	+60 dBm
7	Input/Output VSWR	2:1 typ (@ 50 Ohms)
8	Harmonics	-20 dBc typical @ 150 Watts
9	Spurious Signals	-60 dBc typical @ 150 Watts
10	Input/Output Impedance	50 Ohms nominal
11	Power Consumption	900 Watts
12	AC Input	100 – 240 VAC, single phase
13	RF Input Overdrive	0dBm Maximum
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB Linear
<u>Mechanical</u>		
16	Dimensions	19" x 5.25" x 20"
17	Weight	48 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



RE Model Shown

ORDERING MODELS

♦ RE - R model with Ethernet, IEEE488 and RS232

♦ FE - F model with Ethernet, IEEE488 and RS232

0111 Approved By: Date: