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MODEL 5027-001

20 - 1000 MHz
30 WATTS

Solid State Broadband High Power RF Amplifier

The 5027-001 is a 30 Watt broadband amplifier that covers the 20 – 1000 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 5027-001 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20 – 1000 MHz
2	Output Power @ 3 dB Comp.	30 Watts nominal
3	Input Power for Rated Output	0 dBm
5	Flatness	± 1.5 dB max
7	Max Input Signal	+20 dBm with no damage
8	Input Impedance	50 Ohm VSWR 2:1 max
10	Output Impedance	50 Ohm VSWR 2:1 max
12	Mismatch Tolerance	100% of 30 Watts wo/ foldback
13	Source and Load Tolerance	Will operate without damage
14	AC Input Power	800 Watts
15	AC Input	100 – 240 VAC, single phase
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
Mechanical		
16	Dimensions	19" x 5.25" x 20"
17	Weight	45 lb.
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

**OPHIR_{RF} INC. PROPRIETARY AND
 CONFIDENTIAL INFORMATION**

CIRCUIT PROTECTIONS

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

ORDERING MODELS

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

This unit will start without beginning in standby operation.



F Model Shown