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MODEL 5067RE-003

20 - 1000 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5067RE-003 is a 500-Watt broadband amplifier that covers the 20 – 1000 MHz frequency range. This 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 5067RE comes with an extended multiyear warranty.

The height of the amplifier rack will consist of 24.5" (13 RU) for the RF amplifier section and 8.75" (5 RU) for storage space in the top portion of the cabinet along with a shelf for a pull-out computer shelf.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	250 Watts min
4	Small Signal Gain	+58 dB min
5	Small Signal Gain Flatness	± 3.0 dB max ± 1.25 dB max with ALC
6	IP ₃	+63 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 250 Watts
9	Spurious Signals	< -60 dBc typical @ 250 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5000 Watts max
12	AC Input	180 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	31" x 34" x 26"
17	Weight	190 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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

Specifications subject to change without notice.



ORDERING MODELS

- ◇ RE - Rear panel RF connectors with controller option, and full communication ports.



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FRONT PANEL CONTROLLER FEATURES:

- ◇ Forward Power Monitoring
- ◇ Reflected Power Monitoring
- ◇ Gain Control (Dynamic range of 20 dB minimum)
- ◇ Fault Status
- ◇ Full Protection Of any VSWR Condition, Open or Short, into any Phase angle
- ◇ Remote Control Access via the Ethernet, RS-232, or IEEE-488 communications ports
- ◇ Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
- ◇ Standby/Enable Control
- ◇ Front Panel Display for easy viewing of System Status Locally
- ◇ Keypad buttons for full local control

CIRCUIT CONTROL *(WITH FRONT PANEL CONTROLLER):*

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 20 dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

CIRCUIT INDICATIONS *(WITH FRONT PANEL CONTROLLER):*

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

CIRCUIT PROTECTIONS:

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Open or Short VSWR Conditions *(With Front Panel Controller)*

RFPA SYSTEM OPTIONS:

- ◇ Switched Filter Bank
- ◇ Input Power Requirements
- ◇ Ruggedized Version
- ◇ Cabinet Requirements
- ◇ Outdoor Version
- ◇ Sample Ports
- ◇ Racking Options
- ◇ Many More!
- ◇ ***Consult Factory with Specific Requirements***