

5200 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413

WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5079

20 - 500 MHz 250 WATTS LINEAR POWER RF AMPLIFIER

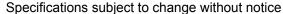
Solid State Broadband High Power RF Amplifier

The 5079 is a 250 Watt broadband amplifier that covers the 20 – 500 MHz frequency range. This amplifier utilizes Class A 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 5079 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

		Parameter	Specification @ 25° C
	Electrical		
	1	Frequency Range	20 – 500 MHz
	2	Saturated Output Power	250 Watts Typical 200 Watts Minimum
	3	Power at P1dB	150 Watts Typical 120 Watts Minimum
	4	Small Signal Gain	+54 dB Minimum
	5	Small Signal Gain Flatness	<u>+</u> 2.0 dB Maximum
	6	IP ₃	+57 dBm Typical
	7	Input VSWR	2:1 max
r	8	Harmonics	-20 dBc min @ 150W
	9	Spurious Signals	<-60 dBc min @ 150W
	10	Input/Output Impedance	50 Ohms nominal
1	11	AC Input Power	1,500 Watts Maximum
	12	AC Input	180 – 240 VAC, single phase
	13	RF Input	0 dBm nominal for rated power +3 dBm max
	14	RF Input Signal Format	CW/AM/FM/PM/Pulse
١	15	Class of Operation	Class A
	Mechanical		
	17	Dimensions	19" x 5.25" x 21"
	18	Weight	54 Lbs.
	19	RF Connectors	Type-N (Female)
	20	Grounding	Chassis
	21	Cooling	Internal Forced Air
	Environmental		
	22	Operating Temperature	0° C to +50° C
	23	Operating Humidity	95% Non-condensing
	23	Operating Altitude	Up to 10,000' Above Sea Level
	24	Shock and Vibration	Normal Truck Transport





FE MODEL SHOWN

OF	RDERING	MODELS:

♦ RE Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232

♦ FE Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232

08/17 Approved By: ______ Date: _____



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FRONT PANEL CONTROLLER FEATURES (Optional)

- ♦ Forward Power Monitoring (dBm or Watts)
- ♦ Reflected Power Monitoring (dBm or Watts)
- ♦ Gain Control (20 dB dynamic range)
- ♦ 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 A steady RF output level 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**





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