

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 5059-006

20-500 MHz 50 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5059-006 is a 200 Watt broadband amplifier that covers the 20-500 MHz frequency range. This amplifier utilizes Class A/B 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 this components, amplifier achieves efficiency high operation with proven reliability, Like all OPHIR_{RF} amplifiers, the 5059-006 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	Specification @ 25° C	
<u>Electrical</u>			
1	Frequency Range	20-500 MHz	
2	Saturated Output Power	50 Watts Typical	
3	Power at P1dB	30 Watts Minimum	
4	Small Signal Gain	+47 dB Minimum	
5	Gain Flatness	<u>+</u> 2.0 dB Maximum	
6	IP ₃	+51 dBm typical	
7	Input VSWR	2:1 max	
8	Harmonics	-20 dBc min @ 30 Watts	
9	Spurious Signals	< -60 dBc typical @ 30 Watts	
10	Input/Output Impedance	50 Ohms nominal	
11	AC Input Power	250 Watts Maximum	
12	AC Input	100 – 240 VAC, single phase	
13	RF Input	0 dBm max	
14	RF Input Signal Format	CW/AM/FM/PM/Pulse	
15	Class of Operation	Class A/B	
<u>Mechanical</u>			
16	Dimensions	19" x 3.25" x 20"	
17	Weight	24 Lbs.	
18	RF 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	

Specifications subject to change without notice



FE MODEL SHOWN

ORDERING MODELS

♦ FE

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

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

♦ R - Rear RF Connector model

♦ F _ Front RF Connector model

'-006 SPECIAL FEATURES

♦ Rack-mount Slides for equipment rack installation included.

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FRONT PANEL CONTROLLER FEATURES (Optional)

- ♦ Forward Power Monitoring
- ♦ Reflected Power Monitoring
- ♦ Gain Control (20 dB dynamic range of adjustment)
- ♦ 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 20dB 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**



Date:

