

5300 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

20 - 500 MHz 50 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5059 is a 50 Watt broadband amplifier that covers the 20 - 500 MHz frequency range. This small lightweight amplifier and utilizes Class A/AB linear power devices that provide 3rd excellent 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 high efficiency achieves operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5059 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ♦ Thermal Overload
- ♦ Over Current
- ♦ Over Voltage

	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	20 – 500 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+47 dB min
5	Small Signal Gain Flatness	<u>+</u> 2.0 dB max
6	IP ₃	+51 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc minimum @ 30 Watts -20 dBc typical @ 30 Watts
9	Spurious Signals	< -60 dBc typical @ 30 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	300 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	19" x 5.25" x 20"
17	Weight	36 Lbs.
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.



FE MODEL SHOWN

ORDERING 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

♦ R - Rear RF Connector model

♦ F _ Front RF Connector model

08/14 Approved By: Date: