

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 5085

0.01-250 MHz 100 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5085 is a 100 Watt broadband amplifier that covers the 0.01-250 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 5085 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	0.01-250 MHz
2	Saturated Output Power	100 Watts Minimum
3	Power at P1dB	60 Watts Minimum
4	Small Signal Gain	+50 dB Minimum
5	Gain Flatness	<u>+</u> 2.5 dB Maximum
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc Min @ 60 Watts
9	Spurious Signals	< -60 dBc typical @ 60 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	700 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
<u>Mechanical</u>		
16	Dimensions (3RU)	19" x 8.75" x 20"
17	Weight	57 Lbs.
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		e
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



satisfaction.

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

04/16 Approved By: _____ Date: ____



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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 PROTECTIONS

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

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
- Gain Setting (VVA) percentage

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



