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 5195

2.0-6.0 GHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5195 is a 200 Watt broadband amplifier that covers the 2.0-6.0 GHz frequency range. This small and lightweight 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 5195 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.0-6.0 GHz
2	Power Out at P_{SAT}	200 W Typical
3	Power Out at P_{1dB}	150 W Minimum
4	Small Signal Gain	+55 dB Minimum
5	Power Flatness (0 dBm Pin)	+/- 3.0 dB Maximum
6	IP_3	+60 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 150W
9	Spurious Signals	< -60 dBc typical @ 150W
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	4,000 Watts max
12	AC Input	180 – 264 VAC, single phase
13	RF Input	0 dBm Nominal **+3 dBm Maximum**
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
Mechanical		
16	Dimensions	19" x 8.75" x 26"
17	Weight	108 lbs.
18	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

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

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FRONT PANEL CONTROLLER FEATURES

◊ - Forward Power Monitoring (dBm or Watts)
◊ - Reflected Power Monitoring (dBm or Watts)
◊ - 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
◊ - Temp 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***

Proudly made in the U.S.A.

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY — Certified to ISO 9001:2008 — TÜVRheinland® Precisely Right.

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