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 5194-700

2.0 - 6.0 GHz
100 WATTS
LINEAR POWER RF AMPLIFIER

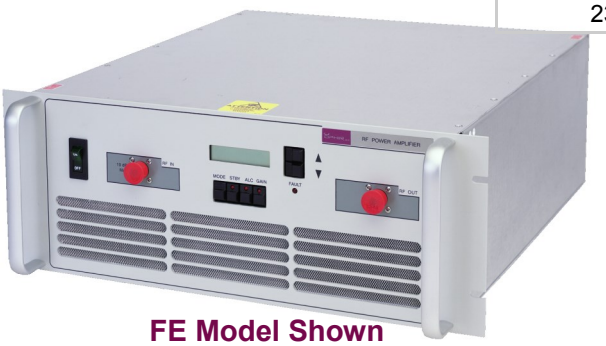
Solid State Broadband High Power RF Amplifier

The 5194-700 is a 100 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 5194-700 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.0 – 6.0 GHz
2	Saturated Output Power	100 Watts Minimum
3	P1dB Output Power	80 Watts Minimum
4	Small Signal Gain	+53 dB min
5	Power Flatness	± 3.0 dB max
6	IP_3	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2000 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
Mechanical		
16	Dimensions	19" x 8.75" x 24"
17	Weight	65 lb. max
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
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice



FE Model Shown

ORDERING MODELS

- ◊ **R** - Rear Panel Connector Model
- ◊ **F** - Front Panel Connector Model
- ◊ **RE** - Rear Panel Connector Model with Ethernet, IEEE488 and RS232 Communication Ports
- ◊ **FE** - Front Panel Connector Model with Ethernet, IEEE488 and RS232 Communication Ports

Approved By: _____ Date: _____

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FRONT PANEL CONTROLLER FEATURES

◊ Forward Power Monitoring
◊ Reflected Power Monitoring
◊ Gain Control (Continuously Variable VVA 20dB)
◊ 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, phase 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***

ANAB ACCREDITED
Certified to ISO 9001:2008
TÜVRheinland Precisely Right.

Made in the U.S.A.

0411 Approved By: _____ Date: _____