

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 5290

0.7-6.0 GHz 8 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5290 is a 8 Watt broadband amplifier that covers the 700-6000 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 5290 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	Specification @ 25° C
Electrical		
1	Frequency Range	0.7-6.0 GHz
2	Saturated Output Power	8 Watts Nominal
3	Power at P1dB	5 Watts Minimum
4	Small Signal Gain	+39 dB Minimum
5	Gain Flatness	± 5.0 dB Maximum
6	IP ₃	+43 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc min @ 5 Watts
9	Spurious Signals	< -60 dBc typical @ 5 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	300 Watts Maximum
12	AC Input	110 – 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	19" x 5.25" x 21"
17	Weight	45 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

- 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

0517	Approved By:	Date:	



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 5290

0.7-6.0 GHz 8 WATTS LINEAR POWER RF AMPLIFIER

FRONT PANEL CONTROLLER FEATURES (Optional)

- ♦ 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 a steady output level 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 20 dB range
- ♦ VSWR protection Reset
- ♦ ALC On/ Off

CIRCUIT INDICATIONS (WITH FRONT PANEL CONTROLLER)

- 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
- ◊ Consult Factory with Specific Requirements



