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 5227

80-1000 MHz
750 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5227 is a 750 Watt broadband amplifier that covers the 80-1000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide low harmonics, high gain, and excellent stability

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 5227 comes with an extended multi-year warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	80-1000 MHz
2	Saturated Output Power	750 Watts Nominal
3	Power at P1dB	500 Watts Minimum
4	Small Signal Gain	+59 dB Minimum
5	Gain Flatness	± 4.0 dB Maximum
6	IP_3	+63 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20dBc Minimum @ 500 Watts
9	Spurious Signals	< -60dBc Nominal @ 500 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5000 Watts Maximum
12	AC Input	180 – 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
Mechanical		
16	Dimensions (5RU)	19" x 8.75" x 26"
17	Weight	125 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
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

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	Parameter
Front Panel Controller	
25	Forward Power Monitoring
26	Reflected Power Monitoring
27	Gain Control (25 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open or Short, any Phase.
30	Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
31	Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
32	Standby/Enable Control
33	Front Panel Display for easy viewing of System Status Locally
34	Keypad buttons for full local control
Circuit Protections	
35	Thermal Overload
36	Over Current
37	Over Voltage
38	Open or Short VSWR Conditions
Circuit Control	
39	Standby (amplifier disable)
40	Gain/power setting with 25dB range
41	VSWR protection Reset
42	ALC On/ Off
Circuit Indications	
43	Forward Power
44	Reflected power
45	VSWR Fault
46	Temp Fault
47	Gain Setting (VVA) percentage

MADE IN USA

Certified to ISO 9001:2015

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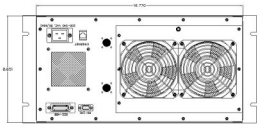

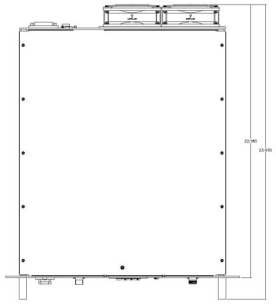

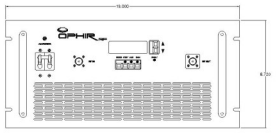

FE MODEL SHOWN

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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