



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 5127-003
20 - 1000 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5127-003 is a broadband amplifier that covers the 20 – 1000 MHz frequency range. This amplifier utilizes Class A/AB 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 5127-003 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

Electrical	<u>Parameter</u>	<u>Specification @ 25° C</u>			
		<u>Minimum</u>	<u>Nominal</u>	<u>Maximum</u>	<u>Unit</u>
1	Frequency Range	20		1000	MHz
2	Power P _{SAT} 20-500 MHz	250	300		Watts
3	Power P _{SAT} 500-1000 MHz	160	200		Watts
4	Small Signal Gain	54			dB
5	Gain Flatness			±3.0	dB
6	IP ₃		+57		dBm
7	Input VSWR			2:1	Ratio
8	Harmonics @ 200W	-12	-20		dBc
9	Spurious Signal @ 200W		-60		dBc
10	Input/Output Impedance		50		Ohms
11	AC Input Power			1600	Watts
12	AC Input	180-240 VAC Single Phase			
13	RF Input (No Damage)			+0	dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse			
15	Class of Operation	Class A			
Mechanical					
16	Dimensions H x W x D	8.75" x 19" x 20"			
17	Weight	65 Lbs.			
18	RF Connectors	Type-N Female Input Type-N Female Output			
19	Grounding	Chassis			
20	Cooling	Internal Forced Air			
Environmental					
21	Operating Temperature	0		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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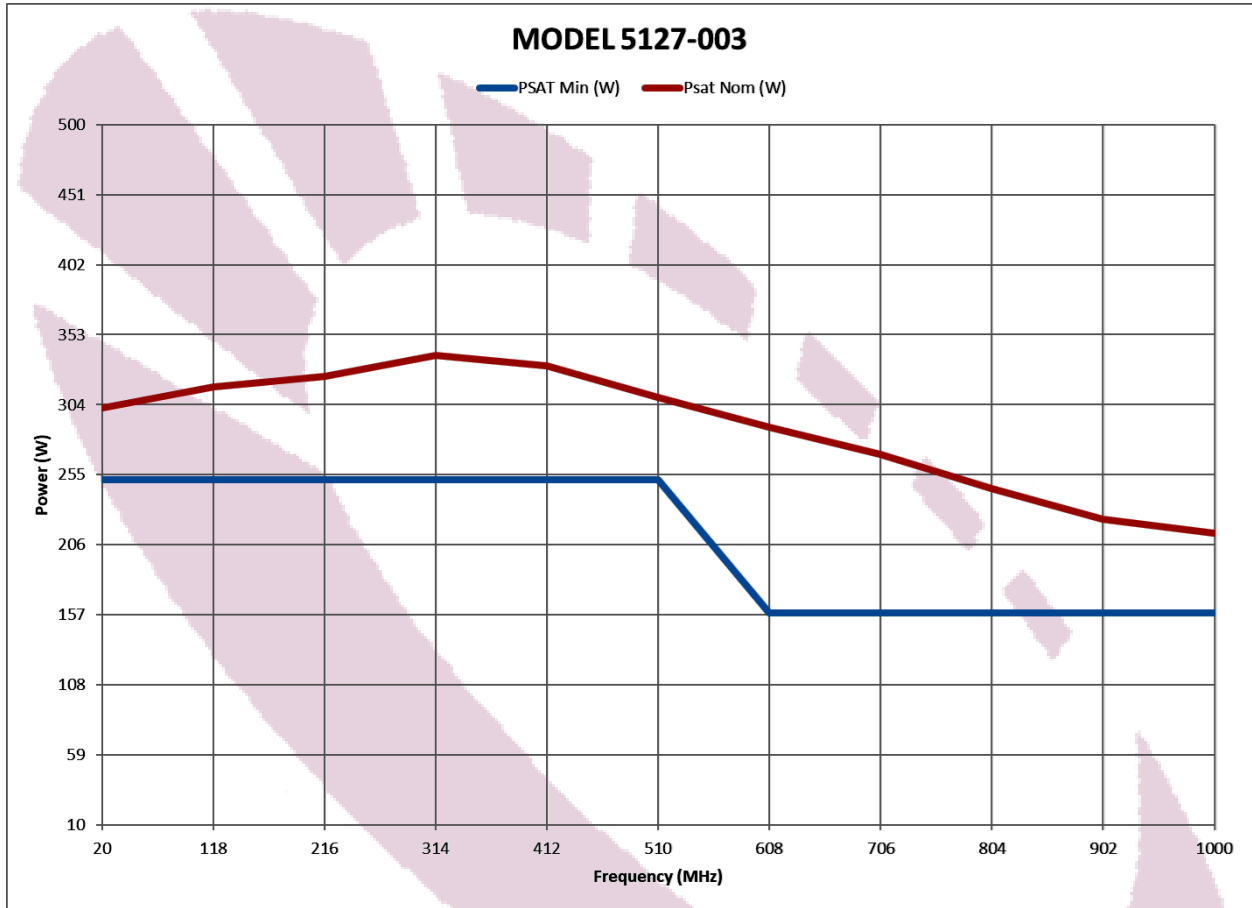
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	<u>Parameter</u>
<u>Front Panel Controller</u>	<u>(Optional)</u>
25	Forward Power Monitoring
26	Reflected Power Monitoring
27	Gain Control (20 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open or Short, 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
<u>Circuit Protections</u>	
35	Thermal Overload
36	Over Current
37	Over Voltage
38	Open or Short VSWR Conditions
<u>Circuit Control</u>	
39	Standby (amplifier disable)
40	Gain/power setting with 20 dB range
41	VSWR protection Reset
42	ALC On/ Off
<u>Circuit Indications</u>	
43	Forward Power
44	Reflected power
45	VSWR Fault
46	Temp Fault
47	Gain Setting (VVA) percentage
<u>Options</u>	
48	AC Input power options (3Ø, 400 Hz, DC, etc.)
49	Outdoor Chassis
50	Switched Filter Bank for Harmonic Suppression & FCC Spectral Mask Compliance



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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

