



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)577-9887
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 4043
2-30 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 4043 is a 1000 Watt broadband amplifier that covers the 2-30 MHz frequency range. This amplifier utilizes Class 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 4043 comes with an extended multi-year warranty, backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	2-30 MHz
2	Power Output P _{SAT}	1000 Watts Minimum
3	Power Output P _{1dB}	600 Watts Minimum
4	Small Signal Gain	+62 dB min
5	Power Gain Flatness	± 2.0 dB min
6	IP ₃	+67 dBm min
7	Input VSWR	2:1 max
8	Harmonics (Without Filters)	-15 dBc typical @ 600 Watts
9	Spurious Signals	-60 dBc typical @ 600 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts Maximum
12	AC Input	208 VAC 3Ø Delta Δ Configuration 180-240 VAC 1Ø available
13	Harmonic Filters	Available (Optional)
14	RF Input Overdrive	+0 dBm max
15	RF Input Signal Format	CW/AM/FM/PM
16	Class of Operation	A
<u>Mechanical</u>		
17	Dimensions* (H x W x D)	8.75" x 19" x 20"
18	Weight*	85 Lbs. maximum
19	RF Connectors	Type-N RF Input Type-N RF Output
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport



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	<u>Parameter</u>
<u>Front Panel Controller</u>	
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
<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 25dB 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>XRF991 Special Features</u>	
48	Watch Dog Timer
49	Ruggedized Chassis
50	Can be mounted directly to Antenna Pedestal



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Specifications subject to change without notice



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



MADE IN USA



0220 Approved By: _____ Date: _____