



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 7054
0.1-1000 MHz
180 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 7054 is a 180 Watt broadband amplifier that covers the 0.1-1000 MHz frequency range. This is a two channel amplifier that will allow operation of either the low band channel (0.1-200 MHz) or the high band channel (80-1000 MHz). Band Switching is done internally and can be activated either locally or remotely. 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 7054 comes with an extended multiyear 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 Low Band High Band	0.1-1000 MHz 0.1-200 MHz 80-1000 MHz
2	Power at P _{3dB}	180 Watts Minimum
3	Small Signal Gain	+53dB Minimum
4	Small Signal Gain Flatness	± 2.0 dB Maximum each band
5	IP ₃	+58 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-18 dBc typical @ 180 Watts
8	Spurious Signals	< -60 dBc typical @ 180 Watts
9	Input/Output Impedance	50 Ohms nominal
10	Input Mismatch	100% of rated power i) Without Foldback ii) Without Damage
11	AC Input Power	2000 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+3 dBm Maximum +0 dBm Nominal for P _{3dB} power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 26"
17	Weight	39 Lbs.
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
21	Audible Noise Level	≤ 80 dBa
<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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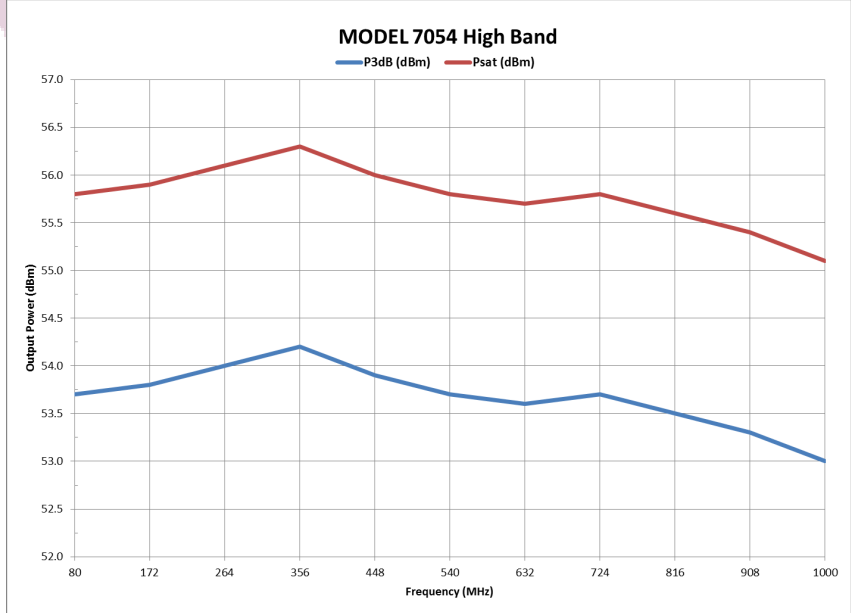
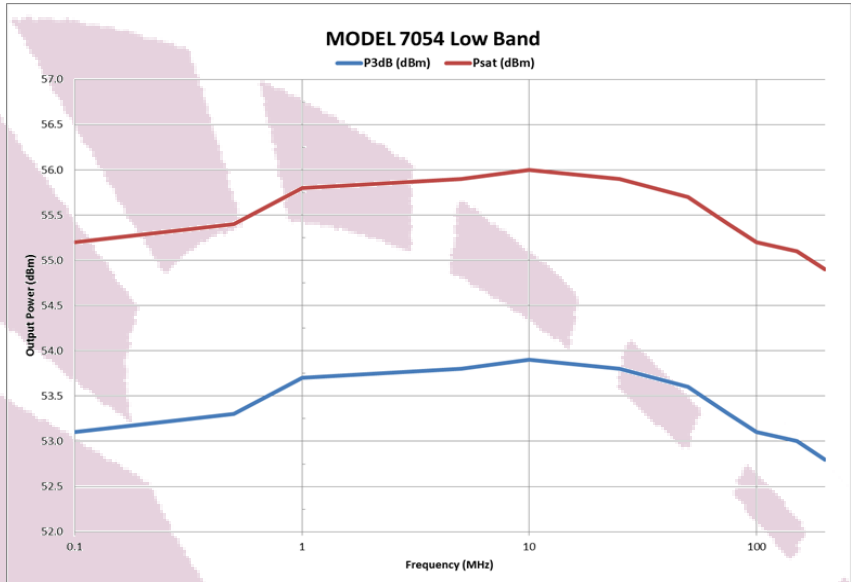
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	<u>Parameter</u>
<u>Front Panel Controller</u>	
26	Forward Power Monitoring
27	Reflected Power Monitoring
28	Gain Control (20-25 dB dynamic range of adjustment)
29	Fault Status
30	Full Protection Of any VSWR Condition, Open or Short, any Phase.
31	Remote Control Access via the Ethernet (LAN), RS-232, or IEEE-488 Communications ports
32	Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
33	Standby/Enable Control
34	Front Panel Display for easy viewing of System Status Locally
35	Keypad buttons for full local control
<u>Circuit Protections</u>	
36	Thermal Overload
37	Over Current
38	Over Voltage
39	Open or Short VSWR Conditions
<u>Circuit Control</u>	
40	Standby (amplifier disable)
41	Gain/power setting with 25dB range
42	VSWR protection Reset
43	ALC On/ Off
<u>Circuit Indications</u>	
44	Forward Power
45	Reflected power
46	VSWR Fault
47	Temp Fault
48	Gain Setting (VVA) percentage
<u>7054 Special Features</u>	
49	This unit is a two channel Amplifier. Either Low Band (0.1-200 MHz) or High band (80-1000 MHz) can be operated.



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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



1118 Approved By: _____ Date: _____