



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 4038

240-272 MHz
1000 WATTS
RF POWER AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 4038 is a very high power broadband amplifier that covers the 240-272 MHz frequency range. This amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, a wide dynamic range, and an industry leading P1dB performance.

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 4038 comes with a 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	240-272 MHz
2	Rated Output Power	1000 Watts Nominal
4	Small Signal Gain	+60 dB Minimum
5	Gain Flatness	± 1.0 dB Maximum
6	IP ₃	+ 70 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc min @ 650 Watts
9	Spurious Signals	< -60 dBc typical @ 650 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3500 Watts Maximum
12	AC Input	180-240 VAC, Single Phase
13	RF Input	0 dBm nominal
14	RF Input Signal Format	Optimized for Multi-Carrier Operation
15	Class of Operation	Class A/AB
<u>Mechanical</u>		
16	Dimensions (H x W x D)	10.5" x 19.0" x 26"
17	Weight	110 Lbs. Nominal
18	RF Connectors	Type-N Female Input/Output
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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



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	<u>Parameter</u>
<u>Front Panel Controller</u>	
25	Forward Power Monitoring (dBm or Watts)
26	Reflected Power Monitoring (dBm or Watts)
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>RF Sample ports</u>	
RF Sample ports:	
48	Forward Power (SMA-F)
49	Reflected power (SMA-F)





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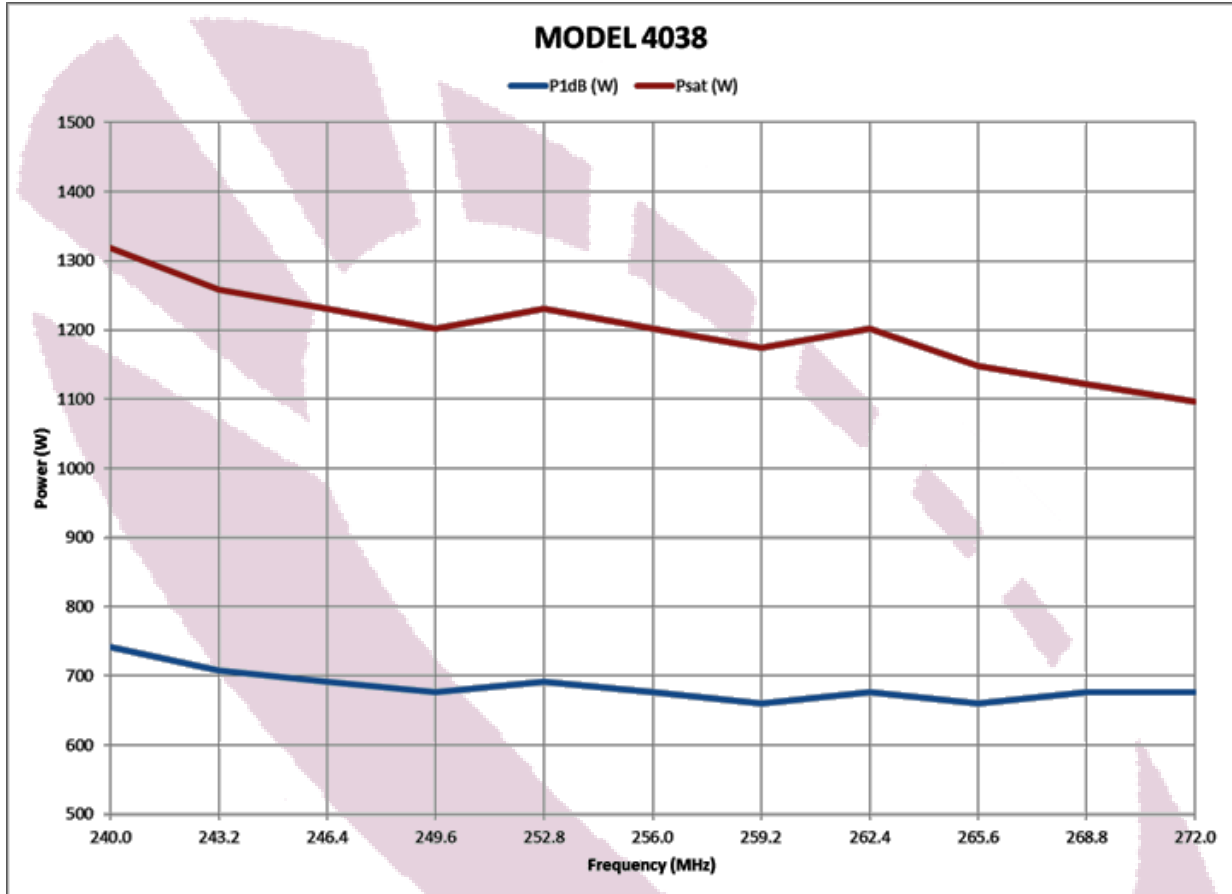
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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