

5300 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

## **MODEL 5398**

2.0-8.0 GHz 20 WATTS LINEAR POWER RF AMPLIFIER

## Solid State Broadband High Power RF Amplifier

The 5398 is a 20 Watt broadband Benchtop Amplifier that covers the 2.0-8.0 GHz frequency range. This small and lightweight amplifier utilizes Class AB linear Gallium Nitride (GaN) devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced gallium nitride (GaN) devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5398 comes backed by Ophir RF's commitment to total customer satisfaction.

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Parameter		Specification @ 25° C			
Electrical		Minimum	Nominal	Maximum	Unit of Measure
1	Frequency Range	2		8	GHz
2	Output Power P <sub>SAT</sub>	15	20		Watts
3	Output Power P <sub>1dB</sub>	1	3		Watts
4	Small Signal Gain		36		dB
5	Small Signal Gain Flatness		<u>+</u> 2.0	<u>+</u> 4.0	dB
6	IP <sub>3</sub>		42		dBm
7	Input VSWR			2:1	Ratio
8	Harmonics @ 15 Watts		-20	-12	dBc
9	Spurious @ 15 Watts			-60	dBc
10	Input/Output Impedance		50		Ohms
11	Power Consumption		200		Watts
12	AC Input	90		240	VAC
13	RF Input for Rated Power		+8	+10	dBm
14	Blanking (Rise/Fall)			10	μSec
15	RF Input Signal Format	CW/AM/FM/PM/Pulse			
16	Class of Operation	A/AB			
<u>lechanical</u>					
17	Dimensions (L x W x H)	7" x 5.6" x 12"			
18	Weight			9.0	Lbs.
19	RF Input Connector	Type N female			
20	RF output Connector	Type N Female			
21	Grounding	Chassis			
22	Cooling	Internal Air forced cooling			
Invironmen	<u>tal</u>	1000			
23	Operating Temperature	0		45	°C
24	Operating Humidity, Non Condensing			95	%
25	Operating Altitude			10,000	Feet above sea Leve
26	MIL-STD 810G Shock and Vibration	Shock Method 514.5 Vibration Method 516.5			

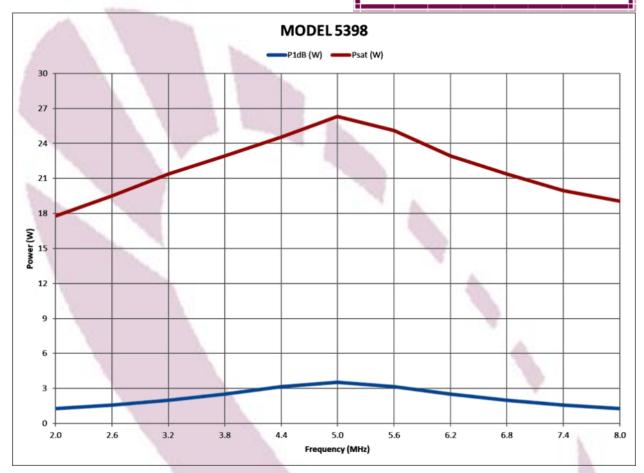
Specifications subject to change without notice.



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