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## MODEL 5305001

1.0-2.0 GHz 30 WATTS LINEAR POWER RF AMPLIFIER

## Solid State Broadband High Power RF Amplifier

The 5305001 is a 25 Watt broadband amplifier that covers the 1.0-2.0 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 5305001 comes backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C			
lectrical		Minimum	Nominal	Maximum	Unit of Measure
1	Frequency Range	1.0		2.0	GHz
2	Output Power P <sub>SAT</sub>	25	30	100	Watts
3	Output Power P <sub>1dB</sub>	10	12	10	Watts
4	Small Signal Gain	45		- A.	dB
5	Gain Flatness			3.0	dB
6	IP <sub>3</sub>		48		dBm
7	Input VSWR	2:1			Ratio
8	Harmonics @ 12 Watts		20		dBc
9	Spurious @ 12 Watts		60		dBc
10	Input/Output Impedance		50		Ohms
11	DC Input Current @ 25W			8	Amps
12	DC Input		26	28	VDC
13	RF Input for Rated Power		0	+3	dBm
14	Blanking (Rise/Fall)		2.5	5	μSec
15	RF Input Signal Format	CW/AM/FM/PM/Pulse			
16	Class of Operation				
echanica	<u>I</u>				
17	Dimensions (L x W x H)	6" x 3" x 1"			
18	Weight		2.0		Lbs.
19	RF Input Connector	SMA female			
20	RF output Connector	SMA Female			
21	Grounding	Chassis			
22	Cooling	Adequate Heatsink Required			
nvironme	ntal	100			auto S
23	Operating Temperature BasePlate	0		50	°C
24	Operating Humidity, Non Condensing			95	%
25	Operating Altitude			10,000	Feet above sea Level
26	MIL-STD 810G Shock and Vibration	Sł	nock Method	d 514.5 Vibrat	ion Method 516.5
			Specific	ations subjec	t to change without notic