

5300 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413

WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5305003

0.8-2.5 GHz 30 WATTS LINEAR POWER RF AMPLIFIER

Specifications subject to change without notice.

Solid State Broadband High Power RF Amplifier

The 5305003 is a 30 Watt broadband amplifier that covers the 0.8-2.5 GHz frequency range. This small and lightweight amplifier utilizes Class AB linear Gallium Nitride (GaN) 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 gallium nitride (GaN) devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5305003 comes backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	Specification @ 25° C			
Electrical		Minimum	Nominal	<u>Maximum</u>	Unit of Measure
1	Frequency Range	0.8		2.5	GHz
2	Output Power P _{SAT}	25	30	100	Watts
3	Output Power P _{1dB}	10	12	100	Watts
4	Small Signal Gain	45		46.	dB
5	Gain Flatness			3.0	dB
6	IP ₃		48		dBm
7	Input VSWR	2:1			Ratio
8	Harmonics @ 10 Watts		20		dBc
9	Spurious @ 10 Watts		60		dBc
10	Input/Output Impedance		50		Ohms
11	DC Input Current @ 25W			8	Amps
12	DC Input		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				
Mechanica	1				
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			
Environme	<u>ntal</u>	10			
23	Operating Temperature BasePlate	0		50	°C
24	Operating Humidity, Non Condensing			95	%
25	Operating Altitude	100		10,000	Feet above sea Level
26	MIL-STD 810G Shock and Vibration	Sh	ock Method	d 514.5 Vibrat	ion Method 516.5



1223	Approved By:	Date: