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MODEL 5305002
0.6-2.0 GHz
30 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5305002 is a 25 Watt broadband amplifier that covers the 0.6-2.0 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 5305002 comes backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C			Unit of Measure
		Minimum	Nominal	Maximum	
Electrical					
1	Frequency Range	0.6		2.0	GHz
2	Output Power P _{SAT}	25	30		Watts
3	Output Power P _{1dB}	8	10		Watts
4	Small Signal Gain	45			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				
Mechanical					
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			
Environmental					
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	Shock Method 514.5 Vibration Method 516.5			

Specifications subject to change without notice.



1223 Approved By: _____ Date: _____