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MODEL 5304003
1.0 - 2.5 GHz
12 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5304003 is a 12 Watt broadband amplifier that covers the 1.0 – 2.5 GHz frequency range. This small and lightweight amplifier utilizes Class A linear power 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 devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5304003 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.0 – 2.5 GHz
2	Saturated Output Power	12 Watts min
3	Small Signal Gain	+42 dB min
4	Gain Flatness	± 1.5 dB max
5	IMP ₃	-65dBc @ 13dBm Output
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 12 Watts
8	Spurious Signals	< -60 dBc typical @ 12 Watts
9	Noise Figure	< 10 dB
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	< 3.0A Max
12	DC Input	24 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
Mechanical		
16	Dimensions	6.8" x 2.7" x 1.0"
17	Weight	2 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Baseplate Temperature	-40° C to +85° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice.

