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## MODEL 5304002

**20 - 1000 MHz  
15 WATTS  
LINEAR POWER RF AMPLIFIER**

### **Solid State Broadband High Power RF Amplifier**

The 5304002 is a 15 Watt broadband amplifier that covers the 20 – 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A linear power 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 devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5304002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	15 Watts min
3	Small Signal Gain	+42 dB min
4	Gain Flatness	± 1.5 dB max
5	IMP <sub>3</sub>	-65dBc @ 13dBm Output
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 15 Watts
8	Spurious Signals	< -60 dBc typical @ 15 Watts
9	Noise Figure	< 10 dB
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	< 3A Max
12	DC Input	24 VDC nominal
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<b>Mechanical</b>		
16	Dimensions	6" x 3" x 1.1"
17	Weight	2 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
21	Operating 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.

