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MODEL 5304005

20 - 520 MHz
60 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304005 is a 60 Watt broadband amplifier that covers the 20 – 520 MHz 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 5304005 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	20 – 520 MHz
2	Saturated Output Power	60 Watts min
3	Small Signal Gain	+46 dB min
4	Gain Flatness	+/- 1.5dB max
5	IMP ₃	-65dBc @ 20dBm Output
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Noise Figure	<10.0 dB
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	11.0A Max
12	DC Input	24 VDC nominal
13	RF Input	0dBm Max
<u>Mechanical</u>		
14	Dimensions	6" x 3.75" x 1.25"
15	Weight	2 lb. max
16	Connectors	SMA female
17	Grounding	Chassis
18	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
19	Baseplate Temperature	-40° C to +85° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice.

