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MODEL 5304030

20 - 520 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304030 is a 50 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 5304030 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20 – 520 MHz
2	Saturated Output Power	50 Watts min
3	Small Signal Gain	+66 dB min
4	Gain Flatness	+/- 1.5dB max
5	IP ₃	+53 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Noise Figure	3.0 dB
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	11.0A Max
12	DC Input	24 VDC nominal
13	RF Input	-20 dBm nominal
Mechanical		
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
Environmental		
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.



**Size of 5304030, 5304031, and 5304032 can be modified to be identical