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MODEL 5304007-004

1.8-6.0 GHz
20 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304007-004 is a 20 Watt broadband amplifier that covers the 1.8 - 6.0 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 5304007-004 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1.8-6.0 GHz
2	Saturated Output Power	20 Watts min
3	Small Signal Gain	+40 dB min
4	Power Gain Flatness	± 2.0 dB max
5	IP ₃	-46dBc typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	5.0 Amps Maximum
12	DC Input	24 VDC nominal
13	RF Input	+3 dBm nominal
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<u>Mechanical</u>		
16	Dimensions	5.0" x 7.0" x 1.1"
17	Weight	2 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Baseplate Temperature	-20° 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 (Method 516.5)

Specifications subject to change without notice

-004 SPECIAL FEATURES

◇ High Temperature Shutdown at +85°C

