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MODEL 5304007-010

2.0 - 6.0 GHz
10 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304007-010 is a 10 Watt broadband amplifier that covers the 2.0 - 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 5304007-010 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	2.0 - 6.0 GHz
2	Saturated Output Power	10 Watts min
3	Small Signal Gain	+40 dB min
4	Power Gain Flatness	± 2.25 dB max
5	IP ₃	+46dBm 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	4.0 Amps Maximum
12	DC Input	28 VDC nominal
13	RF Input	+3 dBm nominal
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<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