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MODEL 5304043-054

5.4 - 6.0 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304043-054 is a 50 Watt broadband amplifier that covers the 5.4 - 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 5304043-054 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	5.4 - 6.0 GHz
2	Saturated Output Power	50 Watts min
3	Small Signal Gain	+50 dB min
4	Gain Flatness	± 0.75 dB max
5	IP ₃	50dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Noise Figure	< 10 dB
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	10 Amps max
12	DC Input	24 VDC nominal
13	RF Input	+13 dBm max 0 dBm nominal for full rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse/OFDM/QAM
15	Class of Operation	A
<u>Mechanical</u>		
16	Dimensions	7" x 5" x 1.1"
17	Weight	2 lb. max
18	Connectors	RF In/Out: SMA female DC in: D-sub 9 Pin
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Baseplate Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 20,000' Above Sea Level
24	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice