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MODEL 5304043-024

2.0 - 4.0 GHz

60 Watts

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304043-024 is a 60 Watt linear amplifier that covers the 2.0 - 4.0 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 5304043-024 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.0 - 4.0 GHz
2	Rated output power	60 W typical
3	Rated power for P-1dB	15 W minimum 20 W typical
4	Small Signal Gain	+49 dB min
5	Gain Flatness	± 2.0 dB max for full bandwidth
6	IP ₃	+55 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Noise Figure	< 12 dB
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	15 Amps max
13	DC Input	28 VDC nominal
14	RF Input	+3 dBm max 0 dBm nominal for full rated power
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
	Class of Operation	A
<u>Mechanical</u>		
16	Dimensions	7" x 5" 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	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

