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**MODEL 5304043**

**2.5 - 6.0 GHz**  
**50 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5304043 is a 50 Watt broadband amplifier that covers the 2.5 - 6.0 GHz frequency range. This small and lightweight amplifier utilizes Class A linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5304043 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25°C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	2.5 - 6.0 GHz
2	Saturated Output Power	50 Watts min
3	Small Signal Gain	+50 dB min
4	Gain Flatness	± 3.0 dB max
5	IP <sub>3</sub>	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
15	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
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
<b><u>Environmental</u></b>		
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

