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**MODEL 5304049**  
**600-6000 MHz**  
**10 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5304049 is a 10 Watt broadband amplifier that covers the 600-6000 MHz frequency range. This small and lightweight amplifier utilizes Class AB 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 5304049 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	600-6000 MHz
2	Rated Output Power	10 Watts Minimum
4	Small Signal Gain	+41 dB min
5	Gain Flatness	± 2.5 dB max
6	IP <sub>3</sub>	+45 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 3 Watts
9	Spurious Signals	< -60 dBc typical @ 3 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	3.0 Amps Maximum
	Efficiency	12% Nominal
12	DC Input	28 VDC Nominal
13	RF Input	0 dBm max
	Blanking (Rise/Fall)	10 µSec Maximum
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b>Mechanical</b>		
16	Dimensions	6" x 3" x 1.1"
17	Weight	1 lb.
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
21	Operating Temperature	-40° C to +85° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 40,000' Above Sea Level
24	Shock and Vibration	MIL-STD 810G (Method 514.6)

Specifications subject to change without notice.



<b>SPECIAL FEATURES</b>	
■	EXTREMELY BROADBAND
■	HIGHLY EFFICIENT DESIGN
■	WIDE OPERATING TEMPERATURE RANGE
■	SMALL, COMPACT FORM FACTOR



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