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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 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 5304049 comes with an extended multiyear warranty.

| | <u>Parameter</u> | <u>Specification @ 25° C</u> |
|-----------------------------|------------------------|-------------------------------|
| <u>Electrical</u> | | |
| 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 ₃ | +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 |
| <u>Mechanical</u> | | |
| 16 | Dimensions | 6" x 3" x 1.1" |
| 17 | Weight | 1 lb. |
| 18 | Connectors | SMA female |
| 19 | Grounding | Chassis |
| 20 | Cooling | Adequate Heatsink Required |
| <u>Environmental</u> | | |
| 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.



| SPECIAL FEATURES | |
|-------------------------|----------------------------------|
| ■ | EXTREMELY BROADBAND |
| ■ | HIGHLY EFFICIENT DESIGN |
| ■ | WIDE OPERATING TEMPERATURE RANGE |
| ■ | SMALL, COMPACT FORM FACTOR |



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