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MODEL 5304026

2500-6000 MHz
40 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304026 is a 40 Watt broadband amplifier that covers the 2500-6000 MHz frequency range. This small and lightweight amplifier utilizes Class A/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 5304026 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2500-6000 MHz
2	Output Power CW (P _{SAT})	40 Watts Min @ 28V
4	Small Signal Gain	+50 dB max
5	Gain Flatness	± 3.0 dB max
6	IP ₃	+50 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-25 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Noise Figure	< 10 dB
11	Input/Output Impedance	50 Ohms nominal
12	DC Current for Rated Output	9.0 Amps at Rated Power
13	DC Input	28 VDC nominal
14	RF Input	+12dBm nominal for full rated power
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<u>Mechanical</u>		
17	Dimensions	2.5" x 6.0" x 1.4"
18	Weight	1.0 lb. max
19	RF Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Baseplate Temperature	-40° C to +85° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 40,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F (Method 516.5)

Specifications subject to change without notice



VSWR Protection

- ◇ Will operate at specified parameters in up to a 3:1 Load
- ◇ Will survive open or short at any phase or angle.

DC Blanking

- ◇ Rise/Fall Time < 2uSec

Output Power at 85°C

- ◇ 30 Watts Minimum

Output Power at -40°C

- ◇ 40 Watts Minimum