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MODEL 5304024

**80-1000 MHz
160 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5304024 is a 160 Watt broadband amplifier that covers the 80-1000 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 5304024 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	80-1000 MHz
2	Output Power CW (P_{SAT})	160 Watts Min
3	Output Power CW (P_{1dB})	100 Watts Min
4	Small Signal Gain	+51 dB min
5	Gain Flatness	± 4.0 dB max
6	IP_3	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Noise Figure	< 10 dB
11	Input/Output Impedance	50 Ohms nominal
12	DC Input	28 VDC nominal
13	RF Input	+0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	4.0" x 11.0" x 1.5"
17	Weight	4.0 lb. max
18	Connectors DC & Control Connector	(RF Input) SMA female (RF Output) TNC female ITT, Cannon Series II # MS27499E12B35P
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Baseplate 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-810F (Method 516.5)

Specifications subject to change without notice



DC Blanking

◇ Rise/Fall Time < 10uSec

RFPA OPTIONS

◇ HeatSink and Fans

◇ Various Connector Options (*Please Specify at Time of Order*)