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MODEL 5910286

2.3 – 2.5 GHz

40 WATTS

LINEAR POWER RF AMPLIFIER

Solid State High Power RF Amplifier

This is a 40 Watt amplifier that covers the 2.3 – 2.5 GHz 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, this amplifier comes with a standard one

	Parameter	Specification @ +28VDC, T = 25° C
<u>Electrical</u>		
1	Frequency Range	2.3 – 2.5 GHz
2	Saturated Output Power	40 Watts typical
3	Power Output @ 1dB Comp.	30 Watts typical
4	Small Signal Gain	+11 dB min
5	Gain Flatness	± 0.5 dB max
6	IP ₃	+55 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 40 Watts
9	Spurious Signals	> -60 dBc typical @ 40 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current @ 28VDC	6 Amps max
12	DC Input	+20 to +36 VDC nominal
13	RF Input	+40 dBm max
14	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	10.0" x 6.1" x 3.0"
16	Weight	5 lb. max
17	Connectors	SMA female
18	Grounding	Chassis
19	Cooling	Adequate Cooling Required
<u>Environmental</u>		
20	Baseplate Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

INCLUDED FEATURES

- ◇ Heatsink with fans
- ◇ Output Coupler: -20 dB ± 1 dB, forward and reverse