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MODEL 5802019-002

2.4 - 2.5 GHz

50 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5802019-002 is a 50 Watt band-specific amplifier that covers the 2.4 – 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, the 5802019-002 comes with an extended warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.4 – 2.5 GHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	40 Watts min
4	Small Signal Gain	+48 dB min
5	Gain Flatness	± 0.75 dB max
6	IP ₃	+56 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	11 Amps max
12	DC Input	12 VDC
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions (with Heatsink & Fan)	8.7" x 5.2" x 3.5"
17	Weight (with Heatsink & Fan)	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Needs 2" Clearing From Fan
<u>Environmental</u>		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

FEATURES

◇ Heatsink and Fan