



5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)577-9887
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5902030-800

1.8 - 2.0 GHz

30 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5902030-800 is a 30 Watt amplifier that covers the 1.8 – 2.0 GHz frequency range. This small and light-weight 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 5902030-800 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.8 – 2.0 GHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	25 Watts min
4	Small Signal Gain	+45 dB min
5	Gain Flatness	± 1.0 dB max
6	IP ₃	+53 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 25 Watts
9	Spurious Signals	> -60 dBc typical @ 25 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	8 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	7.5" x 5.3" x 3.5"
17	Weight	3 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
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

- ◇ Forward Labeled Feed-thru (Not Active)
- ◇ Temperature Monitor of Output Device