



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 5802079
800 - 1000 MHz
60 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Band-specific High
 Power RF Amplifier**

The 5802079 is a 60 Watt band-specific amplifier that covers the 800 – 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 5802079 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	800 – 1000 MHz
2	Saturated Output Power	60 Watts Min
3	Power Output @ 1dB Comp.	50 Watts min
4	Small Signal Gain	+48 dB min
5	Gain Flatness	± 1.25 dB max
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 50 Watts
9	Spurious Signals	< -60 dBc typical @ 50 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	12 Amps max
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
Mechanical		
16	Dimensions	8.7" x 5.2" x 3.5"
17	Weight	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Airflow Required
Environmental		
21	Baseplate 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.



Output Protection:

Can operate into a full Open or Short, without damage, due to the use of an Internal Circulator and Load.

FEATURES:

Heatsink and Fans Included (Not Shown)