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## MODEL 5802075-800

**800 - 1000 MHz**  
**30 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 5802075-800 is a 30 Watt amplifier that covers the 800 – 1000 MHz frequency range. This small and light-weight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

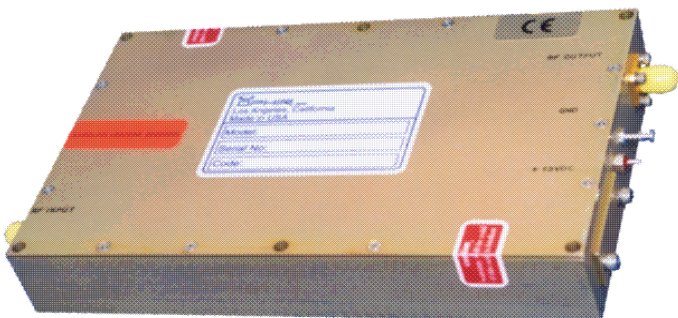
Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5802075-800 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	800 – 1000 MHz
2	Output Protection	Open and Short
3	Saturated Output Power	30 Watts typical
4	Power Output @ 1dB Comp.	25 Watts min
5	Small Signal Gain	+47 dB min
6	Gain Flatness	± 1.5 dB max
7	IP <sub>3</sub>	+56 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 25 Watts
10	Spurious Signals	< -60 dBc typical @ 25 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	8.6 Amps max
13	DC Input	13 VDC nominal
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<b>Mechanical</b>		
17	Dimensions	8.7" x 5.2" x 3.5"
18	Weight	6 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Airflow Required
<b>Environmental</b>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

### FEATURES:

Heatsink and Fans Included (Not Shown)



#### Shutdown:

+5V (Disable)  
Open (Enable)

#### Monitors:

Temp Sensor (Voltage out)  
FWD Power (Voltage out)

#### Output Protection:

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