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MODEL 5802075-002

840 - 940 MHz
40 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5802075-002 is a 40 Watt band-specific amplifier that covers the 840 – 940 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 5802075-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	800 – 1000 MHz
2	Instantaneous Bandwidth	100 MHz
3	Saturated Output Power	40 Watts typical
4	Power Output @ 1dB Comp.	30 Watts min
5	Small Signal Gain	+47 dB min
6	Gain Flatness	± 0.75 dB max
7	IP ₃	+55 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 30 Watts
10	Spurious Signals	< -60 dBc typical @ 30 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	9 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
Mechanical		
	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.

Shutdown:

+5V (Disable)
Open (Enable)

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)