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MODEL 5802064-003

800 - 900 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5802064-003 is a 100 Watt band-specific amplifier that covers the 800 – 900 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 5802064-003 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	800 – 900 MHz
2	Saturated Output Power	100 Watts typical
3	Power Output @ 1dB Comp.	60 Watts min
4	Small Signal Gain	+50 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 60 Watts
9	Spurious Signals	< -60 dBc typical @ 60 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	14 Amps max
12	DC Input	28 VDC nominal
13	RF Input	0 dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
17	Dimensions (w/Heatsink)	8.7" x 5.2" x 3.5"
18	Weight (w/Heatsink)	5 Lbs.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Airflow Required
Environmental		
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.



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)