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MODEL 5802064-002

869 - 960 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5802064-002 is a 100 Watt band-specific amplifier that covers the 869 – 960 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 5802064-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	869 – 960 MHz
2	Saturated Output Power	100 Watts typical
3	Power Output @ 1dB Comp.	60 Watts min
4	Power Output CDMA	20 Watts typical
5	Small Signal Gain	+50 dB min
6	Gain Flatness	± 1.0 dB max
7	IP ₃	+54 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 60 Watts
10	Spurious Signals	< -60 dBc typical @ 60 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	12 Amps max
13	DC Input	28 VDC nominal
14	RF Input	0 dBm
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
Mechanical		
17	Dimensions (w/Heatsink)	8.7" x 5.2" x 3.5"
18	Weight (w/Heatsink)	5 lb. max
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.

FEATURES:

Heatsink and Fans Included (Not Shown)

INCLUDED FEATURES

- ◇ Forward Power Monitor: 0 to 3 VDC analog range
- ◇ Reverse Power Monitor: 0 to 3 VDC analog range
- ◇ RF Enable / Disable: (3 VDC RF Enabled, ~0 VDC RF Disabled)
- ◇ RF (SMA) Connectors are on two sides (the ends) of the module

