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MODEL 5802022-004

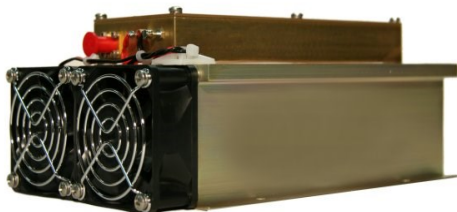
**865 - 960 MHz
12 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Band-specific High Power RF Amplifier

The 5802022-004 is a 12 Watt band-specific amplifier that covers the 865-960 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 5802022-004 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	865 – 960 MHz
2	Instantaneous Bandwidth	60 MHz min*
3	Saturated Output Power	12 Watts typical
4	Power Output @ 1dB Comp.	10 Watts min
5	Small Signal Gain	+45 dB min
6	Gain Flatness	± 1.0 dB max
7	IP ₃	+50 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 10 Watts
10	Spurious Signals	> -60 dBc typical @ 10 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	5.0 Amps max
13	DC Input	13 VDC nominal
14	RF Input	-5 dBm
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
Mechanical		
17	Dimensions (With Heatsink and Fans)	8.5" x 3.5" x 5.2"
18	Weight (With Heatsink and Fans)	8 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Baseplate 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



05/08

Approved By: _____ Date: _____