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## MODEL 5802022-010

**869-960MHz  
10 WATTS  
LINEAR POWER RF AMPLIFIER**

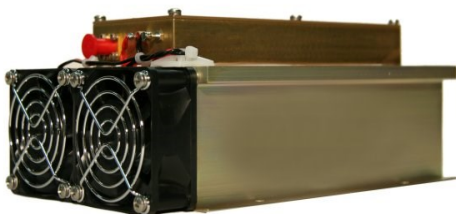
### Solid State Band-specific High Power RF Amplifier

The 5802022-010 is a 10 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 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 5802022-010 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	869 – 960 MHz
2	Saturated Output Power	10 Watts Minimum
3	Power Output @ 1dB Comp.	8 Watts Minimum
4	Small Signal Gain	+42 dB min
5	Gain Flatness	± 1.0 dB max
6	IP <sub>3</sub>	+48 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	< -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	5 Amps max
12	DC Input	13 VDC nominal
13	RF Input	0 dBm nominal
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b><u>Mechanical</u></b>		
16	Dimensions	6.6" x 2.5" x 2.9"
17	Weight (With Heatsink and Fans)	2 Lbs.
18	Connectors	RF: SMA female DC: D-sub 9 Pin/Feed-thru
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
21	Baseplate Temperature	-10° C to +60° 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.



### CIRCUIT PROTECTIONS SPECIAL FEATURES

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Reverse Polarity Protection
- ◇ High VSWR
- ◇ Shutdown Circuitry TTL or Open Collector <Customer Please Specify>
- ◇ Internal Isolator for Full VSWR Protection
- ◇ Expanded Temperature Range

### OPTIONS

- ◇ Heatsink and Fans Available