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MODEL 5302022
800 - 1000 MHz
12 WATTS
LINEAR POWER RF AMPLIFIER

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

The 5302022 is a 12 Watt band-specific amplifier that covers the 800 – 1000 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 5302022 comes with an extended

| | <u>Parameter</u> | <u>Specification @ 25° C</u> |
|-----------------------------|--------------------------|-------------------------------|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 800 – 1000 MHz |
| 2 | Instantaneous Bandwidth | 60 MHz min |
| 3 | Saturated Output Power | 12 Watts rated |
| 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 | 3.5 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 |
| <u>Mechanical</u> | | |
| 17 | Dimensions | 5.2" x 2.5" x 0.8" |
| 18 | Weight | 1 lb. max |
| 19 | Connectors | SMA female |
| 20 | Grounding | Chassis |
| 21 | Cooling | Adequate Heatsink Required |
| <u>Environmental</u> | | |
| 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 |

Specifications subject to change without notice.



Approved By: _____ Date: _____