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MODEL 5902024-003

1.2 - 1.6 GHz
10 WATTS

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

The 5902024-003 is a 10 Watt band-specific amplifier that covers the 1.2 – 1.6 GHz 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 5902024-003 comes with an extended

| | Parameter | Specification @ 25° C |
|----------------------|--------------------------|-------------------------------|
| Electrical | | |
| 1 | Frequency Range | 1.2 – 1.6 GHz |
| 2 | Saturated Output Power | 10 Watts typical |
| 3 | Power Output @ 1dB Comp. | 8 Watts min |
| 4 | Small Signal Gain | +12 dB min |
| 5 | Gain Flatness | ± 1.0 dB max |
| 6 | IP ₃ | +49 dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -20 dBc typical @ 8 Watts |
| 9 | Spurious Signals | > -60 dBc typical @ 8 Watts |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | DC Input Current | 3 Amps max |
| 12 | DC Input | 13 VDC nominal |
| 13 | RF Input | +30 dBm max |
| 14 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 15 | Class of Operation | A/AB |
| Mechanical | | |
| 16 | Dimensions | 7.3" x 5.2" x 3.4" |
| 17 | Weight | 4 lb. max |
| 18 | Connectors | SMA female |
| 19 | Grounding | Chassis |
| 20 | Cooling | Adequate Heatsink Required |
| Environmental | | |
| 21 | Operating Temperature | 0° C to +50° 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.



FEATURES:
 Heatsink Included (Not Shown)