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MODEL 5303027-030

30 - 60 MHz
20 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303027-030 is a 20 Watt broadband amplifier that covers the 30 – 60 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 5303027-030 comes with an extended multiyear warranty.

| | Parameter | Specification @ 25° C |
|----------------------|--------------------------|---|
| Electrical | | |
| 1 | Frequency Range | 20 – 500 MHz |
| 2 | Saturated Output Power | 20 Watts typical |
| 3 | Power Output @ 1dB Comp. | 10 Watts min |
| 4 | Small Signal Gain | +43 dB min |
| 5 | Gain Flatness | ± 1.5 dB max |
| 6 | IP ₃ | +46 dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -TBD dBc typical @ 10 Watts (-25dBc Goal) |
| 9 | Spurious Signals | > -60 dBc typical @ 10 Watts |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | DC Input Current | 3 Amps max |
| 12 | DC Input | 28 VDC nominal |
| 13 | RF Input | 0 dBm |
| 14 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 15 | Class of Operation | Transistors biased to Class: A |
| Mechanical | | |
| 16 | Dimensions | 6" x 3" x 1.1" |
| 17 | Weight | 2 lb. max |
| 18 | Connectors | SMA female |
| 19 | Grounding | Chassis |
| 20 | Cooling | Adequate Heatsink Required |
| Environmental | | |
| 21 | Baseplate 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.



Approved By: _____ Date: _____