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# MODEL 5303032-128

**118-138 MHz**
**10 WATTS**
**LINEAR POWER RF AMPLIFIER**

## Solid State Broadband High Power RF Amplifier

The 5303032-128 is a 10 Watt narrowband amplifier that covers 128 MHz, + or— 10 MHz. 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 5303032-128 comes with an extended multiyear warranty.

| | Parameter | Specification @ 25° C |
|---|---|---|
| **Electrical** | | |
| 1 | Frequency Range | 128 MHz (+/- 10 MHz) |
| 2 | Saturated Output Power | 10 Watts Minimum |
| 3 | Power Output @ 1dB Comp. | 6 Watts min |
| 4 | Small Signal Gain | +40 dB min |
| 5 | Gain Flatness | ± 0.5 dB max |
| 6 | $IP_3$ | +47 dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -20 dBc Minimum |
| 9 | Spurious Signals | < -60 dBc Minimum |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | DC Input Current | 2 Amps max |
| 12 | DC Input | 28 VDC nominal |
| 13 | RF Input | 0 dBm max |
| 14 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 15 | Class of Operation | AB |
| **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.

09/09 Approved By: _____ Date: _____