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MODEL 5303130
1.0 - 6.0 GHz
0.5 WATTS
LINEAR POWER RF AMPLIFIER

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

The 5303130 is a 0.5 Watt broadband amplifier that covers the 1.0 - 6.0 GHz frequency range. This small and lightweight amplifier utilizes Class A 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.

The 5303130 is designed as a wide-band driver for various applications.

| | Parameter | Specification @ 25 °C |
|----------------------|--------------------------|-------------------------------|
| Electrical | | |
| 1 | Frequency Range | 1.0 – 6.0 GHz |
| 2 | Saturated Output Power | 0.5 Watts typical |
| 3 | Small Signal Gain | +26 dB min |
| 4 | Gain Flatness | ± 2.5 dB max |
| 5 | Power Flatness | ± 1.5 dB max |
| 6 | IP ₃ | +35 dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -20 dBc typical @ 0.5 Watts |
| 9 | Spurious Signals | < -60 dBc typical @ 0.5 Watts |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | Noise Figure | 8 dB nominal |
| 12 | DC Input Current | 1.5 Amps max |
| 13 | DC Input | 20 - 36 Vdc |
| 14 | RF Input for rated power | 0 dBm nominal |
| 15 | Maximum RF input | +3 dBm max |
| 16 | Class of Operation | A |
| Mechanical | | |
| 17 | Dimensions | 3.4" x 2.2" x 0.7" |
| 18 | Weight | 3.5 lb. max |
| 19 | Connectors | SMA Female |
| 20 | Grounding | Chassis |
| 21 | Cooling | Heatsink and adequate airflow |
| Environmental | | |
| 22 | Operating 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 transportation |

Specifications subject to change without notice

