

GENERAL DESCRIPTION

The 1311A Power Amplifier is a class C, four stage pulsed Power Amplifier, covering the frequency range 1.2 - 1.4 GHz. The amplifier delivers a nominal peak power of 100W for 1 ms pulse length and up to 20% duty cycle. It is especially designed for Radar applications.



KEY FEATURES

- Stable Power Output
- Low Droop at 1 ms long pulse
- Broadband

APPLICATIONS

- RF High Power Pulsed Sources
- Radar Systems
- EW Systems
- Built in Testers

GENERAL SPECIFICATIONS

Electrical

| | |
|--------------------|--|
| Frequency Range | 1.2 - 1.4 GHz |
| Input Power | 26.5 dBm \pm 2 dB |
| RF Output Power | 48 dBm min |
| Flatness | 1.5 dB |
| Pulse Droop | 0.4 dB |
| Output Impedance | 50 Ohm |
| Input VSWR | 1.7 1 mMax |
| Harmonics | - 40 dBc |
| Sampled RF Output | 0 dBm \pm 2 dB |
| Power Output Range | 6 dB/0.5 dB resolution step |
| Power Requirements | + 28 VDC/ 5 Amp, peak current, during pulse 5 VDC/ 0.7 Amp, Max |

Mechanical

| | |
|------------|--|
| Dimensions | 234 X 182 X 62 (mm), including heat sink |
| Weight | 2 Kg |

Environmental

| | |
|-------------------------|-----------------------------|
| Ambient Operating Temp. | -10° -40° C |
| Base Plate Temp. | 45° C |
| Non Operating Temp. | -40° - 80° C |
| Humidity | 95% No Condensation |
| Altitude | 10,000 ft |
| Shock and Vibration | Designed for transportation |
| MTBF | 100,000 hours |

Note: Specifications are subject to change without notice.



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