

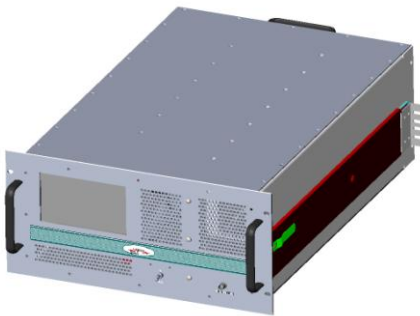


PTWPA-3.1G3.5G-2500

2500W Pulse TWT Amplifier

Traveler Wave Tube (TWT) Power RF Amplifier

The PTWPA-3.1G3.5G-2500 is a TWT 2500W (Pulse) RF Amplifier which covers frequency range from 3.1GHz to 3.5GHz. This amplifier can achieve high efficiency operation with proven reliability as is designed with the robust engineering and employment of the most advanced devices and components. The amplifier comes with 1 year warranty including the TWT.



| Parameter | Specification |
|----------------------------|--|
| Electrical | |
| Frequency Range | 3.1-3.5GHz |
| Output Power | 2500W Peak min |
| RF Input Power | 0dBm for Saturated Power Out |
| Gain @ rated power | 64dB |
| Input /Output Impedance | 50 ohms(VSWR 2.0:1) |
| Load VSWR | 1.5:1 max |
| Harmonics | -6dBc |
| Spurious | -50dBc max. |
| Pulse Input | TTL. High=Beam-ON, Low=Beam-OFF BNC Female on Front Panel |
| Pulse Width | 200nSec-100uSec |
| Rise/Fall time | 20nSec |
| Pulse Delay | 120nSec |
| PRF | 0-100KHz |
| Duty Cycle | 0-12% |
| Pulse to Pulse jitter | ±10nsec max. |
| Pulse to Pulse | ±0.3dB max. |
| Stability | |
| Pulse Droop | 0.2dB @ 10uSec pulse max. 0.5dB @ 100uSec pulse max. |
| RF Input/Sample Connectors | Type N Female On Rear Panel |
| RF Output Connector | Type 7/16 Female On Rear Panel |
| Noise Power density | -20dBm/MHz, max. |
| Prime Power | 220VAC +/-10%, 50/60 Hz, Single Phase, 4 wires on the Rear Panel |
| Consumptions | 3.0KVA max. |

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



| Parameter | Specification |
|-----------------------------|---|
| <u>Mechanical</u> | |
| Configuration | Racks mounts 19"W x 26.13"D x 10.5"H |
| Weight | 120 Lbs |
| Cooling System | Air cooled ,self contained |
| Shock | MIL-STD-810F, method 516.2 |
| Vibration | MIL-STD-810F, method 514.2 |
| <u>Environmental</u> | |
| Temperature | 0° to 45° C |
| Non-operating Temp | 0° to 60°C |
| Humidity | 95% without condensation |
| Altitude | 10,000 feet |

Features [Build-in]

- High Voltage power supplies Over/Under Voltage & Over Currents Protection
- RS 232 & Ethernet Remote Control.
- RF Input / Output Connectors on the Rear Panel.
- Standby/RF_ON, Elapsed Time Metering in hours.
- Filament/Beam Elapsed Time Metering in hours.
- Color TFT Touch screen Display with Front Panel Controls and Indicators.

OPTIONS

- 001 VSWR Protection against output mismatch
- 002 Alternate Prime Power (specify at time of order).
- 003 USB Remote Control
- 004 Forward RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel.
- 005 Reflected RF Sample Port Type N Female -50dBc nominal on the Rear Panel [standard] or Front panel.
- 006 RF Input/Output Connectors on the Rear Panel [Standard], (Specify front or rear at time of order).
- 007 Internal Systems Diagnostics.
- 008 Heater/Beam Elapsed Time Metering in hours.
- 009 RF Safety Interlock, type BNC Connector.
- 010 Slides for Rack mount.

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