

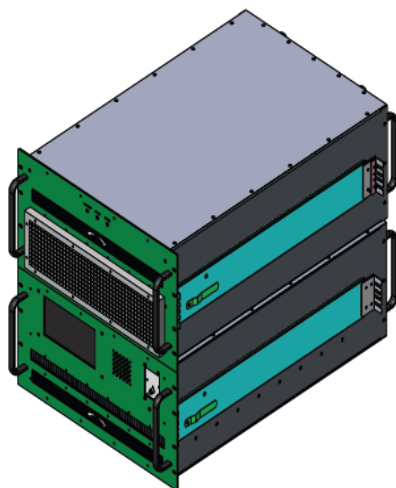


# PTWA-2.5G7.5G-1000

## 1000W CW TWT Amplifier

### Traveler Wave Tube (TWT) Power RF Amplifier

The PTWA-2.5G7.5G-1000 is a TWT 1000W (CW) Commercial split drawer RF Amplifier which covers frequency range from 2.5GHz to 7.5GHz. 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 TWTs.



ISOMETRIC VIEW

| Parameter                      | Specification                                                      |
|--------------------------------|--------------------------------------------------------------------|
| <b>Electrical</b>              |                                                                    |
| Frequency Range                | 2.5-7.5GHz                                                         |
| Output Power                   | 1000W CW Typical                                                   |
| Internal Pre-Amp.              | Input level: 0dBm or less                                          |
| Gain @ rated power             | 60dB                                                               |
| Input / Output Impedance       | 50 ohms(VSWR 2.0:1)                                                |
| RF Input / Output Connectors   | RF Input Type N Female /<br>RF Output 7/16 Female; Rear Panel      |
| Modulation                     | AM / FM / Pulse                                                    |
| Noise Figure                   | ≤ 35dB                                                             |
| Spurious                       | -50dBc                                                             |
| Harmonics (nom.) @ Rated Power | 2.5-3GHz: 0 to -4dBc;<br>3-6GHz: -4to-8dBc<br>6-8GHz: -8 to -15dBc |
| Prime Power                    | 220V AC +/-10%, 50/60 Hz, Three Phase                              |
| <b>Mechanical</b>              |                                                                    |
| Configuration                  | Racks mounts<br>19"W x 26.13"D x 14"H [x2]                         |
| Cooling System                 | Air cooled ,self contained                                         |
| Shock                          | MIL-STD-810C, method 516.2                                         |
| Vibration                      | MIL-STD-810C, method 514.2                                         |
| <b>Environmental</b>           |                                                                    |
| Temperature                    | 0° to 45° C                                                        |
| Non-operating Temp             | 0° to 60°C                                                         |
| Humidity                       | 95% without condensation                                           |
| Altitude                       | 10,000 feet                                                        |

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## **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.
- 7" 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 | Filament/Beam Elapsed Time Metering in hours.                                                      |
| 009 | RF Safety Interlock, type BNC Connector.                                                           |
| 010 | Forward/Reflected Power Indication simultaneously on Front Panel display.                          |

Distributed by

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