



# PTWA-2.5G7.5G-500

## 500W CW TWT Amplifier

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

The PTWA-2.5G7.5G-500 is a TWT 500W (CW) 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 TWT.

Parameter	Specification
<b><u>Electrical</u></b>	
Frequency Range	2.5-7.5GHz
Output Power	500W CW, Typical
Internal Pre-Amp.	Input level: 0dBm or less
Gain @ rated power	57dB
Input / Output Impedance	50 ohms(VSWR 2.0:1)
RF Input / Output Connectors	RF Input Type N Female / 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; 3-6GHz: -4to-8dBc 6-8GHz: -8 to -15dBc
Prime Power	220V AC +/-10%, 50/60 Hz, single or Three Phase
<b><u>Mechanical</u></b>	
Configuration	Racks mounts 19"W x 26.13"D x 10.5"H
Cooling System	Air cooled ,self contained
Shock	MIL-STD-810C, method 516.2
Vibration	MIL-STD-810C, method 514.2
<b><u>Environmental</u></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.
- 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	RF Safety Interlock, type BNC Connector.
009	Forward/Reflected Power Indication simultaneously on Front Panel display.
010	Slides for Rack mount.

Distributed by

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