



PTWA-8G18G-20

20W CW TWT Amplifier

Traveler Wave Tube (TWT) Power RF Amplifier

The PTWA-8G18G-20 is a TWT 20W (CW) RF Amplifier which covers frequency range from 8GHz to 18GHz. 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	8-18GHz
Output Power	20W CW min. 40W CW Typical
Gain @ rated power	43dB min.
Input / Output Impedance	50 ohms(VSWR 2.0:1)
RF Input / Output Connectors	RF Input Type N Female / RF Output Type N Female
Modulation	AM / FM / Pulse
Spurious	-50dBc
Harmonics (nom.) @Rated Power	8-12GHz:-1 to-6dBc; 12-18GHz:-6 to-15dBc
Prime Power	120Vac or 220V AC +/-10%, 50/60 Hz, single Phase
Mechanical	
Configuration	Rack Mount 8.75"Hx19"Wx26.13"D
Cooling System	Air cooled ,self contained
Shock	MIL-STD-810C, method 516.2
Vibration	MIL-STD-810C, method 514.2
Environmental	
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.
- RF Sample port 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

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| 001 | VSWR Protection against output mismatch. |
| 002 | Alternate Prime Power (specify at time of order). |
| 003 | USB Remote Control. |
| 004 | Gain Control. |
| 005 | Reflected RF Sample Port Type N Female -40dBc 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. |

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