



PTWA-7.5G18G-300

300W CW TWT Amplifier

Traveler Wave Tube (TWT) Power RF Amplifier

The PTWA-7.5G18G-300 is a TWT 300W (CW) Ruggedized RF Amplifier which covers frequency range from 7.5GHz 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 2 years warranty including the TWT.

Parameter	Specification
Electrical	
Frequency Range	7.5-18GHz
Output Power	300W CW min.
Internal Protection	Up to 0dBm for no damage
Gain @ rated power	55dB
Gain Adjustment	0 to 30dB
Input /Output Impedance	50 ohms(VSWR 2.0:1)
Noise Figure	≤ 35dB
RF Input / Output Connectors	RF Input Type N Female / RF Output WRD750
Modulation	AM / FM / Pulse
Spurious	-50dBc
Harmonics (nom.) @Rated Power	7.5-12GHz: -5 to -10dBc; 12-18GHz: -10 to -20dBc
Prime Power	220V AC +/-10%, 50/60 Hz, Three Phase 5 wires
Mechanical	
Configuration	Racks mounts 19"W x 25"D x 8.75"H
Cooling System	Air cooled ,self contained
Shock MIL Standards	MIL-STD-810C, method 516.2, Procedure I ,15G. 11 ms 1/2 sine
Vibration MIL Standards	MIL-STD-810C, method 514.2, procedure VIII, curves V, 1 hr/axis
MIL-STD Test Certificate	Included with shipment in the operation/maintenance manual

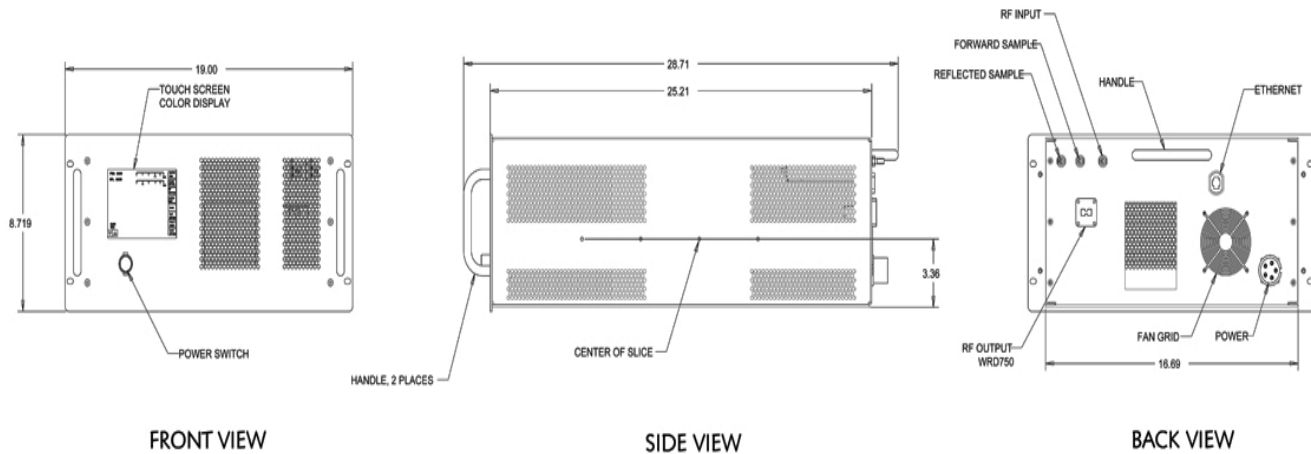
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Temperature	0° to 45° C
Non-operating Temp	0° to 60°C
Humidity	95% without condensation
Altitude	15,000 feet

OPTIONS

- 001 VSWR Protection against any output mismatch; will operate without damage or oscillation against any magnitude and phase of source and load impedance.
- 002 Alternate Prime Power (specify at time of order).
- 003 Ethernet Remote Control.
- 004 Forward RF Sample Port Type N Female -60dBc nominal on the Front or Rear Panel.
- 005 Reflected RF Sample Port Type N Female -60dBc nominal on the Front or Rear Panel.
- 006 RF Input / Output Connectors on the Front Panel (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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