



MODEL NUMBER:  
**TWT8G-200**  
**200W CW TWT AMPLIFIER**

## TRAVELER WAVE TUBE (TWT) POWER RF AMPLIFIER

The TWT8G-200 is a TWT 200W (CW) Commercial RF Amplifier which covers frequency range from 2GHz to 8GHz. 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.

### MECHANICAL

PARAMETER	SPECIFICATION
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

PARAMETER	SPECIFICATION
Temperature	0° to 45° C
Non-operating. Temp	0° to 60°C
Humidity	95% without condensation
Altitude	10,000 feet

### ELECTRICAL

PARAMETER	SPECIFICATION
Frequency Range	2-8GHz
Output Power	200W CW Typical
Internal Pre-Amp.	Input level: 0dBm or less
Gain @ rated power	53dB
Gain Adjustment	0 to 30dB
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	2-3GHz: 0 to-4dBc; 3-6GHz: -4to-8dBc 6-8GHz: -8 to -15dBc
Prime Power	220V AC +/-10%, 50/60 Hz, single or Three Phase

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

