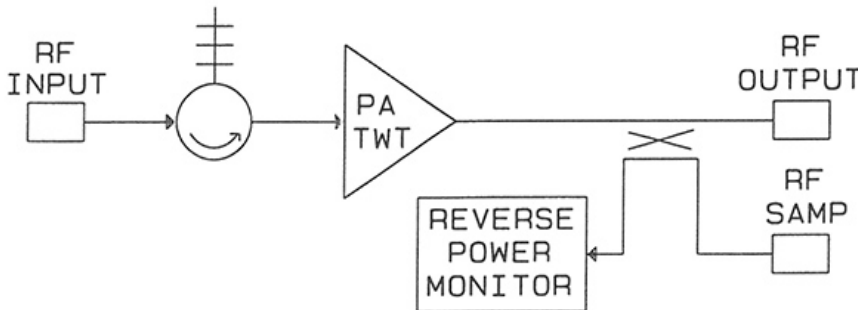


Model 267 Pulse/CW TWT Amplifier



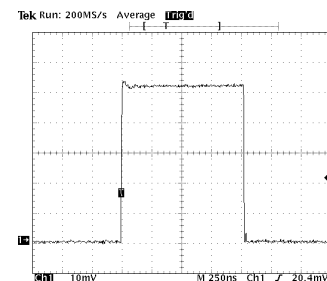
FEATURES:

- Frequency 18-26.5 or 26.5-40 GHz
- Low Spurious Outputs
- Phase and Amplitude Stability
- RF Output Fidelity
- Complete TWT Protection
 - PRF Limit
 - Helix Overcurrent
 - Cathode Over/Undervoltage
 - Filament Low Voltage
 - Overtemperature
 - Input Energy Limit
 - Reverse Power Monitor
- Custom Requirements
- Solid State Except for the TWT
- Front Panel Voltage Adjustments
- Front Panel Fault Isolation
- Modular Construction
- DC TWT Filaments
- Four Line Display
 - Operating Mode
 - Cathode Voltage
 - Helix Current
 - Filament and Operate Time
- Front Panel Controls
 - Power On / Off
 - Operate
 - Standby
 - Fault Reset
 - Local / Remote
 - Pulse / CW



The Model 267 is a dual mode Pulse/CW TWT Amplifier which has been designed to operate TWT's up to 80 watts in the 18 to 26.5 and 26.5 to 40 GHz frequency ranges. The RF output pulse is generated by the focus electrode (grid) pulse. CW operation may be selected by a discrete signal or by the application of +5VDC on the pulse input terminal. RF output pulse is controlled by the input video pulse.

The High Voltage Power Supplies are modular DC-DC converter designs. The Power supply design provides superior stability for optimum TWT phase noise and spurious performance.



Detected RF Output

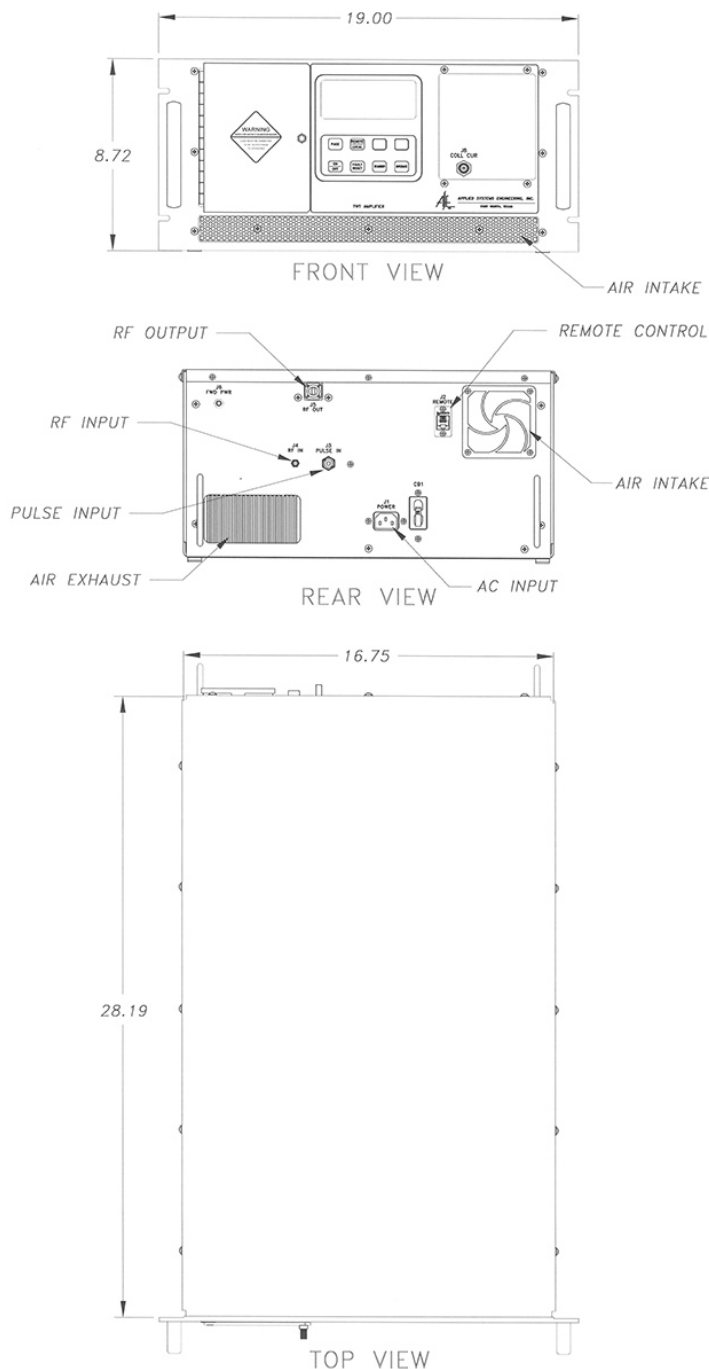


APPLIED SYSTEMS ENGINEERING, INC.

FORT WORTH, TEXAS

Model 267 TWT Amplifier SPECIFICATIONS

Duty Cycle	Up to 50% Pulse or CW
Pulse Width Range	50 ns to CW
PRF Range	100 kHz
RF Rise / Fall Time	15 ns, Maximum
RF Pulse Droop	< 0.1 dB, Maximum
Delay, Input to RF	200 ns, Maximum
Phase Noise	< $\pm 1^\circ$ pk to pk
Amplitude Variation	0.1 dB, Maximum
Spurious Outputs	-50 dBc, Maximum
Input Pulse	5 Volts into 50 ohms
Noise Figure	35 dB, Nominal
RF Connectors	Waveguide
Primary Power	120/220/240 VAC $\pm 10\%$, 50/60 Hz
Operating Temperature	-20° to +50°C
Weight	100 lbs, Nominal
Dimensions	8.75x19x28.5 (in.)



Standard Equipment

- Filament / Operate Time
- Remote Power On/Off
- Ethernet Remote Control (TCP/IP or UDP/IP)
- RF Input Isolator
- RF Input - K, RF Output - WR-28
- Forward RF Sample Port
- Reverse Power Monitor
- Switchable Pulse or CW Mode of Operation

Options

- Driver Amplifier
- Reverse RF Sample Port
- Forward/Reverse Power Meter
- RS-232/422 or IEEE-488 Remote Control
- Other Primary Power
- Outdoor Enclosure
- RF Connectors on Front Panel
- Conformal Coated PC Boards