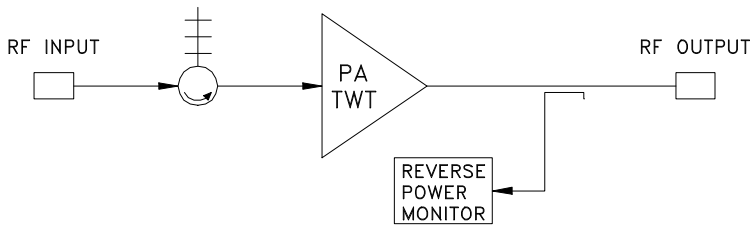


Model 367 Pulse/CW TWT Amplifier



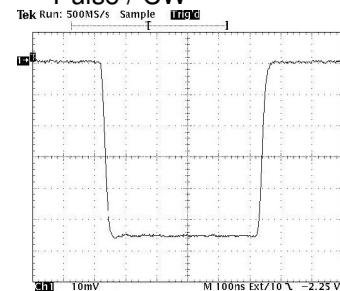
The Model 367 is a dual mode Pulse/CW TWT Amplifier which has been designed to operate TWT's in the 200-300 watt power range at frequencies up to 18 GHz. The RF output pulse is generated by the grid pulse without the use of RF switches. RF output pulse is controlled by the input video pulse.

Internal power supplies are DC-DC converter designs with fast loop response times so that output level variations are minimal for any PRF including a non-periodic or burst type PRF. The modular power supplies and grid pulse generator have very low ripple, with attendant low phase noise in the TWT Amplifier.

The modular design of the Model 367 provides convenient accessibility to all elements in the TWT amplifier. Plug-in PC boards are accessible through the front panel. The PC card cover contains a legend for PC card located test points and controls. High voltage modules are encapsulated, plug-in assemblies. There is no exposed high voltage. Most modules are interchangeable between all units regardless of frequency.

FEATURES:

- Frequency 1-18 GHz
Octave / Multioctave
- Low Spurious Outputs
- Phase and Amplitude Stability
- RF Output Fidelity
- Complete TWT Protection
 - PRF Limit
 - Helix Overcurrent
 - Cathode Over/Undervoltage
 - Collector Overvoltage
 - 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
 - Collector Voltage(s)
 - Helix Current
 - Filament and Operate Time
- Front Panel Controls
 - Power On / Off
 - Operate
 - Standby
 - Fault Reset
 - Local / Remote
 - Pulse / CW



Detected RF Output



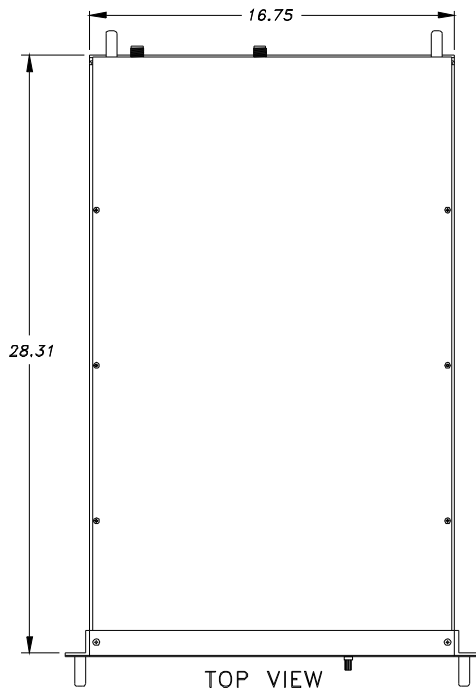
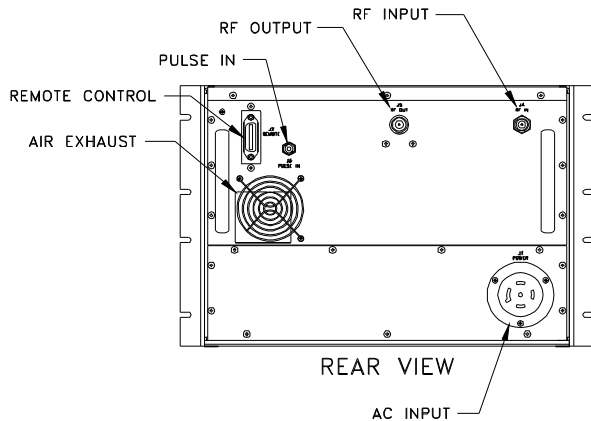
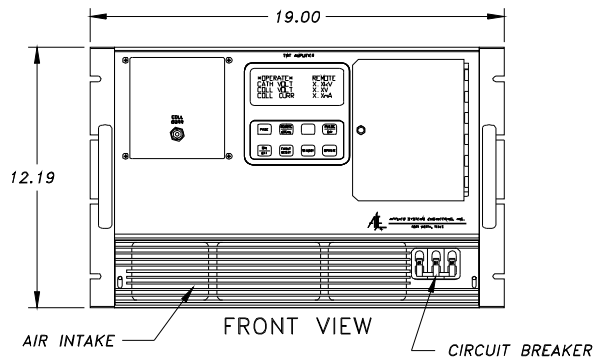
APPLIED SYSTEMS ENGINEERING, INC.

FORT WORTH, TEXAS

Model 367 TWT Amplifier

SPECIFICATIONS

Duty Cycle	Up to 50% Pulse or CW
Pulse Width Range	50 ns to CW
PRF Range	Up to 500 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	Precision Type N or Waveguide
Primary Power	208 VAC 3-phase $\pm 10\%$, 60 Hz
Operating Temperature	0 to 50°C
Weight	130 lbs, Nominal
Dimensions	12.25x19x28.5(in.)



Standard Equipment

- Input Isolator
- Filament / Operate Time
- IEEE-488 Remote Interface
- Reverse Power Monitor
- Switchable Pulse or CW Mode of Operation

Options

- Driver Amplifier
- Other PRF and Pulse Width Ranges
- RF Sample Ports
- Forward/Reverse Power Meter
- RS-232/422 Remote Interface
- Other Primary Power
- Outdoor Enclosure
- RF Connectors on Front Panel



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