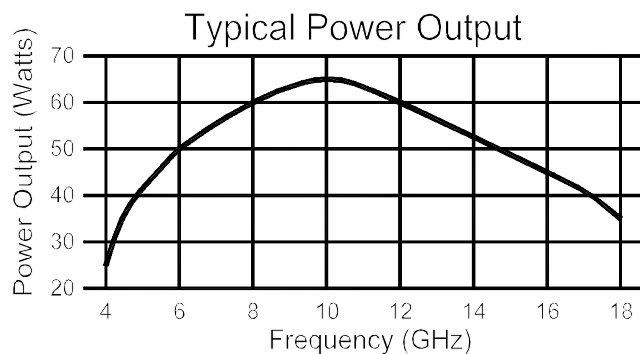


Model 20 20 Watt CW TWTA



The Model 20 series CW TWT Amplifier has been designed to operate 25 watt traveling wave tubes over the 4-18 GHz range. Internal power supplies are solid state DC-DC converter designs with fast loop response times so that output level variations are minimal. Both cathode and collector power supplies and the heater supply are duty cycle regulated designs. The cathode and collector power supplies have very low ripple, with attendant low phase noise in the TWT Amplifier. Output spurious signals are less than -50 dBc. The front panel 4-line vacuum florescent display, with 2 page modes, provides a monitor for the operating characteristics.

FEATURES:

- Frequency 4 -18 GHz
Octave / Multioctave
- Low Spurious Outputs
- Phase and Amplitude Stability
- Complete TWT Protection
Helix Overcurrent
Cathode Over/Undervoltage
Overtemperature
Input Energy Limit
- Custom Requirements
- Solid State Except for the TWT
- Front Panel Fault Isolation
- 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

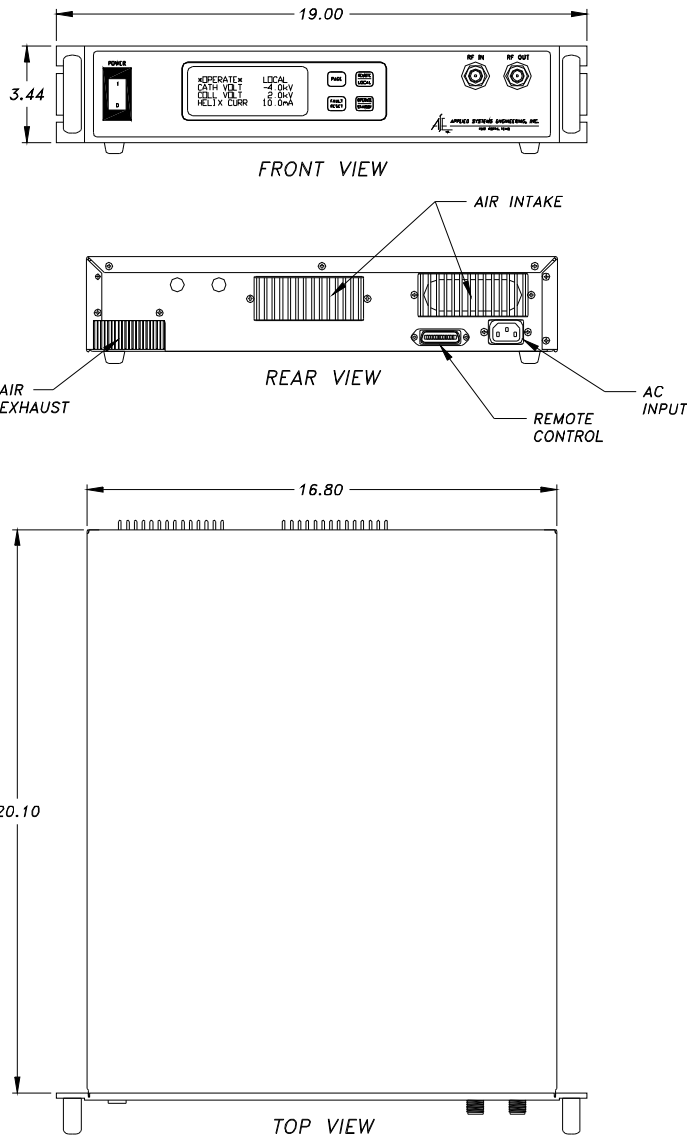


APPLIED SYSTEMS ENGINEERING, INC.

FORT WORTH, TEXAS

Model 20 20 W CW TWTA SPECIFICATIONS

Duty Cycle	CW
Spurious Outputs	-50 dBc, Maximum
Phase Noise	Less than $\pm 1^\circ$
Amplitude Variation	0.1 dB, Maximum
Gain	29 dB, Minimum
Noise Figure	35 dB, Nominal
RF Connectors	Precision Type N
Primary Power	120/220/240VAC $\pm 10\%$, 50/60 Hz
Operating Temperature	0 to 40°C
Weight	20 lbs, Nominal
Dimensions	3.50 x 19 x 20 (in.)



Standard Equipment

- Filament / Operate Time
- IEEE-488 Remote Interface

Options

- RF Input Isolator
- Driver Amplifier
- Gain Equalizer
- RF Sample Port
- RF Connectors on Rear Panel
- RS-232/422 Remote Interface