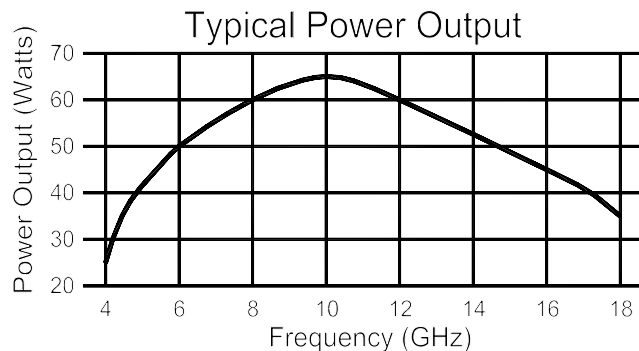


# Model 20 20 Watt CW TWTA



The Model 20 series CW TWT Amplifier has been designed to operate 25 watt traveling wave tubes over the 4-18 GHz range. 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. The front panel 4-line vacuum fluorescent display, with 2 page modes, provides a monitor for the operating characteristics.

## *FEATURES:*

- Frequencies from 4 -18 GHz  
Octave and Multi-Octaves Available
- 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

# 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	100-240VAC $\pm 10\%$ , 50/60 Hz
Operating Temperature	0 to $+40^\circ\text{C}$
Weight	20 lbs, Nominal
Dimensions	3.50 x 19 x 20 (in.)

## Standard Equipment

- Filament / Operate Time
- IEEE-488 Remote Control

## Options

- RF Input Isolator
- Driver Amplifier
- Gain Equalizer
- Forward RF Sample Port
- RF Connectors on Rear Panel
- RS-232/422 Remote Control
- Ethernet Remote Control (TCP/IP or UDP/IP)
- Manual or Digital Input Attenuator
- Conformal Coated PC Boards

