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MODEL 6533
4.0-18.0 GHz
20 WATTS
TWT POWER RF AMPLIFIER

**Broadband High Power
 TWT RF Amplifier**

The Ophir RF Model 6533 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 DCDC 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.

MODEL 6533 FEATURES

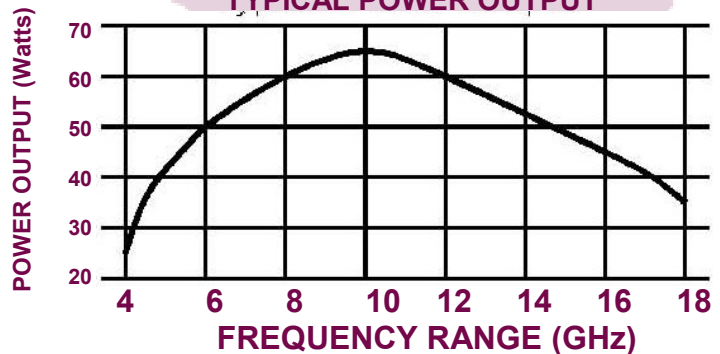
- ◇ - Low Spurious Outputs
- ◇ - Phase and Amplitude Stability
- ◇ - Complete TWT Protection
 - Helix Overcurrent
 - Cathode Over/Undervoltage
 - Over temperature
 - Input Energy Limit
- ◇ - Custom Requirements
- ◇ - Solid State Except for the TWT
- ◇ - Front Panel Fault Isolation
- ◇ - DC TWT Filaments
- ◇ - Four Line Display
 - Operating Mode
 - Cathode Voltage
 - Collector Voltage(s)
 - Helix Current
 - Filament and Operate Time
- ◇ - Front Panel Controls
 - Power On / Off
 - Operate
 - Standby
 - Fault Reset
 - Local / Remote

Specifications subject to change without notice

STANDARD ONE YEAR WARRANTY



TYPICAL POWER OUTPUT





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	<u>Parameter</u>	<u>Specification @ 25° C</u>
1	Frequency Range	4.0-18.0 GHz
2	Saturated Output Power	20 Watts Typical
3	Duty Cycle	CW
4	Gain	29 dB Minimum
5	Phase Noise	Less than +/- 1°
6	Amplitude Variation	0.1 dB Maximum
7	Spurious Outputs	-50dBc Maximum
8	Noise Figure	35 dB Nominal
9	RF Connectors	Precision Type N
10	Primary Power	110-240 VAC +/- 10% 50/60 Hz
11	Operating Temperature	0° to 40° C
12	Weight	20 lbs Nominal
13	Dimensions (H x W x D)	3.5" x 19" x 20.0"

OPTIONAL FEATURES

- ◇ - Driver Amplifier
- ◇ - RF Sample Ports
- ◇ - RS-232/422 Remote Interface
- ◇ - Other Primary Power
- ◇ - RF Connectors on Front Panel
- ◇ - Gain Equalizer

STANDARD FEATURES

- ◇ - Filament/ Operate Time
- ◇ - IEEE-488 Remote Interface

