



# T-1000 SERIES

## High Power Traveling Wave Tube Amplifiers

1 Kilowatt CW  
1.0-18.0 GHz

### Features Include:

- **Digital Display Monitors:** Collector Current, Collector Voltage, Helix Current, Helix Voltage, Forward RF Power, Reflected RF Power, Filament Hours, Beam Hours,
- **Status Indicators:** Power On, Standby, RF On/Operate,
- **Faults:** Helix Overcurrent, VSWR Overload, Thermal Overloads, Air Flow, Collector Overcurrent
- **Controls:** Power On/Off, Standby, RF On/Operate, Fault Reset, Local/Remote
- Ease of Maintenance
- Designed to meet the safety requirements of the IEC-348 and Underwriters Laboratory of American Standards
- Broadband Coverage
- Applications Include: MIL-STD-461/462, RTCA/D0-160, SAE Specifications, Radiated Susceptibility, Bellcore testing, Broadband Communications.
- Ruggedized Versions are available for Shipboard and Airborne applications



### RF Specifications

Model Number	Frequency Range (GHz)	Min Pwr Out* (KWatts)	Min Sat Gain* (dB)	Max NF (dB)	Rack SIZE
T21-1000	1-2	1.0	60	35	A
T251-1000	1-2.5	1.0	60	35	A
T42-1000	2-4	1.0	60	35	A
T84-1000	4-8	1.0	60	35	A
T7525-1000	2.5-7.5	1.0	60	35	B
T188-1000	7.5-18	1.0	60	35	C
T186-1000	6-18	1.0	60	35	C
T21-2000	1-2	2.0	63	35	A
T251-2000	1-2.5	2.0	63	35	A
T42-2000	2-4	2.0	63	35	A
T84-2000	4-8	2.0	63	35	A
T108-1000	8-10	1.0	60	35	A

\*Higher output power and gains available

### INSTRUMENTS FOR INDUSTRY INC.

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[www.ifi.com](http://www.ifi.com) (英文) [www.quatronix-cn.com](http://www.quatronix-cn.com) (中文)

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## High Power Traveling Wave Tube Amplifiers

1 Kilowatt CW  
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### Prime Power:

115/208 or 200/220/230/240VAC  $\pm 10\%$  50/60 Hz,  
three phase Wye Delta, and/or 400 Hz power is available

### Mechanical

Rack Dimensions: See Outline Below  
Weight: See Below  
Cooling: Internal forced air

### Remote Operation

GPIO, RS422, RS485, RS232, or TTL Remote Control

### Environmental

Operating Temperature: 0 - 50°C (40°C @ 10,000 Feet)  
Relative Humidity: 95% (non-condensing)  
Operating Altitude: 10,000 feet maximum  
Non-operating Temp.: -20 to 70°C  
Non-operating Altitude: 50,000 feet maximum

### Outline Drawing:

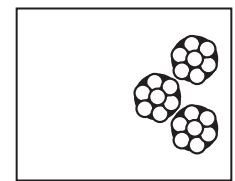
Specifications subject to change without notice

### RF Specifications

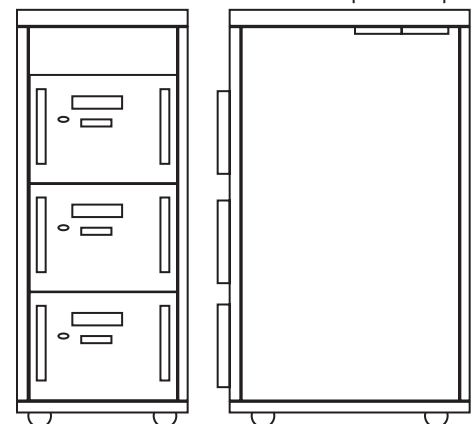
Spurious Outputs: -40 dBc, maximum.  
-50 dBc, available.  
Input Impedance: 50 Ohms, VSWR 2.0:1  
Output Impedance: 50 Ohms, VSWR 2.0:1  
2.5:1 maximum.  
Input Connector: Type N (Female).  
Output Connector: 1.0 to 2.5GHz,  
1 5/8" coax,  
2.0 to 4.0 GHz WRD200  
4.0 to 8.0 GHz WRD350  
8.0 to 12.0 GHz, WR90  
12.0 to 18.0 GHz, WR62  
7.5 to 18.0 GHz, WRD750  
6.0 to 18.0 GHz, WRD650  
(Other waveguides available  
Option 117)

To view typical performance data go to  
[www.ifi.com/typdata.htm](http://www.ifi.com/typdata.htm)

Cabinet	Height	Width	Depth	Weight
A	80"	22"	36"	800 lbs.
B	72"	22"	36"	700 lbs.
C	60"	22"	36"	600 lbs.



AIR FLOW



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