



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.

903 South Second Street, Ronkonkoma, NY 11779

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www.ifi.com

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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

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



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