



T-1000 Series High Power TWT Microwave Power Amplifiers

1.0 – 18 GHz • 1000 watts, Minimum Rated Power

Instruments for Industry, T-1000 Series Amplifiers provide outstanding RF performance. Our “T-1000 Series” products are a mature design but incorporate the latest features with respect to control and monitoring. These amplifiers are “State of the Art”; have field proven reliability and unsurpassed performance as the best in the industry. These products are available in a wide range of frequency bands from 1GHz-18GHz at 1000 watts.

Operation safety and ease of use are paramount in *IFI* product designs. The *IFI* T-1000 Series include a full complement of RF and hardware protection systems including high VSWR, over-current and voltage protection as well as redundant thermal and airflow sensors to prevent the TWT from overheating. In addition, the T-1000 series includes a state-of-the-art interface that is sophisticated, comprehensive, but yet simple to use. Our amplifiers feature modular construction and this concept of modular design minimizes internally produced EMI signal leakage and provides easy access for field service and rapid turnaround at depot level repair facilities.

The backlit LCD screen shows forward/reverse power indication, system status and self-diagnostic information. All the amplifier operating parameters are simultaneously available in the amplifier front panel display as well as over the remote bus. Selection switches allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely.

For computer automation both an RS-232 and IEEE-488 interface are included. To meet individual application needs, the T-1000 Series amplifiers can be easily customized with harmonic filters or other options. With this capability and its reliable elegant design, the T-1000 series amplifiers are the perfect amplifier for your microwave needs. *IFI* offers different size packages and configurations to best suit your application. A product and design built to last!

IFI RF Power Amplifier Features:

- Instantaneous Broadband Frequency range
- Modular Design Construction
- Rugged Construction & High Reliability
- Backlit LCD Display
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 interface, RS232
- Solid State Power Supply



Models & General Specifications:

Model Number	Frequency Range (GHz)	Rated Power (watts minimum)	P1dB Power (nominal)	Gain (dB min)	Mains (kVA)	Weight (Pounds)	Size (Inches)
T21-1000	1.0-2.0	1000	500	60	7.0	650	Rack Integrated
T251-1000	1.0-2.5	1000	500	60	7.0	650	Rack Integrated
T42-1000	2.0-4.0	1000	500	60	7.0	600	Rack Integrated
T7525-1000*	2.5-7.5	1000	500	60	8.0	600	Rack Integrated
T84-1000*	4.0-8.0	1000	500	60	8.0	600	Rack Integrated
T186-1000	6.0-18.0	1000	500	60	8.0	600	Rack Integrated
T188-1000	7.5-18.0	1000	500	60	8.0	600	Rack Integrated
T128-1000	8.0-12.4	1000	500	60	8.0	600	Rack Integrated
T1812-1000	12.0-18.0	1000	500	60	8.0	600	Rack Integrated

*Over the majority of the band



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Standard Features for IFI T-1000 Series TWT Amplifiers

Table with 2 columns: Standard Features and Description. Features include VSWR Reflected Power Protection, Open & Short Circuit Protection, Alternate Prime Power, GPIB IEEE 488 & RS232 Remote Control, RF Sample Port, Internal Pre-amplification, RF Input/Output Connectors, Internal Systems Diagnostics & Status Indicators, Filament/Beam Elapsed Time Metering, RF Safety Interlock, and Forward/Reflected Power Indication.

Specifications:

Table with 2 columns: Specification and Value. Specifications include Frequency Range, Rated Output Power, Gain @ Rated Power, Prime Power, Input/output Impedance, RF Input/ Sample Connectors, RF Output Connector, Input VSWR, Output VSWR, Operating Temp, Non-operating Temp/Altitude, Humidity, Operating Altitude, Cooling System, Modulation, Configuration, and Spurious Outputs.

Standard Prime Powers:

Table with 2 columns: Prime Power and Description. Lists standard prime powers: 100, 115, 120 VAC ±10% 50/60 Hz, single phase; 200, 220, 230, 240VAC ±10% 50/60 Hz, single phase; and 100/200VAC, 115/208 or 200/220/230/240VAC ±10% 50/60 Hz, three phase Wye or Delta and/or 400 Hz power is available.

Special Prime Powers other then listed are subject to availability

Some Available Options for IFI T-1000 Series TWT Amplifiers

Table with 2 columns: Option and Description. Options include Option 103 G/D (VSWR Reflected Power Protection), Option 110-1E (GPIB IEEE-488 RS232 and Ethernet Remote Control), Option 110-2 (GPIB IEEE-488 and RS 422 Remote Control), Option 110-3 (GPIB IEEE-488 and RS 485 Remote Control), Option 118F or R (Front Panel RF Connections), and Option 123F or R (Reflected RF Sample Port).

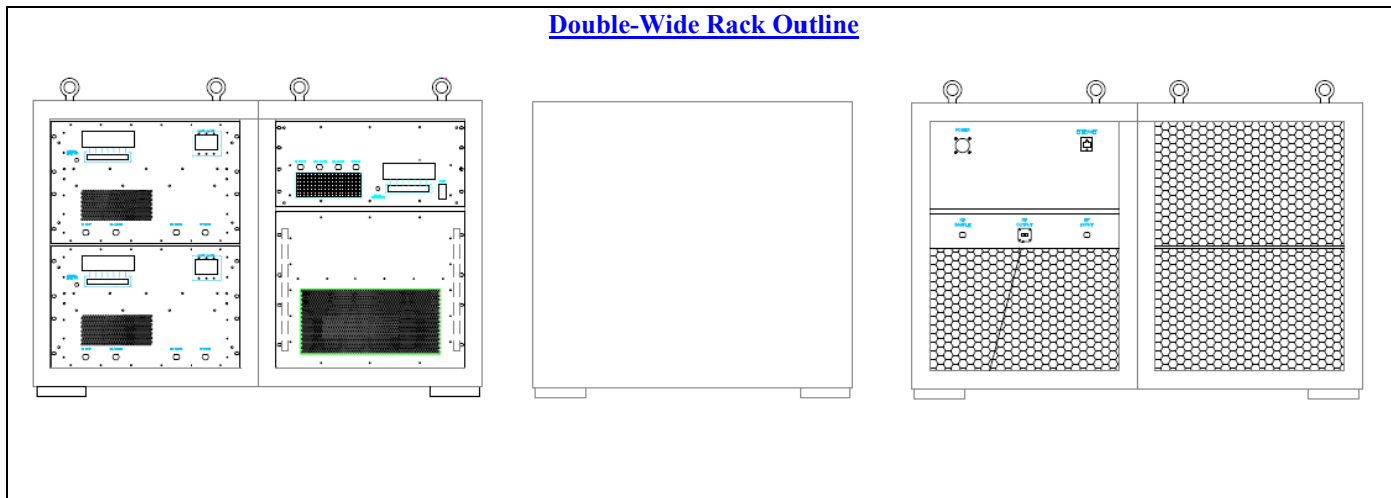


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Outline Configurations:

Double-Wide Rack Outline



Upright Rack Outline

