



T-500 Series High Power TWT Microwave Power Amplifiers

1.0 – 18 GHz • 500 watts, Minimum Rated Power

Instruments for Industry, T-500 Series Amplifiers provide outstanding RF performance. Our “T-500 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 500 watts.

Operation safety and ease of use are paramount in IFI product designs. The IFI T-500 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-500 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-500 Series amplifiers can be easily customized with harmonic filters or other options. With this capability and its reliable elegant design, the T-500 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)
T21-500	1.0-2.0	500	250	57	3.0	85	10.5”H x 19”W x 27.00”D
T251-500	1.0-2.5	500	250	57	3.0	85	10.5”H x 19”W x 27.00”D
T42-500	2.0-4.0	500	250	57	3.0	85	10.5”H x 19”W x 25.25”D
T62-500	2.0-6.0	500	250	57	3.0	85	10.5”H x 19”W x 25.25”D
T7525-500	2.5-7.5	500	250	57	3.0	85	10.5”H x 19”W x 25.25”D
T82-500	2.0-8.0	500	250	57	3.0	85	10.5”H x 19”W x 25.25”D
T825-500	2.5-8.0	500	250	57	3.0	85	10.5”H x 19”W x 25.25”D
T84-500	4.0-8.0	500	250	57	3.0	85	10.5”H x 19”W x 25.25”D
T186-500	6.0-18.0	500	250	57	4.0	120	14.0”H x 19”W x 27.00”D
T188-500	8.0-18.0	500	250	57	4.0	120	14.0”H x 19”W x 27.00”D
T128-500	8.0-12.0	500	250	57	4.0	120	14.0”H x 19”W x 27.00”D
T1812-500	12.0-18.0	500	250	57	4.0	120	14.0”H x 19”W x 27.00”D



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Standard Features for IFI T-500 Series TWT Amplifiers

Table with 2 columns: Standard Features and Description. Features include VSWR protection, remote control, RF ports, and safety interlocks.

Specifications:

Table with 2 columns: Specification and Value. Includes frequency range, power, gain, impedance, connectors, and environmental conditions.

Standard Prime Powers:

Table listing standard prime power options: 100, 115, 120 VAC; 200, 220, 230, 240 VAC; and three-phase options.

Some Available Options for IFI T-500 Series TWT Amplifiers

Table listing optional features: Option 103 G/D (Graceful Degradation), remote control options (110-1E, 110-2, 110-3), chassis slides (113), and RF connection options (118F/R, 123F/R).



Instruments For Industry

The Power Of Choice

CW TWT

AMPLIFIERS

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Option 129E:	External Harmonic Filtering
Option 129S:	Internal Switchable Harmonic Filtering

Instruments For Industry

903 South Second Street • Ronkonkoma, NY 11779 • 631-467-8400 • 631-467-8558 • sales@ifi.com • www.ifi.com

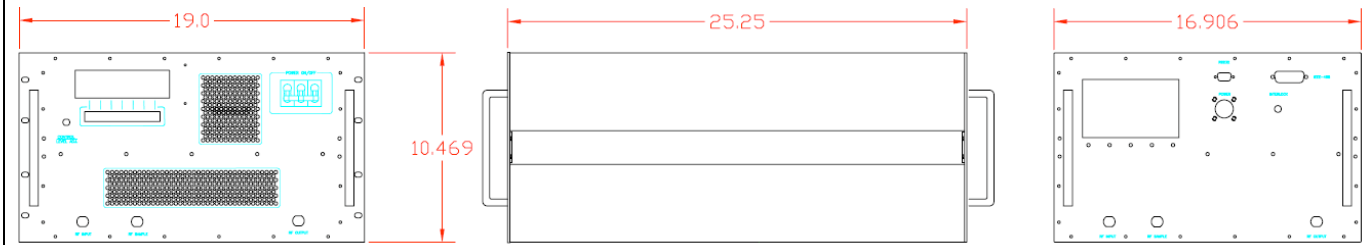


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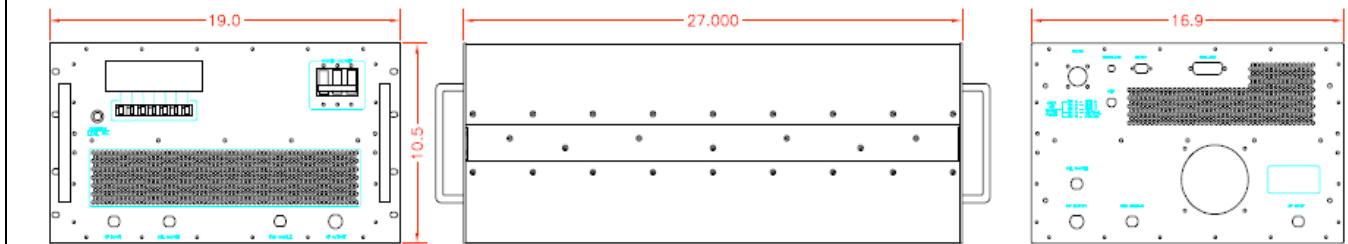
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Outline Configurations:

10.5”H x 25.25”D Chassis Outline



10.5”H x 27”D Chassis Outline



14.0”H Chassis Outline

