



# T-200 & T-250 Series High Power TWT Microwave Power Amplifiers

1.0 – 18 GHz • 200-250 watts, Minimum Rated Power

Instruments for Industry, T-200 Series Amplifiers provide outstanding RF performance. Our “T-200 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 power levels from 200 watts to 250 watts in the 1GHz-18GHz frequency range.

Operation safety and ease of use are paramount in IFI product designs. The IFI T-200 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-200 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-200 Series amplifiers can be easily customized with harmonic filters or other options. With this capability and its reliable elegant design, the T-200 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)
T21-200	1.0-2.0	200	100	53	2.5	85	10.5”H x 19”W x 27.00”D
T21-250	1.0-2.0	250	125	54	2.5	85	10.5”H x 19”W x 27.00”D
T251-200	1.0-2.5	200	100	53	2.5	85	10.5”H x 19”W x 27.00”D
T251-250	1.0-2.5	250	125	54	2.5	85	10.5”H x 19”W x 27.00”D
T281-200	1.0-2.8	200	100	53	2.5	80	10.5”H x 19”W x 27.00”D
T281-250	1.0-2.8	250	125	54	2.5	80	10.5”H x 19”W x 27.00”D
T31-250	1.0-3.0	250	125	54	2.5	85	10.5”H x 19”W x 27.00”D
T42-200	2.0-4.0	200	100	53	2.0	75	10.5”H x 19”W x 25.25”D
T42-250	2.0-4.0	250	125	54	2.5	75	10.5”H x 19”W x 25.25”D
T82-200	2.0-8.0	200	100	53	2.5	75	10.5”H x 19”W x 25.25”D
T82-250	2.0-8.0	250	125	54	2.5	75	10.5”H x 19”W x 25.25”D
T128-200	8.0-12.4	200	100	53	2.0	70	10.5”H x 19”W x 25.25”D
T128-250	8.0-12.4	250	125	54	2.5	70	10.5”H x 19”W x 25.25”D
T1812-200	12.0-18.0	200	100	53	2.0	70	10.5”H x 19”W x 25.25”D
T1812-250	12.0-18.0	250	125	54	2.5	70	10.5”H x 19”W x 25.25”D
T188-200	7.5-18.0	200	100	53	2.0	70	10.5”H x 19”W x 25.25”D
T188-250	7.5-18.0	250	125	54	2.5	70	10.5”H x 19”W x 25.25”D
T186-200	6.0-18.0	200	100	53	2.0	70	10.5”H x 19”W x 25.25”D
T186-250	6.0-18.0	250	125	54	2.5	70	10.5”H x 19”W x 25.25”D



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Standard Features for IFI T-200 & T250 Series TWT Amplifiers

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

Specifications:

Table with 2 columns: Specification and Value. Includes frequency range, power, gain, impedance, connectors, VSWR, temperature, humidity, altitude, modulation, and spurious outputs.

Standard Prime Powers:

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

Some Available Options for IFI T-200 & T-250 Series TWT Amplifiers

Table listing optional features: Option 103 G/D (Graceful Degradation), Option 110-1E (Ethernet remote control), Option 110-2 (RS 422 remote control), Option 110-3 (RS 485 remote control), Option 113 (Chassis Slides), Option 118F or R (RF connections), and Option 123F or R (Reflected RF Sample Port).



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**CW TWT**

**AMPLIFIERS**

## **T-200 & T-250 Series High Power TWT Microwave Power Amplifiers**

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

**Instruments For Industry**

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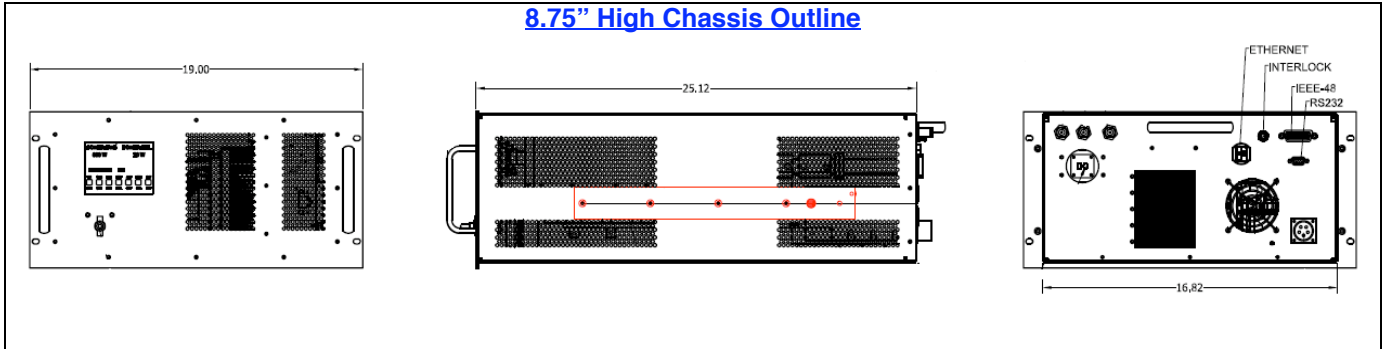


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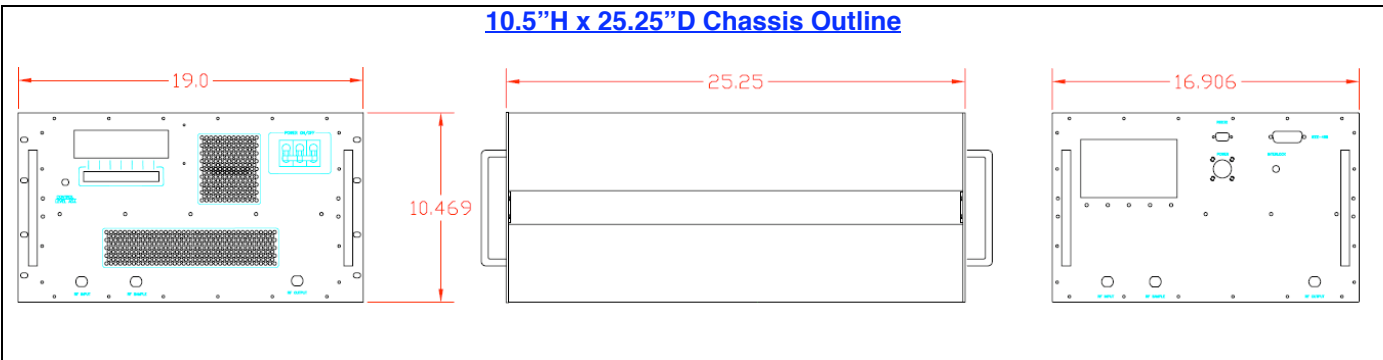
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## Outline Configurations:

### 8.75" High Chassis Outline



### 10.5"H x 25.25"D Chassis Outline



### 10.5"H x 27"D Chassis Outline

