



PT-1KW Series Pulse TWT Microwave Power Amplifiers

1.0 – 18 GHz • 1,000 – 2,000 watts, Minimum Rated Power

The PT series of KW Pulse amplifiers built by IFI; are high power, "State-of-the-art" Pulse TWT amplifiers specifically designed for microwave testing applications. Our elegant approach provides 1,000-2,000 Watts of pulse power for various frequency ranges from 1.0 to 18.0 Gigahertz in various packages that offers all the controls and communications needed for today's automated test systems. These amplifiers have field proven reliability and unsurpassed performance as the best in the industry.

From the ground up the PT series amps are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site. 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. Redundant thermal and airflow sensors prevent the TWT from overheating. In addition, high VSWR protection is built in.

The PT series "State-of-the-art" interface is sophisticated yet simple to use. The backlit LCD screen shows forward/reverse power indication, status and self-diagnostic information. All the amplifiers 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 requirements, the PT series amplifiers can be easily customized with our available options that may be required for your application.

With all this capability and its reliable elegant design, the PT series amplifiers are the perfect amplifier for your testing needs. IFI also offers different size packages to best suit your application. We have standard 10.5" high models for most commercial systems, but we also offer an 8.75" high version for space limited applications.

IFI Pulse TWT Amplifier Features:

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



Models & General Specifications:

Model Number	Frequency Range (GHz)	Rated Power (kW minimum)	Gain (dB min)	Mains (kVA)	Weight (pounds)	Size (Inches)
PT21-1KW	1.0-2.0	1.0	60	1.5	85	10.5"Hx19"Wx25.25D
PT21-2KW	1.0-2.0	2.0	63	1.5	85	10.5"Hx19"Wx25.25D
PT251-1KW	1.0-2.5	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT251-2KW	1.0-2.5	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT42-1KW	2.0-4.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT42-2KW	2.0-4.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT82-1KW	2.0-8.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT82-2KW	2.0-8.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT825-1KW	2.5-8.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT825-2KW	2.5-8.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT84-1KW	4.0-8.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT84-2KW	4.0-8.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT128-1KW	8.0-12.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT128-2KW*	8.0-12.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT1812-1KW	12.0-18.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT1812-2KW*	12.0-18.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT188-1KW	8.0-18.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT188-2KW*	8.0-18.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D
PT186-1KW	6.5-18.0	1.0	60	1.5	75	10.5"Hx19"Wx25.25D
PT186-2KW*	6.5-18.0	2.0	63	1.5	75	10.5"Hx19"Wx25.25D

\* Over the majority of the band



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Table with 2 columns: Standard Features and descriptions. Features include VSWR protection, GPIB control, RF sample port, internal pre-amplification, and safety interlocks.

Table with 2 columns: PT-Series Specifications and values. Specifications include Frequency Range, Rated Output Power, Gain, Prime Power, Input/output Impedance, RF connectors, Pulse characteristics, and environmental conditions.

Table with 1 column: Standard Prime Powers. Lists voltage and frequency options such as 100, 115, 120 VAC and 200, 220, 230, 240 VAC.

Table with 2 columns: Some Available Options for IFI PT-Series TWT Amplifiers and descriptions. Options include 103 G/D (Graceful Degradation), 110-1E, 110-2, 110-3, 113, 118F or R, and 123F or R.



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Outline Configurations:

