



PT-1KW SERIES

Pulse High Power Traveling Wave Tube Amplifiers

1-2 Kilowatts Pulsed
1.0-18.0 GHz, 6% Duty Cycles



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

Models And Specifications

Model Number	Frequency Range (GHz)	Min Pwr Out* (K Watts)	Min Sat Gain* (dB)	Max NF (dB)
PT21-1KW	1-2	1.0	60	35
PT21-2KW	1-2	2.0**	63	35
PT251-1KW	1-2.5	1.0	60	35
PT42-1KW	2-4	1.0	60	35
PT42-2KW	2-4	2.0**	63	35
PT82-1KW	2-8	1.0	60	35
PT825-1KW	2.5-8	1.0	60	35
PT825-2KW	2.5-8	2.0**	63	35
PT84-1KW	4-8	1.0	60	35
PT84-2KW	4-8	2.0**	63	35
PT128-1KW	8-12	1.0	60	35
PT1812-1KW	12-18	1.0	60	35
PT188-1KW	8-18	1.0	60	35
PT186-1KW	6.5-18	1.0	60	35
PT188-2KW	8-18	2.0**	63	35
PT128-2KW	8-12	2.0**	63	35
PT1812-2KW	12-18	2.0**	63	35

*Higher output power and gains available
** Over majority of Frequency Range

INSTRUMENTS FOR INDUSTRY INC.

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www.ifi.com

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Prime Power:

100/115/220/230 or 240VAC $\pm 10\%$ 50/60 Hz, single phase
115/208 or 200/220/230/240VAC $\pm 10\%$ 50/60 Hz,
three phase Wye, Delta and/or 400 Hz power is available

Mechanical

Dimensions: 14"H x 19"W x 27"D
(Rack Mountable) (356mm x 483mm x 686mm)
Weight: 170 pounds typical (77kg)
Cooling: Internal forced air

Remote Operation

GPIB, 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

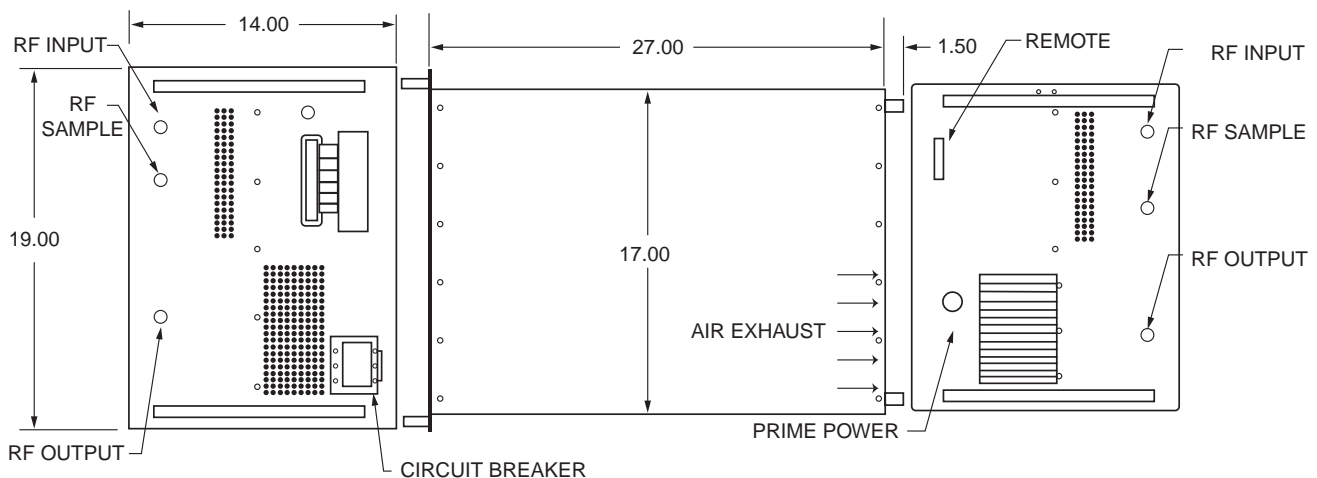
RF Specifications

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 8.0 GHz,
Type N (Female),
8.0 to 12.0 GHz, WR90
12.0 to 18.0 GHz, WR62
7.5 to 18.0 GHz, WRD750
6.5 to 18.0 GHz, WRD650
(Other waveguides available
Option 117)

To view typical performance data go to
www.ifi.com/typdata.htm

Outline Drawing:

Specifications subject to change without notice



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