



# GT-200 SERIES

## High Power Traveling Wave Tube Amplifiers

100-500 Watts Pulsed/CW  
1.0-18.0 GHz, 0-100% Duty Cycle



### 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* (Watts)	Min Sat Gain* (dB)	Max NF (dB)
GT21-200	1-2	200	53	35
GT21-250	1-2	250	54	35
GT251-500	1-2.5	500	57	35
GT281-200	1-2.8	200	53	35
GT281-250	1-2.8	250	54	35
GT42-200	2-4	200	53	35
GT42-250	2-4	250	54	35
GT7525-500	2.5-7.5	500	57	35
GT84-200	4-8	200	53	35
GT84-250	4-8	250	54	35
GT84-500	4-7.5	500	57	35
	7.5-8	450	57	35
GT825-200	2.5-8	200	53	35
GT128-200	8-12	200	53	35
GT188-200	7.5-18	200	53	35
GT188-250	7.5-18	250	54	35
GT188-300	7.5-18	300	55	35
GT188-500	7.5-18	500	57	35
GT1812-200	12-18	200	53	35
GT186-200	6-18	200	53	35
GT186-250	6-18	250	54	35
GT186-300	6-18	300	55	35

\*Higher output power and gains available

### INSTRUMENTS FOR INDUSTRY INC.

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[www.ifi.com](http://www.ifi.com) (英文) [www.quatronix-cn.com](http://www.quatronix-cn.com) (中文)

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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

GPIO, 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

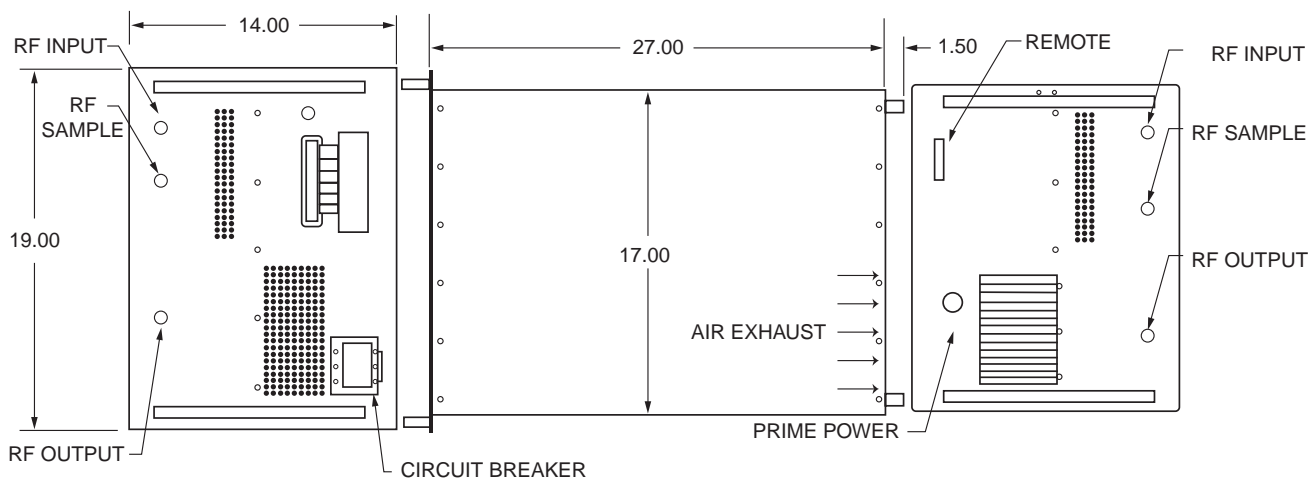
### RF Specifications

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 or SC (Female),  
8.0 to 12.0 GHz, WR90  
12.0 to 18.0 GHz, WR62  
7.5 to 18.0 GHz, WRD750  
6.0 to 18.0 GHz, WRD650  
(Other waveguides available  
Option 117)

To view typical performance data go to  
[www.ifi.com/typdata.htm](http://www.ifi.com/typdata.htm)

### Outline Drawing:

Specifications subject to change without notice



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