



# S/T-20 SERIES

## Medium Power Solid State & Traveling Wave Tube Amplifiers

20 Watts CW  
1.0-18.0 GHz

### 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)
S21-20	1-2	20	43	15
S31-20	1-3	20	43	15
S42-20	2-4	20	43	15
S41-20	0.8-4.2	20	43	15
S41-25	0.8-4.2	25	44	15
ST181-20	1-18	20	43	35
T82-20	2-8	20	43	35
T84-20	4-8	20	43	35
T184-20	4-18	20	43	35
T184-25	4-18	25	44	35
T186-20	6-18	20	43	35
T188-20	8-18	20	43	35
T1812-20	12-18	20	43	35
T128-20	8-12	20	43	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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## Medium Power Solid State & Traveling Wave Tube Amplifiers

20 Watts CW  
1.0-18.0 GHz

### 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: 7"H x 19"W x 24"D  
(Rack Mountable) (178mm x 483mm x 610mm)  
Weight: 50 pounds typical (23kg)  
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

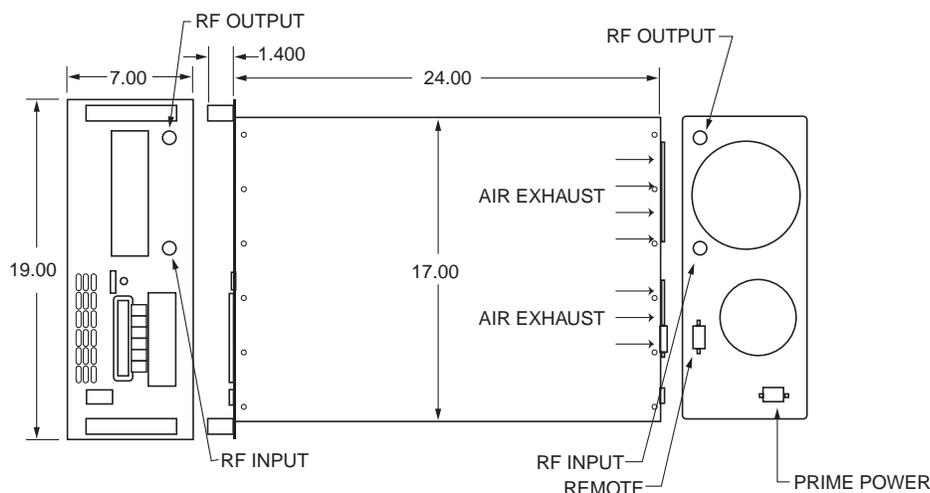
### RF Specifications

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 18.0 GHz,  
Type N (Female)  
(Waveguide is 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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