



S/T-50 SERIES

Medium Power Solid State & Traveling Wave Tube Amplifiers

40/50/60 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



RF Specifications

Model Number	Frequency Range (GHz)	Min Pwr Out* (Watts)	Min Sat Gain* (dB)	Max NF (dB)
S21-50	1-2	50	47	15
S31-50	1-3	50	47	15
S42-50	2-4	50	47	15
S41-50	0.8-4.2	50	47	15
T82-50	2-8	50	47	35
T84-50	4-8	50	47	35
T186-40	6-18	40	46	35
T188-40	8-18	40	46	35
T188-50	8-18	50	47	35
T186-50	6-18	50	47	35
T186-60	6-18	60	48	35
T1812-50	12-18	50	47	35
T128-50	8-12	50	47	35

*Higher output power and gains available

INSTRUMENTS FOR INDUSTRY INC.

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S/T-50 SERIES **Medium Power Solid State & Traveling Wave Tube Amplifiers**

40/50/60 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 4"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

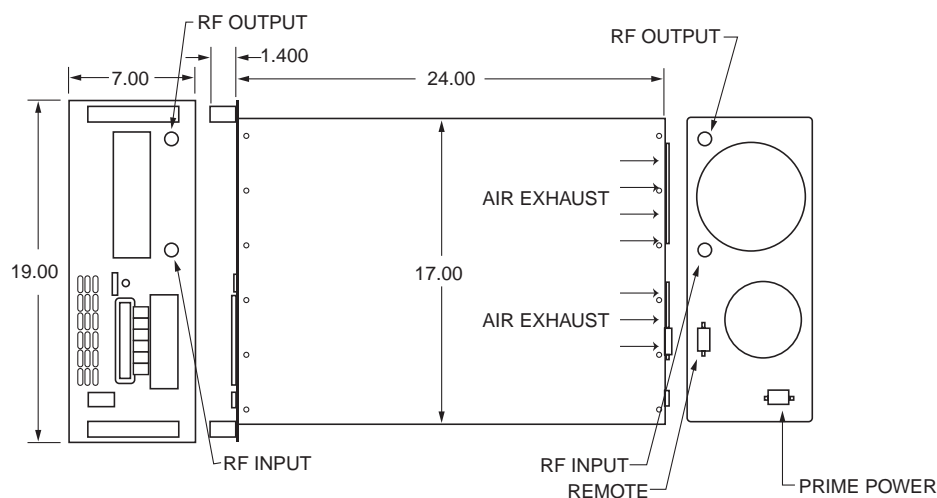
RF Specifications

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

Outline Drawing:

Specifications subject to change without notice



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