

Advanced Test Equipment Rentals www.atecorp.com 800-404-ATEC (2832)



IFI SOLID STATE AMPLIFIERS

Wide instantaneous frequency range Gain control Backlit LCD display

Total/Operate Elapsed Time Metering

Self-diagnostic circuitry

VSWR protection

Safety Requirement of IEC-348

Unconditionally stable against load mismatches

Forward /Reflected Power Indication

IEEE 488 GPIB Remote Control

RF Door Safety Interlock

Air-cooled (Integrated Forced Air – self-contained)

Open Circuit and Short Circuit Protection

Modulation, AM, FM & PULSE

Front Panel Controls and Indicators

Standby/Operate

Local/Remote

EMI Filter built-in

Amplifiers are supplied with an AC line cord to accommodate the power source; an operation & maintenance manual; and amplifier performance test data.

The Front Panel is standard for RF Connectors and RF Sample Port. If this is not convenient, please advise the location at the time of order. We will be happy to serve you. Thank you!

*GPIB IEEE-488 Remote Control is standard.

If this is not convenient, please review & advise the GPIB option at the time of order. These other available options are at no charge. Thank you!

- GPIB IEEE-488 Remote Control a.
- GPIB IEEE-488 and RS 232 Remote Control b.
- GPIB IEEE-488 and RS 422 Remote Control c.
- GPIB IEEE-488 and RS 485 Remote Control d.



| IFI Model ST81-50 Solid State/TWT (CW) Combination Amplifier Specifications | |
|---|---|
| | 1-8 GHz (operable down to 0.8 GHz – specify if desired at time of order) |
| | Bnd 1: 1-2 GHz (Solid State) |
| Frequency Range: | Bnd 2: 2-8 GHz (TWT) |
| Rated Power: | 50 Watts minimum (70W typical) |
| Gain @ rated power: | 47 dB |
| Prime Power: | 100-240 VAC +/-10%, 50/60 Hz, Single Phase* |
| Input/Output Impedance: | 50 ohms (VSWR 2.0:1) |
| RF Input/Output Connectors | :Type N Female |
| Temperature: | 0° to 50° C (40° C @ 10,000 feet) |
| Non-operating Temp: | -20° to 70° C (50,000 feet max) |
| Humidity: | 95% without condensation |
| Altitude: | 10,000 feet |
| Cooling System: | Air cooled, self contained |
| Modulation: | AM/FM/Pulse |
| Configuration: | 19" Rack Mount; 19"W x 25.25"L x 10.5"H |
| Spurious: | -50dBc |
| | Band 1: 0.8-2.0 GHz, -20 dBc @ linear power (35-40 Watts) |
| | Band 2: 2-3GHz: -3 to -8 dBc @ Rated Power |
| | 3-6GHz: -8 to -15 dBc @ Rated Power |
| **Harmonics (nominal): | 6-8GHz: -15 to –25 dBc @ Rated Power |
| Features: | VSWR Protection against an output mismatch |
| | * Alternate Prime Power (specify at time of order) |
| | * GPIB IEEE 488 Remote Control |
| | Forward RF Sample Port on the Front Panel, type N-F |
| | (specify front or rear at time of order) |
| | Internal Pre-amplification to obtain rated output power with an input level of |
| | 0dBm or less. |
| | RF Input/Output Connectors on the Front Panel |
| | (Specify front or rear at time of order) |
| | Internal Systems Diagnostics |
| | Elapsed Time Metering in hours |
| | RF Safety Interlock, type BNC |
| | Forward/Reflected Power Indication simultaneously on Front Panel display |
| | |

^{**-20}dBc harmonics available with filters at an additional charge. The Filters can be external or band selectable via switches internal to the amplifier. The control can be via the front panel or over the GPIB remote bus.