

ACOM

NEW ACOM 20AT

Automatic Antenna Tuner and Switch
optimized for use with ACOM 2020S solid-state amplifiers

PRELIMINARY INFORMATION | Dayton Hamvention Exhibition | May 17-19, 2024



The antenna tuner is shown near to ACOM 2020S amplifier.

OUTSTANDING HF POWER PRODUCTS

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SPECIFICATIONS

FREQUENCY COVERAGE

Continuous from 1.8 to 30 and from 50 to 54 MHz

ANTENNA IMPEDANCE MATCHING CAPABILITY

All impedances with SWR from 1:1 to 3:1 towards 50 Ohm, any phase angle, unbalanced input and output.

(For some frequencies and impedances, matching is possible at SWR above 3:1 at the antenna output (up to 10:1), but the maximum allowed power is reduced.)

MAXIMUM ALLOWED INPUT POWER

PEP, Mean or Continuous Carrier, Without Mode Limitations:

- At antenna SWR below 2.5: 1500 W
- At antenna SWR between 2.5 and 3: 1200 W
- At antenna SWR between 3 and 5 (provided matching is possible): 500 W
- At antenna SWR between 5 and 10 (provided matching is possible): 200 W
(Operation with SWR above 10:1 is not allowed.)

RF INPUT CHARACTERISTICS

- Rated impedance: 50 Ohm unbalanced
- Input connector type: UHF/PTFE (SO-239A)
- Number of outputs: 4

- SWR during full tuning (basic cycle):
No higher than 2:1
- SWR immediately after full tuning:
No higher than 1.5:1 (1.3:1 typically)

FAST TUNING DURATION

Less than 50 ms (from nonvolatile memory)

FULL TUNING DURATION

(basic matching cycle)

- Below 10 MHz: less than 5 s (2-3 s typically)
- Above 10 MHz: less than 3 s (1-2 s typically)

INPUT SIGNAL NEEDED TO PREPARE USER TUNING SETTINGS

25 W +3/-3 dB (12.5 to 50 W), non-modulated

POWER SUPPLY AND CONTROL

- Available from the ACOM solid state amplifiers through RF output coaxial cable

SIZE & WEIGHT

- Operating (excluding connected cables),
WxDxH: 213x316x190 mm, 4.2 kg
(8.4x12.5x7.5 inches, 9.3 lbs.)



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