

# AH-705

#### HF/50 MHz AUTOMATIC ANTENNA TUNER

## Compact Antenna Tuner for the IC-705, Tunable 50 Ω Antenna and Long Wire Antenna

### Covers the 1.8 MHz to 50 MHz bands

30 m, 98.4 ft or longer antenna: 1.8 - 54 MHz, 7 m, 23 ft or longer antenna: 3.5 - 54 MHz

\* Depending on operating conditions or environments, the tuner may not be able to tune the antenna.

## SO-239 antenna connector for 50 $\Omega$ antenna such as dipole or Yaqi

"Terminal connector", binding post socket adapter supplied for a long wire antenna

## 2-way power sources using alkaline batteries or external 13.8 V DC\*

13.8 V DC should be taken directly from an external power supply, not through the IC-705.

## IP54 dust-protection and water resistance construction\*

\* The connectors should be covered with an adhesive tape or a jack cover to prevent water seeping into the connection.

## Full automatic tuning, just push the [TUNER] button on the IC-705

Latching relays used for saving power consumption

 $190 \times 105 \times 40$  mm;  $7.5 \times 4.1 \times 1.6$  in, 450 q; 15.8 oz\* compact design

\* Battery cells are not included.





50  $\Omega$  antenna example

#### **SPECIFICATIONS**

Tunable frequency range	1.8 – 54 MHz (with a 30 m, 98.4 ft or longer antenna) 3.5 – 54 MHz (with a 7 m, 23 ft or longer antenna)
Maximum input power	10 W
Input impedance	50 Ω
Power requirement for tuning	5 W, 10 W
Tuning time (approximate)	Average: 2 – 3 seconds Maximum: 15 seconds
Power supply requirement	Battery: 3.0 V DC (LR6 (AA) alkaline × 2 cells) DC Input: 13.8 V DC (±15%)
Current drain	Less than 300 mA (at tuning) Less than 1 mA (stand-by)
Electric polarity	Negative ground
Operating temperature range	-10°C to +60°C, 14°F to +140°F
Tuning accuracy	Less than 1: 2.0 VSWR (except ½/2 of antenna length and its multiples)
Number of tuned memories	45 memories
Dimensions (W $\times$ H $\times$ D) (projections not included)	190 × 105 × 40 mm; 7.5 × 4.1 × 1.6 in
Weight (approximate)	450 g, 15.8 oz (battery cells are not included)

All stated specifications are subject to change without notice or obligation.

#### **Applicable IP Rating**

Ingress Protection Standard	
IP rating	IP54 (Dust-protection and water resistant)

#### **SUPPLIED ACCESSORIES**

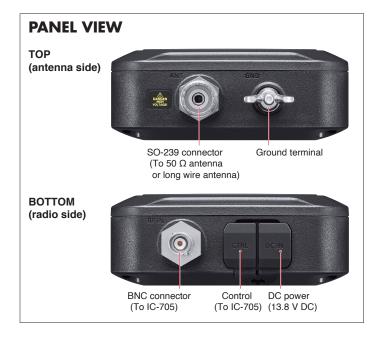


- Coaxial cable (2 m, 6.6 ft, BNC connectors, between AH-705 and IC-705)
- Control cable (2 m, 6.6 ft, between AH-705 and IC-705)
- Terminal connector, PL-259 to binding post socket adapter for a long wire antenna
- Mounting bracket (with a screw and washer)
- DC plug

#### **OPTIONAL ACCESSORIES**



**OPC-2475** (5 m, 16.4 ft) COAXIAL CABLE between AH-705 and IC-705 (BNC connectors)





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