

### 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 Ω antenna such as dipole or Yagi

#### “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 × 105 × 40 mm; 7.5 × 4.1 × 1.6 in, 450 g; 15.8 oz\* compact design

\* Battery cells are not included.



AH-705



Wire antenna installation example



50 Ω 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 $\lambda/2$ of antenna length and its multiples)
Number of tuned memories	45 memories
Dimensions (W × H × 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-2474** (5 m, 16.4 ft)  
CONTROL CABLE  
between AH-705 and IC-705

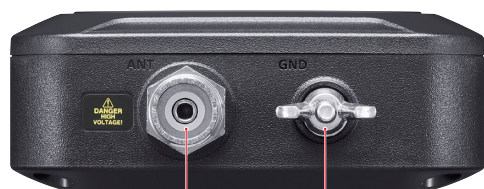


**OPC-2475** (5 m, 16.4 ft)  
COAXIAL CABLE  
between AH-705 and IC-705  
(BNC connectors)



**PANEL VIEW**

**TOP**  
(antenna side)



SO-239 connector  
(To 50 Ω antenna  
or long wire antenna)

Ground terminal

**BOTTOM**  
(radio side)



BNC connector  
(To IC-705)

Control  
(To IC-705)

DC power  
(13.8 V DC)

The AH-705 fits into the LC-192 multi-function backpack



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