

# AL-705

QRP MAGNETIC LOOP  
40M - 10M (7 - 29.7 MHz)



## DESCRIPTION

The AL-705 is a 10 to 40 meter antenna rated at 20W PEP SSB, 10W CW, FM, AM, & Digital.

## Assembly

**WARNING - Never use the Inner or Outer Coaxial cables of the AL-705 as a jumper coax.**

### Assemble the Loop

1) Attach the large radiating element by screwing both of the PL-259s into the SO-239s on the tuning box.

2) Attach the small coupling element to the approximate center of the larger radiating element using the included nylon clip. NOTE – An inner loop that is slightly vertically elongated will result in a slightly lower SWR.

### Connect the feedline

Attach the feedline to the coupling element, and the other end to your transceiver.

### Output power

Please refer to your radio's user manual to ensure settings like Mic Gain, Compression, etc. are properly set for the desired output.

# **OPERATION**

## **SITE SELECTION**

- ~ Do not place the AL-705 on a metal surface.
- ~ Place the AL-705 at least 3 feet from metal objects.
- ~ Place the AL-705 greater than 1 loop diameter above the ground.
- ~ Place the AL-705 higher to enable it to radiate above and past obstacles.

## **TUNING**

- ~ Set your transceiver to SSB mode and listen for the loudest noise floor while tuning.
- ~ Tune and dip the SWR to less than 2.5:1 on your rigs SWR meter or an antenna analyzer.

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## **GUIDANCE**

- ~ By design, one of the center pins on the small coupling element is not soldered.
- ~ Accessories for the AL-705 are available from [www.AlphaAntenna.com](http://www.AlphaAntenna.com).