

# W3DZZ Antenna for the 160, 80, 40 and 10 meter Band

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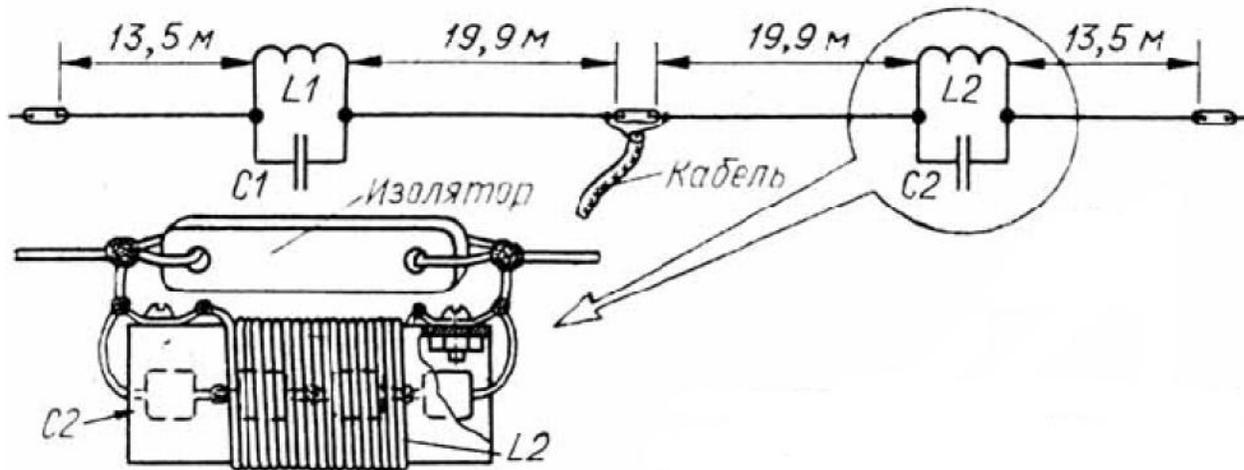
W3DZZ may be used at 160, 80, 40 and 10 meter Band. For the times of low solar activity those ones are that live bands. **Figure 1** shows design of the antenna. The antenna needs a free space in 67 meters to hang it up. Antenna may be fed through a 50 or 75 Ohm coaxial cable.

For the antenna you need to use a resonant tank for 3.580 kHz. The inductor of the tank was wound on the form of diameter of 25- mm (or 1 inch), the inductor contains 38 turns of wires in dia of 1.0- mm (18 AWG). It was used a length of plastic water pipe for the form. Capacitor of the tank made of four capacitors in 470- pF x 500V that were connected in serial. The capacitors were placed inside of the plastic tube- the form of the resonant tank inductor.

Then the tube was filled by a waterproof hermetic. The capacitors are placed on to a PCB.

The antenna was hanged up between two nine stories building. Antenna was fed by a 75- Ohm coaxial cable in 45 meter length. The antenna had SWR 1.5:1 at 1840- MHz and at 3580 kHz. Antenna had SWR not more then 2:1 at 7.1 and 28.0- 28.7- MHz. Resonance frequency of the LC Tank (measured by GDO) was 3580 kHz.

*73! de UA3DJG*



**Figure 1**

W3DZZ Antenna for the 160, 80, 40 and 10 meter Band