10 Element Antenna for the 433- MHz Band

The publication is devoted to the memory of UR0GT.

Credit Line: Forum from: www.cqham.ru

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The 10 element antenna has good SWR from 430 to 434 MHz. Antenna has input impedance 28- Ohm. For matching of the antenna with 50- Ohm coaxial cable there is used known matching device on two parallel length of 75- Ohm coaxial cable.

Design of the 10 Element Antenna for the 433- MHz Band is shown on **Figure 1**.

Length of the elements and distance between them is in mm. Diameter of the element is 10- mm. Matching device 28/50 Ohm is shown on **Figure 2**.

Figure 3 shows Z of the 10 Element Antenna for the 433- MHz Band. **Figure 4** shows SWR of the 10 Element Antenna for the 433- MHz Band. **Figure 5** shows DD of the 10 Element Antenna for the 433- MHz Band.

73! Nick, UR0GT

The MMANA model of the Simple Antenna for the 435- MHz Band may be loaded: http: // www.antentop.org/022/433_ur0gt_022.htm

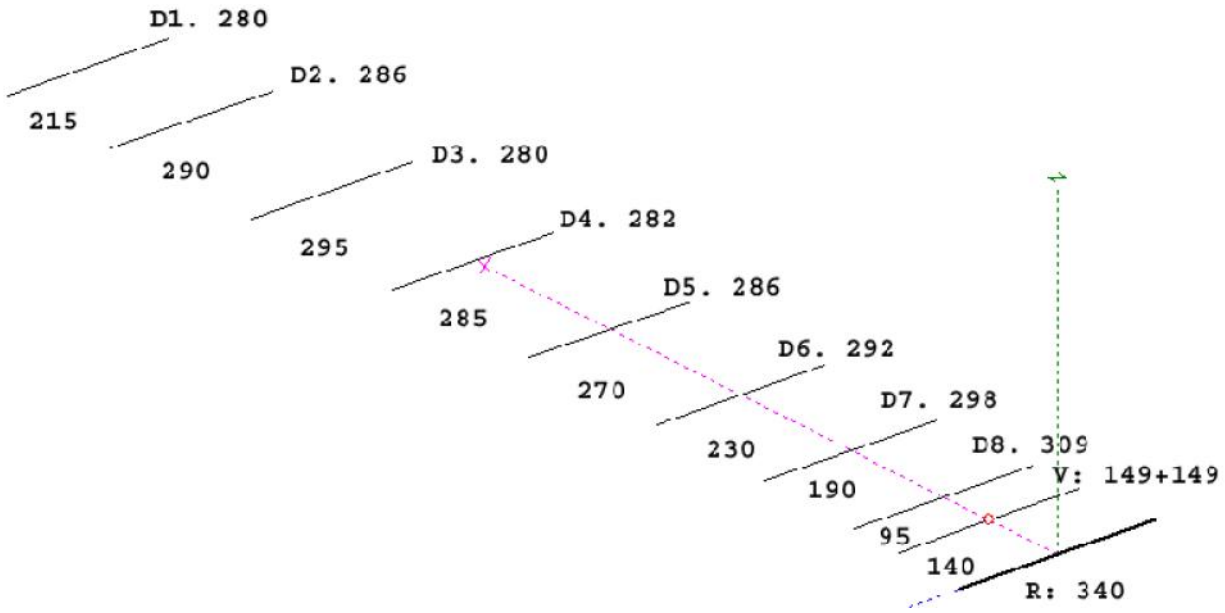

Figure 1 10 Element Antenna for the 433- MHz Band

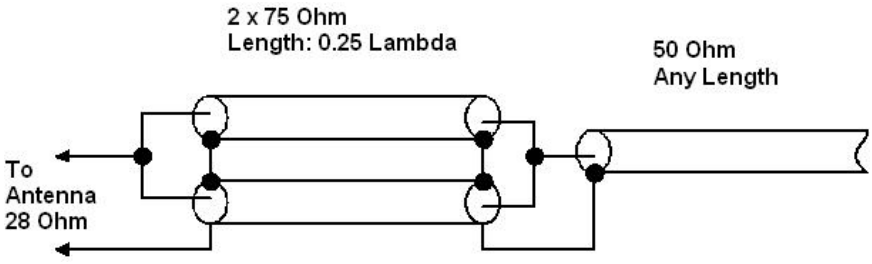

Figure 2 Matching Device for the 10 Element Antenna for the 433- MHz Band

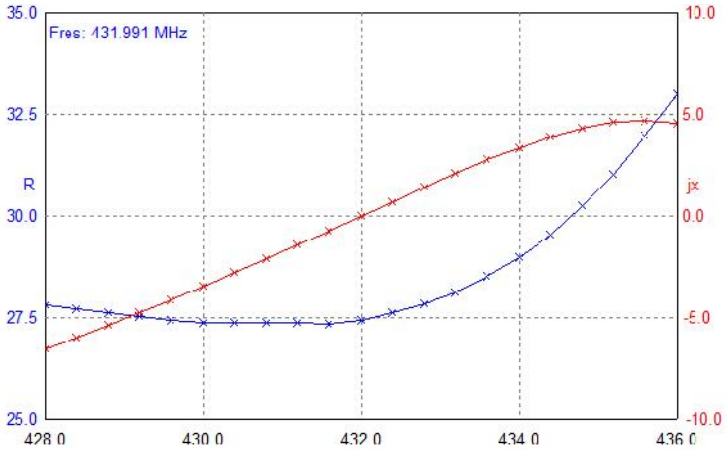

Figure 3

Z of the 10 Element Antenna for the 433- MHz Band

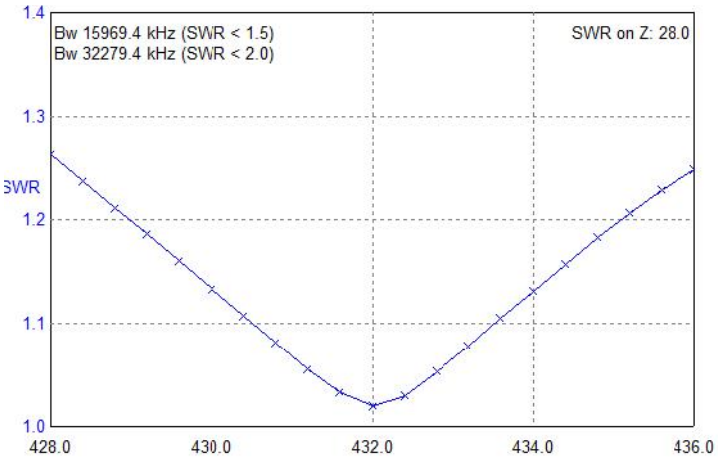

Figure 4

SWR of the 10 Element Antenna for the 433- MHz Band

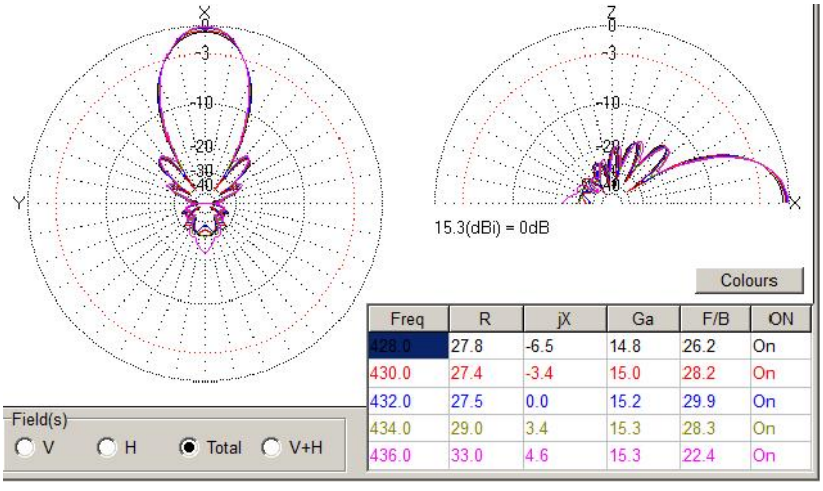

Figure 5

DD of the 10 Element Antenna for the 433- MHz Band