

UR0GT Directional DEWD Antenna for the 145- MHz Band

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There is presented directional antenna for the 145- MHz Band with active vibrator made on the base of UR0GT DEWD Antenna. Antenna has good SWR at the band and excellent F/B ratio. Antenna does not require follow to strictly dimension of the elements. So the antenna may be done ever by a ham who has no large experience in the antenna building.

It is possible use copper or aluminum stuff. Antenna has dielectric traverse. Dimensions are given in millimeter.

The antenna has reflector with bent ends. It is done to improve F/B ratio. Anyway you may play with model of the antenna in MMANA and check what you could reach.

Antenna has 50- Ohm input impedance that allows feed the antenna directly by 50- Ohm coaxial cable. **Figure 1** shows schematic of the antenna. Antenna reflector antenna made of tube/rod in diameter 5- mm. All others antenna elements of the antenna made of tube/rod in diameter 8- mm.

Figure 2 shows Z of the antenna. **Figure 3** shows SWR of the antenna. **Figure 4** shows DD of the antenna.

73! RN3DEK

MMANA File of the UR0GT Directional DEWD Antenna for the 145- MHz Band may be downloaded at: http://www.antentop.org/022/RN3DEK_022.htm

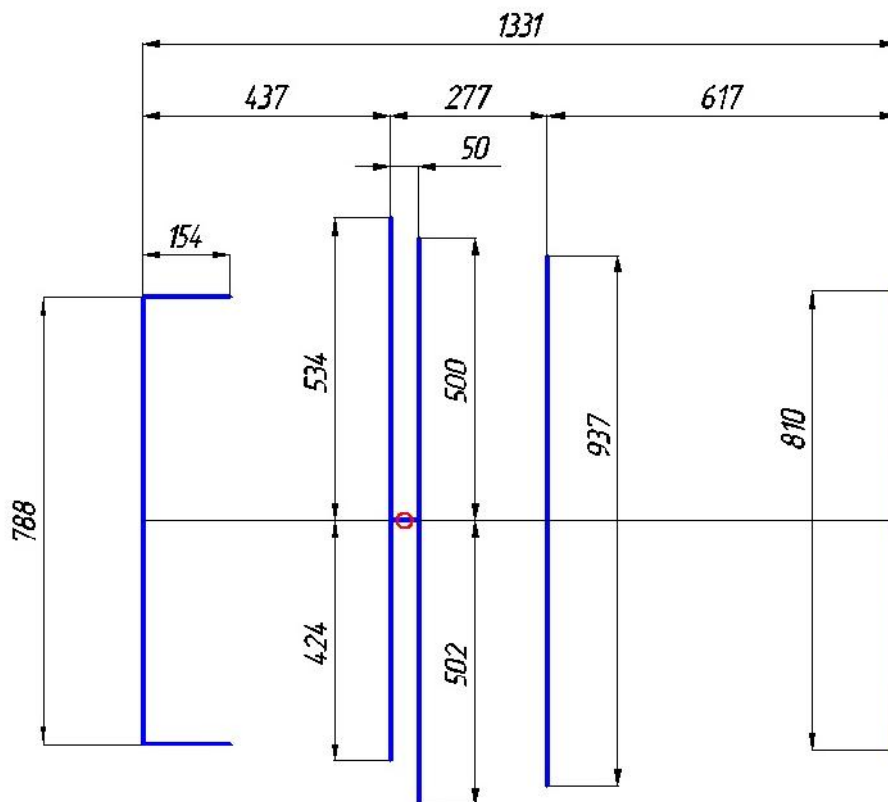


Figure 1

UR0GT Directional DEWD Antenna for the 145- MHz Band

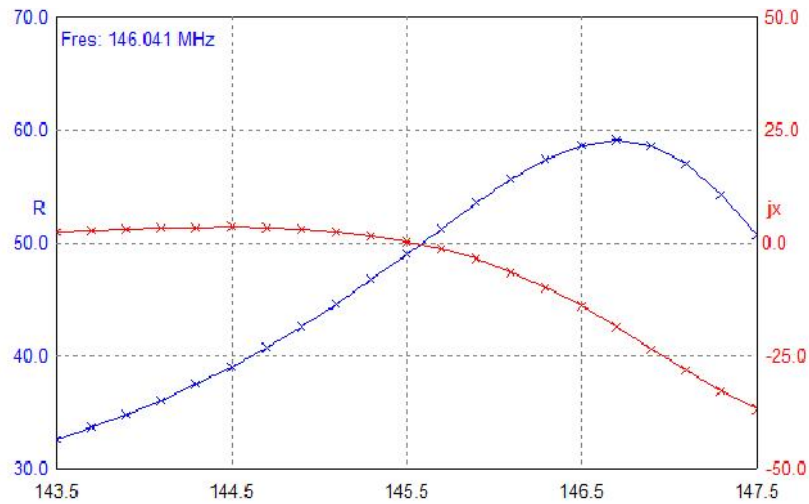


Figure 2 Z of the UR0GT Directional DEWD Antenna for the 145- MHz Band

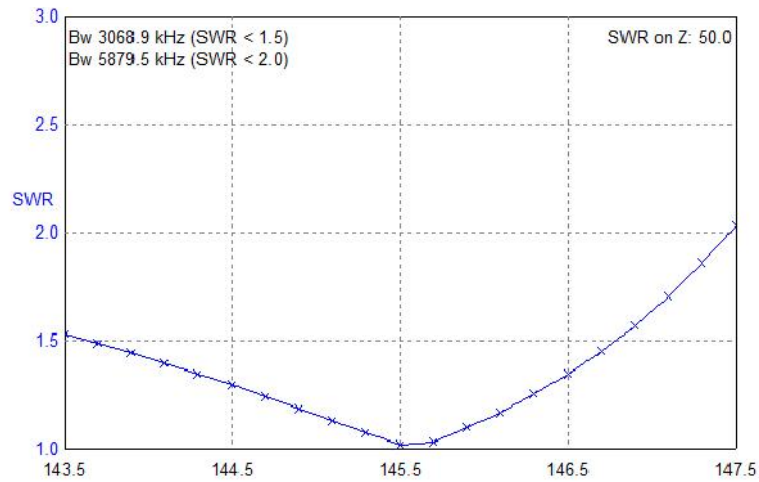


Figure 3 SWR of the UR0GT Directional DEWD Antenna for the 145- MHz Band

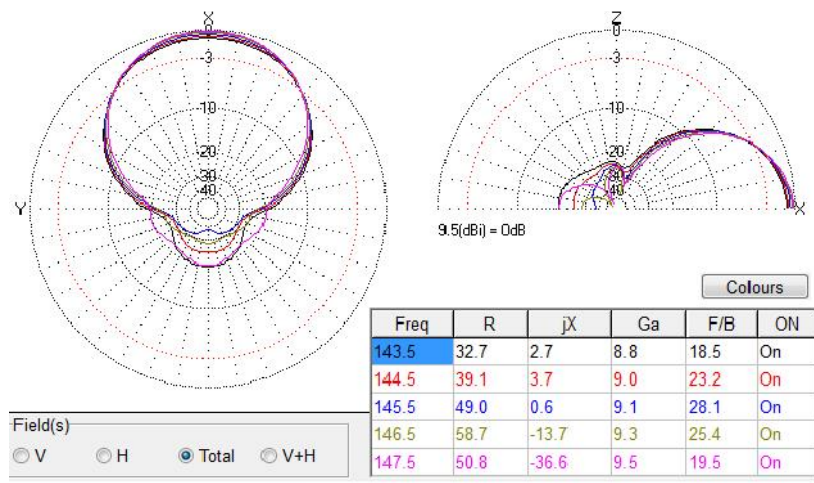


Figure 4 DD of the UR0GT Directional DEWD Antenna for the 145- MHz Band