

Short Five Elements Antenna for the 70- cm Band

By: Yuriy Skutelis, RN3DEK

Credit Line: Forum at www.cqham.ru

Short Five Elements Antenna (length 50- cm) made of aluminum rod (or tube) in diameter 5- mm. Antenna designed for repeater sub- band. Antenna has gain near 7.4- dBd at 439.0- MHz. F/B at the frequency is 35.9 dB.

Antenna input impedance is 50- Ohm. It allows feed the antenna directly by 50- Ohm coaxial cable. **Figure 1** shows design of the antenna. **Figure 2** shows Z of the antenna. **Figure 3** shows SWR of the antenna. **Figure 4** shows DD of the antenna.

MMANA file of the antenna may be downloaded at: http://www.antentop.org/020/short_020.htm

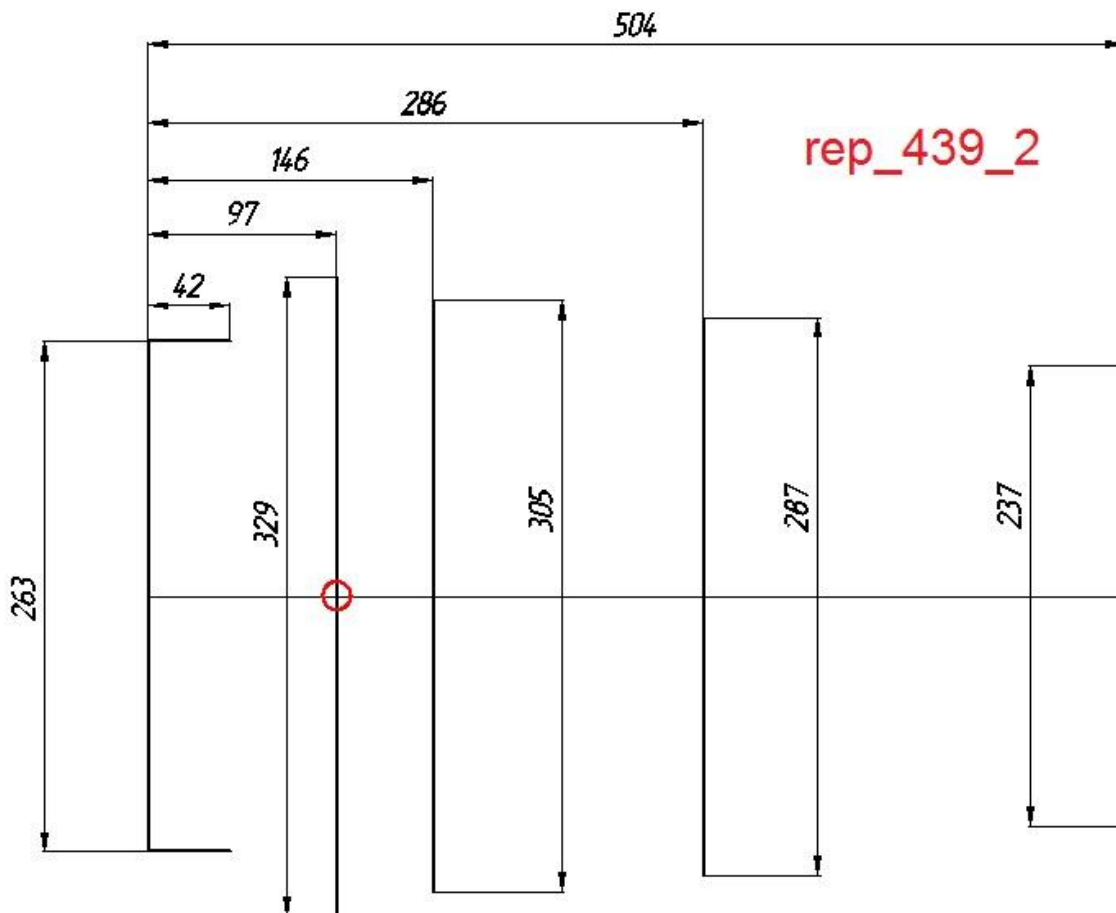


Figure 1 Short Five Elements Antenna for the 70- cm Band



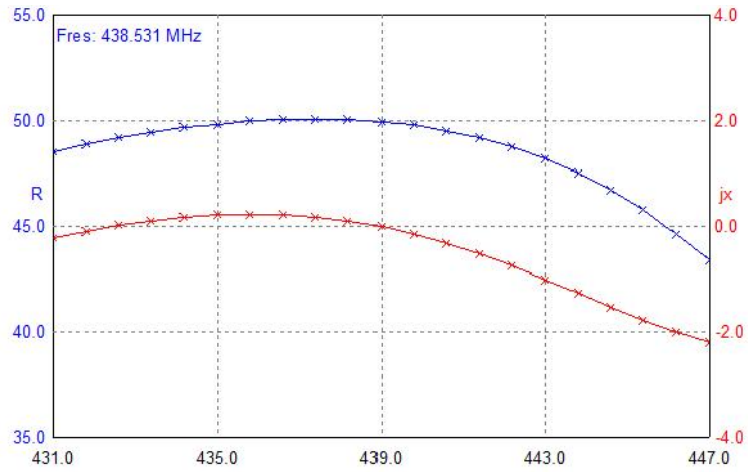


Figure 2 Z of the Short Five Elements Antenna for the 70- cm Band

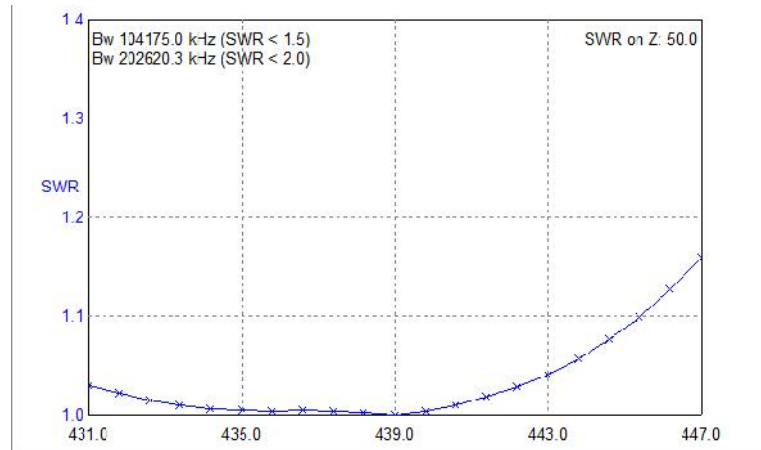


Figure 3 SWR of the Short Five Elements Antenna for the 70- cm Band

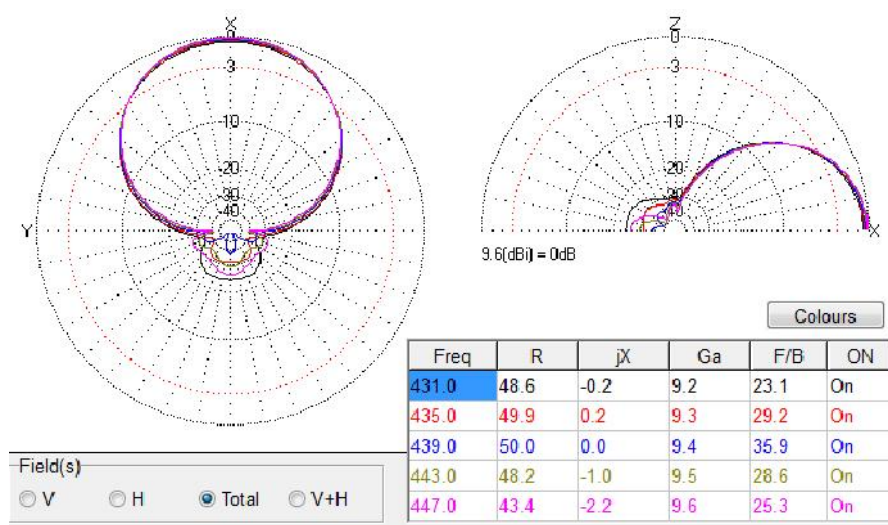


Figure 4 DD of the Short Five Elements Antenna for the 70- cm Band