

# Broadband Five Elements Antenna for the 70- cm Band

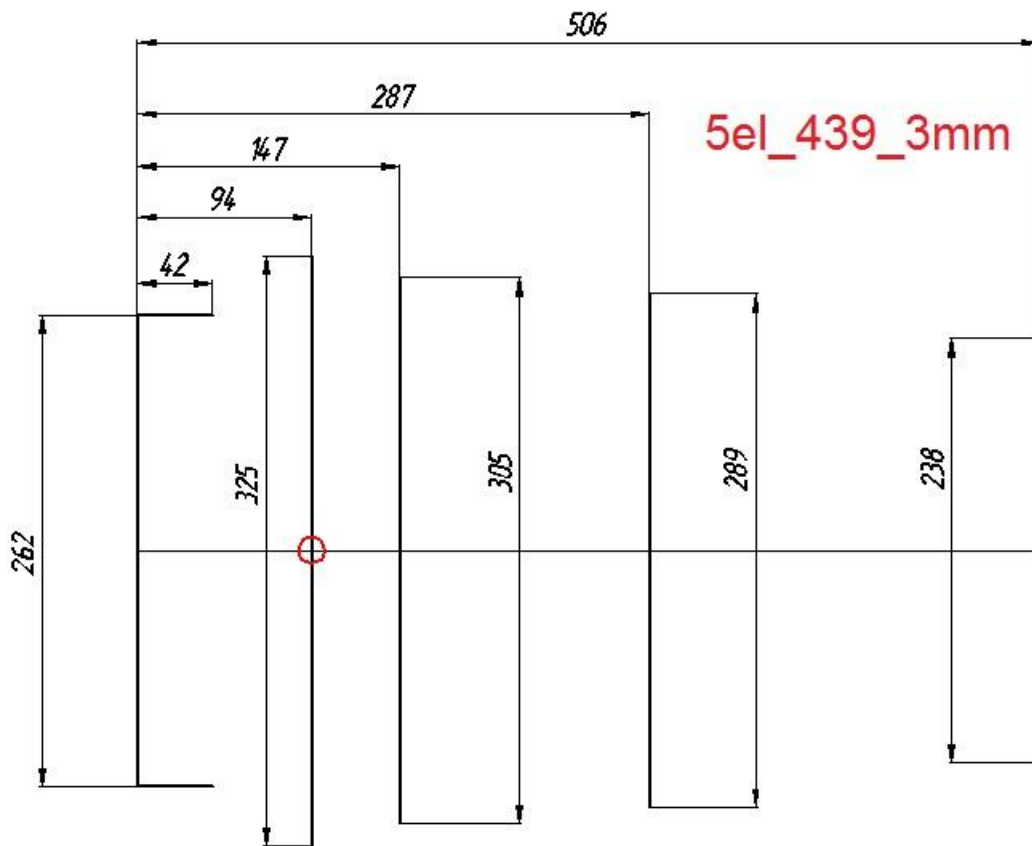
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Credit Line: Forum at [www.cqham.ru](http://www.cqham.ru)

Broadband Five Elements Antenna (length 50- cm) designed on the base of Short Five Elements Antenna for the 70- cm Band (Antentop 01- 2016). The antenna has low SWR at the upper edge of the 70- cm Band. Antenna made of aluminum rod (or tube) in diameter 3- mm. Antenna has gain near 7.2- dBd at 439.0- MHz. F/B at the frequency is 35.3 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 mat be downloaded at: [http://www.antentop.org/020/broadband\\_020.htm](http://www.antentop.org/020/broadband_020.htm)



**Figure 1** Broadband Five Elements Antenna for the 70- cm Band



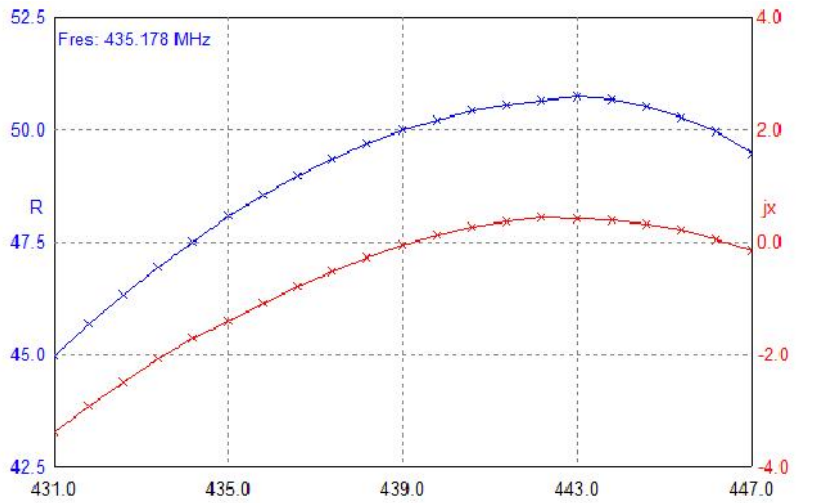


Figure 2 Z of the Broadband Five Elements Antenna for the 70- cm Band

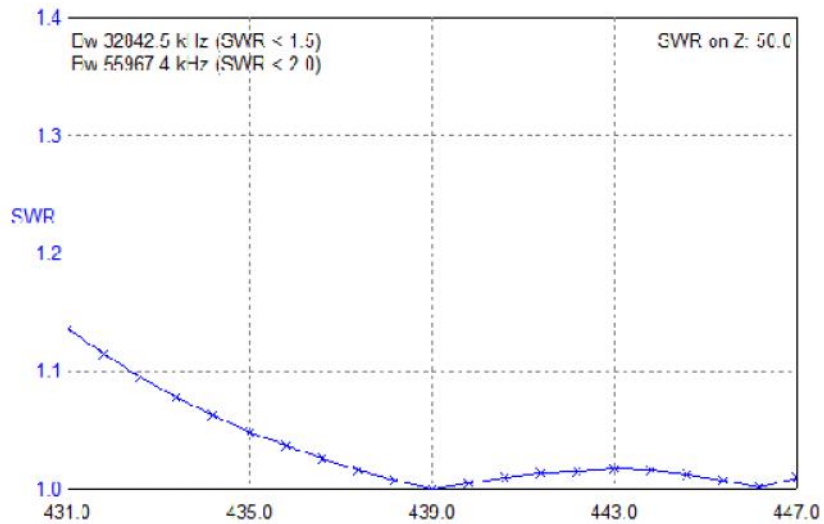


Figure 3 SWR of the Broadband Five Elements Antenna for the 70- cm Band

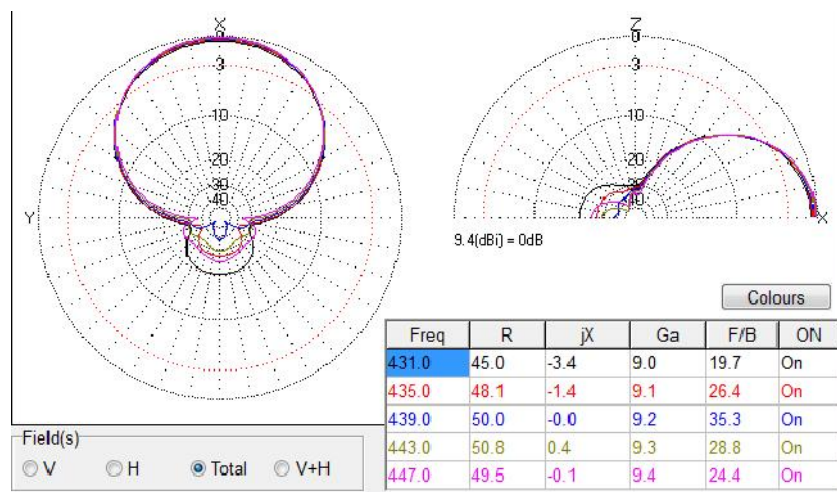


Figure 4 DD of the Broadband Five Elements Antenna for the 70- cm Band