

6 Element Antenna for the 50- MHz Band

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 Credit Line: Forum at cqham.ru

There is presented 6 elements directional antenna for the 50- MHz Band. Antenna has good SWR at the band and excellent F/B ratio. Antenna allows to be made with some tolerance. It is very convenient for because in real life it is very hard to note all outer environment objects. Antenna has 50- Ohm input impedance that allows feed the antenna directly by 50- Ohm coaxial cable.

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

Figure 1 shows schematic of the antenna. Antenna elements made of tube in diameter of 16- mm.

Figure 2 shows Z of the 6 element antenna for the 50- MHz Band. Figure 3 shows SWR of the 6 element antenna for the 50- MHz Band. Figure 5 shows DD of the 6 element antenna for the 50- MHz Band.

73! RN3DEK

MMANA File of the 6 Element Antenna for the 50- MHz Band may be downloaded at:

http://www.antentop.org/022/6_el_50mhz_022.htm

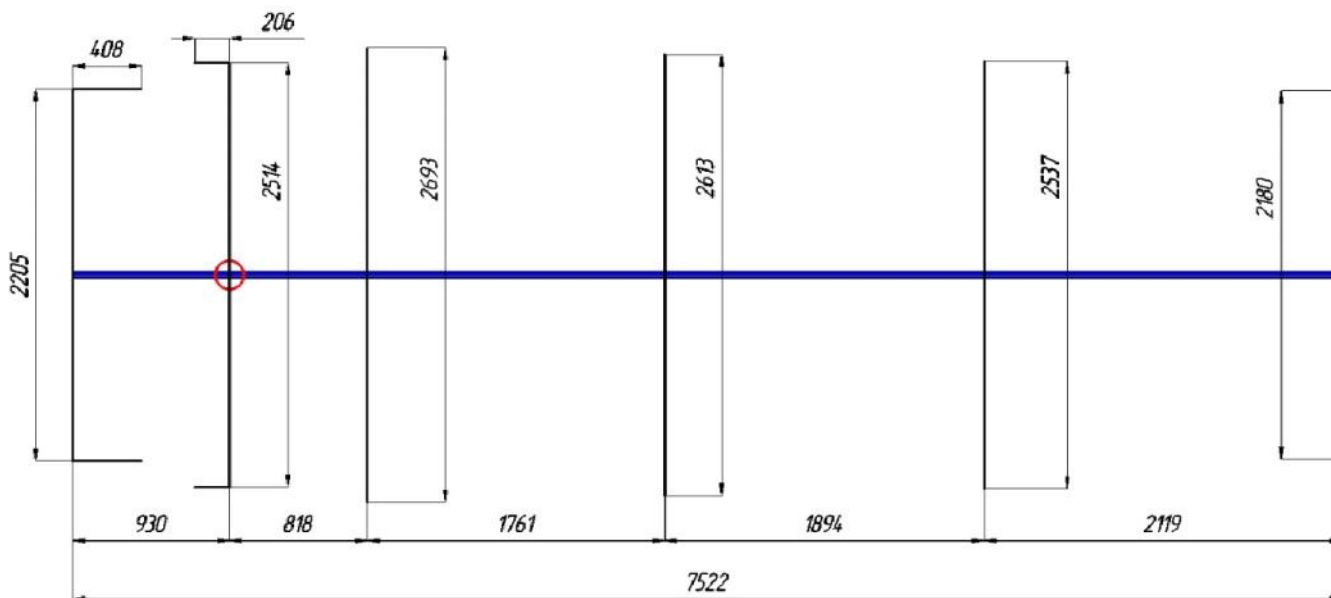


Figure 1
 6 Element Antenna for the 50- MHz Band



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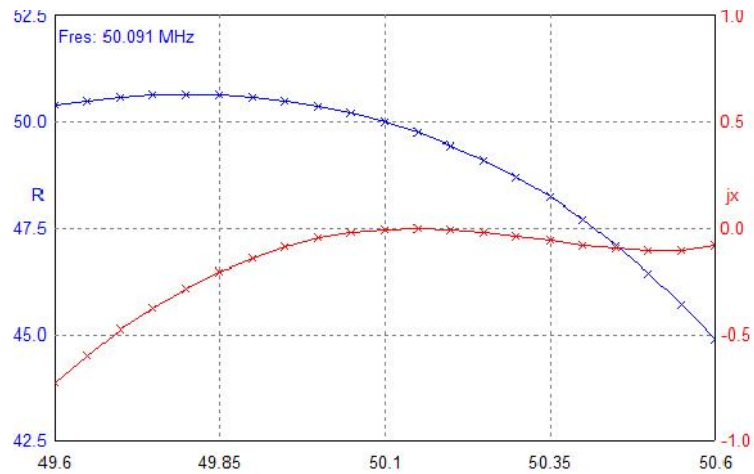


Figure 2 Z of the 6 Element Antenna for the 50- MHz Band

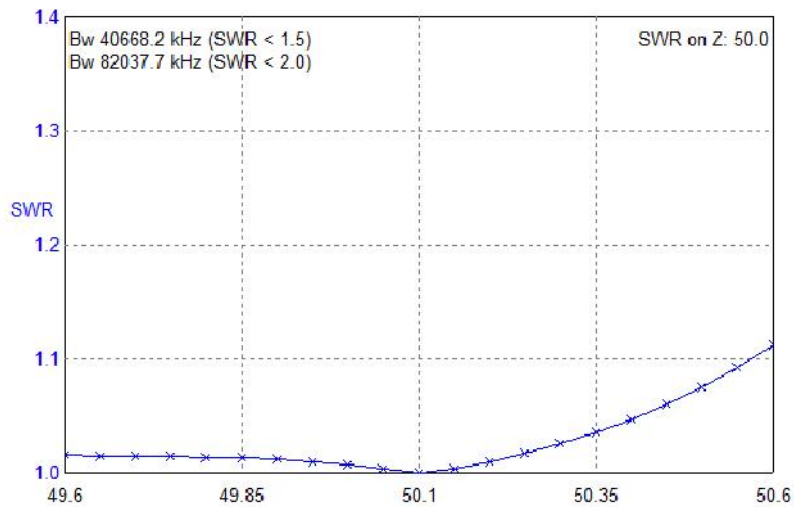


Figure 3 SWR of the 6 Element Antenna for the 50- MHz Band

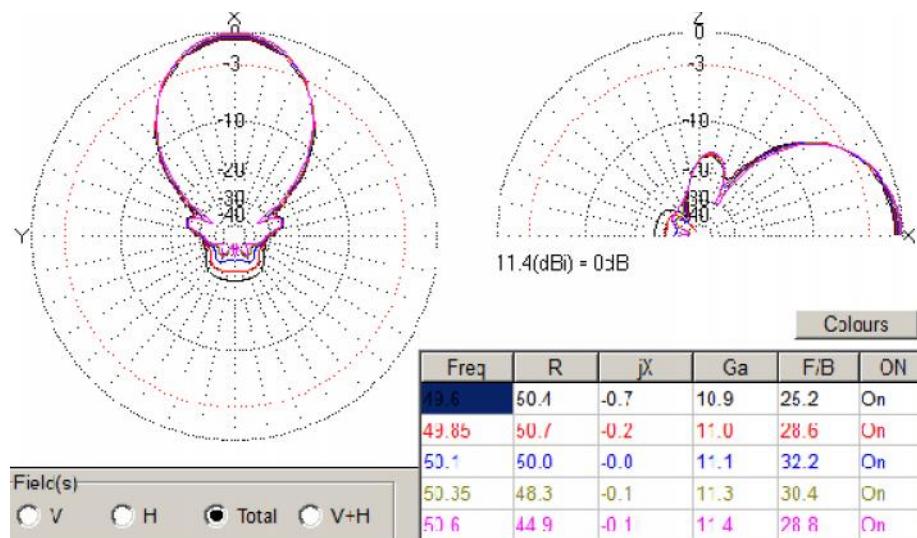


Figure 4 DD of the 6 Element Antenna for the 50- MHz Band